

State Population Total

1,427,538

City & County of Honolulu

988,650

Hawaii County

200,381



2017

The State of Hawaii
DATA BOOK
A Statistical Abstract

Kauai County

72,159

Maui County

166,348



DBEDT
THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
STATE OF HAWAII

2017

The State of Hawaii

DATA BOOK

A Statistical Abstract

August 2018



DBEDT
THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
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Bibliography

Table A. Printing History of the *State of Hawaii Data Book*
Availability of electronic versions of the *Data Book* tables

This report has been produced by the Hawaii State Department of Business, Economic Development & Tourism's Research and Economic Analysis Division, headed by Eugene X. Tian, Ph.D., Economic Research Administrator. It was compiled and edited by Yang-Seon Kim, Ph.D., Research and Statistics Officer; Mary Blewitt, Economist; Jan Nakamoto, Paul Oshiro, and Carlie Fogleman, Research Statisticians. The Office of Planning GIS Program, DBEDT, produced the maps.

The report is available <<http://dbedt.hawaii.gov>>.

ABOUT THIS EDITION

The Department of Business, Economic Development & Tourism is pleased to present the 2017 edition of the *State of Hawaii Data Book*, the official summary of statistics on the social, economic, and political organization of our state.

This edition, the 50th in the series, places major emphasis on statewide data and less so on counties, islands, urban places, and smaller areas. Source references for additional statistical detail are provided in the introductions to the sections and at the end of each table.

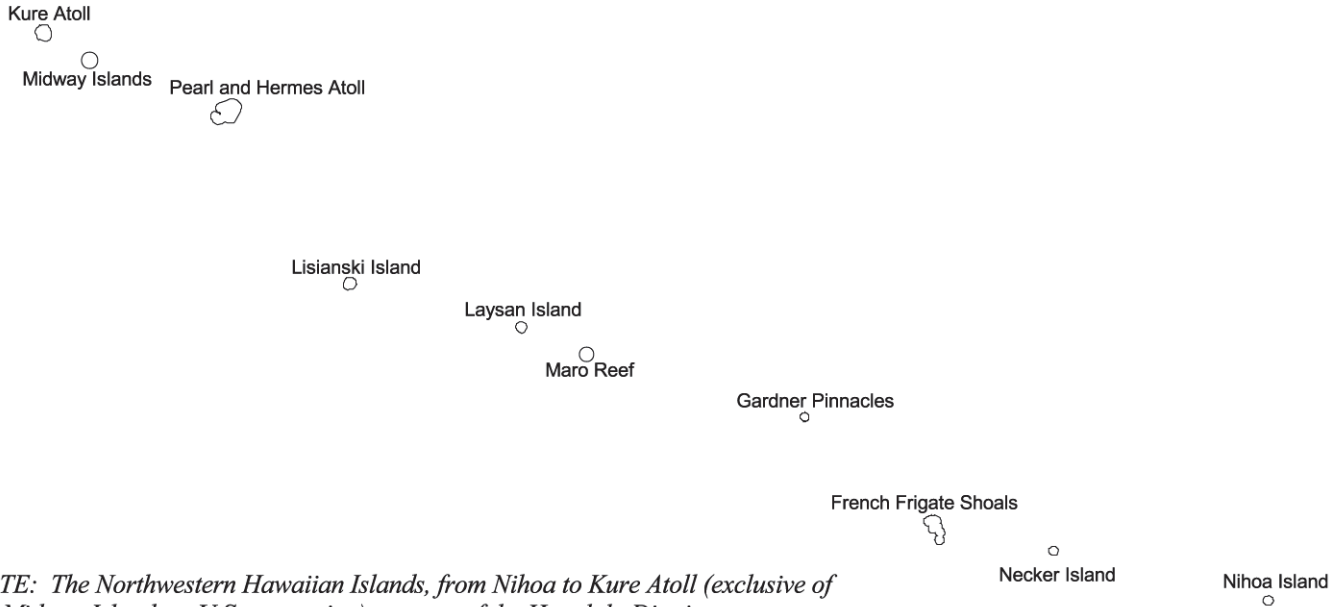
Agencies of the federal, state, and county governments, as well as numerous private organizations, assisted DBEDT's Research and Economic Analysis Division in preparing the *Data Book*. To them, we extend our appreciation for their cooperation and contributions to this annual endeavor.



Luis P. Salaveria
Director of Business,
Economic Development &
Tourism

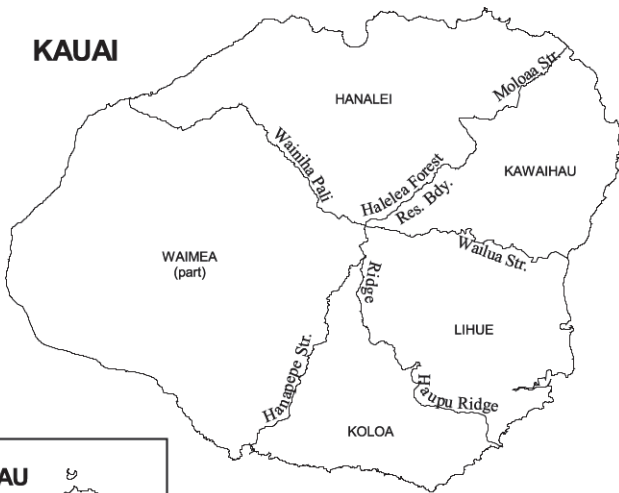
STATE OF HAWAII

COUNTIES and DISTRICTS



NOTE: The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession) are part of the Honolulu District.

INSET A KAUAI COUNTY



NIHAU

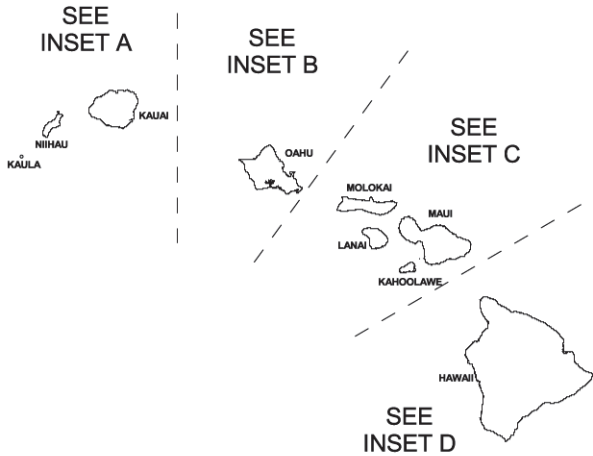
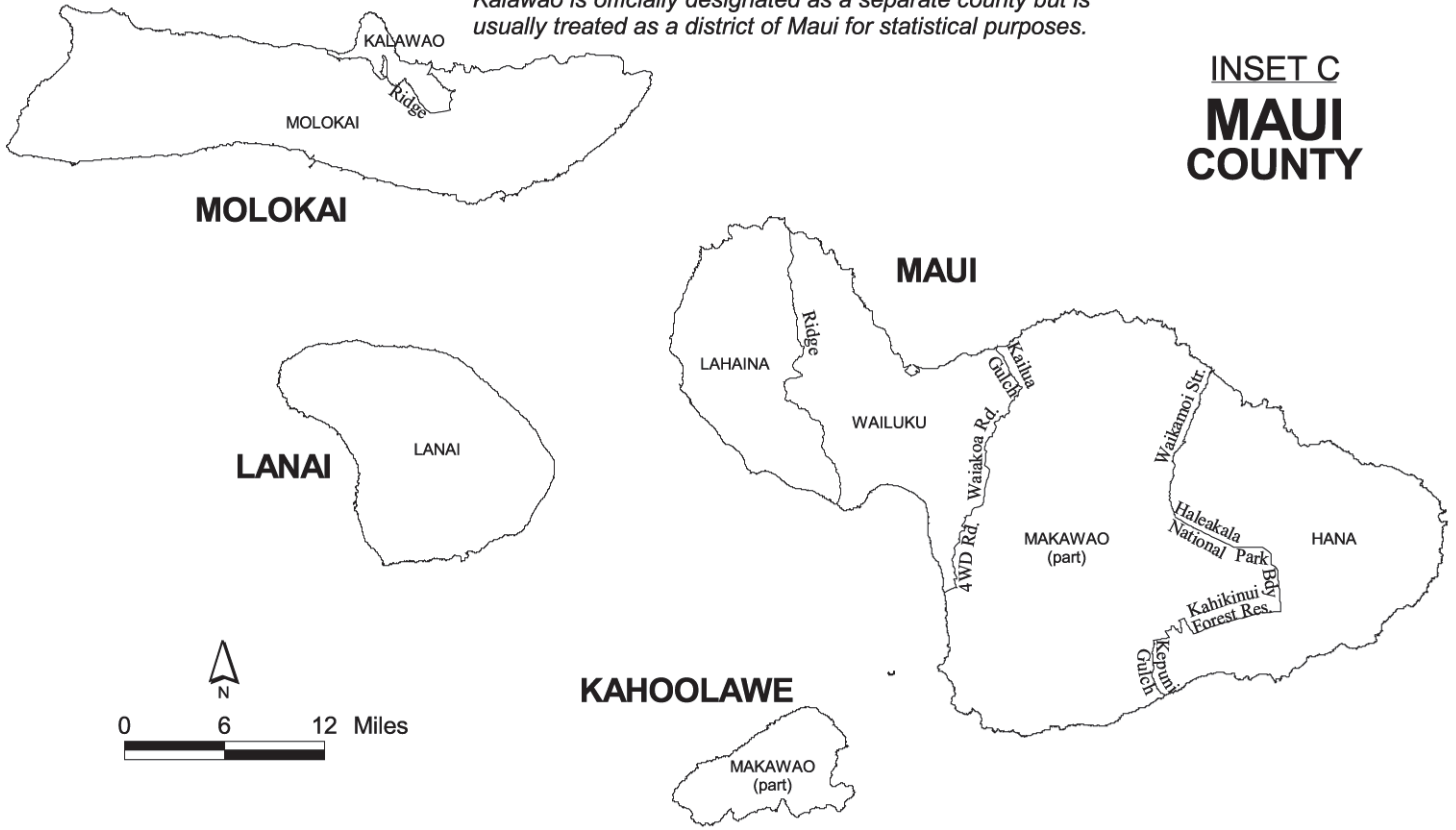


INSET B HONOLULU CITY AND COUNTY



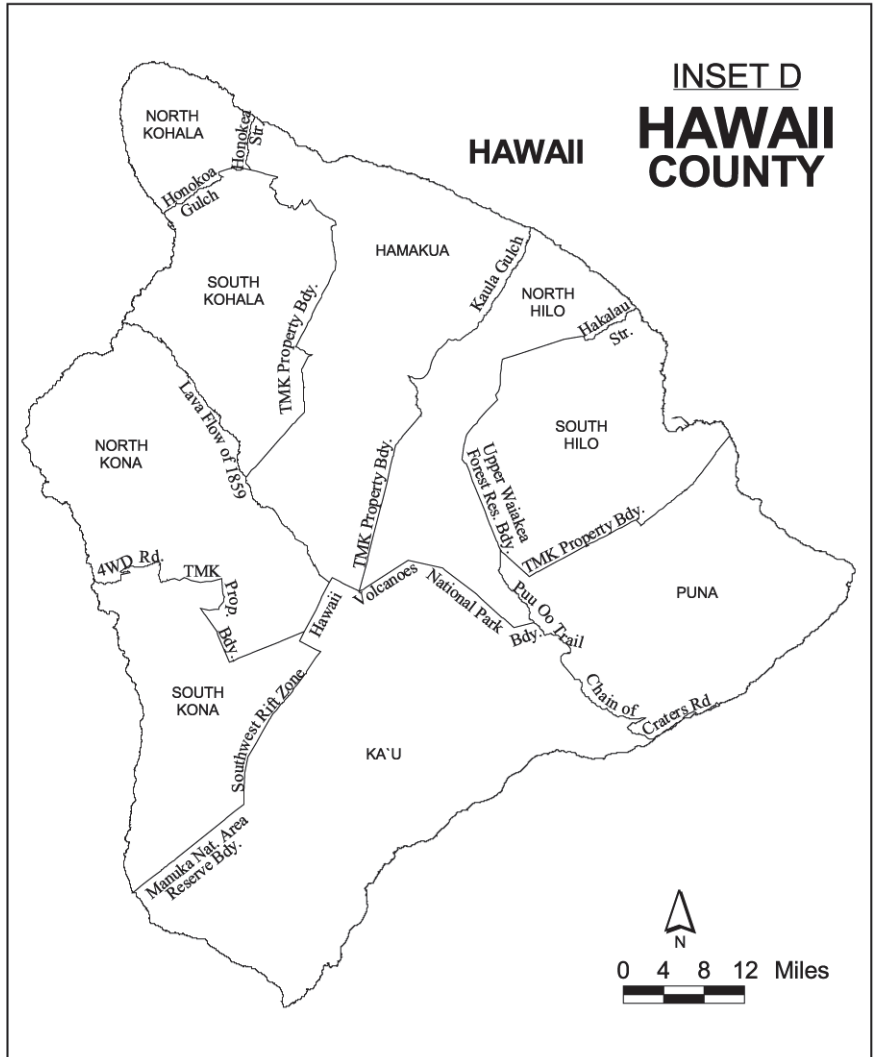
Kalawao is officially designated as a separate county but is usually treated as a district of Maui for statistical purposes.

**INSET C
MAUI
COUNTY**



STATE OF HAWAII
DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM
OFFICE OF PLANNING
2001

**INSET D
HAWAII
COUNTY**



GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Census Bureau in its former publication, *Statistical Abstract of the United States*, and described in *Bureau of the Census Manual of Tabular Presentation*, published by the Bureau in 1950. These principles have been accepted by the Department of Business, Economic Development & Tourism for use in its publications and recommended to all other state agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items, figures or symbols within the table.

Parallel vertical rules are used to the right of a total column to indicate --

- (1) that the components which follow add to the total;
- (2) in the case of derived figures, that the underlying data are additive to their total.

A dash (-) represents zero in references to absolute values. In rates and percentages, a zero (0) is used. When data are not available (NA) is used. The symbol (X) is used when data are not applicable. A (D) is used when information is withheld by the source to avoid disclosing data for individual companies.

In many tables, details will not add exactly to the totals and subtotals shown because of rounding.

Geographic coverage should be understood as statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

The source of a table may include an address to an Internet webpage. Should the link be invalid, please try the upper levels of the address.

Brackets (< >) indicate the uniform resource locator (URL) of the website of the publication, title page, if applicable, or the page where cited material appears.

Section 1

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the state.

The principal sources for these data are the decennial population censuses and the annual American Community Survey conducted by the U.S. Census Bureau; the annual population estimates by the U.S. Census Bureau; the Hawaii Health Survey conducted regularly since 1969 by the Hawaii State Department of Health; the ongoing series on visitors present and residents absent currently provided by the Hawaii Tourism Authority's Tourism Research; and the Office of Immigration Statistics tabulations on immigration and naturalization. Earlier figures on population and migration are given in *Historical Statistics of Hawaii*, Sections 1 and 3. Comparable national statistics on population and migration appear in Section 1 of the *Statistical Abstract of the United States: 2012*.

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Table 1.01-- POPULATION OF COUNTIES: 1831 TO 2010

[Population counts from missionary censuses of 1831-1832 and 1835-1836, censuses conducted by the Hawaiian government from 1850 to 1896, and censuses by the U.S. Bureau of the Census beginning in 1900. Data for 1831-1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, including armed forces stationed in Hawaii. Based on county boundaries established in 1905 and 1909]

Census date	Total population		City & County of Honolulu	Hawaii County	Kauai County	Maui County 2/
	Number	Percent change 1/				
1831-32 3/	130,313	(X)	29,755	45,792	12,024	42,742
1835-36 4/	108,579	-4.6	27,809	39,364	9,927	31,479
1850: January	84,165	-1.8	25,440	25,864	7,670	25,191
1853: Dec. 26	73,138	-3.5	19,126	24,450	7,781	21,781
1860: Dec. 24	69,800	-0.7	21,275	21,481	7,134	19,910
1866: Dec. 7	62,959	-1.7	19,799	19,808	6,624	16,728
1872: Dec. 27	56,897	-1.7	20,671	16,001	5,194	15,031
1878: Dec. 27	57,985	0.3	20,236	17,034	5,811	14,904
1884: Dec. 27	80,578	5.5	28,068	24,991	8,935	18,584
1890: Dec. 28	89,990	1.8	31,194	26,754	11,859	20,183
1896: Sept. 27	109,020	3.3	40,205	33,285	15,392	20,138
1900: June 1	154,001	9.4	58,504	46,843	20,734	27,920
1910: April 15	191,874	2.2	81,993	55,382	23,952	30,547
1920: January 1	255,881	3.0	123,496	64,895	29,438	38,052
1930: April 1	368,300	3.6	202,887	73,325	35,942	56,146
1940: April 1	422,770	1.4	257,696	73,276	35,818	55,980
1950: April 1	499,794	1.7	353,020	68,350	29,905	48,519
1960: April 1	632,772	2.4	500,409	61,332	28,176	42,855
1970: April 1	769,913	2.0	630,528	63,468	29,761	46,156
1980: April 1	964,691	2.3	762,565	92,053	39,082	70,991
1990: April 1	1,108,229	1.4	836,231	120,317	51,177	100,504
2000: April 1	1,211,537	0.9	876,156	148,677	58,463	128,241
2010: April 1	1,360,301	1.2	953,207	185,079	67,091	154,924

X Not applicable.

1/ Annual rate since the preceding census, based on the formula for continuous compounding.

2/ Maui County including Kalawao County.

3/ Total population also reported as 129,814.

4/ Total population also reported as 108,393 and 108,568.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 11-14; U.S. Bureau of the Census, *1980 Census of Population*, PC80-1-A13 (October 1981), table 2; U.S. Bureau of the Census, *1990 Census of Population and Housing*, 1990 CPH-1-13 (August 1991), table 2; U.S. Bureau of the Census, *Census 2000 Redistricting Data (P.L. 94-171) Summary File* (March 19, 2001); and U.S. Bureau of the Census, *2010 Census Redistricting Data (Public Law 94-171) Summary File* (February 2011).

Table 1.02-- CHARACTERISTICS OF THE POPULATION: 1831 TO 2010

[See headnote to Table 1.01]

Year	Percent urban	Males per 100 females	Percent under 15 years old	Percent white 1/	Percent born in Hawaii	Persons per household 2/
1831-32	10.3	105.3	26.1	(NA)	(NA)	(NA)
1835-36	12.0	(NA)	(NA)	(NA)	(NA)	(NA)
1850	17.2	110.1	(NA)	(NA)	(NA)	(NA)
1853	15.7	113.1	(NA)	2.3	97.5	(NA)
1860	20.5	116.1	(NA)	2.7	(NA)	(NA)
1866	21.5	120.4	26.5	3.8	(NA)	(NA)
1872	26.1	125.4	27.8	5.2	92.1	(NA)
1878	24.3	142.8	28.1	6.5	83.6	(NA)
1884	25.4	177.5	28.0	20.6	57.4	(NA)
1890	25.5	187.7	26.1	21.0	53.5	(NA)
1896	27.4	198.7	27.7	20.6	48.8	(NA)
1900	25.5	223.3	22.6	17.3	38.3	3.71
1910	30.7	178.9	29.5	20.4	45.1	(NA)
1920	36.1	144.3	35.5	19.2	53.3	(NA)
1930	53.7	152.8	36.2	20.0	58.2	(NA)
1940	62.5	137.6	30.9	24.5	65.8	4.46
1950	69.0	121.2	31.2	23.0	71.1	4.14
1960	76.5	114.8	34.4	32.0	66.6	3.87
1970	83.5	108.1	30.0	39.2	59.2	3.59
1980	86.5	105.2	23.4	34.4	57.8	3.15
1990	89.0	103.6	21.5	33.4	56.1	3.01
2000	91.6	101.0	20.3	3/ 39.3	56.9	2.92
2010	(NA)	100.3	18.5	3/ 41.5	(NA)	2.89

NA Not available.

1/ Includes Portuguese and most Puerto Ricans. Data from 1970 onward also include some persons of mixed race.

2/ Based on population in households. Partly estimated for 1940.

3/ The Census 2000 onward allowed respondents to select one or more races. Data include persons selecting white race alone or in combination with one or more of the other four major race groups, which are Black or African American, American Indian and Alaska Native, Asian, Native Hawaiian and Other Pacific Islander as well as the residual category of some other race.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 8, 20, 25, 33, and 90; U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), tables 14, 17, and 20, and *General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61; U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), tables 3 and 5, and *Population and Housing Unit Counts, Hawaii*, 1990 CPH-2-13 (March 1993), table 1; U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 17, and *Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 23; U.S. Census Bureau, Census 2000 Summary File 1 Hawaii (July 25, 2001), Census 2000 Summary File 3 Hawaii (September 25, 2002) and 2010 Census Summary File 1 Hawaii (June 16, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 23, 2011, calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.03-- RESIDENT POPULATION, BY MILITARY STATUS:
2002 TO 2017**

[Based on place of usual residence, regardless of physical location on the estimate or census date. Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date	Total resident population 1/	Armed forces 2/	Civilian population		
			All civilians 1/	Military dependents 3/	Not military dependents 1/
2002: July 1	1,239,613	44,512	1,195,101	49,044	1,146,057
2003: July 1	1,251,154	43,938	1,207,216	49,771	1,157,445
2004: July 1	1,273,569	34,370	1,239,199	48,883	1,190,316
2005: July 1	1,292,729	40,371	1,252,358	48,286	1,204,072
2006: July 1	1,309,731	41,757	1,267,974	54,447	1,213,527
2007: July 1	1,315,675	34,891	1,280,784	57,717	1,223,067
2008: July 1	1,332,213	37,522	1,294,691	61,835	1,232,856
2009: July 1	1,346,717	37,527	1,309,190	57,595	1,251,595
2010: April 1 4/	1,360,301	40,797	1,319,504	5/ 65,063	1,254,441
July 1	1,363,817	39,378	1,324,439	62,322	1,262,117
2011: July 1	1,378,323	39,792	1,338,531	59,849	1,278,682
2012: July 1	1,392,772	43,081	1,349,691	60,271	1,289,420
2013: July 1	1,408,038	46,146	1,361,892	60,490	1,301,402
2014: July 1	1,417,710	47,201	1,370,509	63,228	1,307,281
2015: July 1	1,426,320	48,200	1,378,120	64,493	1,313,627
2016: July 1	1,428,683	47,645	1,381,038	64,342	1,316,696
2017: July 1	1,427,538	46,724	1,380,814	58,548	1,322,266

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area and residents temporarily absent, but excludes visitors present. Population estimates for 2000 through 2009 were based upon the April 1, 2010 figures released on September 28, 2011. Figures for "all civilians" and for "civilian population - not military dependent" may also differ from earlier figures as a result of these population revisions.

2/ These figures are the estimates developed by the U.S. Census Bureau. The figures in this table for July 1, 2000 to July 1, 2009 were based on the Census 2000 data. Figures for April 1, 2010 onward were based on the 2010 Census data. They may differ somewhat from corresponding figures from the previous year's *Data Book* or from other sources.

3/ Dependents living in Hawaii, regardless of location of family head.

4/ The April 1, 2010 Population Estimate base was used for the April 1 figures. They reflect changes to the April 1, 2010 population due to the Count Resolution Program and the geographic program revisions.

5/ DBEDT estimate for the number of military dependents on April 1, 2010. The "not military dependents" figure on April 1, 2010 is the residual of this DBEDT estimated "military dependents" figure subtracted from the "all civilians" figure.

Continued on next page.

**Table 1.03-- RESIDENT POPULATION, BY MILITARY STATUS:
2002 TO 2017 -- Con.**

Source: U.S. Census Bureau, Population Division, "Table 1. Intercensal Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2010" (ST-EST00INT-01) (September 28, 2011) <<http://www.census.gov/popest/data/intercensal/state/state2010.html>> accessed September 28, 2011; "Table 1. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2017" (NST-EST2017-01) (Dec. 20, 2017) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed December 20, 2017; "Annual Estimates of the Civilian Population by Single Year of Age and Sex for the United States and States: April 1, 2010 to July 1, 2017" (SC-EST2017-AGESEX-CIV) (June 21, 2018) <<https://www.census.gov/programs-surveys/popest/data/data-sets.html>> accessed June 21, 2018, and records; U.S. Census Bureau, decennial censuses; and Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers and calculations.

Table 1.04-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 2000 TO 2016

Date	Resident population 1/		De facto population 2/		De facto-resident ratio 2/
	Total	Temporarily absent 3/	Total	Visitors present 4/	
2000: April 1	1,211,537	42,021	1,337,991	168,475	1.104
July 1	1,213,519	46,151	1,336,005	168,637	1.101
2001: July 1	1,225,948	46,566	1,337,629	158,247	1.091
2002: July 1	1,239,613	46,757	1,353,051	160,195	1.092
2003: July 1	1,251,154	53,447	1,358,755	161,048	1.086
2004: July 1	1,273,569	57,481	1,387,569	171,481	1.090
2005: July 1	1,292,729	65,674	1,412,500	185,445	1.093
2006: July 1	1,309,731	68,656	1,430,516	189,441	1.092
2007: July 1	1,315,675	71,626	1,433,461	189,412	1.090
2008: July 1	1,332,213	72,080	1,432,620	172,487	1.075
2009: July 1	1,346,717	69,243	1,442,556	165,082	1.071
2010: July 1	1,363,817	73,217	1,468,549	177,949	1.077
2011: July 1	1,378,323	73,863	1,490,284	185,824	1.081
2012: July 1	1,392,772	75,985	1,518,054	201,267	1.090
2013: July 1	1,408,038	68,946	1,541,968	202,876	1.095
2014: July 1	1,417,710	64,898	1,559,029	206,217	1.100
2015: July 1	1,426,320	62,389	1,577,865	213,934	1.106
2016: July 1	1,428,683	63,093	1,583,265	217,675	1.108

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area and residents temporarily absent, but excludes visitors present. Population estimates for 2000 through 2009 were revised based upon the April 1, 2010 figures. These revisions were released on September 28, 2011. Population estimates after 2009 were based on data released December 20, 2016 and may differ somewhat from earlier figures cited in other tables.

2/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence. It includes visitors present but excludes residents temporarily absent, both calculated as an average daily census. De facto population estimates after July 2010 may differ somewhat from earlier figures cited in other tables due to revised population estimates released during the year. As a result of revisions to the resident and de facto population figures, the de facto-resident ratio may also differ from earlier figures cited in other tables.

3/ Figures reflect changes in research methodology by the Hawaii State Department of Business, Economic Development & Tourism in November 2000.

4/ Average daily census. Figures reflect changes in research methodology by the Hawaii State Department of Business, Economic Development & Tourism in November 2000.

Source: U.S. Census Bureau, Population Division, "Intercensal Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2010" (ST-EST00INT-01) (September 28, 2011) <<http://www.census.gov/popest/data/intercensal/>> accessed October 4, 2011 and "Table 1. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2017" (NST-EST2017-01) (December 20, 2017) <<https://www2.census.gov/programs-surveys/popest/tables/2010-2017/state/totals/nst-est2017-01.xlsx>> accessed December 20, 2017; Hawaii State Department of Business, Economic Development & Tourism, Tourism Research Branch; Hawaii Tourism Authority, Tourism Research; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.05-- RESIDENT POPULATION OF ISLANDS: 1970 TO 2012-2016

[Based on where a person lives and sleeps most of the time. Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present. Data for 2012-2016 are estimates and based on a sample; all others are from the decennial censuses]

Island	1970	1980	1990	2000	2010	2012-2016
State of Hawaii	769,913	964,691	1,108,229	1,211,537	1,360,301	1,413,673
Hawaii	63,468	92,053	120,317	148,677	185,079	193,680
Kahoolawe	-	-	-	-	-	-
Maui 1/	38,691	62,823	91,361	117,644	144,444	151,627
Lanai	2,204	2,119	2,426	3,193	3,135	3,455
Molokai	5,261	6,049	6,717	7,404	7,345	7,465
Oahu 2/	630,497	762,534	836,231	876,151	953,207	986,999
Kauai	29,524	38,856	50,947	58,303	66,921	70,447
Niihau 3/	237	226	230	160	170	(3/)
Northwestern Hawaiian Islands	31	31	(4/)	5	-	-
Necker Island	(NA)	-	-	5	-	-
French Frigate Shoals	(NA)	4	-	-	-	-
Laysan Island	(NA)	5	-	-	-	-
Kure Atoll	(NA)	22	(4/)	-	-	-
Other islands 5/	(NA)	-	-	-	-	-
Other Islands (Not legally part of the state)	3,227	780	186	(NA)	(NA)	(NA)
Midway Islands	2,220	453	13	(NA)	(NA)	(NA)
Baker Island	-	-	-	(NA)	(NA)	(NA)
Howland Island	-	-	-	(NA)	(NA)	(NA)
Jarvis Island	-	-	-	(NA)	(NA)	(NA)
Johnston Atoll	1,007	327	173	(NA)	(NA)	(NA)
Kingman Reef	-	-	-	(NA)	(NA)	(NA)
Palmyra Atoll	-	-	-	(NA)	(NA)	(NA)

NA Not available.

1/ Including Molokini (uninhabited) and Kalawao County (91 for 2012-2016).

2/ Including Sand Island (56 in 1970, 60 in 1980, 25 in 1990), Mokauea Island (12 in 1970, 11 in 1980, uninhabited in 1990), Ford Island (798 in 1970, 522 in 1980, 233 in 1990), and Moku o Loe (uninhabited in 1970, 16 in 1980, 6 in 1990). The combined total for Sand Island and Mokauea Island in 1960 was 36. These offshore islands were not reported separately in other years.

3/ Including Lehua and Kaula, uninhabited. In the source 2012-2016 estimate table, the population was shown as zero. There was, however, actually no response from the people surveyed on that island.

4/ Reported as uninhabited by the 1990 Census but with 24 by the U.S. Coast Guard.

5/ Nihoa, Gardner Pinnacles, Maro Reef, Lisianski Island, and Pearl and Hermes Atoll.

Source: U.S. Bureau of the Census, decennial census bulletins on number of inhabitants, census tracts, and block statistics, 1940-1990, and 1990 census printouts and tapes; U.S. Coast Guard, records (for Kure Atoll in 1990); and U.S. Census Bureau, Census 2000 and 2010 Redistricting Data (Public Law 94-171) Summary File and 2012-2016 ACS 5-year estimates

<<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed February 16, 2018.

Table 1.06-- RESIDENT POPULATION, BY COUNTY: 2000 TO 2017

[Based on place of usual residence, regardless of physical location on the estimate or census date. Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
2000: April 1 2/	1,211,537	876,156	148,677	58,463	128,241
July 1 3/	1,213,519	876,629	149,244	58,568	129,078
2001: July 1 3/	1,225,948	882,755	151,690	59,075	132,428
2002: July 1 3/	1,239,613	890,473	154,576	59,981	134,583
2003: July 1 3/	1,251,154	894,311	158,442	60,805	137,596
2004: July 1 3/	1,273,569	907,997	162,852	62,095	140,625
2005: July 1 3/	1,292,729	918,181	168,237	62,863	143,448
2006: July 1 3/	1,309,731	926,954	173,536	63,465	145,776
2007: July 1 3/	1,315,675	925,335	177,733	64,490	148,117
2008: July 1 3/	1,332,213	933,680	181,506	65,603	151,424
2009: July 1 3/	1,346,717	943,177	183,629	66,518	153,393
2010: April 1 2/	1,360,301	953,207	185,079	67,091	154,924
July 1 4/	1,363,817	956,193	185,347	67,199	155,078
2011: July 1 4/	1,378,323	966,514	187,049	67,832	156,928
2012: July 1 4/	1,392,772	976,299	189,118	68,573	158,782
2013: July 1 4/	1,408,038	985,734	191,583	69,626	161,095
2014: July 1 4/	1,417,710	989,438	194,240	70,523	163,509
2015: July 1 4/	1,426,320	993,716	196,740	71,387	164,477
2016: July 1 4/	1,428,683	992,761	198,681	71,769	165,472
2017: July 1	1,427,538	988,650	200,381	72,159	166,348

1/ Including Kalawao County (Kalaupapa Settlement). Kalawao had 147 in 2000, 90 in 2010 and 88 in 2017.

2/ Decennial census figure.

3/ Population estimates for 2000 through 2009 were revised based upon the April 1, 2010 figures which were released September 28, 2011.

4/ Population estimates after April 1, 2010 were based on revisions released in March 2018 and may differ somewhat from earlier figures cited in other tables.

Source: U.S. Bureau of the Census, Federal-State Cooperative Program for Population Estimates, "Table 1. Intercensal Estimates of the Resident Population for Counties of Hawaii: April 1, 2000 to July 1, 2010" (CO-EST00INT-01-15)

<<http://www.census.gov/popest/data/intercensal/county/tables/CO-EST00INT-01/CO-EST00INT-01-15.xls>> accessed September 28, 2011 and "Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2017" (PEPANNRES) (released March 22, 2018)

<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 22, 2018.

**Table 1.07 -- PERCENTAGE CHANGE IN RESIDENT POPULATION,
BY COUNTY: 2000 TO 2017**

[July 1 population. Based on place of usual residence, regardless of physical location on the estimate or census date. Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
Growth from previous year 2/:					
2000	0.3	-0.3	1.5	0.5	2.3
2001	1.0	0.7	1.6	0.9	2.6
2002	1.1	0.9	1.9	1.5	1.6
2003	0.9	0.4	2.5	1.4	2.2
2004	1.8	1.5	2.8	2.1	2.2
2005	1.5	1.1	3.3	1.2	2.0
2006	1.3	1.0	3.1	1.0	1.6
2007	0.5	-0.2	2.4	1.6	1.6
2008	1.3	0.9	2.1	1.7	2.2
2009	1.1	1.0	1.2	1.4	1.3
2010	1.3	1.4	0.9	1.0	1.1
2011	1.1	1.1	0.9	0.9	1.2
2012	1.0	1.0	1.1	1.1	1.2
2013	1.1	1.0	1.3	1.5	1.5
2014	0.7	0.4	1.4	1.3	1.5
2015	0.6	0.4	1.3	1.2	0.6
2016	0.2	-0.1	1.0	0.5	0.6
2017	-0.1	-0.4	0.9	0.5	0.5
Annual growth rate:					
2005 - 2010	1.1	0.8	2.0	1.3	1.6
2010 - 2015	0.9	0.8	1.2	1.2	1.2
1990 - 2000	0.9	0.4	2.1	1.3	2.4
2000 - 2010	1.2	0.9	2.2	1.4	1.9
2010 - 2017	0.7	0.5	1.1	1.0	1.0

1/ Maui County includes Kalawao County.

2/ Population estimates for 2000 through 2009 were revised based upon the April 1, 2010 figures which were released September 28, 2011. Population estimates after April 1, 2010 were based on revisions released in March 2018 and may differ somewhat from earlier figures cited in other tables.

Source: U.S. Bureau of the Census, Federal-State Cooperative Program for Population Estimates, "Table 1. Intercensal Estimates of the Resident Population for Counties of Hawaii: April 1, 2000 to July 1, 2010" (CO-EST00INT-01-15) <<http://www.census.gov/popest/data/intercensal/county/tables/CO-EST00INT-01/CO-EST00INT-01-15.xls>> accessed September 28, 2011 and "Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2017" (PEPANNRES) (released March 22, 2018) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 22, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.08 -- COUNTY POPULATION AS A SHARE OF THE STATE
TOTAL: 2000 TO 2017**

[In percent; based on place of usual residence, regardless of physical location on the estimate or census date. Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
2000: April 1 2/	72.3	12.3	4.8	10.6
July 1 3/	72.2	12.3	4.8	10.6
2001: July 1 3/	72.0	12.4	4.8	10.8
2002: July 1 3/	71.8	12.5	4.8	10.9
2003: July 1 3/	71.5	12.7	4.9	11.0
2004: July 1 3/	71.3	12.8	4.9	11.0
2005: July 1 3/	71.0	13.0	4.9	11.1
2006: July 1 3/	70.8	13.2	4.8	11.1
2007: July 1 3/	70.3	13.5	4.9	11.3
2008: July 1 3/	70.1	13.6	4.9	11.4
2009: July 1 3/	70.0	13.6	4.9	11.4
2010: April 1 2/	70.1	13.6	4.9	11.4
July 1 4/	70.1	13.6	4.9	11.4
2011: July 1 4/	70.1	13.6	4.9	11.4
2012: July 1 4/	70.1	13.6	4.9	11.4
2013: July 1 4/	70.0	13.6	4.9	11.4
2014: July 1 4/	69.8	13.7	5.0	11.5
2015: July 1 4/	69.7	13.8	5.0	11.5
2016: July 1 4/	69.5	13.9	5.0	11.6
2017: July 1	69.3	14.0	5.1	11.7

1/ Maui County includes Kalawao County.

2/ Decennial census figure.

3/ Population estimates for 2000 through 2009 were revised based upon the April 1, 2010 figures which were released September 28, 2011.

4/ Population estimates after April 1, 2010 were based on revisions released in March 2018 and may differ somewhat from earlier figures cited in other tables.

Source: U.S. Bureau of the Census, Federal-State Cooperative Program for Population Estimates, "Table 1. Intercensal Estimates of the Resident Population for Counties of Hawaii: April 1, 2000 to July 1, 2010" (CO-EST00INT-01-15)

<<http://www.census.gov/popest/data/intercensal/county/tables/CO-EST00INT-01/CO-EST00INT-01-15.xls>> accessed September 28, 2011 and "Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2017" (PEPANNRES) (released March 22, 2018)

<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 22, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.09-- DE FACTO POPULATION, BY COUNTY: 2000 TO 2016

[Includes all persons physically present in an area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as an average daily census. Revised figures for July 1, 2010 through July 1, 2016]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
2000: April 1	1,337,991	927,174	167,073	75,200	168,544
July 1	1,336,005	926,192	166,429	74,734	168,650
2001: July 1	1,337,629	926,713	168,131	73,940	168,845
2002: July 1	1,353,051	934,070	171,784	74,895	172,302
2003: July 1	1,358,755	931,880	174,683	76,148	176,044
2004: July 1	1,387,569	949,262	180,107	78,167	180,033
2005: July 1	1,412,500	959,340	188,612	79,561	184,987
2006: July 1	1,430,516	967,400	194,008	80,887	188,221
2007: July 1	1,433,461	963,577	196,723	83,286	189,875
2008: July 1	1,432,620	962,908	198,413	81,968	189,331
2009: July 1	1,442,556	972,202	199,047	82,101	189,206
2010: July 1	1,468,549	987,963	202,690	83,506	194,390
2011: July 1	1,490,284	1,000,688	205,686	85,141	198,769
2012: July 1	1,518,054	1,019,083	209,452	87,183	202,336
2013: July 1	1,541,968	1,032,103	212,809	89,568	207,488
2014: July 1	1,559,029	1,040,269	216,463	90,623	211,674
2015: July 1	1,577,865	1,049,386	220,654	92,635	215,190
2016: July 1	1,583,265	1,049,121	222,717	93,370	218,057

1/ Maui County including Kalawao County. The 2016 de facto population of Kalawao County, which is the Kalaupapa Settlement on Molokai, was 88.

Source: U.S. Census Bureau, Population Division, "Table 1. Intercensal Estimates of the Resident Population for Counties of Hawaii: April 1, 2000 to July 1, 2010" (CO-EST00INT-01-15) (September 28, 2011) <<http://www.census.gov/popest/intercensal/county/CO-EST00INT-01.html>> accessed October 4, 2011; "Table 1. Annual Estimates of the Resident Population for Counties of Hawaii: April 1, 2010 to July 1, 2017" (PEPANNRES) (March 2018) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 22, 2018; Hawaii State Department of Business, Economic Development & Tourism, Tourism Research Branch; Hawaii Tourism Authority, Tourism Research, records; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.10-- RESIDENT AND DE FACTO POPULATION, BY COUNTY AND ISLAND: 1990 AND 2000

County and island	Resident population 1/			De facto population 2/		
	April 1, 1990	April 1, 2000	Percent change	April 1, 1990	April 1, 2000	Percent change
State total	1,108,229	1,211,537	9.3	1,248,360	1,337,991	7.2
County						
Hawaii	120,317	148,677	23.6	135,080	167,073	23.7
Maui 3/	100,504	128,241	27.6	137,298	168,544	22.8
Honolulu	836,231	876,156	4.8	908,019	927,173	2.1
Kauai	51,177	58,463	14.2	67,963	75,200	10.6
Island						
Hawaii	120,317	148,677	23.6	135,080	167,073	23.7
Maui	91,361	117,644	28.8	126,992	156,170	23.0
Kahoolawe	-	-	(X)	-	-	(X)
Lanai	2,426	3,193	31.6	2,629	4,243	61.4
Molokai	6,717	7,404	10.2	7,677	8,131	5.9
Oahu 4/	836,231	876,156	4.8	908,019	927,173	2.1
Kauai	50,947	58,303	14.4	67,737	75,040	10.8
Niihau	230	160	-30.4	226	160	-29.2

X Not applicable.

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area and residents temporarily absent, but excludes visitors present.

2/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence. It includes visitors present but excludes residents temporarily absent, both calculated as an average daily census.

3/ Maui County includes Kalawao County.

4/ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, except Midway (24 people in 1990 who were not counted in the official census and 5 in 2000 who were counted in the official census).

Source: U.S. Bureau of the Census, 1990 Public Law 94-171 counts; U.S. Census Bureau, Census 2000 Redistricting Data (P.L. 94-171) Summary File (March 19, 2001); Hawaii State Department of Business, Economic Development & Tourism, Tourism Research Branch, records.

**Table 1.11-- LAND AREA AND POPULATION DENSITY,
BY COUNTY AND ISLAND: 2010**

County and island	Resident population 1/	Land area		Resident population density	
		Square km.	Square miles 2/	Per square km.	Per square mile
State total	1,360,301	16,634.53	6,422.63	81.8	211.8
County					
Honolulu	953,207	1,555.92	600.74	612.6	1,586.7
Hawaii	185,079	10,433.55	4,028.42	17.7	45.9
Maui 3/	154,924	3,039.38	1,173.51	51.0	132.0
Kauai	67,091	1,605.68	619.96	41.8	108.2
Island					
Oahu	953,207	1,547.88	597.64	615.8	1,594.9
Hawaii	185,079	10,433.55	4,028.42	17.7	45.9
Maui	144,444	1,999.45	771.99	72.2	187.1
Lanai	3,135	365.36	141.07	8.6	22.2
Molokai	7,345	674.58	260.46	10.9	28.2
Kauai	66,921	1,430.59	552.35	46.8	121.2
Niihau	170	175.09	67.60	1.0	2.5
Northwestern Hawaiian Islands 4/	-	8.03	3.10	-	-

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area and residents temporarily absent, but excludes visitors present.

2/ Square kilometers converted to square miles by dividing by 2.589988.

3/ Maui County includes Kalawao County.

4/ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, except Midway.

Source: U.S. Census Bureau, 2010 Census Redistricting Data (Public Law 94-171) Summary File (February 2011); calculations by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

Table 1.12-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1990 TO 2012-2016

[Data for 2012-2016 based on a sample and subject to sampling variability. The figures displayed are the average values over the 5-year period of 2012 to 2016. Earlier data are from the decennial censuses]

County and district (see maps)	April 1, 1990	April 1, 2000	April 1, 2010	2012-2016
State total	1,108,229	1,211,537	1,360,301	1,413,673
Hawaii County	120,317	148,677	185,079	193,680
Puna	20,781	31,335	45,326	45,517
South Hilo	44,639	47,386	50,927	52,487
North Hilo	1,541	1,720	2,041	1,676
Hamakua	5,545	6,108	6,513	7,463
North Kohala	4,291	6,038	6,322	6,441
South Kohala	9,140	13,131	17,627	18,751
North Kona	22,284	28,543	37,875	41,662
South Kona	7,658	8,589	9,997	11,277
Kau	4,438	5,827	8,451	8,406
Maui County 1/	100,504	128,241	154,924	162,547
Hana	1,895	1,855	2,291	1,755
Makawao	29,207	36,476	41,887	43,094
Wailuku	45,685	61,346	78,110	84,378
Lahaina	14,574	17,967	22,156	22,400
Lanai	2,426	3,193	3,135	3,455
Molokai	6,587	7,257	7,255	7,374
Kalawao	130	147	90	91
City & Co. of Honolulu	836,231	876,156	953,207	986,999
Honolulu	377,059	372,279	390,738	401,470
Koolaupoko	117,694	117,994	115,164	117,036
Koolauloa	18,443	18,899	21,406	20,351
Waialua	11,549	14,027	13,046	12,722
Wahiawa	43,886	38,370	41,216	45,913
Waianae	37,411	42,259	48,519	48,302
Ewa	230,189	272,328	323,118	341,205
Kauai County	51,177	58,463	67,091	70,447
Hanalei	4,631	6,348	7,828	6,354
Kawaihau	15,627	18,525	20,992	21,629
Lihue	10,663	12,022	14,683	18,024
Koloa	11,368	12,845	14,086	15,415
Waimea	8,888	8,723	9,502	9,025

1/ Including Kalawao County.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Population and Housing Unit Counts, Hawaii*, 1990 CPH-2-13; U.S. Census Bureau, Census 2000 and 2010 Redistricting Data (Public Law 94-171) Summary File, and the 2012-2016 American Community Survey 5-Year Estimates <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed February 16, 2018.

**Table 1.13-- RESIDENT POPULATION OF ISLANDS AND
CENSUS DESIGNATED PLACES: 2012-2016**

[This table presents data for the 151 "census designated places" defined by the Hawaii State Department of Business, Economic Development & Tourism, in cooperation with the U.S. Census Bureau and the county planning departments, for the 2010 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate government and taxing powers; the boundaries determined for these places are statistical rather than political. Census designated places do not cover all land areas with populations so the island totals displayed are not the sum of only their census designated places. Based on a sample and subject to sampling variability. Figures displayed are the average values over the 5-year period of 2012 to 2016]

Island and 2010 place	Resident population	Households	Island and 2010 place	Resident population	Households
Hawaii	193,680	66,094	Hawaii (con.)		
Ainaloa	3,102	1,089	Nanawale Estates	1,590	526
Captain Cook	4,378	1,261	Orchidlands Estates	3,221	1,034
Discovery Harbour	1,128	417	Paaui	676	197
Eden Roc	599	252	Pahala	1,341	387
Fern Acres	1,392	532	Pahoa	731	266
Fern Forest	669	306	Papaikou	1,198	413
Halaula	632	148	Paukaa	511	220
Hawaiian Acres	2,603	898	Pepeekeo	1,614	546
Hawaiian Beaches	5,035	1,551	Puako	795	364
Hawaiian Ocean View	4,477	1,599	Volcano	2,511	1,177
Hawaiian Paradise Park	11,787	4,106	Waikoloa Village	6,292	2,382
Hawi	1,315	393	Waimea	10,770	3,086
Hilo	45,579	15,822	Wainaku	1,293	463
Holualoa	9,439	3,220	Waiohinu	168	64
Honalo	2,290	763			
Honaunau-Napoopoo	2,759	845	Maui	151,627	50,183
Honokaa	2,238	666	Haiku-Pauwela	7,564	2,788
Honomu	443	181	Haliimaile	1,082	349
Kahaluu-Keauhou	3,381	1,347	Hana	1,121	326
Kailua	13,617	4,369	Kaanapali	1,068	509
Kalaoa	11,198	3,903	Kahului	30,164	7,404
Kapaau	1,935	543	Kapalua	310	145
Keaau	2,672	725	Keokea	2,021	634
Kealahou	1,966	721	Kihei	21,964	8,192
Kukuihaele	318	81	Kula	7,326	2,947
Kurtistown	1,168	412	Lahaina	12,675	3,474
Laupahoehoe	563	173	Launiupoko	463	188
Leilani Estates	1,629	798	Maalaea	339	217
Mountain View	3,684	1,356	Mahinahina	902	375
Naalehu	1,062	254	Makawao	6,362	2,304

Continued on next page.

**Table 1.13-- RESIDENT POPULATION OF ISLANDS AND
CENSUS DESIGNATED PLACES: 2012-2016 -- Con.**

Island and 2010 place	Resident population	Households	Island and 2010 place	Resident population	Households
Maui (con.)			Oahu (con.)		
Makena	120	53	Kalaeloa	8	1
Napili-Honokowai	6,856	2,768	Kaneohe	35,065	10,775
Olinda	1,098	445	Kaneohe Station	11,072	2,527
Olowalu	109	52	Kapolei	19,206	5,155
Paia	2,548	741	Kawela Bay	274	123
Pukalani	8,332	2,829	Ko Olina	1,691	759
Waihee-Waiehu	9,177	2,440	Laie	5,782	919
Waikapu	3,266	924	Maili	8,943	2,341
Wailea	5,833	2,613	Makaha	8,934	2,330
Wailuku	16,179	5,870	Makaha Valley	1,631	497
			Makakilo	20,353	5,679
Lanai	3,455	1,261	Maunawili	2,124	685
Lanai City	3,446	1,255	Mililani Mauka	20,322	7,037
Manele	9	6	Mililani Town	28,460	8,902
			Mokuleia	1,730	734
Molokai	7,465	2,514	Nanakuli	12,042	2,600
Kaunakakai	3,729	1,269	Ocean Pointe	12,274	3,664
Kualapuu	2,072	596	Pearl City	47,241	13,984
Maunaloa	459	126	Punaluu	1,122	385
Ualapue	426	149	Pupukea	4,998	1,553
			Royal Kunia	14,424	3,932
Oahu	986,999	309,548	Schofield Barracks	20,330	4,235
Ahuimanu	8,312	2,744	Urban Honolulu	349,597	127,595
Aiea	9,594	2,628	Wahiawa	17,696	5,678
East Honolulu	47,957	16,840	Waialua	3,769	1,115
Ewa Beach	15,165	3,081	Waianae	13,426	3,026
Ewa Gentry	23,168	7,019	Waikane	621	168
Ewa Villages	7,568	1,677	Waikele	7,648	2,801
Halawa	14,455	4,083	Waimalu	13,478	5,424
Haleiwa	3,392	1,065	Waimanalo	6,296	1,402
Haula	3,578	885	Waimanalo Beach	4,227	976
Heeia	4,536	1,502	Waipahu	41,590	8,307
Hickam Housing	8,954	2,477	Waipio	11,554	3,897
Iroquois Point	3,967	1,147	Waipio Acres	5,169	1,815
Kaaawa	1,124	416	West Loch Estate	5,183	1,495
Kahaluu	5,009	1,250	Wheeler AFB	2,598	860
Kahuku	2,486	537	Whitmore Village	4,570	1,059
Kailua	38,514	12,766			

Continued on next page.

**Table 1.13-- RESIDENT POPULATION OF ISLANDS AND
CENSUS DESIGNATED PLACES: 2012-2016 -- Con.**

Island and 2010 place	Resident population	Households	Island and 2010 place	Resident population	Households
Kauai	70,447	22,430	Kauai (con.)		
Anahola	1,902	569	Lawai	2,152	848
Eleele	2,739	766	Lihue	7,196	2,359
Haena	215	105	Omao	1,289	440
Hanalei	170	82	Pakala Village	356	113
Hanamaulu	5,039	1,115	Poipu	1,057	490
Hanapepe	2,687	833	Princeville	2,078	815
Kalaheo	5,099	1,626	Puhi	3,942	989
Kalihiwai	303	111	Wailua	2,656	948
Kapaa	10,753	3,648	Wailua Homesteads	5,987	2,042
Kaunakani	908	212	Waimea	1,804	638
Kekaha	3,095	999	Wainiha	172	53
Kilauea	2,644	837			
Koloa	2,800	804	Niihau	(1/)	(1/)

1/ In the source 2012-2016 estimate table, the population was shown as zero. There was, however, actually no response for the people surveyed on that island.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, Tables B01003 and B11001 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed February 16, 2018.

**Table 1.14-- POPULATION AND PERCENTAGE CHANGE
RANKINGS: 2010 AND 2017**

[Based on population as of July 1 unless otherwise specified]

Comparison 1/	Resident population, 2017	Ranking		
		Population 2/		Percent change, 2010-2017 3/
		2010	2017	
State of Hawaii				
Among the 50 States and D.C.	1,427,538	40	40	23
Among the 50 States	1,427,538	40	40	22
Urban Honolulu MSA 4/				
Among all MSAs 5/	988,650	54	56	208
Kahului-Wailuku-Lahaina MSA 6/				
Among all MSAs 5/	166,348	257	254	110
City and County of Honolulu 7/				
Among all counties	988,650	43	48	795
Among all incorporated places 8/	988,650	10	11	457
Urban Honolulu CDP 9/				
Among incorporated places 8/	350,395	53	56	452
Hawaii County 10/	200,381	334	332	365
Kalawao County 10/	88	11/ 3,141	11/ 3,142	2,046
Kauai County 10/	72,159	782	754	405
Maui County 10/	166,260	402	390	419
Hilo Micropolitan 12/	200,381	3	2	27
Kapaa Micropolitan 12/	72,159	110	96	32

Continued on next page.

**Table 1.14-- POPULATION AND PERCENTAGE CHANGE
RANKINGS: 2010 AND 2017 -- Con.**

1/ MSA, Metropolitan Statistical Area; CDP, Census Designated Place, that is, an unincorporated urban place.

2/ Largest number ranking 1. Rankings for 2010 are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions.

3/ Ranking of the area in regard to 2010-2017 population percent change, greatest percent change ranking 1.

4/ The Urban Honolulu MSA consists of the City and County of Honolulu, comprising Oahu and the Northwestern Hawaiian Islands (except Midway). It was previously known as Honolulu MSA.

5/ Metropolitan Statistical Areas (MSAs) contains a core urban area of 50,000 or more population. There were 382 metropolitan statistical areas in 2017.

6/ The Kahului-Wailuku-Lahaina MSA consists of Maui County and Kalawao County.

7/ The City and County of Honolulu consists of Oahu and the Northwestern Hawaiian Islands (except Midway). There were 3,142 U.S. counties in 2017.

8/ Among all 769 incorporated places with a population of 50,000 or more during the 2010 to 2017 period.

9/ The Honolulu CDP used to consist of Honolulu District, comprising the area between Red Hill and Makapuu Point, south and southwest of the crest of the Koolau Mountains, and the Northwestern Hawaiian Islands (except Midway). In 2010, this CDP was split into three separate CDPs - Urban Honolulu, East Honolulu, and Hickam Housing (a portion of the new CDP).

10/ Among all 3,142 U.S. counties.

11/ In 2010, Kalawao County had the second lowest county population in the United States. The county with the lowest population was Loving, Texas with a population of 82. In 2017, Kalawao County had the lowest county population in the United States.

12/ Micropolitan statistical areas contains an urban core of at least 10,000 (but less than 50,000) population. Hilo Micropolitan consists of Hawaii County and Kapaa Micropolitan consists of Kauai County. There were 551 micropolitan statistical areas in 2017.

Source: U.S. Census Bureau, Population Division <<http://www.census.gov/popest/data/index.html>> and <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed through May 24, 2018.

2000 NEIGHBORHOOD AREAS

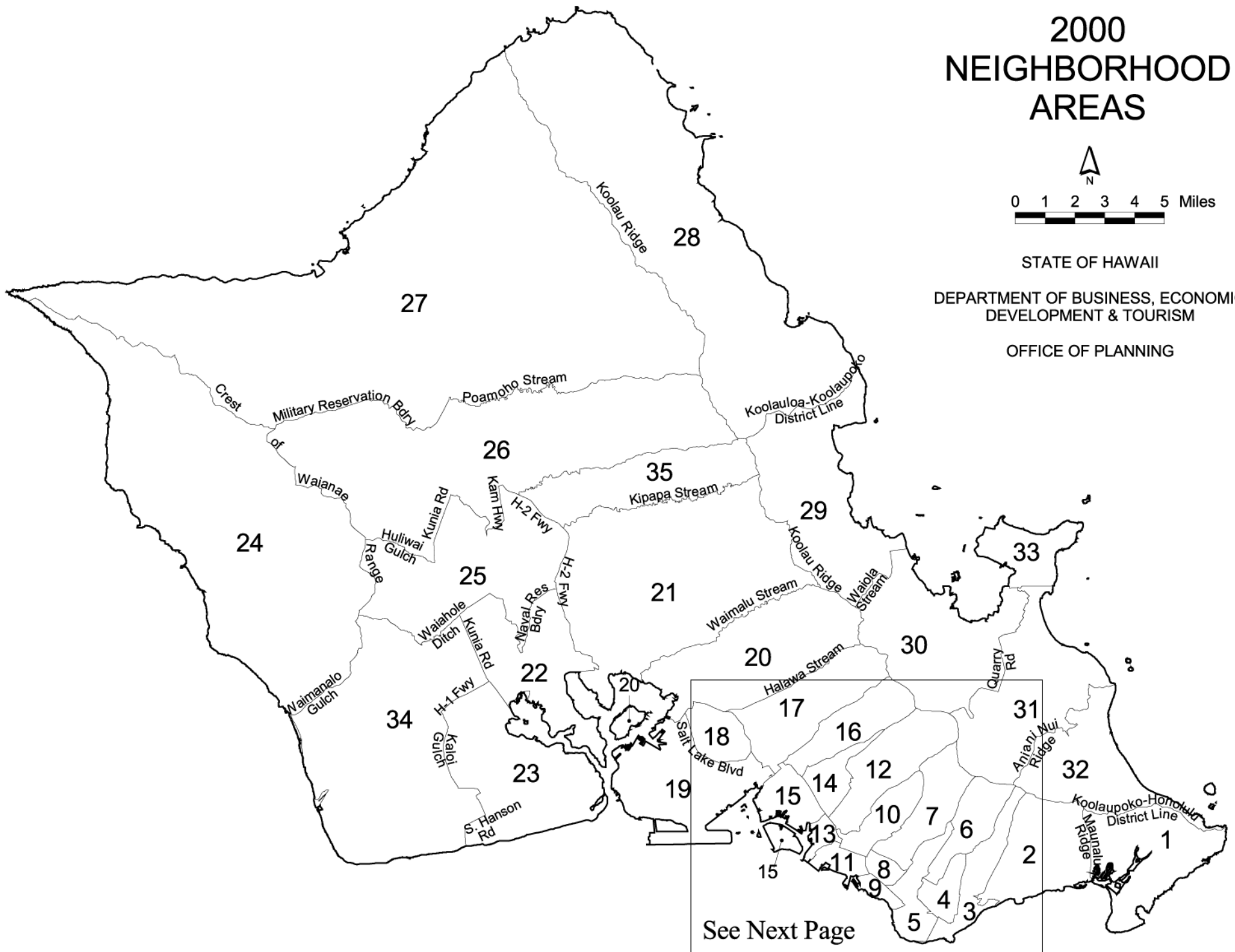


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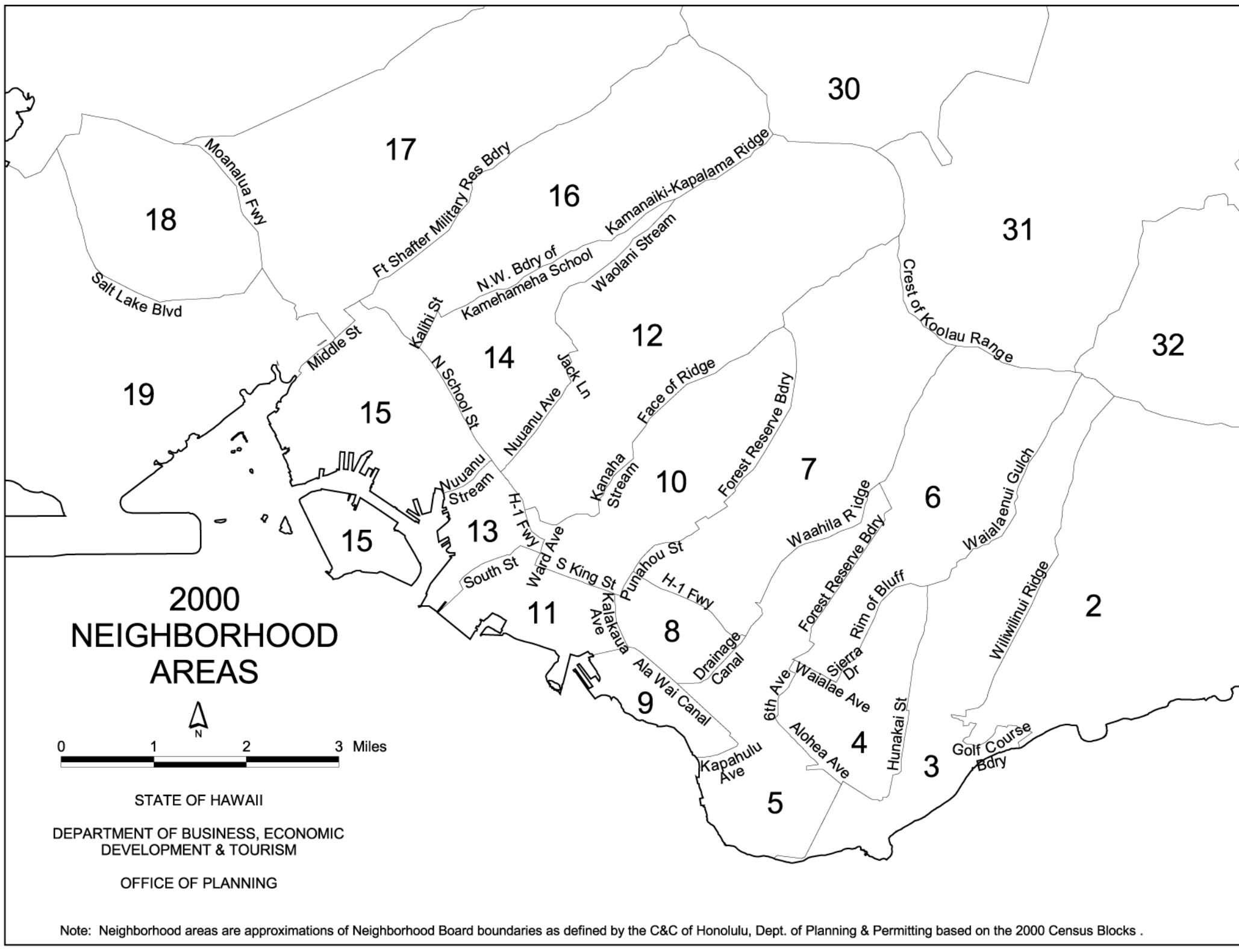
STATE OF HAWAII

DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM

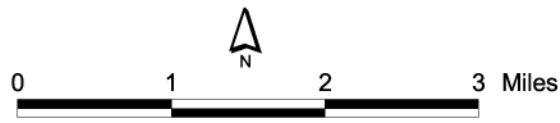
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Note: Neighborhood areas are approximations of Neighborhood Board boundaries as defined by the C&C of Honolulu, Dept. of Planning & Permitting based on the 2000 Census Blocks .



**2000
NEIGHBORHOOD
AREAS**



STATE OF HAWAII

DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM

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Note: Neighborhood areas are approximations of Neighborhood Board boundaries as defined by the C&C of Honolulu, Dept. of Planning & Permitting based on the 2000 Census Blocks .

**Table 1.15-- RESIDENT POPULATION FOR OAHU NEIGHBORHOODS:
2000 AND 2010**

Neighborhood area 1/ (see maps)	2000 2/	2010 3/	Percent change
Oahu total	876,156	911,841	4.1
1 Hawaii Kai	27,657	29,814	7.8
2 Kuliouou-Kalani Iki	16,105	15,786	-2.0
3 Waialae-Kahala	9,497	9,854	3.8
4 Kaimuki	18,996	18,491	-2.7
5 Diamond Head/Kapahulu/St. Louis Heights	18,138	17,598	-3.0
6 Palolo	12,331	12,039	-2.4
7 Manoa	21,625	21,114	-2.4
8 McCully/Moiliili	26,122	25,734	-1.5
9 Waikiki	19,720	20,095	1.9
10 Makiki/Lower Punchbowl/Tantalus	29,713	29,733	0.1
11 Ala Moana/Kakaako	14,186	19,014	34.0
12 Nuuanu/Punchbowl	16,693	16,303	-2.3
13 Downtown	14,570	15,620	7.2
14 Liliha/Kapalama	20,310	19,766	-2.7
15 Kalihi-Palama	37,987	38,113	0.3
16 Kalihi Valley	17,937	17,412	-2.9
17 Moanalua	10,566	10,245	-3.0
18 Aliamanu/Salt Lake/Foster Village	36,572	35,969	-1.6
19 Airport Area	21,246	20,626	-2.9
20 Aiea	29,320	29,104	-0.7
21 Pearl City	49,345	47,879	-3.0
22 Waipahu	59,284	61,879	4.4
23 Ewa	43,794	59,877	36.7
24 Waianae Coast	41,242	43,420	5.3
25 Mililani/Waipio/Melemanu	36,805	37,419	1.7
26 Wahiawa	38,929	38,690	-0.6
27 North Shore	18,380	17,724	-3.6
28 Koolauloa	14,546	14,156	-2.7
29 Kahaluu	14,391	13,891	-3.5
30 Kaneohe	34,829	33,788	-3.0
31 Kailua	45,718	43,876	-4.0
32 Waimanalo	11,234	11,141	-0.8
33 Mokapu	11,827	11,513	-2.7
34 Makakilo/Kapolei/Honokai Hale	25,919	35,697	37.7
35 Mililani Mauka-Launani Valley	10,622	18,461	73.8

1/ Data in this table pertain to neighborhood areas whose boundaries are very close but do not match exactly to the neighborhood board boundaries. Neighborhood Board numbers are displayed next to the Neighborhood Board names.

2/ As of April 1, 2000. Year 2000 census data aggregated by traffic zone data. This may differ from data aggregated by census blocks which are shown in Table 1.16.

3/ As of June 30. Estimated population based on traffic zone data.

Source: City and County of Honolulu Planning and Permitting Department, Planning Division, records.

**Table 1.16-- POPULATION CHARACTERISTICS OF OAHU
NEIGHBORHOODS: 2000**

Neighborhood area (see maps) 1/	Resident popula- tion 2/	Median age	House- holds	Average household size	Average family size
Oahu total	876,156	35.7	286,450	2.95	3.46
1 Hawaii Kai	27,657	42.1	9,666	2.86	3.21
2 Kuliouou-Kalani Iki	16,220	44.7	5,466	2.95	3.31
3 Waiialae-Kahala	9,382	46.8	3,538	2.65	3.09
4 Kaimuki	18,063	45.4	6,362	2.78	3.34
5 Diamond Head/Kapahulu/ St. Louis Heights	19,541	42.7	7,858	2.44	3.18
6 Palolo	12,474	41.6	4,141	2.99	3.54
7 Manoa	21,184	39.3	7,051	2.59	3.13
8 McCully/Moiliili	26,122	38.9	12,670	2.04	2.92
9 Waikiki	19,720	42.2	11,397	1.72	2.59
10 Makiki/Lower Punchbowl/ Tantalus	29,639	41.1	14,767	1.97	2.84
11 Ala Moana/Kakaako	14,186	42.9	7,797	1.78	2.65
12 Nuuanu/Punchbowl	17,000	43.3	6,411	2.61	3.31
13 Downtown	14,570	40.9	6,817	1.87	2.78
14 Liliha/Kapalama	19,905	44.4	6,495	2.93	3.58
15 Kalihi-Palama	37,987	36.3	10,258	3.57	4.34
16 Kalihi Valley	17,937	36.5	3,941	4.42	4.93
17 Moanalua	10,566	36.1	3,219	3.08	3.36
18 Aliamanu/Salt Lake/ Foster Village	36,572	33.4	11,732	3.09	3.67
19 Airport	18,163	25.7	5,001	3.32	3.37
20 Aiea	32,403	37.4	10,580	2.89	3.52
21 Pearl City	46,777	37.9	14,010	3.14	3.53
22 Waipahu	64,030	34.1	17,473	3.58	4.10
23 Ewa	43,571	31.2	11,710	3.69	4.13
24 Waianae Coast	42,266	28.5	10,536	3.97	4.47
25 Mililani/Waipio/Melemanu	33,981	35.5	10,861	3.13	3.49
26 Wahiawa	39,553	26.2	10,603	3.30	3.68
27 North Shore	18,380	31.3	5,893	3.05	3.60
28 Koolauloa	14,546	27.6	3,682	3.75	4.40
29 Kahaluu	14,391	36.3	4,384	3.28	3.67
30 Kaneohe	40,790	38.5	12,800	3.14	3.57
31 Kailua	40,830	39.3	13,484	3.00	3.46
32 Waimanalo	10,161	32.4	2,442	4.07	4.53
33 Mokapu	11,827	22.0	2,332	3.21	3.25
34 Makakilo/Kapolei/ Honokai Hale	25,140	31.2	7,221	3.47	3.81
35 Mililani Mauka-Launani Valley	10,622	32.8	3,852	2.76	3.23

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**Table 1.16-- POPULATION CHARACTERISTICS OF OAHU
NEIGHBORHOODS: 2000 -- Con.**

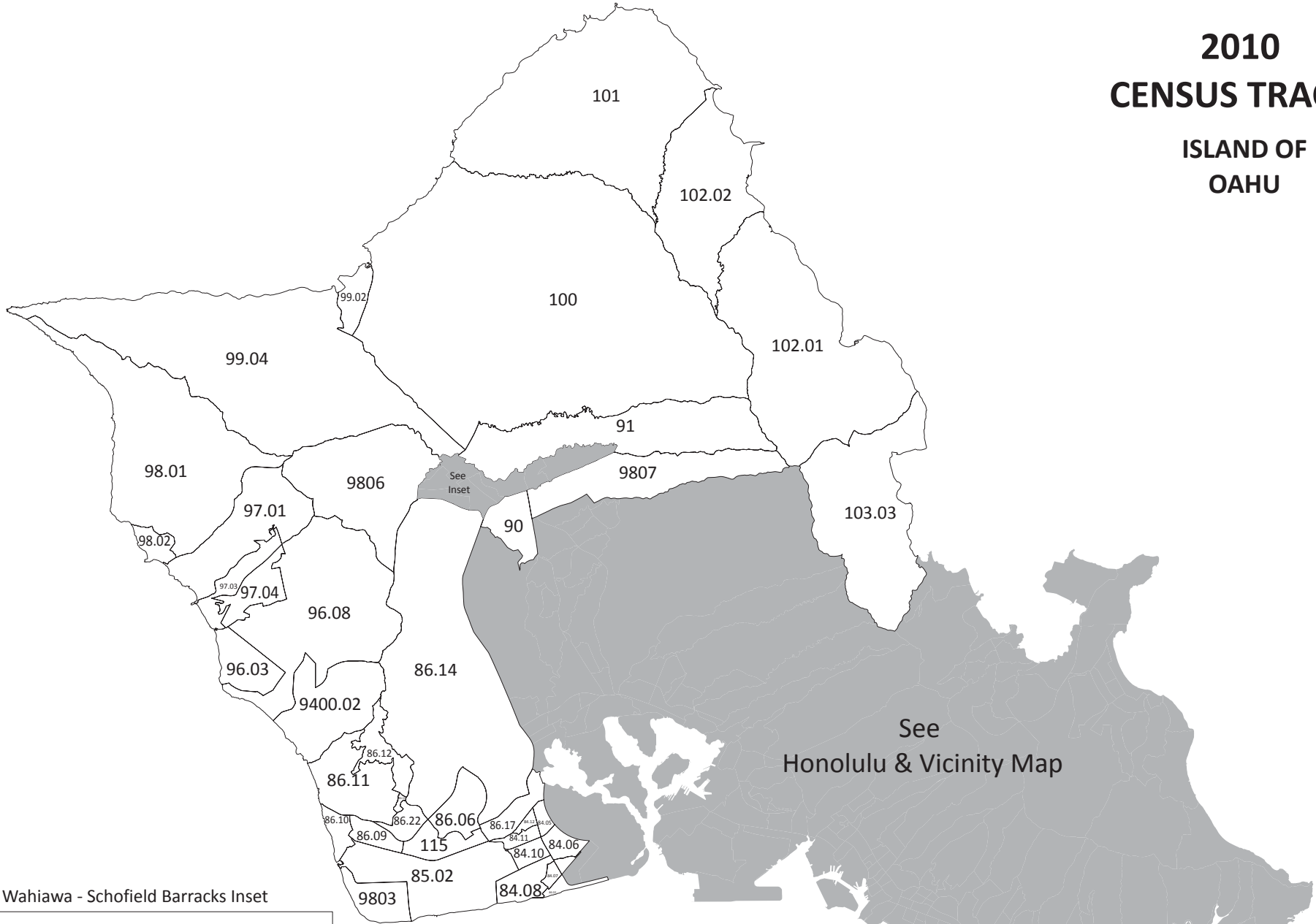
1/ Data in this table pertain to neighborhood areas whose boundaries are very close but do not match exactly to the neighborhood board boundaries. Neighborhood area boundaries for 2000 may not be the same as boundaries for 1990.

2/ Year 2000 census data aggregated by census blocks. This may differ from data aggregated by traffic zones which are shown in Table 1.15.

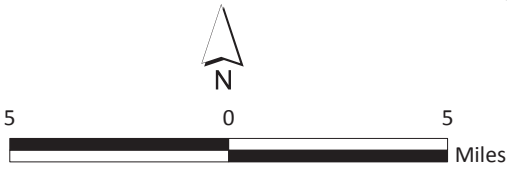
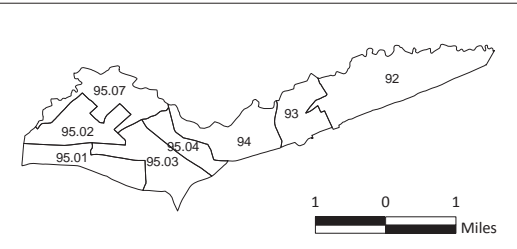
Source: City and County of Honolulu Planning and Permitting Department, Planning Division, Community Profiles for Neighborhood Areas

<<http://honoluluodpp.org/planning/demographics2/2000/NA/general.pdf>> accessed July 3, 2007.

2010 CENSUS TRACTS ISLAND OF OAHU

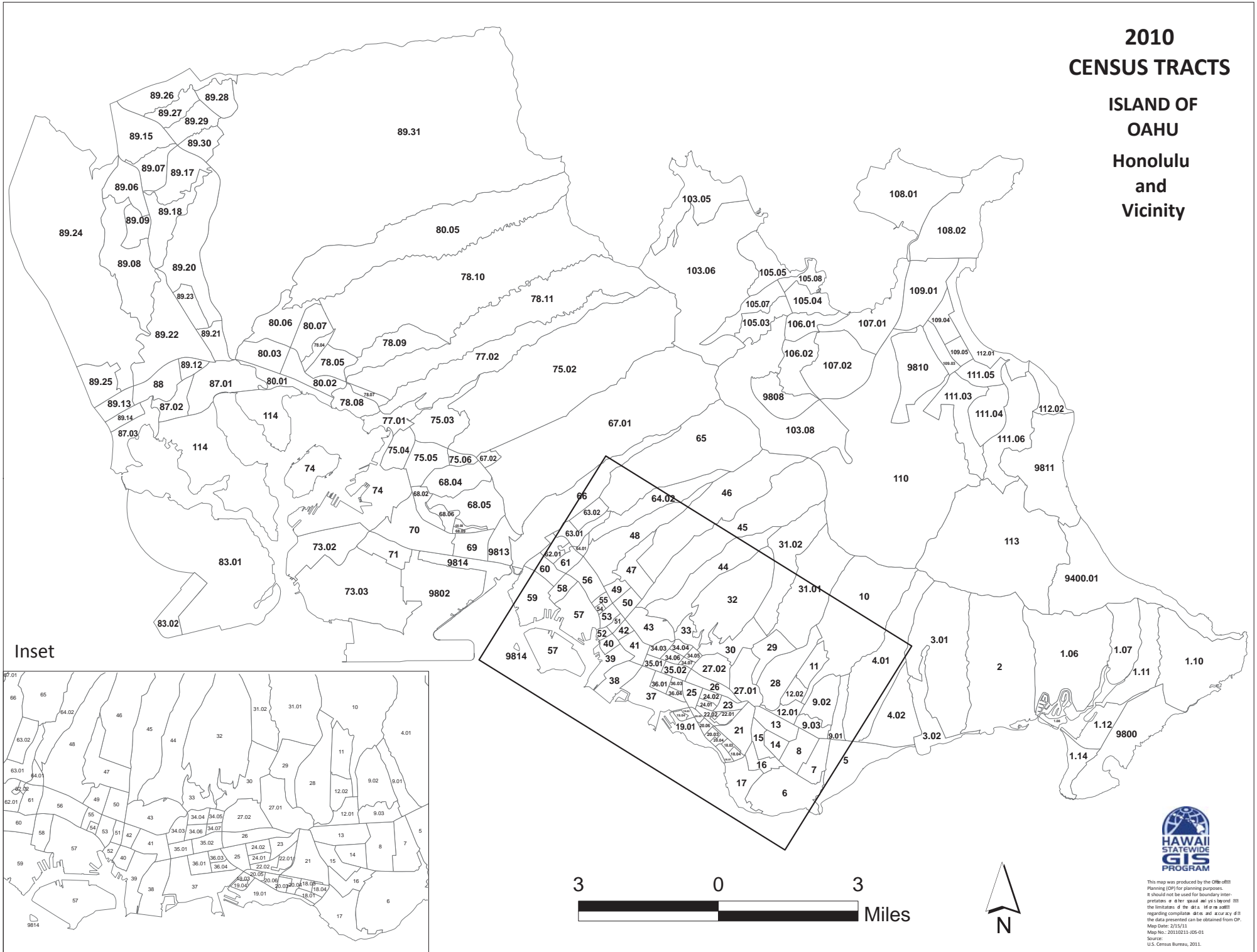


Wahiawa - Schofield Barracks Inset

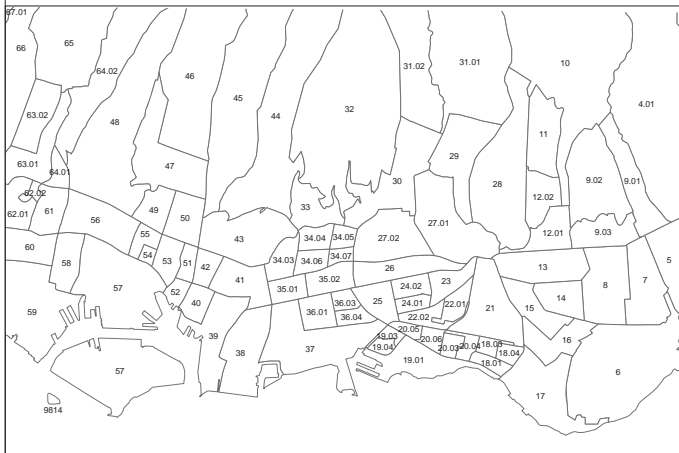


2010 CENSUS TRACTS

ISLAND OF OAHU Honolulu and Vicinity



Inset

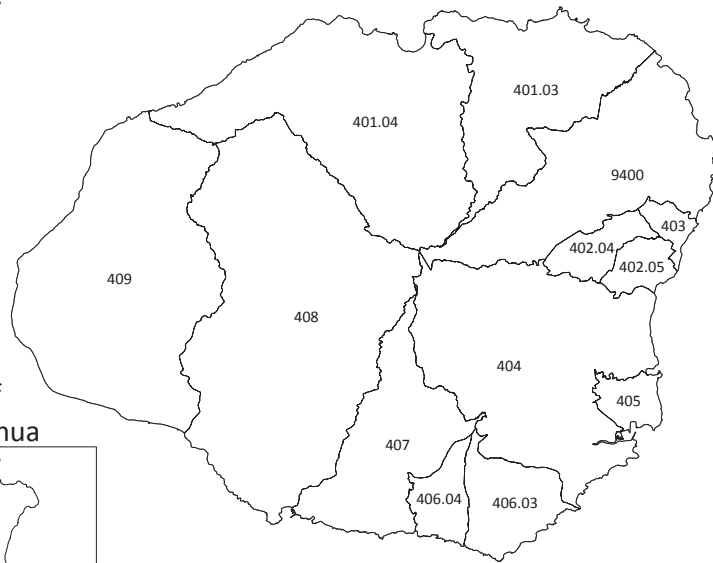


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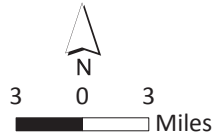


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Map Date: 2/15/11
Map No.: 20110211-05-01
Source:
U.S. Census Bureau, 2011.

Island of Kauai

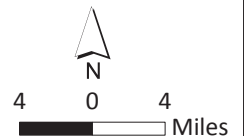
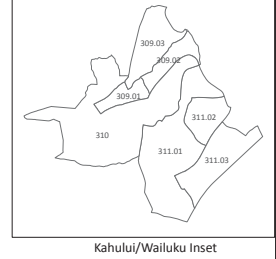
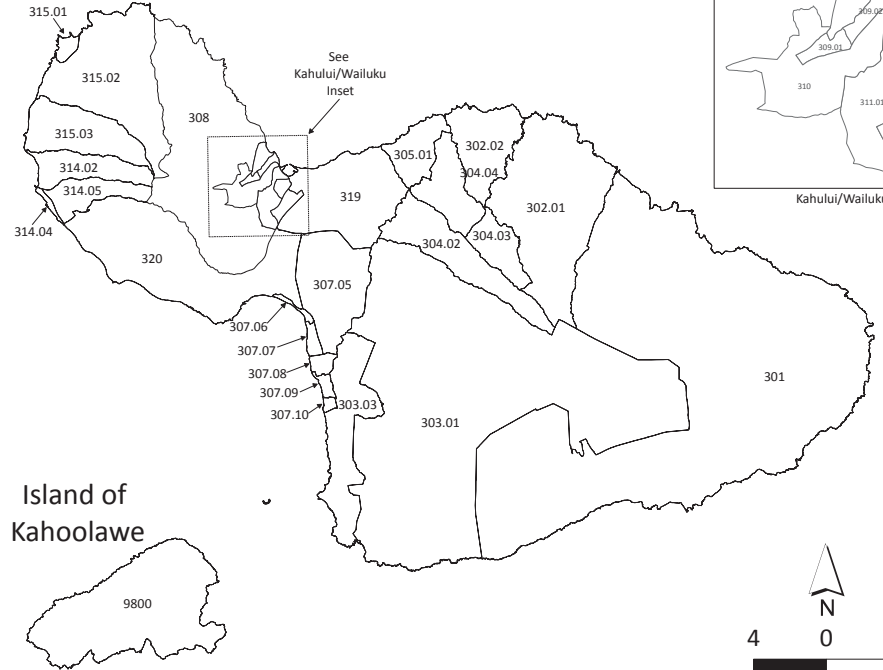


Islands of Niihau & Lehua



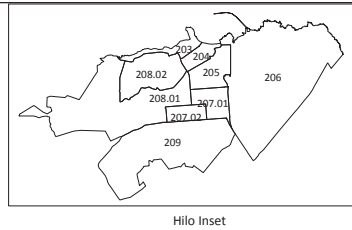
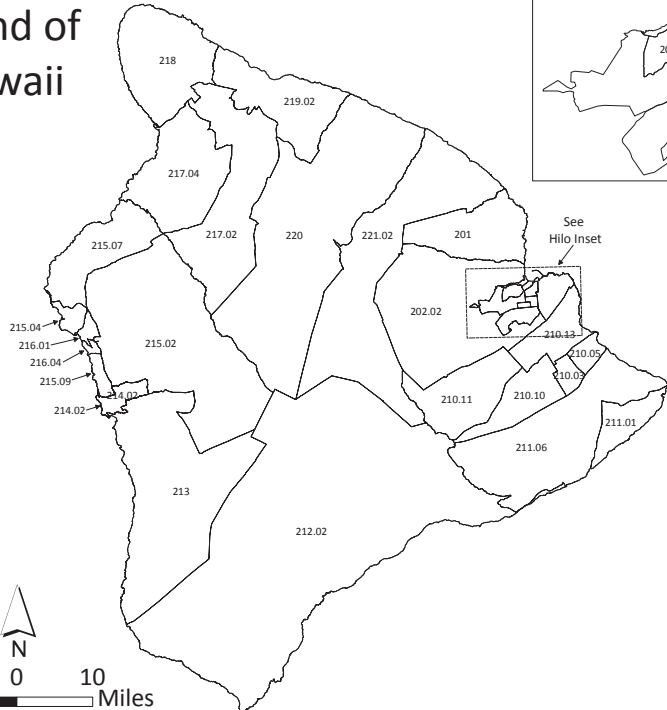
Note: Census Tract 412 includes the island of Kaula (not shown).

Island of Maui

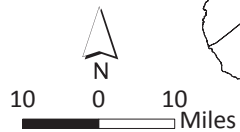


Island of Kahoolawe

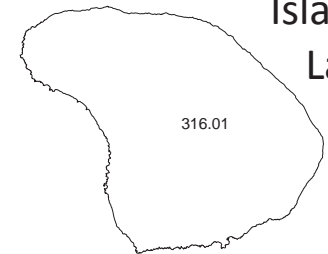
Island of Hawaii



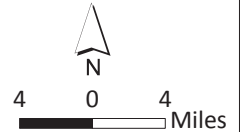
See Hilo Inset



Island of Molokai



Island of Lanai



2010 Census Tracts Counties of Kauai, Maui & Hawaii

This map was produced by the Office of Planning (OP) for planning purposes. It should not be used for boundary interpretations or other spatial analysis beyond the limitations of the data. Information regarding compilation dates and accuracy of the data presented can be obtained from OP.
Map Date: 2/15/11
Map No.: 20110211-05-03
Source: U.S. Census Bureau, 2011.



**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016**

[Based on a sample and subject to sampling variability. Figures displayed are the average values over the 5-year period of 2012 to 2016]

Island and 2010 census tract	Name	Resident population	Households
State total		1,413,673	452,030
Oahu		986,999	309,548
1.06	Hahaione-Mariners Ridge	7,997	3,137
1.07	Kuapa Isle	2,788	907
1.08	Hawaii Kai Marina	2,997	1,216
1.10	Kalama Valley	4,316	1,418
1.11	Lunalilo Park Subdivision	4,660	1,460
1.12	Koko Marina	4,996	1,900
1.14	Portlock	1,397	479
2	Kuliouou	5,563	1,750
3.01	Aina Haina-Hawaii Loa Ridge	2,978	1,000
3.02	Wailupe	3,239	1,000
4.01	Waialae Nui Ridge-Ainakoa	2,613	991
4.02	Waialae Iki	3,694	1,290
5	Waialae-Kahala	3,747	1,348
6	Diamond Head	1,370	476
7	Kaimuki: 22nd Avenue	3,016	966
8	Kaimuki: Kapiolani Community College	3,719	1,197
9.01	Waialae Nui Valley	2,753	1,270
9.02	Maunalani Heights	4,022	1,356
9.03	Lower Wilhelmina	2,756	980
10	Upper Palolo	3,359	1,010
11	Central Palolo	3,764	1,144
12.01	Waialae Avenue-Pukele Avenue	3,015	969
12.02	Lower Palolo	3,032	953
13	Kaimuki: 6th Avenue	4,562	1,580
14	Kapaolono Field	2,720	882
15	Upper Kapahulu	3,451	1,144
16	Lower Kapahulu	3,817	1,265
17	Kapiolani Park	1,871	1,051
18.01	Koa Avenue	1,240	725
18.03	Tusitala Street	2,908	1,700
18.04	Jefferson School	1,541	807
19.01	Waikiki Beach	278	205
19.03	Ena Road	3,086	1,753
19.04	Hobron Lane	2,986	1,766
20.03	Seaside Avenue	2,444	990

Continued on next page.

**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016 -- Con.**

Island and 2010 census tract	Name	Resident population	Households
Oahu (con.)			
20.04	International Market Place	1,286	758
20.05	Ala Wai-Niu Street	1,822	1,136
20.06	Ala Wai-Olohana Street	1,774	1,017
21	Olokele Avenue	3,696	1,694
22.01	Kamoku Street-Iolani School	3,491	1,702
22.02	Ala Wai Park-Lauiki Street	3,332	1,595
23	Moilili	5,194	2,475
24.01	Lower McCully	3,396	1,451
24.02	Upper McCully	3,242	1,548
25	Lower Pawaa	4,312	2,070
26	Bingham Tract	4,154	1,787
27.01	UH Manoa Campus	5,278	584
27.02	Punahou School	5,121	2,037
28	St. Louis Heights	3,648	1,384
29	East Manoa	2,380	893
30	Judd Hillside-Lowrey Avenue	4,940	1,502
31.01	Woodlawn	4,108	1,324
31.02	Upper Manoa	3,438	1,145
32	Round Top-Tantalus	816	304
33	Makiki Heights	1,233	395
34.03	Thurston Street	5,551	2,898
34.04	Makiki Fire Station	4,739	2,275
34.05	Poki Street	3,343	1,847
34.06	Lower Makiki	6,026	2,782
34.07	Maryknoll School	871	500
35.01	Academy of Arts	2,339	1,258
35.02	Upper Pawaa	3,546	2,041
36.01	Sheridan Street	3,706	1,755
36.03	Ahana Street	3,010	1,671
36.04	Kaheka Street-Makaloa Street	2,164	1,259
37	Ala Moana	6,357	3,084
38	Kakaako	4,403	2,268
39	Civic Center	286	229
40	Financial District	1,144	664
41	Queen's Hospital	4,136	2,189
42	Queen Emma Gardens	3,453	1,861
43	Punchbowl	5,348	2,291
44	Pauoa	5,855	1,538
45	Dowsett Highlands	5,214	2,160
46	Puunui-Waokanaka Street	3,849	1,198

Continued on next page.

**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016 -- Con.**

Island and 2010 census tract	Name	Resident population	Households
Oahu (con.)			
47	Alewa-Kawananakoa	4,999	1,448
48	Kamehameha Heights	7,125	1,653
49	Lanakila	3,135	891
50	Kuakini	4,775	1,597
51	Foster Botanical Garden	3,287	1,614
52	Chinatown	2,860	1,386
53	Aala	3,954	1,558
54	Mayor Wright Housing	1,669	427
55	Palama	2,091	595
56	Kapalama	7,428	1,859
57	Iwilei-Anuenue	2,420	858
58	Waiakamilo Road	3,290	997
59	Mokauea Street	4,124	630
60	Umi Street	6,542	1,289
61	Kalihi Waena	4,431	814
62.01	Kam IV Road	6,433	1,548
62.02	Linapuni Street	1,731	370
63.01	Kalihi Valley Park	3,966	843
63.02	Kalena Drive	3,017	616
64.01	Gulick Avenue-Likelike	2,431	445
64.02	Kamanaiki Street	7,775	1,479
65	Upper Kalihi Valley	4,472	1,050
66	Kahauiki Street	603	114
67.01	Tripler-Moanalua	6,369	1,883
67.02	Red Hill	2,545	1,087
68.02	Aliamanu	8,545	1,651
68.04	Aliamanu Crater	4,967	1,308
68.05	Salt Lake Country Club	6,195	2,509
68.06	Ala Lilikoi	1,919	578
68.08	Ala Ilima Mauka	5,127	2,042
68.09	Ala Ilima Makai	5,472	2,003
69	Arizona Road	4,041	1,107
70	Navy Marine Golf Course	4,313	1,528
71	Nimitz Elementary School	3,494	908
73.02	Hangar Avenue-Vickers Avenue	5,038	1,569
73.03	Hickam Air Force Base	422	-
74	Ford Island	4,908	785
75.02	Halawa Valley	793	7
75.03	Halawa Heights	4,958	1,510
75.04	Aloha Stadium	3,400	845
75.05	Foster Village	5,938	1,721

Continued on next page.

**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016 -- Con.**

Island and 2010 census tract	Name	Resident population	Households
Oahu (con.)			
75.06	Red Hill Military Housing	416	115
77.01	Lower Aiea	4,526	1,133
77.02	Aiea Heights	5,068	1,495
78.04	Lower Pearl City	2,255	594
78.05	Waiau Townhouses	4,928	1,644
78.07	Pearl Ridge High Rise	5,144	2,635
78.08	Pearlridge Center	3,611	1,087
78.09	Newtown	3,494	1,125
78.10	Royal Summit	5,470	1,877
78.11	Pearl Country Club	4,723	1,702
80.01	Hale Mohalu Hospital	2,058	674
80.02	Lower Waiau	2,863	766
80.03	Manana	4,832	1,660
80.05	Pacific Palisades	6,606	1,950
80.06	Pearl City	4,801	1,410
80.07	Pearl City Highlands	6,256	1,598
83.01	Iroquois Point	5,142	1,431
83.02	Campbell High School	7,140	1,282
84.02	Ewa Beach	8,025	1,799
84.05	Holomua School	4,162	1,144
84.06	Hawaii Prince Golf Course	6,594	1,704
84.07	Ocean Pointe	3,851	1,117
84.08	Hoakalei Country Club	7,289	2,179
84.10	Coral Creek Golf Course	4,091	1,202
84.11	Geiger Road	3,355	1,110
84.12	Ewa Gentry	6,100	2,227
85.02	Kalaeloa	2,969	623
86.06	Kapolei Golf Course	11,200	2,959
86.09	Ko Olina-Honokai Hale	1,985	595
86.10	Ko Olina Resort	1,015	467
86.11	Kahe	60	23
86.12	Upper Makakilo	6,244	1,928
86.13	Makakilo: Wainohia Street	1,085	227
86.14	Kunia West	9,408	2,721
86.17	Ewa Villages	10,681	2,627
86.22	Lower Makakilo	4,439	1,020
87.01	Leeward Community College	8,917	1,701
87.02	St. Joseph School	6,127	1,634
87.03	West Loch	7,324	1,639
88	Managers Drive	9,252	1,587
89.06	Mililani Golf Course	4,071	1,291

Continued on next page.

**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016 -- Con.**

Island and 2010 census tract	Name	Resident population	Households
Oahu (con.)			
89.07	Mililani High School	4,186	1,239
89.08	Mililani Marketplace	6,042	1,814
89.09	Mililani District Park	4,058	1,291
89.12	August Ahrens School	2,696	458
89.13	Robinson Heights	4,475	801
89.14	Honowai School	5,420	1,176
89.15	Waipio Acres	5,169	1,815
89.17	Mililani Town Center	4,501	1,501
89.18	Mililani: Nob Hill	5,602	1,766
89.20	Waipio Gentry	4,524	1,569
89.21	Waipio	2,562	585
89.22	Waikele	7,648	2,801
89.23	Seaview	4,572	1,770
89.24	Royal Kunia	7,302	2,017
89.25	Village Park	7,122	1,915
89.26	Laulani Valley-Mililani Technology Park	1,492	624
89.27	Koolani Drive	5,288	1,734
89.28	Mililani Mauka Middle School	3,965	1,143
89.29	Mililani Mauka-Meheula Parkway	4,323	1,921
89.30	Mililani: Ainamakua Drive	2,280	800
89.31	Waiawa	3,453	819
90	Wheeler-East Range	2,598	860
91	Kaukonahua Road	5,284	1,183
92	Wahiawa Mauka	7,575	2,404
93	Wahiawa Waena	4,794	1,558
94	Wahiawa Makai	5,332	1,716
95.01	Kolekole Avenue	6,235	1,494
95.02	Menoher Street	4,972	1,259
95.03	Foote Avenue	3,952	272
95.04	Leilehua Avenue	1,438	419
95.07	Schofield: McCarthy Field	3,733	791
96.03	Maili	9,319	2,449
96.08	Lualualei Transmitter	5,061	1,135
97.01	Waianae Kai	6,417	1,622
97.03	Lualualei-Camp Waianae	6,657	1,539
97.04	Lualualei: Halona Road	3,938	760
98.01	Makua Valley	2,493	964
98.02	Makaha	7,232	1,505
99.02	Haleiwa	3,232	1,007
99.04	Kaena Point	5,874	1,819
100	Kawailoa	3,616	1,248

Continued on next page.

**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016 -- Con.**

Island and 2010 census tract	Name	Resident population	Households
Oahu (con.)			
101	Waimea-Kahuku	7,841	2,238
102.01	Hauula-Kaaawa	5,038	1,549
102.02	Laie	7,472	1,295
103.03	Kahaluu-Waikane	4,755	1,322
103.05	Ahuimanu	4,631	1,321
103.06	Haiku	6,256	2,118
103.08	Kapunahala	3,382	1,021
105.03	Kaneohe District Park	1,807	510
105.04	Waikalua Road	4,801	1,342
105.05	Heeia Kea	3,162	1,074
105.07	Kahuhipa Street	5,970	1,743
105.08	Lilipuna Road	2,737	1,039
106.01	Puohala	3,554	1,044
106.02	Castle High School-Halekou Road	5,271	1,539
107.01	Kokokahi	3,993	1,353
107.02	Mokulele Drive	3,550	1,184
108.01	Mokapu West	3,671	702
108.02	Mokapu East	7,401	1,825
109.01	Kalaheo Hillside	2,998	959
109.03	Oneawa Street-Kawainui	4,267	1,382
109.04	Maluniu Avenue	3,290	1,039
109.05	Ulupaina Street	2,568	879
110	Maunawili	4,201	1,096
111.03	Olomana	3,792	1,179
111.04	Enchanted Lakes	4,812	1,470
111.05	Kailua Town	3,437	1,485
111.06	Keolu	5,794	1,826
112.01	Kalaheo Avenue	4,634	1,534
112.02	Lanikai	1,521	602
113	Waimanalo	6,296	1,402
114	Waipio Peninsula	3,907	729
115	Kapolei	8,006	2,196
9400.01	Waimanalo Beach-Homesteads	4,460	1,000
9400.02	Nanakuli	7,185	1,506
9800	Hanauma Bay	-	-
9802	Honolulu International Airport	803	-
9803	Campbell Industrial Park	-	-
9806	Schofield Forest Reserve	-	-
9807	Schofield Barracks East Range	-	-

Continued on next page.

**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016 -- Con.**

Island and 2010 census tract	Name	Resident population	Households
Oahu (con.)			
9808	Hoomaluhia Botanical Garden	-	-
9810	Kawainui Marsh	-	-
9811	Bellows Air Force Base	25	-
9813	Mapunapuna Industrial	-	-
9814	Nimitz-Airport Commercial	4	4
Northwestern Hawaiian Islands			
9812	Northwestern Hawaiian Islands	-	-
Hawaii		193,680	66,094
201	Paukaa-Wailea	4,841	1,703
202.02	Hilo: Upper Waiakea Forest Reserve	2,148	642
203	Hilo: Puueo-Downtown	3,847	1,525
204	Hilo: Villa Franca-Kaikoo	4,020	1,317
205	Hilo: University-Houselots	5,399	2,056
206	Hilo: Keaukaha-Panaewa	6,439	1,830
207.01	Hilo: Puainako	4,352	1,758
207.02	Hilo: Kawaiiani	5,377	1,835
208.01	Hilo: Kahuku-Kaumana	4,910	1,557
208.02	Hilo: Piihonua-Kaumana	6,422	2,220
209	Hilo: Haihai	4,732	1,683
210.03	Orchidland-Ainaloa	6,823	2,271
210.05	Hawaiian Paradise Park	11,542	4,026
210.10	Upper Puna (Puna Mauka)	7,190	2,869
210.11	Volcano-Mt. View	3,934	1,522
210.13	Keaau	5,354	1,653
211.01	Kalapana-Kapoho	3,101	1,605
211.06	Pahoa	7,573	2,531
212.02	Kau	8,406	2,860
213	South Kona	7,172	2,285
214.02	Konawaena	4,105	1,343
215.02	Hualalai	4,644	1,633
215.04	Kealakehe	5,258	1,343
215.07	Kalaoa	9,936	3,372
215.09	Kaumalumalu-Keauhou	5,104	1,902
216.01	Kailua	8,274	3,009
216.04	Holualoa	8,446	2,904
217.02	Waimea-Puu Anahulu	11,071	3,242
217.04	Kawaihae-Waikoloa	7,680	3,030
218	North Kohala	6,441	2,013

Continued on next page.

**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016 -- Con.**

Island and 2010 census tract	Name	Resident population	Households
Hawaii (con.)			
219.02	Honokaa-Kukuihaele	4,228	1,173
220	Paauhau-Paauilo	3,235	821
221.02	North Hilo	1,676	561
Maui		151,627	50,183
301	Hana	1,755	570
302.01	Huelo	2,035	851
302.02	Haiku	7,498	2,713
303.01	Kula	9,465	3,580
303.03	Wailea	3,825	1,709
304.02	Pukalani	8,991	3,188
304.03	Makawao	3,518	1,238
304.04	Haliimaile	5,196	1,736
305.01	Paia	2,566	747
307.05	Kihei Mauka	3,937	1,037
307.06	Kealia	2,513	1,000
307.07	Waipuilani	9,258	3,338
307.08	Halama	2,922	1,094
307.09	Kamaole	3,334	1,723
307.10	Keawakapu	2,066	931
308	Waihee-Waikapu	7,582	2,182
309.01	West Central Wailuku	2,562	1,027
309.02	East Central Wailuku	3,523	1,237
309.03	North Wailuku	6,577	1,672
310	South Wailuku	9,075	3,290
311.01	West Kahului	9,483	2,180
311.02	Central Kahului	6,272	1,508
311.03	Southeast Kahului	9,200	2,195
314.02	Kahoma	2,944	896
314.04	Lahaina	3,562	1,200
314.05	Lahainaluna	6,169	1,378
315.01	Kapalua	2,317	730
315.02	Honokahua	4,603	2,049
315.03	Honokowai	2,233	1,035
319	Spreckelsville	5,735	1,692
320	Launiupoko	911	457
9800	Kahoolawe	-	-
Lanai		3,455	1,261
316.01	Lanai	3,455	1,261

Continued on next page.

**Table 1.17-- RESIDENT POPULATION AND HOUSEHOLDS,
BY ISLAND AND CENSUS TRACT: 2012-2016 -- Con.**

Island and 2010 census tract	Name	Resident population	Households
Molokai		7,465	2,514
317	East Molokai	4,453	1,588
318.01	West Molokai	2,921	871
319	Kalawao	91	55
Kauai		70,447	22,430
401.03	Princeville-Kilauea	5,745	2,014
401.04	Haena-Hanalei	609	256
402.04	Wailua Houselots	6,014	1,997
402.05	Wailua Homesteads	4,016	1,447
403	Kapaa	8,370	2,791
404	Puhi-Hanamaulu	11,023	2,623
405	Lihue	7,001	2,282
406.03	Koloa-Poipu	3,072	1,005
406.04	Omao-Kukuiula	3,179	1,174
407	Eleele-Kalaheo	9,164	2,900
408	Kaumakani-Hanapepe	3,984	1,165
409	Kekaha-Waimea	5,041	1,672
9400	Anahola	3,229	1,104
Niihau and Kaula			
412	Niihau-Kaula	(1/)	(1/)

1/ In the source 2012-2016 estimate table, the population was shown as zero. There was, however, actually no response from the people surveyed on that island.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, Tables B01003 and B11001 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed January 12, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.18-- RESIDENT POPULATION OF HAWAIIAN HOME LANDS, BY ISLAND: 2012-2016

[Based on a sample and subject to sampling variability. Figures displayed are the average values over the 5-year period of 2012 to 2016]

Island and Hawaiian Home Lands	Total	Island and Hawaiian Home Lands	Total
State of Hawaii	35,139	Maui (con.)	
Hawaii	6,706	Waiku-Hana	-
Homoula-Upper Piihonua	6	Waiohuli (Residential)	1,183
Honokaia	-	Kahoolawe	
Honomu	-	Lanai	146
Kamaoa-Puueo	13	Lanai City	146
Kamoku-Kapulena	24	Molokai	2,145
Kaohe-Olaa	-	Hoolehua-Palaaau	1,374
Kaumana	141	Kalamaula	415
Kawaihae	538	Kalaupapa	91
Keahuolu	-	Kamiloloa-Makakupaia	56
Kealakehe	1,168	Kapaakea	197
Keaukaha	1,745	Ualapue	12
Keoniki	-	Oahu	19,505
Kolaoa	-	East Kapolei	-
Lalamilo	68	Haiku	-
Makuu	64	Honolulu Makai	-
Nienie	38	Kakaina-Kumuhau	198
Panaewa (Agricultural)	724	Kalaeloa	19
Panaewa (Residential)	1,305	Kalawahine	399
Pauahi	-	Kanehili	662
Piihonua	50	Kapolei	-
Ponohawaii	12	Kaupea	1,523
Puukapu	810	Kewalo	391
Upolu	-	Lualualei	30
Waiakea	-	Maili	542
Wailau	-	Makaha Valley	-
Waimanu	-	Maluohai	1,327
Waiohinu	-	Nanakuli	5,010
Maui	4,490	Papakolea	1,781
Honokowai	-	Pearl City	52
Kahikinui	-	Princess Kahanu Estates	1,359
Keanae-Wailua	10	Waiahole	31
Keokea (Agricultural)	133	Waianae	2,512
Leialii	416	Waianae Kai	725
Paukukalo	809	Waimanalo	2,944
Pulehunui	-		
South Maui	-		
Waiehu	1,939		

Continued on next page.

Table 1.18-- RESIDENT POPULATION OF HAWAIIAN HOME LANDS, BY ISLAND: 2012-2016 -- Con.

Island and Hawaiian Home Lands	Total	Island and Hawaiian Home Lands	Total
Kauai	2,147	Kauai (con.)	
Anahola (Agricultural)	145	Kekaha	504
Anahola (Residential)	1,457	Moloaa	8
Hanapepe	33	Wailua	-
Kapaa	-	Waimea	-

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
 <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed February 16, 2018.

Table 1.19-- RESIDENT POPULATION, BY ISLAND AND ZIP CODE TABULATION AREA: 2012-2016

[ZIP Code Tabulation Areas (ZCTAs) are approximate area representations of the U.S. Postal Service five-digit ZIP Code service areas that the Census Bureau created using whole blocks to present statistical data from censuses and surveys. Based on a sample and subject to sampling variability. Figures displayed are the average values over the 5-year period of 2012 to 2016]

Zip code tabulation area	Name 1/	Resident population	Zip code tabulation area	Name 1/	Resident population
State total		1,413,673	Maui (con.)		
Hawaii			96732	Kahului	28,074
96704	Captain Cook	7,874	96753	Kihei	27,855
96710	Hakalau	226	96761	Lahaina	
96719	Hawi	1,900		Main Office	22,355
96720	Hilo (Main Office)	48,182	96768	Makawao	17,787
96725	Holualoa	3,492	96779	Paia	3,052
96726	Honaunau	878	96790	Kula	9,465
96727	Honokaa	5,739	96793	Wailuku	31,770
96728	Honomu	498	Lanai		
96737	Ocean View	4,477	96763	Lanai City	3,455
96738	Waikoloa	6,593	Molokai		
96740	Kailua-Kona	37,192	96729	Hoolehua	1,374
96743	Kamuela	13,357	96742	Kalaupapa	91
96749	Keaau	18,088	96748	Kaunakakai	4,453
96750	Kealakekua	3,503	96757	Kualapuu	698
96755	Kapaau	3,404	96770	Maunaloa	849
96760	Kurtistown	2,562	Oahu		
96764	Laupahoehoe	685	96701	Aiea	39,697
96771	Mountain View	7,820	96706	Ewa Beach	68,881
96772	Naalehu	2,471	96707	Kapolei	45,588
96773	Ninole	148	96712	Haleiwa	7,614
96774	Ookala	289	96717	Hauula	4,895
96776	Paauiilo	1,489	96730	Kaawa	1,287
96777	Pahala	1,444	96731	Kahuku	3,194
96778	Pahoa	14,481	96734	Kailua	52,340
96780	Papaalooa	721	96744	Kaneohe	53,761
96781	Papaikou	1,588	96759	Kunia	442
96783	Pepeekeo	1,999	96762	Laie	6,061
96785	Volcano	2,580	96782	Pearl City	40,318
Maui			96786	Wahiawa	45,277
96708	Haiku	9,753	96789	Mililani	54,237
96713	Hana	1,471			

Continued on next page.

**Table 1.19-- RESIDENT POPULATION, BY ISLAND AND
ZIP CODE TABULATION AREA: 2012-2016 -- Con.**

Zip code tabulation area	Name 1/	Resident population	Zip code tabulation area	Name 1/	Resident population
Oahu (con.)			Oahu (con.)		
96791	Waialua	7,609	96860	Pearl Harbor	1,915
96792	Waianae	48,302	96863	MCBH K Bay 2/	46
96795	Waimanalo	10,781			
96797	Waipahu	76,020	Kauai		
96813	Downtown	23,105	96703	Anahola	2,049
96814	Downtown	18,710	96705	Eleele	2,651
96815	Waikiki	26,839	96714	Hanalei	633
96816	Waialae Kahala	50,118	96716	Hanapepe	2,808
96817	Kapalama	57,413	96722	Princeville	2,286
96818	Main Office	58,458	96741	Kalaheo	6,350
96819	Sand Island	54,989	96746	Kapaa	19,478
96821	Hawaii Kai	19,077	96747	Kaumakani	908
96822	Makiki	45,908	96751	Kealia	70
96825	Hawaii Kai	29,151	96752	Kekaha	3,237
96826	Makiki	31,385	96754	Kilauea	3,467
96850	Honolulu	-	96756	Koloa	5,766
96853	Hickam Air		96765	Lawai	560
	Force Base	578	96766	Lihue	18,024
96857	Schofield Barracks	2,879	96769	Makaweli	356
96859	Tripler Army		96796	Waimea	1,804
	Medical Center	124			

1/ From *The Official Hawaiian Telcom White Pages 2011 Oahu*. There may be more than one name for a zip code area.

2/ Marine Corp Base Hawaii Kaneohe Bay.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed February 16, 2018; Hawaiian Telcom, *The Official Hawaiian Telcom White Pages 2011 Oahu* and United States Postal Service, Zip Code Lookup <http://zip4.usps.com/zip4/citytown_zip.jsp> accessed June 27, 2011.

Table 1.20-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR WAIKIKI: 1970 TO 2010

[For earlier years, 1920-1970, see *Data Book 1987* and *1988*, Table 14. Waikiki is bounded by the Ala Wai Canal, Kapahulu Avenue, and the Pacific Ocean]

Subject	1970	1980	1990	2000	2010	Density 1/		
						1990	2000	2010
Resident population 2/ Temporarily absent 3/	13,124 176	17,384 174	19,768 327	19,720 763	23,073 1,242	25,254.9 417.8	25,193.6 974.8	29,814.5 1,604.7
De facto population 4/ Visitors present 3/	34,874 21,926	63,710 46,500	95,979 76,538	(NA) 73,751	96,859 75,028	122,619.6 97,782.4	(NA) 94,221.8	125,159.6 96,949.8
Employed persons 5/ Living in Waikiki Working in Waikiki	7,866 (NA)	9,593 30,011	11,065 (NA)	9,898 (NA)	6/ 12,466 26,085	14,136.3 (NA)	12,645.4 (NA)	16,108.3 33,706.5

NA Not available.

1/ Per square mile. Based on land area of 0.77 square miles (2.00 square kilometers) for 2010; 0.78 square miles (2.03 square kilometers) for earlier years.

2/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area and residents temporarily absent, but excludes visitors present.

3/ Annual averages. Estimated.

4/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence. It includes visitors present but excludes residents temporarily absent, both calculated as an average daily census.

5/ Includes armed forces.

6/ Includes armed forces. Average value over the five year period of 2007 to 2011, obtained from the American Community Survey.

Source: U.S. Bureau of the Census, census tract bulletins, 1970-1980, and 1990 Census tapes, U.S. Census Bureau, Census 2000 Redistricting Data (P.L. 94-171) Summary File (March 19, 2001), Census 2000 Summary File 3 (September 25, 2002), 2010 Census Summary File 1 (June 16, 2011), and the 2007-2011 American Community Survey 5-year Estimates (December 6, 2012); Hawaii Visitors Bureau; Hawaii State Department of Business, Economic Development & Tourism, Tourism Research Branch; Hawaii Tourism Authority, Tourism Research; *Data Book 1987*, table 380; and calculations from the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.21-- URBAN AND RURAL AREAS, BY COUNTY: 2010

[Based on the 2010 Census "urban" and "rural" area criteria]

Geography and subject 1/	State total	Honolulu	Hawaii	Kauai	Maui 2/
Total land area					
Square kilometers	16,634.5	1,555.9	10,433.6	1,605.7	3,039.4
Square miles 3/	6,422.6	600.7	4,028.4	620.0	1,173.5
Urban					
Square kilometers	1,018.2	566.1	224.7	92.7	134.7
Square miles 3/	393.1	218.6	86.7	35.8	52.0
Percent 4/	6.1	36.4	2.2	5.8	4.5
Urbanized area					
Sq. km.	585.0	541.8	-	-	43.2
Sq. mi. 3/	225.9	209.2	-	-	16.7
Percent 4/	3.5	34.8	0.0	0.0	1.4
Urban cluster					
Sq. km.	433.2	24.3	224.7	92.7	91.5
Sq. mi. 3/	167.3	9.4	86.7	35.8	35.3
Percent 4/	2.6	1.6	2.2	5.8	3.0
Rural					
Square kilometers	15,616.3	989.8	10,208.9	1,513.0	2,904.7
Square miles 3/	6,029.5	382.2	3,941.7	584.2	1,121.5
Percent 4/	93.9	63.6	97.9	94.2	95.6
Resident population	1,360,301	953,207	185,079	67,091	154,924
Density/sq. mi.	211.8	1,586.7	45.9	108.2	132.0
Urban area	1,250,489	944,982	114,766	58,463	132,278
Percent 5/	91.9	99.1	62.0	87.1	85.4
Density/sq. mi.	3,180.8	4,323.3	1,323.1	1,633.1	2,543.0
Urbanized area	972,075	916,141	-	-	55,934
Percent 5/	71.5	96.1	0.0	0.0	36.1
Density/sq. mi.	4,303.4	4,379.1	(X)	(X)	3,353.9
Urban cluster	278,414	28,841	114,766	58,463	76,344
Percent 5/	20.5	3.0	62.0	87.1	49.3
Density/sq. mi.	1,664.7	3,076.7	1,323.1	1,633.1	2,160.3
Rural	109,812	8,225	70,313	8,628	22,646
Percent 5/	8.1	0.9	38.0	12.9	14.6
Density/sq. mi.	18.2	21.5	17.8	14.8	20.2

Continued on next page.

**Table 1.21-- URBAN AND RURAL AREAS, BY COUNTY:
2010 -- Con.**

X Not applicable.

1/ For the 2010 Census, an urban area will comprise a densely settled core of census tracts and/or census blocks that meet minimum population density requirements, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core. To qualify as an urban area, the territory identified according to criteria must encompass at least 2,500 people, at least 1,500 of which reside outside institutional group quarters. The Census Bureau identifies two types of urban areas (1) Urbanized Areas (UAs) of 50,000 or more people and (2) Urban Clusters (UCs) of at least 2,500 and less than 50,000 people. "Rural" encompasses all population, housing and territory not included within an urban area.

2/ Maui County includes Kalawao County. Kalawao County had a total resident population of 90; land area of 31.1 square kilometers which was 12.0 square miles; 2010 rural population of 90; percent population that was rural population was 100%; land area of the rural areas was 31.1 square kilometers which was 12.0 square miles; percent land area in rural area was 100%; and population density of rural area was 7.5 persons per square mile.

3/ To convert from square kilometer to square mile, divide by 2.58999.

4/ Percent of state land area for "state total" column; percent of county land area for all other columns.

5/ Percent of state population for "state total" column; percent of county population for all other columns.

Source: U.S. Census Bureau, "2010 Percent Urban and Rural by County" <<http://www.census.gov/geo/reference/ua/urban-rural-2010.html>> accessed May 31, 2013, "2010 Census Urban and Rural Classification and Urban Area Criteria" <<http://www.census.gov/geo/reference/ua/urban-rural-2010.html>> accessed May 31, 2013 and "Census 2000 Geographic Definitions" <http://www.census.gov/geo/www/geo_defn.html#AreaMeasurement> accessed May 31, 2013; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.22-- CENTERS OF POPULATION, BY COUNTY: 1990 TO 2010

[The "center of population" is determined as the place where an imaginary, flat, weightless, and rigid map of the geographic area would balance perfectly if all of its residents were of identical weight]

County	North latitude (degrees)	West longitude (degrees)	Approximate location
1990			
State of Hawaii	21.1756	157.5708	Kaiwi Channel
Hawaii County	19.6898	155.4060	20 mi. W of Hilo
Maui County 1/	20.8722	156.4547	0.6 mi. SW of Wailuku Post Office
Honolulu County	21.3748	157.8993	0.2 mi. NE of Red Hill Elementary School
Kauai County	22.0144	159.4509	4.4 mi. N of Knudsen Gap
2000			
State of Hawaii	21.146768	157.52445	Kaiwi Channel
Hawaii County	19.690126	155.41573	21.5 mi. W of Hilo
Maui County	20.868419	156.50023	1.3 mi. SE of Wailuku Post Office
Kalawao County	21.192297	156.98023	Kalaupapa
Honolulu County	21.376294	157.90885	0.8 mi. NW of Red Hill Elementary School
Kauai County	22.021112	159.44751	5 mi. N of Knudsen Gap
2010			
State of Hawaii	21.115289	157.484404	Kaiwi Channel
Hawaii County	19.672837	155.421895	22.1 mi. W of Hilo
Maui County	20.863747	156.493816	1.7 mi. SE of Wailuku Post Office
Kalawao County	21.188495	156.979972	Kalaupapa
Honolulu County	21.372464	157.913673	0.9 mi. NW of Red Hill Elementary School
Kauai County	22.021022	159.442112	5.1 mi. NE of Knudsen Gap

1/ Maui County includes Kalawao County.

Source: Hawaii State Department of Business, Economic Development & Tourism, estimated from block group data in U.S. Bureau of Census, 1990 STF-1A and the Office of Planning GIS Program, 2000 and 2010 approximate location; U.S. Census Bureau, Commerce News "2000 U.S. Population Centered in Phelps County, Mo.", CB01-CN.66, (April 2, 2001) <http://www.census.gov/Press-Release/www/releases/archives/census_2000/000717.html> accessed July 18, 2001, "County Population Centroids for Hawaii" <<http://www.census.gov/geo/www/cenpop/county/coucntr15.html>> accessed Nov. 11, 2003, "Centers of Population for the 2010 Census" <<http://www.census.gov/geo/www/2010census/centerpop2010/centerpop2010.html>> accessed July 8, 2011.

Table 1.23-- POPULATION BY MILITARY STATUS: 1950 TO 2000

Year	Total resident population	Armed Forces	Civilians			Armed Forces and dependents
			All civilians	Military dependents	Other civilians	
1950	499,794	22,856	476,938	(NA)	(NA)	(NA)
1960	632,772	47,267	585,505	56,576	528,929	103,843
1970	768,559	49,953	718,606	61,261	657,345	111,214
1980	964,691	58,443	906,248	61,974	844,274	120,417
1990	1,108,229	54,001	1,054,228	63,215	991,013	117,216
2000 1/	1,211,535	39,035	1,172,500	43,090	1,129,410	82,125

NA Not available.

1/ Figures for Armed Forces, military dependents and other civilians were obtained from a special tabulation of the census data. As a result, they are subject to rounding rules used in all special tabulations from the Census Bureau. The rounding rules sometimes cause figures from the special tabulations to differ from those obtained from the regular Census 2000 datasets. The figure for total resident population from the Census 2000 Summary File 1 was 1,211,537 and the Armed Forces population from the Census 2000 Summary File 3 was 39,036. Both of these figures differ from the numbers obtained in the special tabulation.

Source: U.S. Census Bureau, decennial censuses special tabulations.

**Table 1.24-- MILITARY PERSONNEL AND DEPENDENTS,
BY SERVICE AND ISLAND: JULY 1, 2017**

[Data for years prior to 2005 are found in Section 10 of the previous *Data Books*]

Service and island	Personnel and dependents	Military personnel				Dependents in Hawaii
		Total	Living ashore		Living aboard ship	
			In hsg. units 1/	In barracks		
State total 2/	104,238	45,690	(NA)	(NA)	(NA)	58,548
Air Force 3/	11,693	5,220	(NA)	(NA)	-	6,473
Oahu	(NA)	(NA)	(NA)	(NA)	-	(NA)
Maui	(NA)	(NA)	(NA)	(NA)	-	(NA)
Army 4/	46,908	18,614	11,838	6,776	-	28,294
Oahu 4/	46,885	18,605	11,829	6,776	-	28,280
Hawaii 4/	23	9	9	-	-	14
Coast Guard 2/	3,283	1,337	1,277	38	20	1,946
Oahu	3,157	1,274	1,216	38	20	1,888
Hawaii	31	14	10	-	-	17
Maui	47	24	24	-	-	23
Kauai	50	27	27	-	-	23
Marine Corps	15,035	8,315	2,843	5,472	-	6,720
Oahu	15,023	8,312	2,840	5,472	-	6,711
Hawaii	8	2	2	-	-	6
Maui	4	1	1	-	-	3
Navy 5/	27,319	12,204	3,126	2,726	6,300	15,115
Oahu	27,047	12,092	3,082	2,710	6,300	14,955
Hawaii	51	13	-	-	-	38
Maui	53	16	-	-	-	37
Kauai	168	83	44	16	-	85

NA Not available.

1/ In houses or apartments, either on-base or in the civilian community.

2/ Figures are estimated. Totals and subtotals may not be the sum of the individual components.

3/ Military personnel and dependent figures are DBEDT estimates.

4/ As of July 31, 2017. In housing units, in barracks and dependent figures are estimated.

5/ Estimated. Some dependents and families of military personnel receiving housing entitlements may be living in another state.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers; U.S. Department of Defense, Defense Manpower Data Center, Statistical Information Analysis Division, "Counts of Active Duty and Reserve Service Members and APF Civilians" (June 2017); and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.25-- MILITARY PERSONNEL BY
ACCOMPANIMENT STATUS: 2018**

[As of April 2018 unless otherwise specified. Estimates. Data for Oahu military personnel only]

Service	Permanent party personnel	Military families 1/	Military couples 2/	Unaccompanied 3/
Total	48,148	25,660	(NA)	21,584
Air Force	4,944	2,875	(4/)	2,069
Army	21,209	11,900	563	8,746
Coast Guard 5/	1,173	754	37	382
Marine Corps	9,413	4,399	304	4,710
Navy	11,409	5,732	(4/)	5,677

NA Not available.

1/ The military families figure is comprised of military personnel accompanied by dependents (i.e. spouses, children).

2/ Both spouses are permanent-party military personnel and form one family. Only one spouse is counted in the military families column and the other spouse is counted in the military couples category unless otherwise specified.

3/ Includes both single personnel as well as married personnel who do not have family members living with them.

4/ No figures were available separately for military couples. Both spouses were counted under the military families category.

5/ Data as of February 2017.

Source: Robert D. Niehaus, Inc., records.

**Table 1.26-- RESIDENT POPULATION PROJECTIONS,
BY COUNTY: 2010 TO 2045**

[As of July 1. DBEDT 2045 Series]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
Resident population 2/						
2010 3/	1,363,945	956,325	407,620	185,339	67,209	155,072
2016 3/	1,428,557	992,605	435,952	198,449	72,029	165,474
2020	1,466,632	1,010,123	456,508	209,000	74,747	172,762
2025	1,514,723	1,032,705	482,018	222,396	78,045	181,577
2030	1,556,843	1,050,077	506,766	235,601	81,218	189,947
2035	1,592,684	1,062,059	530,625	248,486	84,303	197,836
2040	1,622,480	1,069,269	553,212	260,935	87,237	205,040
2045	1,648,609	1,073,796	574,814	273,232	90,044	211,537
Annual growth rate (%)						
2010-2016 3/	0.8	0.6	1.1	1.1	1.2	1.1
2016-2020	0.7	0.4	1.2	1.3	0.9	1.1
2020-2025	0.6	0.4	1.1	1.3	0.9	1.0
2025-2030	0.6	0.3	1.0	1.2	0.8	0.9
2030-2035	0.5	0.2	0.9	1.1	0.7	0.8
2035-2040	0.4	0.1	0.8	1.0	0.7	0.7
2040-2045	0.3	0.1	0.8	0.9	0.6	0.6
Share of state resident population (%)						
2010 3/	100.0	70.1	29.9	13.6	4.9	11.4
2016 3/	100.0	69.5	30.5	13.9	5.0	11.6
2020	100.0	68.9	31.1	14.3	5.1	11.8
2025	100.0	68.2	31.8	14.7	5.2	12.0
2030	100.0	67.4	32.6	15.1	5.2	12.2
2035	100.0	66.7	33.3	15.6	5.3	12.4
2040	100.0	65.9	34.1	16.1	5.4	12.6
2045	100.0	65.1	34.9	16.6	5.5	12.8

1/ Maui County including Kalawao County.

2/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area and residents temporarily absent, but excludes visitors present.

3/ Population estimate figure for July 1 from the U.S. Census Bureau.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2045 - DBEDT 2045 Series*, Tables A-2 to A-6 (June 2018) <<http://dbedt.hawaii.gov/economic/economic-forecast/2045-long-range-forecast/>> accessed June 29, 2018.

Table 1.27-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 2010 TO 2045

[As of July 1. DBEDT 2045 Series]

Age group (in years)	2010 1/			2016 1/			2020		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Total	1,363,621	682,892	680,729	1,428,557	717,615	710,942	1,466,632	736,736	729,896
Under 5	87,180	44,890	42,290	91,535	46,908	44,627	95,648	48,516	47,132
5 to 9	83,269	42,811	40,458	87,086	44,747	42,339	89,267	46,383	42,884
10 to 14	81,629	41,751	39,878	81,715	42,286	39,429	83,490	43,473	40,017
15 to 19	85,649	44,420	41,229	78,701	40,824	37,877	75,149	39,468	35,681
20 to 24	95,834	52,001	43,833	97,750	54,642	43,108	91,614	50,529	41,085
25 to 29	96,929	50,562	46,367	105,887	56,085	49,802	109,914	59,032	50,883
30 to 34	88,280	45,053	43,227	102,016	52,737	49,279	103,876	54,173	49,703
35 to 39	86,374	43,779	42,595	93,592	47,768	45,824	98,199	49,606	48,592
40 to 44	89,757	45,343	44,414	83,636	42,316	41,320	88,747	44,525	44,222
45 to 49	95,595	48,104	47,491	87,599	43,773	43,826	82,887	42,112	40,775
50 to 54	98,262	49,004	49,258	90,672	45,316	45,356	85,171	42,573	42,598
55 to 59	93,653	46,302	47,351	93,955	46,331	47,624	91,566	45,102	46,463
60 to 64	83,116	41,315	41,801	90,451	44,088	46,363	91,418	44,481	46,937
65 to 69	59,670	29,086	30,584	81,361	39,640	41,721	84,247	40,750	43,497
70 to 74	41,757	19,355	22,402	57,649	27,504	30,145	73,350	35,201	38,150
75 to 79	35,048	15,143	19,905	37,740	17,099	20,641	49,351	22,651	26,700
80 to 84	30,716	12,341	18,375	28,260	11,665	16,595	30,785	13,063	17,722
85 & over	30,903	11,632	19,271	38,952	13,886	25,066	41,954	15,099	26,855

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Table 1.27-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 2010 TO 2045 -- Con.

Age group (in years)	2030			2040			2045		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
Total	1,556,843	783,072	773,771	1,622,480	817,109	805,371	1,648,609	831,493	817,116
Under 5	97,892	49,689	48,203	96,332	48,891	47,441	98,365	49,950	48,415
5 to 9	96,005	49,186	46,819	93,263	47,785	45,479	93,117	47,703	45,414
10 to 14	90,801	47,253	43,548	93,074	48,441	44,632	91,683	47,736	43,947
15 to 19	80,574	43,263	37,311	87,322	46,074	41,248	85,981	45,382	40,599
20 to 24	88,777	49,699	39,078	96,101	53,489	42,612	99,723	55,373	44,350
25 to 29	98,350	52,998	45,353	103,790	56,800	46,991	106,938	57,745	49,193
30 to 34	103,594	54,554	49,040	100,825	53,770	47,055	105,018	56,627	48,391
35 to 39	107,930	56,075	51,855	96,532	50,159	46,374	97,811	51,124	46,686
40 to 44	98,470	49,299	49,171	98,305	49,756	48,549	94,356	48,072	46,284
45 to 49	94,079	46,787	47,292	103,850	53,265	50,585	96,624	49,182	47,442
50 to 54	84,747	42,932	41,815	94,532	47,753	46,779	101,672	52,332	49,340
55 to 59	80,665	40,558	40,107	91,918	45,311	46,608	94,656	47,257	47,399
60 to 64	82,718	40,236	42,482	82,901	40,968	41,933	89,983	43,888	46,094
65 to 69	84,341	40,665	43,675	74,950	37,046	37,903	79,235	38,985	40,250
70 to 74	81,658	38,894	42,764	74,826	35,808	39,018	71,508	35,034	36,474
75 to 79	72,120	33,436	38,683	73,530	34,154	39,377	69,239	32,318	36,921
80 to 84	57,418	25,506	31,912	65,606	29,195	36,411	65,054	29,071	35,983
85 & over	56,704	22,042	34,662	94,823	38,446	56,377	107,648	43,713	63,935

1/ Population estimates for July 1 from the U.S. Census Bureau.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2045 - DBEDT 2045 Series*, Tables A-7 to A-9 (June 2018) <<http://dbedt.hawaii.gov/economic/economic-forecast/2045-long-range-forecast/>> accessed June 29, 2018.

**Table 1.28-- DE FACTO POPULATION PROJECTIONS,
BY COUNTY: 2010 TO 2045**

[Includes all persons physically present in an area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as an average daily census]

Type and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
De facto population					
2010 2/	1,468,677	988,095	202,682	83,516	194,384
2016 2/	1,583,139	1,048,965	222,485	93,630	218,059
2020 3/	1,638,617	1,070,437	236,684	99,048	232,448
2025 3/	1,695,167	1,093,992	252,073	103,758	245,344
2030 3/	1,746,731	1,112,667	267,463	108,457	258,143
2035 3/	1,792,080	1,125,876	282,588	113,071	270,545
2040 3/	1,829,981	1,133,609	297,097	117,362	281,913
2045 3/	1,866,457	1,139,437	311,869	121,803	293,348
Annual growth rate (%)					
2010-2016 3/	1.3	1.0	1.6	1.9	1.9
2016-2020	0.9	0.5	1.6	1.4	1.6
2020-2025	0.7	0.4	1.3	0.9	1.1
2025-2030	0.6	0.3	1.2	0.9	1.0
2030-2035	0.5	0.2	1.1	0.8	0.9
2035-2040	0.4	0.1	1.0	0.7	0.8
2040-2045	0.4	0.1	1.0	0.7	0.8

1/ Maui County including Kalawao County.

2/ Population estimates for July 1 from the U.S. Census Bureau.

3/ DBEDT projections.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2045 - DBEDT 2045 Series* (June 2018), Tables A-2 to A-6 <<http://dbedt.hawaii.gov/economic/economic-forecast/2045-long-range-forecast/>> accessed June 29, 2018.

Table 1.29-- RESIDENT POPULATION, BY AGE AND SEX: 2000 AND 2010

Age group	April 1, 2000			April 1, 2010		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	1,211,537	608,671	602,866	1,360,301	681,243	679,058
Under 5 years	78,163	40,110	38,053	87,407	45,019	42,388
5 to 9 years	84,980	43,739	41,241	83,361	42,847	40,514
10 to 14 years	83,106	42,740	40,366	81,539	41,699	39,840
15 to 19 years	81,002	42,200	38,802	85,994	44,590	41,404
20 to 24 years	83,409	45,709	37,700	95,829	51,981	43,848
25 to 29 years	84,000	44,016	39,984	97,302	50,683	46,619
30 to 34 years	87,159	44,391	42,768	88,031	44,921	43,110
35 to 39 years	95,935	48,760	47,175	86,756	43,994	42,762
40 to 44 years	95,242	47,817	47,425	89,617	45,253	44,364
45 to 49 years	90,404	45,130	45,274	95,787	48,213	47,574
50 to 54 years	80,575	40,523	40,052	97,978	48,831	49,147
55 to 59 years	60,561	29,905	30,656	93,340	46,148	47,192
60 to 64 years	46,400	22,293	24,107	82,222	40,879	41,343
65 to 69 years	42,847	19,503	23,344	59,170	28,849	30,321
70 to 74 years	42,415	18,919	23,496	41,353	19,140	22,213
75 to 79 years	35,386	16,020	19,366	34,675	14,940	19,735
80 to 84 years	22,389	9,626	12,763	29,702	11,904	17,798
85 years and over	17,564	7,270	10,294	30,238	11,352	18,886
5 to 17	217,604	112,115	105,489	216,411	110,993	105,418
18 to 24	114,893	62,273	52,620	130,312	70,124	60,188
25 to 44	362,336	184,984	177,352	361,706	184,851	176,855
45 to 64	277,940	137,851	140,089	369,327	184,071	185,256
16 years and over	949,184	473,683	475,501	1,091,079	543,085	547,994
18 years and over	915,770	456,446	459,324	1,056,483	525,231	531,252
21 years and over	867,329	430,630	436,699	1,003,512	497,216	506,296
65 years and over	160,601	71,338	89,263	195,138	86,185	108,953
85 years and over	17,564	7,270	10,294	30,238	11,352	18,886
Median age	36.2	35.1	37.4	38.6	37.2	39.9

Source: U.S. Census Bureau, Census 2000 Summary File 1 Hawaii (July 25, 2001) and 2010 Census "DP-1 - Hawaii Profile of General 2010 Demographic Profile Data" (May 19, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 19, 2011; calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

**Table 1.30-- RESIDENT POPULATION, BY AGE AND SEX:
2010 AND 2017**

[Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present. The 2017 estimates are provisional]

Age group	April 1, 2010 1/			July 1, 2017		
	Both sexes	Male	Female	Both sexes	Male	Female
Total	1,360,301	681,243	679,058	1,427,538	716,087	711,451
Under 5 years	87,407	45,019	42,388	90,109	46,357	43,752
5 to 9 years	83,361	42,847	40,514	86,792	44,335	42,457
10 to 14 years	81,539	41,699	39,840	81,998	42,435	39,563
15 to 19 years	85,994	44,590	41,404	77,031	39,744	37,287
20 to 24 years	95,829	51,981	43,848	93,997	52,268	41,729
25 to 29 years	97,302	50,683	46,619	105,478	55,945	49,533
30 to 34 years	88,031	44,921	43,110	101,082	52,055	49,027
35 to 39 years	86,756	43,994	42,762	95,486	48,636	46,850
40 to 44 years	89,617	45,253	44,364	83,916	42,418	41,498
45 to 49 years	95,787	48,213	47,574	87,097	43,755	43,342
50 to 54 years	97,978	48,831	49,147	87,920	43,653	44,267
55 to 59 years	93,340	46,148	47,192	92,419	45,841	46,578
60 to 64 years	82,222	40,879	41,343	90,653	43,981	46,672
65 to 69 years	59,170	28,849	30,321	81,950	39,786	42,164
70 to 74 years	41,353	19,140	22,213	62,986	30,263	32,723
75 to 79 years	34,675	14,940	19,735	40,134	18,430	21,704
80 to 84 years	29,702	11,904	17,798	28,149	11,793	16,356
85 and over	30,238	11,352	18,886	40,341	14,392	25,949
5 to 17	216,411	110,993	105,418	215,635	110,579	105,056
18 to 24	130,312	70,124	60,188	124,183	68,203	55,980
25 to 44	361,706	184,851	176,855	385,962	199,054	186,908
45 to 64	369,327	184,071	185,256	358,089	177,230	180,859
16 years and over	1,091,079	543,085	547,994	1,153,146	575,132	578,014
18 years and over	1,056,483	525,231	531,252	1,121,794	559,151	562,643
21 years and over	1,003,512	497,216	506,296	1,074,834	533,917	540,917
65 years and over	195,138	86,185	108,953	253,560	114,664	138,896
85 years and over	30,238	11,352	18,886	40,341	14,392	25,949
Median age	38.6	37.2	39.9	39.0	37.5	40.6

1/ The April 1, 2010 Population Estimates base figures are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions.

Source: U.S. Census Bureau, Population Division, "Annual Estimates of the Resident Population for Selected Age Groups by Sex for the United States, States, Counties, and Puerto Rico Commonwealth and Municipios: April 1, 2010 to July 1, 2017 - Hawaii" (PEPAGESEX) (June 2018)

<<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 21, 2018 and "Annual Estimates of the Resident Population by Single Year of Age and Sex for the United States, States, and Puerto Rico Commonwealth: April 1, 2010 to July 1, 2017" (PEPSYASEX) (June 2018)

<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 21, 2018;

and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.31-- POPULATION ESTIMATES BY AGE AND MILITARY STATUS:
2010 AND 2017**

[Total includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present. The 2010 and 2017 estimates are provisional]

Age group	April 1, 2010 1/			July 1, 2017		
	Total	Military personnel	Civilian 2/	Total	Military personnel	Civilian 2/
Total	1,360,301	40,797	1,319,504	1,427,538	46,724	1,380,814
Under 5 years	87,407	-	87,407	90,109	-	90,109
5 to 9 years	83,361	-	83,361	86,792	-	86,792
10 to 14 years	81,539	-	81,539	81,998	-	81,998
15 to 19 years	85,994	1,542	84,452	77,031	1,780	75,251
20 to 24 years	95,829	12,362	83,467	93,997	14,226	79,771
25 to 29 years	97,302	10,430	86,872	105,478	11,679	93,799
30 to 34 years	88,031	6,262	81,769	101,082	7,846	93,236
35 to 39 years	86,756	5,089	81,667	95,486	5,805	89,681
40 to 44 years	89,617	3,178	86,439	83,916	3,128	80,788
45 to 49 years	95,787	1,403	94,384	87,097	1,583	85,514
50 to 54 years	97,978	422	97,556	87,920	546	87,374
55 to 59 years	93,340	89	93,251	92,419	117	92,302
60 to 64 years	82,222	20	82,202	90,653	14	90,639
65 to 69 years	59,170	-	59,170	81,950	-	81,950
70 to 74 years	41,353	-	41,353	62,986	-	62,986
75 to 79 years	34,675	-	34,675	40,134	-	40,134
80 to 84 years	29,702	-	29,702	28,149	-	28,149
85 and over	30,238	-	30,238	40,341	-	40,341
5 to 17	216,411	1	216,410	215,635	-	215,635
18 to 24	130,312	13,903	116,409	124,183	16,006	108,177
25 to 44	361,706	24,959	336,747	385,962	28,458	357,504
45 to 64	369,327	1,934	367,393	358,089	2,260	355,829
16 years and over	1,091,079	40,797	1,050,282	1,153,146	46,724	1,106,422
18 years and over	1,056,483	40,796	1,015,687	1,121,794	46,724	1,075,070
21 years and over	1,003,512	37,252	966,260	1,074,834	42,532	1,032,302
65 years and over	195,138	-	195,138	253,560	-	253,560
85 years and over	30,238	-	30,238	40,341	-	40,341
Median age	38.6	27.8	39.4	39.0	27.9	40.0

1/ The April 1, 2010 Population Estimates base figures are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions.

2/ Includes military dependents.

Source: U.S. Census Bureau, Population Division, "Annual Estimates of the Resident Population by Single Year of Age and Sex for the United States, States, and Puerto Rico Commonwealth: April 1, 2010 to July 1, 2017" (PEPSYASEX) (June 2018) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 21, 2018 and "Annual Estimates of the Civilian Population by Single Year of Age and Sex for the United States and States: April 1, 2010 to July 1, 2017" (SC-EST2017-AGESEX-CIV) (June 2018) <<https://www.census.gov/programs-surveys/popest/data/data-sets.html>> accessed June 21, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.32-- RESIDENT POPULATION BY SELECTED AGE GROUPS,
BY COUNTY: 2017**

[As of July 1. Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present. The 2017 estimates are provisional]

Age group	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
Total persons	1,427,538	988,650	200,381	72,159	166,348
Under 5	90,109	63,534	12,113	4,467	9,995
5 to 13	152,669	103,774	22,328	8,175	18,392
14 to 17	62,966	42,501	9,217	3,378	7,870
18 to 24	124,183	93,186	14,519	4,925	11,553
25 to 44	385,962	277,477	47,614	17,731	43,140
45 to 64	358,089	237,859	54,405	19,594	46,231
65 years and over	253,560	170,319	40,185	13,889	29,167
85 years and over	40,341	29,714	4,963	1,986	3,678
16 years and over	1,153,146	800,001	161,283	57,814	134,048
18 years and over	1,121,794	778,841	156,723	56,139	130,091
Under 18 years	305,744	209,809	43,658	16,020	36,257
18 to 64 years	868,234	608,522	116,538	42,250	100,924
65 years and over	253,560	170,319	40,185	13,889	29,167
Percent:					
Under 18 years	21.4	21.2	21.8	22.2	21.8
18 to 64 years	60.8	61.6	58.2	58.6	60.7
65 years and over	17.8	17.2	20.1	19.2	17.5
Dependency ratio 2/	64	62	72	71	65

1/ Maui County including Kalawao County.

2/ Number of dependent persons (persons under 18 years and persons 65 years and over) as a proportion of the working population (persons between the ages of 18 and 64 years old). For example, a dependency ratio of 60 means that there are 60 dependent people to every 100 working-age person.

Source: U.S. Census Bureau, Population Division, "Annual Estimates of the Resident Population for Selected Age Groups by Sex for the United States, States, Counties, and Puerto Rico Commonwealth and Municipios: April 1, 2010 to July 1, 2017" (PEPAGESEX) (June 2018)

<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 21, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.33-- RESIDENT POPULATION BY AGE, BY COUNTY: 2010

[As of April 1. Based on place of usual residence, regardless of physical location on the estimate or census date. Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Age group	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
Total	1,360,301	953,207	185,079	67,091	154,924
Under 5 years	87,407	61,261	11,845	4,281	10,020
5 to 9 years	83,361	57,818	11,478	4,179	9,886
10 to 14 years	81,539	56,147	11,521	4,055	9,816
15 to 19 years	85,994	60,344	12,089	4,146	9,415
20 to 24 years	95,829	73,203	10,833	3,472	8,321
25 to 29 years	97,302	71,667	11,290	4,161	10,184
30 to 34 years	88,031	62,779	10,935	3,980	10,337
35 to 39 years	86,756	61,956	10,485	4,018	10,297
40 to 44 years	89,617	63,340	10,897	4,354	11,026
45 to 49 years	95,787	66,376	12,657	4,849	11,905
50 to 54 years	97,978	65,348	14,866	5,390	12,374
55 to 59 years	93,340	60,387	15,807	5,483	11,663
60 to 64 years	82,222	54,091	13,542	4,738	9,851
65 to 69 years	59,170	39,927	9,178	3,234	6,831
70 to 74 years	41,353	29,000	5,830	2,113	4,410
75 to 79 years	34,675	25,223	4,571	1,632	3,249
80 to 84 years	29,702	21,980	3,652	1,390	2,680
85 years or more	30,238	22,360	3,603	1,616	2,659
5 to 19	250,894	174,309	35,088	12,380	29,117
20 to 24	95,829	73,203	10,833	3,472	8,321
25 to 44	361,706	259,742	43,607	16,513	41,844
45 to 64	369,327	246,202	56,872	20,460	45,793
65 years and over	195,138	138,490	26,834	9,985	19,829
85 years and over	30,238	22,360	3,603	1,616	2,659
Median age	38.6	37.8	40.9	41.3	39.6

1/ Maui County includes Kalawao County.

Source: U.S. Census Bureau, 2010 Census "DP-1 - Profile of General 2010 Demographic Profile Data" (May 19, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 19, 2011; and 2010 Census Summary File 1 QT-P2 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 16, 2011; calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

Table 1.34-- RESIDENT POPULATION BY AGE, BY COUNTY: 2017

[As of July 1. Based on place of usual residence, regardless of physical location on the estimate or census date. Includes military personnel stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present. The 2017 estimates are provisional]

Age group	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
Total	1,427,538	988,650	200,381	72,159	166,348
Under 5 years	90,109	63,534	12,113	4,467	9,995
5 to 9 years	86,792	59,147	12,630	4,604	10,411
10 to 14 years	81,998	55,515	12,073	4,432	9,978
15 to 19 years	77,031	53,202	10,951	3,867	9,011
20 to 24 years	93,997	71,597	10,410	3,575	8,415
25 to 29 years	105,478	79,636	11,786	4,272	9,784
30 to 34 years	101,082	72,875	12,283	4,554	11,370
35 to 39 years	95,486	66,885	12,209	4,760	11,632
40 to 44 years	83,916	58,081	11,336	4,145	10,354
45 to 49 years	87,097	60,133	11,466	4,524	10,974
50 to 54 years	87,920	59,871	12,105	4,629	11,315
55 to 59 years	92,419	60,586	14,526	5,128	12,179
60 to 64 years	90,653	57,269	16,308	5,313	11,763
65 to 69 years	81,950	51,259	15,173	4,998	10,520
70 to 74 years	62,986	41,599	10,369	3,425	7,593
75 to 79 years	40,134	27,575	5,868	2,122	4,569
80 to 84 years	28,149	20,172	3,812	1,358	2,807
85 years or more	40,341	29,714	4,963	1,986	3,678
5 to 19	245,821	167,864	35,654	12,903	29,400
20 to 24	93,997	71,597	10,410	3,575	8,415
25 to 44	385,962	277,477	47,614	17,731	43,140
45 to 64	358,089	237,859	54,405	19,594	46,231
65 years and over	253,560	170,319	40,185	13,889	29,167
85 years and over	40,341	29,714	4,963	1,986	3,678
Median age	39.0	37.8	42.5	41.8	2/ 41.2

1/ Maui County includes Kalawao County.

2/ DBEDT calculation.

Source: U.S. Census Bureau, Population Division, "Annual Estimates of the Resident Population for Selected Age Groups by Sex for the United States, States, Counties, and Puerto Rico Commonwealth and Municipios: April 1, 2010 to July 1, 2017" (PEPAGESEX) (June 2017)

<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 21, 2018;

and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.35-- DIFFERENCE IN POPULATION BY MAJOR RACE: 2000 AND 2010

Subject	2000 Census		2010 Census		Race alone (difference between 2000 and 2010) 1/		Race alone or in combination (difference between 2000 and 2010) 2/	
	Race alone 1/	Race alone or in combination 2/	Race alone 1/	Race alone or in combination 2/	Number	Percent	Number	Percent
Total population	1,211,537	1,211,537	1,360,301	1,360,301	148,764	12.3	148,764	12.3
White	294,102	476,162	336,599	564,323	42,497	14.4	88,161	18.5
Black or African American	22,003	33,343	21,424	38,820	-579	-2.6	5,477	16.4
American Indian and Alaska Native	3,535	24,882	4,164	33,470	629	17.8	8,588	34.5
Asian	503,868	703,232	525,078	780,968	21,210	4.2	77,736	11.1
Native Hawaiian and Other Pacific Islander	113,539	282,667	135,422	355,816	21,883	19.3	73,149	25.9
Some other race	15,147	47,603	16,985	34,199	1,838	12.1	-13,404	-28.2

1/ One of the following six categories: (a) White, (b) Black or African American, (c) American Indian and Alaska Native, (d) Asian, (e) Native Hawaiian and Other Pacific Islander (f) Some other race. If a person selected two or more detailed races within the same major race category, the person is counted under the "race alone" category for that major race. For example, if a person selected Japanese and Chinese, they are counted under the Asian "race alone" category.

2/ Alone or in combination with one or more of the six categories listed in footnote 1. Numbers for the six categories may add to more than the total population, and the six percentages may add to more than 100 percent because individuals may be of more than one race. For example, a person indicating "American Indian and Alaska Native *and* Asian *and* Native Hawaiian and Other Pacific Islander" is included with American Indian and Alaska Native, with Asian, and with Native Hawaiian and Other Pacific Islander.

Source: U.S. Census Bureau, 2010 Census Redistricting Data (Public Law 94-171) Summary File (February 2011); calculations by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

Table 1.36-- RACE AND HISPANIC ORIGIN, BY COUNTY: 2010

Race and Hispanic origin	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
Total	1,360,301	953,207	185,079	67,091	154,924
One race	1,039,672	740,171	130,544	50,375	118,582
White	336,599	198,732	62,348	22,159	53,360
Black or African American	21,424	19,256	1,020	278	870
American Indian and Alaska Native	4,164	2,438	869	254	603
Asian 2/	525,078	418,410	41,050	21,016	44,602
Native Hawaiian and Other Pacific Islander 3/	135,422	90,878	22,389	6,060	16,095
Some other race	16,985	10,457	2,868	608	3,052
Two or more races	320,629	213,036	54,535	16,716	36,342
Race alone or in combination with one or more other races 4/					
White	564,323	350,690	101,344	34,166	78,123
Black or African American	38,820	32,780	2,975	789	2,276
American Indian and Alaska Native	33,470	20,482	7,210	1,876	3,902
Asian	780,968	590,926	82,944	34,270	72,828
Native Hawaiian and Other Pacific Islander	355,816	233,637	62,487	17,374	42,318
Some other race	34,199	21,915	5,450	1,574	5,260
Hispanic or Latino and race					
Hispanic or Latino (of any race)	120,842	77,433	21,383	6,315	15,711
Mexican	35,415	21,580	5,868	1,837	6,130
Puerto Rican	44,116	27,221	9,520	2,196	5,179
Cuban	1,544	1,078	237	63	166
Other Hispanic or Latino	39,767	27,554	5,758	2,219	4,236
Not Hispanic or Latino	1,239,459	875,774	163,696	60,776	139,213
White alone	309,343	181,684	57,831	20,611	49,217

1/ Maui County includes Kalawao County (Kalaupapa Settlement). Kalawao had 90 inhabitants in 2010.

2/ Includes persons selecting one race and it was an "Asian" race as well as persons selecting two or more races of which all were "Asian" races.

3/ Includes persons selecting one race and it was an "Native Hawaiian and Other Pacific Islander" race as well as persons selecting two or more races of which all were "Native Hawaiian and Other Pacific Islander" races.

4/ In combination with one or more of the other races listed. The six numbers may add to more than the total population because individuals may report more than one race.

Source: U.S. Census Bureau, 2010 Census Redistricting Data (Public Law 94-171) Summary File (February 2011) and 2010 Census "DP-1 - Profile of General 2010 Demographic Profile Data" (May 19, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 19, 2011.

Table 1.37-- RANKING OF SELECTED RACES: 2010

Race	Race alone 1/	Race	Race alone or in combination 2/
White	336,599	White	564,323
Filipino	197,497	Filipino	342,095
Japanese	185,502	Japanese	312,292
Native Hawaiian	80,337	Native Hawaiian	289,970
Chinese 3/	54,955	Chinese 3/	199,751
Korean	24,203	Korean	48,699
Black or African American	21,424	Black or African American	38,820
Samoan	18,287	Samoan	37,463
Vietnamese	9,779	American Indian and Alaska Native	33,470
Marshallese	6,316	Vietnamese	13,266
Tongan	4,830	Tongan	8,085
American Indian and Alaska Native	4,164	Marshallese	7,412
Guamanian or Chamorro	2,700	Guamanian or Chamorro	6,647
Asian Indian	2,201	Okinawan	6,642
Thai	2,006	Asian Indian	4,737
Okinawan	1,886	Thai	3,701
Laotian	1,844	Laotian	2,620
Chuukese	1,683	Chuukese	2,563
Palauan	729	Tahitian	2,513
Cambodian	464	Palauan	1,216
Indonesian	399	Indonesian	990
Pohnpeian	398	Pohnpeian	775
Fijian	282	Fijian	711
Kosraean	245	Cambodian	705
Tahitian	225	Tokelauan	547
Burmese	199	Kosraean	484
Sri Lankan	186	Pakistani	303
Pakistani	174	Malaysian	297
Yapese	129	Burmese	281
Nepalese	125	Yapese	260
Mongolian	109	Sri Lankan	231
Malaysian	86	Mongolian	197
Hmong	70	Nepalese	146
Bangladeshi	60	I-Kiribati	141
Bhutanese	7	Hmong	87
		Bangladeshi	74
		Bhutanese	13

Continued on next page.

Table 1.37-- RANKING OF SELECTED RACES: 2010 -- Con.

1/ People who chose only one race.

2/ People who chose only one race or those who have chosen two or more races. Numbers for the "race alone or in combination" column may add to more than the total population. For example, a person indicating "White *and* Japanese *and* Native Hawaiian" is included in the White, Japanese, and Native Hawaiian race categories.

3/ Includes people who chose "Chinese" or "Taiwanese" as well as people who chose both "Chinese" and "Taiwanese". The figures presented include 898 Taiwanese in the "race alone" group and 1,161 Taiwanese in the "race alone or in combination" group.

Source: U.S. Census Bureau, 2010 Census Summary File 1 Hawaii (June 16, 2011)

<<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 16, 2011 and 2010 Census Summary File 2 Hawaii (March 1, 2012) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 1, 2012.

Table 1.38-- RANKING OF SELECTED RACES: 2012-2016

[Based on a sample and subject to sampling variability. Figures displayed describes the average characteristics of people living in Hawaii between the years 2012 and 2016]

Race	Race alone 1/	Margin of error 2/	Race	Race alone or in combination 3/	Margin of error 2/
White	353,643	+/-1,748	White	603,260	+/-4,692
Filipino	209,323	+/-4,982	Filipino	360,563	+/-4,799
Japanese	181,998	+/-2,674	Japanese	315,834	+/-4,500
Native Hawaiian	90,054	+/-3,089	Native Hawaiian	303,558	+/-5,207
Chinese 4/	55,366	+/-1,862	Chinese 4/	197,826	+/-4,627
Black or African American	25,871	+/-823	Korean	47,713	+/-1,790
Korean	22,924	+/-1,348	Black or African American	46,376	+/-1,219
Samoa	15,472	+/-1,634	Samoa	35,237	+/-2,305
Vietnamese	10,766	+/-986	American Indian and Alaska Native	32,621	+/-1,553
Marshalllese	8,115	+/-1,706	Vietnamese	14,644	+/-1,171
Tongan	3,347	+/-792	Marshalllese	8,905	+/-1,744
Guamanian or Chamorro	2,866	+/-677	Okinawan	7,147	+/-837
American Indian and Alaska Native	2,715	+/-355	Guamanian or Chamorro	6,766	+/-1,115
Asian Indian	2,507	+/-465	Tongan	6,237	+/-970
Okinawan	2,131	+/-343	Asian Indian	4,698	+/-627
Laotian	2,059	+/-559	Thai	3,719	+/-659
Thai	1,928	+/-371	Laotian	3,128	+/-751
Indonesian	507	+/-160	Indonesian	1,218	+/-281
Cambodian	486	+/-221	Cambodian	892	+/-409
Nepalese	290	+/-158	Fijian	373	+/-161
Sri Lankan	203	+/-129	Pakistani	340	+/-194
Burmese	178	+/-108	Nepalese	326	+/-159
Mongolian	171	+/-160	Sri Lankan	264	+/-177
Fijian	165	+/-109	Burmese	241	+/-149
Pakistani	118	+/-95	Mongolian	235	+/-175
Hmong	58	+/-55	Bangladeshi	164	+/-177
Bangladeshi	56	+/-65	Malaysian	111	+/-62
Malaysian	22	+/-20	Hmong	58	+/-55

Continued on next page.

Table 1.38-- RANKING OF SELECTED RACES: 2012-2016 -- Con.

1/ People who chose only one race.

2/ Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. Caution should be taken, however, when using estimates which have large margin of errors because their reliability may be questionable. In addition to sampling variability, the estimates are subject to nonsampling error. The effect of nonsampling error is not represented in these tables.

3/ People who chose only one race or those who have chosen two or more races. Numbers for the "race alone or in combination" column may add to more than the total population. For example, a person indicating "White *and* Japanese *and* Native Hawaiian" is included in the White, Japanese, and Native Hawaiian race categories.

4/ Includes people who chose "Chinese" or "Taiwanese" as well as people who chose both "Chinese" and "Taiwanese". The figures presented include 721 Taiwanese in the "race alone" group and 922 Taiwanese in the "race alone or in combination" group.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates
<<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 29, 2018.

**Table 1.39-- DIFFERENCE IN POPULATION BY SELECTED
DETAILED ASIAN RACE: 2000 AND 2010**

Subject	2000 Census		2010 Census		Difference between 2000 and 2010			
	Race alone 1/	Race alone or in combina- tion 2/	Race alone 1/	Race alone or in combina- tion 2/	Race alone		Race alone or in combination	
					Numer- ical differ- ence	Per- cent differ- ence	Numer- ical differ- ence	Per- cent differ- ence
Total population	952,194	1,211,537	1,039,672	1,360,301	87,478	9.2	148,764	12.3
Total Asian population	3/ 469,180	814,181	3/ 482,873	941,039	13,693	2.9	126,858	15.6
Filipino	170,635	275,728	197,497	342,095	26,862	15.7	66,367	24.1
Japanese	201,764	296,674	185,502	312,292	-16,262	-8.1	15,618	5.3
Chinese 4/	55,823	169,747	53,963	198,711	-1,860	-3.3	28,964	17.1
Korean	23,537	41,352	24,203	48,699	666	2.8	7,347	17.8
Vietnamese	7,867	10,040	9,779	13,266	1,912	24.3	3,226	32.1
Asian Indian	1,441	3,145	2,201	4,737	760	52.7	1,592	50.6
Thai	1,259	2,284	2,006	3,701	747	59.3	1,417	62.0
Laotian	1,842	2,437	1,844	2,620	2	0.1	183	7.5
Taiwanese	777	1,056	898	1,161	121	15.6	105	9.9
Cambodian	235	330	464	705	229	97.4	375	113.6
Indonesian	292	709	399	990	107	36.6	281	39.6

1/ People who chose only one race and it was an "Asian" race. An "Asian" is a person having origins in any of the original peoples of the Far East, Southeast Asia or the Indian subcontinent.

2/ People who chose only one race or people who have chosen two or more races, one of which is an "Asian" race. Numbers for the detailed Asian race groups may add to more than the total Asian population, and the percentages may add to more than 100 percent because individuals may be of more than one detailed Asian race. For example, a person indicating "Filipino and Japanese and Laotian" is included with the Filipino, Japanese and Laotian categories.

3/ Does not match "Asian" total for five major races found in Table 1.33 due to the difference in counting methodology.

4/ Excludes Taiwanese.

Source: U.S. Census Bureau, Census 2000 Summary File 1 Hawaii (July 25, 2001) and 2010 Census Summary File 1 (June 16, 2011); calculations by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

**Table 1.40-- DIFFERENCE IN POPULATION BY SELECTED DETAILED
NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER RACE: 2000 AND 2010**

Subject	2000 Census		2010 Census		Difference between 2000 and 2010			
	Race alone 1/	Race alone or in combina- tion 2/	Race alone 1/	Race alone or in combina- tion 2/	Race alone		Race alone or in combination	
					Numer- ical differ- ence	Per- cent differ- ence	Numer- ical differ- ence	Per- cent differ- ence
Total population	952,194	1,211,537	1,039,672	1,360,301	87,478	9.2	148,764	12.3
Total Native Hawaiian and Other Pacific Islander population	3/110,151	295,030	3/129,779	377,587	19,628	17.8	82,557	28.0
Native Hawaiian	80,137	239,655	80,337	289,970	200	0.2	50,315	21.0
Samoaan	16,166	28,184	18,287	37,463	2,121	13.1	9,279	32.9
Tongan	3,993	5,988	4,830	8,085	837	21.0	2,097	35.0
Guamanian or Chamorro	1,663	4,221	2,700	6,647	1,037	62.4	2,426	57.5
Fijian	214	459	282	711	68	31.8	252	54.9

1/ People who chose only one race and it was a "Native Hawaiian and Other Pacific Islander" race. A "Native Hawaiian and Other Pacific Islander" is a person having origins in any of the original peoples of the Hawaii, Guam, Samoa, or other Pacific Islands.

2/ People who chose only one race or those who have chosen two or more races, one of which is a "Native Hawaiian and Other Pacific Islander" (NHOPI) race. Numbers for detailed NHOPI race groups may add to more than the total NHOPI population, and the percentages may add to more than 100% because individuals may be of more than one detailed NHOPI race, e.g., a person indicating "Native Hawaiian *and* Samoaan *and* Chamorro" is included with the Native Hawaiian, Samoaan and Chamorro categories.

3/ Does not match the "Native Hawaiian and Other Pacific Islander" total for five major races in Table 1.36 due to the difference in counting methodology.

Source: U.S. Census Bureau, Census 2000 Summary File 1 Hawaii (July 25, 2001) and 2010 Census Summary File 1 (June 16, 2011); calculations by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

Table 1.41-- ETHNIC STOCK BY COUNTY: 2012

[Sample survey consisted of 11,904 people. Data were weighted based on the 2010 Census data]

Ethnic stock 1/	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,392,313	976,444	189,206	68,438	158,224
Unmixed (except Hawaiian)	717,503	509,948	90,640	36,956	79,960
Caucasian	258,484	143,896	54,191	17,792	42,607
Black	4,906	(2/)	(2/)	(2/)	(2/)
Japanese	241,007	207,065	16,528	5,945	11,469
Chinese	47,378	45,182	348	476	1,372
Filipino	145,398	92,091	17,956	12,662	22,689
Korean	12,004	11,076	(2/)	(2/)	495
Samoan/Tongan	8,327	(2/)	(2/)	(2/)	(2/)
Mixed (except Hawaiian) 3/	351,587	254,806	48,385	14,601	33,794
Hawaiian/part Hawaiian	323,223	211,690	50,181	16,881	44,471

1/ Ethnicity is based on the ethnicity of the father and mother (four possible listings for each parent). Definitions used in this table differ from those in reports by the U.S. Census Bureau. In the 1980 and 1990 census tabulations, a person's ethnicity was determined by self-identification or by the race of the mother, thus mixed race was not a separate category. For the Census 2000 and the 2010 Census, people were allowed to select more than one race.

2/ Total sample size for the group was less than 50 or the county had a cell with zero sampled so data was suppressed.

3/ Includes other ethnicities not listed, don't know, refused or missing (57,800). The figure shown is the weighted figure.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, special tabulation from the Hawaii Health Survey.

**Table 1.42-- NATIVE HAWAIIANS LIVING IN HAWAII OR OTHER STATES:
2000 AND 2010**

Place of residence	2000 Census		2010 Census		Percent change between 2000 and 2010	
	Race alone 1/	Race alone or in combination 2/	Race alone 1/	Race alone or in combination 2/	Race alone 1/	Race alone or in combination 2/
Native Hawaiians in U.S.	140,652	401,162	156,146	527,077	11.0	31.4
Living in Hawaii	80,137	239,655	80,337	289,970	0.2	21.0
Living in selected other states	49,334	133,333	61,796	194,499	25.3	45.9
California	20,571	60,048	21,423	74,932	4.1	24.8
Washington	4,883	13,507	5,861	19,863	20.0	47.1
Nevada	3,471	8,264	6,459	16,339	86.1	97.7
Texas	3,475	7,775	4,794	13,192	38.0	69.7
Oregon	2,244	6,366	3,060	9,719	36.4	52.7
Arizona	1,985	4,906	3,837	9,549	93.3	94.6
Florida	2,131	5,285	2,809	8,023	31.8	51.8
Utah	1,251	3,642	1,911	6,525	52.8	79.2
Colorado	1,435	3,990	1,783	5,670	24.3	42.1
New York	1,684	3,758	1,802	5,108	7.0	35.9
Virginia	1,023	2,795	1,410	4,699	37.8	68.1
North Carolina	932	2,390	1,389	4,182	49.0	75.0
Georgia	866	2,183	1,319	3,976	52.3	82.1
Illinois	1,003	2,506	1,122	3,636	11.9	45.1
Pennsylvania	897	2,051	940	3,043	4.8	48.4
Ohio	788	1,989	928	3,037	17.8	52.7
Alaska	695	1,878	949	3,006	36.5	60.1
Remainder of the states in the U.S.	11,181	28,174	14,013	42,608	25.3	51.2

1/ People who chose only one race and it was "Native Hawaiian".

2/ People who chose only one race or those who have chosen two or more races, one of which is a "Native Hawaiian". Numbers for race groups may add to more than the total population because individuals may be of more than one race, i.e., a person indicating "Native Hawaiian and Samoan and Chinese" is included with the Native Hawaiian, Samoan and Chinese categories.

Source: U.S. Bureau of the Census, Census 2000 Summary File 1 Hawaii (July 25, 2001) and 2010 Census SF1 100% Data <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed November 3, 2011.

Table 1.43-- SELECTED ANCESTRY: 2012-2016

[Ancestry refers to a person's self-identification of heritage, ethnic origin, descent, or close identification to an ethnic group. People reported each of their ancestries. Therefore, some people may be counted more than once in this table. Based on a sample and subject to sampling variability. Figures displayed are the average values over the 5-year period of 2012 to 2016]

Ancestry group 1/	Number	Percent of total population
Total	2/ 1,413,673	(3/)
German	83,481	5.9
Irish	63,072	4.5
English	55,285	3.9
Portuguese	48,634	3.4
Italian	30,648	2.2
American	20,380	1.4
French (except Basque)	17,991	1.3
Scottish	15,388	1.1
Polish	12,380	0.9
European	12,272	0.9
Norwegian	10,744	0.8
Swedish	9,498	0.7
Dutch	8,783	0.6
Scotch-Irish	6,858	0.5
Russian	5,749	0.4
Danish	3,787	0.3
Welsh	3,666	0.3
British	3,493	0.2
Hungarian	2,929	0.2
Subsaharan African	2,783	0.2
French Canadian	2,715	0.2
Greek	2,500	0.2
Czech	2,361	0.2
Swiss	2,344	0.2
West Indian (except Hispanic groups)	2,236	0.2
Arab	2,194	0.2
Scandinavian	2,103	0.1

1/ Ancestry groups containing 2,000 or more people. The categories of "Other groups" and "Unclassified or not reported" were not a part of this ranking even though they contained more than 2,000 people.

2/ People were allowed to choose more than one ancestry. The total population count for the State of Hawaii was 1,413,673 persons. From this group, there were a total of 1,629,990 ancestry responses.

3/ The sum of all categories was more than 100% because people were allowed to choose more than one ancestry.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, B04006 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 16, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.44-- PLACE OF BIRTH AND CITIZENSHIP: 2012-2016

[Based on a sample and subject to sampling variability. Figures displayed are the average values over the 5-year period of 2012 to 2016]

Place of birth and citizenship	Number	Percent
Total population	1,413,673	100.0
Native	1,160,122	82.1
Born in Hawaii	763,067	54.0
Born in other state in the U.S.	352,928	25.0
Northeast	54,371	3.8
Midwest	65,719	4.6
South	83,408	5.9
West	149,430	10.6
Born outside United States	44,127	3.1
Puerto Rico	1,602	0.1
U.S. Island Areas	12,354	0.9
Born abroad of American parent(s)	30,171	2.1
Foreign born	253,551	17.9
Naturalized U.S. citizen	143,830	10.2
Not a U.S. citizen	109,721	7.8
18 years and over	1,105,457	100.0
Native	867,049	78.4
Foreign born	238,408	21.6
Naturalized U.S. citizen	139,678	12.6
Not a U.S. citizen	98,730	8.9

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, Tables B05002 and B05003 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 7, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.45-- RANKING OF PLACE OF BIRTH FOR
FOREIGN-BORN PERSONS: 2011-2015**

[Excludes population born at sea. Figures displayed describes the average characteristics of people living in Hawaii between the years 2011 and 2015. Based on a sample and subject to sampling variability]

Rank 1/	Place of birth	Number 2/	Percent of total
	Total	249,319	100.0
1	Philippines	113,175	45.4
2	Japan	23,146	9.3
3	China, excluding Hong Kong and Taiwan	18,358	7.4
4	Korea	16,480	6.6
5	Vietnam	9,506	3.8
6	Mexico	5,235	2.1
7	Canada	4,190	1.7
8	Hong Kong	3,565	1.4
9	Taiwan	3,083	1.2
10	Germany	2,946	1.2
11	Thailand	1,939	0.8
12	Laos	1,629	0.7
13	Brazil	1,307	0.5
14	India	1,256	0.5

1/ An estimate from a sample may vary from the actual population value had the entire population been surveyed. Testing statistical uncertainty allows data users to compare estimates to each other and determine whether they may conclude that the perceived difference is simply due to chance or that two estimates are different from each other. Statistical testing at a specified level, such as the 90% confidence level, allows users to assess whether areas are not statistically significantly different from each other at that level. Margins of errors needed to do this testing may be found in the source data.

2/ Place of birth areas with 1,000 or more of the foreign-born population from that specific area.

Source: U.S. Census Bureau, 2011-2015 ACS 5-Year Selected Population Tables "B05006 Place of Birth for the Foreign-born Population in the United States" (July 2017) <<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.46-- LANGUAGE SPOKEN AT HOME BY ABILITY TO SPEAK ENGLISH, BY AGE: 2012-2016

[Persons 5 years old and over. The 2012-2016 ACS 5-year dataset that was used describes the average characteristics of people living in Hawaii between the years 2012 and 2016. Based on a sample and subject to sampling variability]

Language spoken at home	Total	5 to 17 years	18 to 64 years	65 years and over
Total	1,322,028	216,571	877,843	227,614
Speak English only	982,489	173,718	647,075	161,696
Spanish	25,854	4,169	19,913	1,772
Speak English "very well"	18,077	3,094	13,755	1,228
Speak English "well"	5,875	946	4,553	376
Speak English less than "well"	1,902	129	1,605	168
Other Indo-European 1/	15,693	1,909	10,796	2,988
Speak English "very well"	12,250	1,431	8,524	2,295
Speak English "well"	2,817	457	1,812	548
Speak English less than "well"	626	21	460	145
Asian and Pacific Island 2/	292,331	36,242	195,754	60,335
Speak English "very well"	137,620	23,688	94,564	19,368
Speak English "well"	94,735	9,714	66,583	18,438
Speak English less than "well"	59,976	2,840	34,607	22,529
Other	5,661	533	4,305	823
Speak English "very well"	4,643	383	3,665	595
Speak English "well"	800	117	543	140
Speak English less than "well"	218	33	97	88

1/ Includes French (incl. Cajun), Haitian, Italian, Portugese, German, Yiddish, Pennsylvania Dutch or other West Germanic languages, Greek, Russian, Polish, Serbo-Croatian, Ukrainian or other Slavic languages, Armenian, Persian incl. Farsi, Dari), Gujarati, Hindi, Urdu, Punjabi, Bengali, Nepali, Marathi or other Indic languages, Telugu, Tamil, Malayalam, Kanada or other Dravidian languages and other Indo-European languages.

2/ Includes Chinese (incl. Mandarin, Cantonese), Japanese, Korean, Hmong, Vietnamese, Kmer, Thai, Lao, or other Tai-Kadai languages, Tagalog (incl. Filipino), Ilocano, Samoan, Hawaiian, or other Austronesian languages, and other languages of Asia.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, B16004 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 16, 2018 and American Community Survey and Puerto Rico Community Survey Subject Definitions; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.47-- LANGUAGE SPOKEN AT HOME, BY COUNTY: 2011-2015

[Persons 5 years old and over. The 2011-2015 ACS 5-year dataset that was used describes the average characteristics of people living in Hawaii between the years 2011 and 2015. Based on a sample and subject to sampling variability]

Language spoken at home 1/	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 2/
Total	1,315,242	919,700	179,519	65,159	150,864
Speak only English	983,565	667,508	146,822	51,197	118,038
Spanish or Spanish Creole	25,776	16,899	3,939	1,040	3,898
French (incl. Patois, Cajun)	3,340	2,149	313	242	636
French Creole	113	106	-	7	-
Italian	643	459	10	38	136
Portuguese or Portuguese Creole	2,048	1,400	296	45	307
German	3,782	2,525	383	408	466
Yiddish	40	2	35	3	-
Other West Germanic languages	284	186	48	35	15
Scandinavian languages	689	426	101	19	143
Greek	134	100	3	16	15
Russian	1,124	708	273	101	42
Polish	494	351	87	46	10
Serbo-Croatian	250	222	13	15	-
Other Slavic languages	702	464	99	25	114
Armenian	17	17	-	-	-
Persian	715	568	53	-	94
Gujarati	19	13	-	6	-
Hindi	543	401	57	42	43
Urdu	44	40	4	-	-
Other Indic languages	561	502	5	2	52
Other Indo-European languages	1,912	1,182	496	134	100
Chinese	32,758	31,120	608	592	438
Japanese	45,190	38,133	3,865	971	2,221
Korean	18,337	16,485	1,147	286	419
Mon-Khmer, Cambodian	196	112	84	-	-
Hmong	41	41	-	-	-
Thai	1,815	1,457	126	129	103
Laotian	1,999	1,943	22	-	34
Vietnamese	9,389	8,772	215	70	332
Other Asian languages	1,011	849	66	4	92
Tagalog	59,627	45,389	5,078	2,971	6,189
Other Pacific Island languages	115,208	76,932	15,021	6,594	16,661
Navajo	48	38	-	-	10
Other Native North American languages	967	904	45	-	18

Continued on next page.

Table 1.47-- LANGUAGE SPOKEN AT HOME, BY COUNTY: 2011-2015 -- Con.

Language spoken at home 1/	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 2/
Hungarian	129	106	3	8	12
Arabic	472	297	95	-	80
Hebrew	433	220	34	70	109
African languages	580	546	11	4	19
Other and unspecified languages	247	128	62	39	18

1/ All data based on samples include a range of uncertainty. Margin of errors may be utilized regarding this uncertainty for the estimates in the above table and are available from the data source. Also, methodological changes to data collection in 2013 may have affected language data for 2013. Users should be aware of these changes when using multi-year data such as this one which contains data from 2013.

2/ Maui County includes Kalawao County.

Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, B16001
 <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed January 13, 2017.

Table 1.48-- LANGUAGE SPOKEN AT HOME, BY EDUCATIONAL ATTAINMENT AND EMPLOYMENT STATUS: 2012-2016

[Persons 25 years old and over. The 2012-2016 ACS 5-year dataset that was used describes the average characteristics of people living in Hawaii between the years 2012 and 2016. Based on a sample and subject to sampling variability]

Subject	Language spoken at home				
	Only English	Spanish	Other Indo-European 1/	Asian and Pacific Island 2/	Other languages
Total	705,384	17,770	12,434	232,825	4,532
Educational attainment					
Less than high school graduate	36,299	1,942	553	45,732	417
High school graduate 3/	195,633	3,911	2,032	67,860	1,147
Some college/associate's degree	235,846	6,758	3,034	64,909	1,671
Bachelor's degree or higher	237,606	5,159	6,815	54,324	1,297
Employment status					
In labor force	467,799	12,609	7,710	149,732	3,093
Not in labor force	237,585	5,161	4,724	83,093	1,439
In percent					
Educational attainment					
Less than high school graduate	5.1	10.9	4.4	19.6	9.2
High school graduate 3/	27.7	22.0	16.3	29.1	25.3
Some college/associate's degree	33.4	38.0	24.4	27.9	36.9
Bachelor's degree or higher	33.7	29.0	54.8	23.3	28.6
Employment status					
In labor force	66.3	71.0	62.0	64.3	68.2
Not in labor force	33.7	29.0	38.0	35.7	31.8

1/ Includes French (incl. Cajun), Haitian, Italian, Portuguese, German, Yiddish, Pennsylvania Dutch or other West Germanic languages, Greek, Russian, Polish, Serbo-Croatian, Ukrainian or other Slavic languages, Armenian, Persian incl. Farsi, Dari), Gujarati, Hindi, Urdu, Punjabi, Bengali, Nepali, Marathi or other Indic languages, Telugu, Tamil, Malayalam, Kanada or other Dravidian languages and other Indo-European languages.

2/ Includes Chinese (incl. Mandarin, Cantonese), Japanese, Korean, Hmong, Vietnamese, Kmer, Thai, Lao, or other Tai-Kadai languages, Tagalog (incl. Filipino), Ilocano, Samoan, Hawaiian, or other Austronesian languages, and other languages of Asia.

3/ Includes equivalency.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, B16010 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 16, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.49-- RANKING OF SELECTED DETAILED LANGUAGE
SPOKEN AT HOME: 2012-2016**

[Persons 5 years old and over. Based on a tabulation from the 2012-2016 ACS 5-year dataset which included 42 language other than English spoken at home categories. Figures displayed describes the average characteristics of people living in Hawaii between the years 2012 and 2016. Based on a sample and subject to sampling variability]

Language spoken at home 1/ 2/	Total	Speak English "very well"	Speak English less than "very well"
Total	1,322,028	(X)	(X)
Spoke only English at home	982,489	(X)	(X)
Spoke a language other than English at home	339,539	172,590	166,949
Ilocano, Samoan, Hawaiian, or other Austronesian languages	121,924	61,322	60,602
Tagalog (incl. Filipino)	60,202	29,244	30,958
Japanese	45,204	24,124	21,080
Chinese (incl. Mandarin, Cantonese)	31,901	11,639	20,262
Spanish	25,854	18,077	7,777
Korean	18,116	5,952	12,164
Vietnamese	10,108	3,023	7,085
German	3,650	3,014	636
Thai, Lao, or other Tai-Kadai languages	3,610	1,454	2,156
Other and unspecified languages	3,592	3,171	421
French (incl. Cajun)	3,377	2,883	494
Portuguese	1,962	1,656	306
Russian	1,006	618	388
Italian	915	673	242
Other Indo-European languages	868	718	150
Ukrainian or other Slavic languages	682	434	248
Arabic	628	510	118
Hindi	583	398	185
Nepali, Marathi, or other Indic languages	579	365	214
Hebrew	542	466	76
Polish	535	447	88
Other languages of Asia	461	210	251
Persian (incl. Farsi, Dari)	458	227	231
Khmer	362	313	49
Yoruba, Twi, Igbo, or other languages of Western Africa	349	258	91
Yiddish, Pennsylvania Dutch or other West Germanic languages	336	295	41
Telugu	285	192	93

Continued on next page.

**Table 1.49-- RANKING OF SELECTED DETAILED LANGUAGE
SPOKEN AT HOME: 2012-2016 -- Con.**

Language spoken at home 1/ 2/	Total	Speak English "very well"	Speak English less than "very well"
Spoke a language other than English at home (con.)			
Other Native languages of North America	242	137	105
Serbo-Croatian	207	141	66
Amharic, Somali, or other Afro-Asiatic languages	132	18	114
Greek	131	89	42
Swahili or other languages of Central, Eastern, and Southern Africa	125	55	70
Tamil	122	122	-
Haitian	116	88	28
Bengali	110	81	29
Gujarati	59	46	13
Armenian	58	43	15
Navajo	51	28	23
Punjabi	36	9	27
Hmong	32	21	11
Urdu	25	25	-
Malayalam, Kannada, or other Dravidian languages	4	4	-

X Not applicable.

1/ All data based on samples include a range of uncertainty. Margin of errors may be utilized regarding this uncertainty for the estimates in the above table and are available from the data source. Also, methodological changes to data collection in 2013 may have affected language data for 2013. Users should be aware of these changes when using multi-year data such as this one which contains data from 2013.

2/ Beginning with 2016 1-year and 2012-2016 5-year American Community Survey (ACS) data, coding of specific languages reflects languages in accordance with the International Organization for Standardization's ISO-639-3 standard.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, B16001 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 16, 2018; "Note for Language Spoken at Home from the 2016 American Community Survey" <https://www.census.gov/content/dam/Census/programs-surveys/acs/tech-doc/user-notes/2016_Language_User_Note.pdf> accessed May 18, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.50-- TOP 25 DETAILED LANGUAGES OTHER THAN ENGLISH SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH: 2009-2013

[Persons 5 years old and over. Based on a special tabulation of the 2009-2013 ACS 5-year dataset which included 130 detailed languages spoken in Hawaii. Figures displayed describes the average characteristics of people living in Hawaii between the years 2009 and 2013. Based on a sample and subject to sampling variability]

Rank	Language other than English spoken at home 1/	Number of speakers	Percent of total speakers	Speak English less than "very well"	Percent speak English less than "very well"
	State total	326,893	25.4	159,497	48.8
1	Tagalog	58,345	17.8	30,147	51.7
2	Ilocano	54,005	16.5	33,085	61.3
3	Japanese	45,633	14.0	21,262	46.6
4	Spanish	25,490	7.8	7,010	27.5
5	Hawaiian	18,610	5.7	3,010	16.2
6	Chinese	17,360	5.3	10,450	60.2
7	Korean	17,276	5.3	11,713	67.8
8	Samoan	12,795	3.9	4,400	34.4
9	Vietnamese	9,418	2.9	6,686	71.0
10	Cantonese	7,890	2.4	5,375	68.1
11	Marshallese	6,930	2.1	3,840	55.4
12	Mandarin	5,650	1.7	3,705	65.6
13	German	4,615	1.4	825	17.9
14	Trukese	4,475	1.4	3,410	76.2
15	French	4,405	1.3	715	16.2
16	Micronesian	3,965	1.2	2,210	55.7
17	Tongan	3,860	1.2	1,515	39.2
18	Bisayan	3,005	0.9	1,640	54.6
19	Laotian	2,279	0.7	1,462	64.2
20	Thai	1,920	0.6	1,045	54.4
21	Portuguese	1,915	0.6	320	16.7
22	Pidgin	1,275	0.4	185	14.5
23	Russian	1,169	0.4	347	29.7
24	Indonesian	880	0.3	570	64.8
25	Chamorro	820	0.3	235	28.7

1/ All data based on samples include a range of uncertainty. Margin of errors may be utilized regarding this uncertainty for the estimates in the above table and are available from the data source. Also, methodological changes to data collection in 2013 may have affected language data for 2013. Users should be aware of these changes when using multi-year data such as this one which contains data from 2013.

Source: U.S. Census Bureau, "Detailed Languages Spoken at Home and Ability to Speak English for the Population 5 Years and Over: 2009-2013" (October 2015) <<https://www.census.gov/data/tables/2013/demo/2009-2013-lang-tables.html>> and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.51-- HOUSEHOLD TYPE AND RELATIONSHIP, BY COUNTY: 2010

Household type and relationship	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
Total persons	1,360,301	953,207	185,079	67,091	154,924
In households	1,317,421	917,907	181,435	65,930	152,149
Householder	455,338	311,047	67,096	23,240	53,955
Spouse	230,076	161,172	31,834	11,654	25,416
Child	362,370	256,609	47,628	17,807	40,326
Own child under 18 years	230,892	159,209	32,560	11,505	27,618
Other relatives	167,820	122,729	19,123	7,770	18,198
Under 18 years	63,047	44,763	8,137	3,195	6,952
Nonrelatives	101,817	66,350	15,754	5,459	14,254
Under 18 years	7,174	4,543	1,217	431	983
65 years and over	7,634	5,428	1,053	333	820
Unmarried partner	33,068	19,169	6,627	2,049	5,223
In group quarters	42,880	35,300	3,644	1,161	2,775
Institutionalized population	11,306	7,658	1,563	628	1,457
Noninstitutionalized population	31,574	27,642	2,081	533	1,318
Total households	455,338	311,047	67,096	23,240	53,955
Family households (families)	313,907	217,842	44,407	16,147	35,511
With own children under 18 years	126,155	87,203	17,296	6,368	15,288
Husband-wife family	230,076	161,172	31,834	11,654	25,416
With own children under 18 years	91,610	65,995	11,141	4,289	10,185
Male householder, no wife present	26,590	17,235	4,315	1,569	3,471
With own children under 18 years	10,737	6,181	2,101	779	1,676
Female householder, no husband present	57,241	39,435	8,258	2,924	6,624
With own children under 18 years	23,808	15,027	4,054	1,300	3,427
Nonfamily households	141,431	93,205	22,689	7,093	18,444
Householder living alone	106,175	70,916	16,843	5,255	13,161
Male	51,465	33,882	8,593	2,493	6,497
65 years and over	12,371	8,103	2,197	655	1,416
Female	54,710	37,034	8,250	2,762	6,664
65 years and over	24,603	16,870	3,690	1,370	2,673
Households with individuals					
Under 18 years	156,045	108,131	21,340	7,989	18,585
65 years and over	137,815	96,947	19,541	7,175	14,152
Average household size	2.89	2.95	2.70	2.84	2.82
Average family size	3.42	3.48	3.22	3.31	(NA)

NA Not available.

1/ Maui County includes Kalawao County.

Source: U.S. Census Bureau, 2010 Census "DP-1 - Hawaii Profile of General 2010 Demographic Profile Data" (May 19, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 19, 2011.

**Table 1.52-- HOUSEHOLDS, FAMILIES, AND GROUP QUARTERS:
1950 TO 2010**

Year	Households	Families	Persons in --			Average size	
			Households	Families	Group quarters	Households	Families
1950	111,858	96,460	463,230	(NA)	36,564	4.14	(NA)
1960	153,064	129,481	592,807	555,894	39,965	3.87	4.29
1970	203,088	170,358	730,095	678,343	38,466	3.59	3.98
1980	294,052	226,035	925,092	814,983	39,599	3.15	3.61
1990	356,268	263,456	1,070,607	915,783	37,632	3.01	3.48
2000	403,240	287,068	1,175,755	982,348	35,782	2.92	3.42
2010	455,338	313,907	1,317,421	1,074,173	42,880	2.89	3.42

NA Not available.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1950, General Characteristics, Hawaii*, P-B52 (1952), table 15; *U.S. Census of Population: 1960, General Population Characteristics, Hawaii*, PC (1)-13B, table 19; *1970 Census of Population, General Population Characteristics, Hawaii*, PC (1)-B13 (May 1971), table 22; *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21; *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 39; 2000 Census of Population and Housing, *Summary Population and Housing Characteristics Hawaii: 2000*; Census 2000 Summary File 1 Hawaii (July 25, 2001); U.S. Census Bureau, 2010 Census "DP-1 - Hawaii Profile of General 2010 Demographic Profile Data" (May 19, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 19, 2011 and 2010 Census Summary File 1 (June 16, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 17, 2011.

**Table 1.53-- HOUSEHOLDS AND HOUSEHOLD POPULATIONS:
2000 TO 2016**

[Data based on a sample. The American Community Survey had different sample designs and sample sizes for the years 2000 through 2004. From 2005 onward, it was at full sample size and design. Therefore, caution should be used when comparing data over this time period]

Date	Households	Population in households	Average household size
2000	386,824	1,175,755	3.04
2001	411,647	1,188,615	2.89
2002	415,479	1,208,537	2.91
2003	419,441	1,221,885	2.91
2004	427,673	1,227,008	2.87
2005	430,007	1,238,158	2.88
2006	432,632	1,247,951	2.88
2007	439,685	1,247,553	2.84
2008	437,105	1,253,999	2.87
2009	446,136	1,260,211	2.82
2010	445,812	1,320,741	2.96
2011	448,536	1,331,912	2.97
2012	447,748	1,348,497	3.01
2013	450,120	1,360,772	3.02
2014	450,769	1,375,345	3.05
2015	445,936	1,387,570	3.11
2016	455,868	1,384,270	3.04

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "DP02: Selected Social Characteristics in the United States - Hawaii" (annual)
<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed September 14, 2017.

**Table 1.54-- HOUSING UNITS, HOUSEHOLDS BY AGE, AND
PERSONS PER HOUSEHOLD: 2000 AND 2010**

Subject	April 1, 2000	April 1, 2010	Percent change
Total housing units	460,542	519,508	12.8
Households by age of householder, total	403,240	455,338	12.9
15 to 24 years	16,324	16,597	1.7
25 to 34 years	60,907	61,422	0.8
35 to 44 years	88,254	75,796	-14.1
45 to 54 years	89,742	93,993	4.7
55 to 64 years	57,934	94,650	63.4
65 years and over	90,079	112,880	25.3
65 to 74 years	47,296	57,317	21.2
75 to 84 years	33,957	38,401	13.1
85 years and over	8,826	17,162	94.4
Persons in households	1,175,755	1,317,421	12.0
Persons per household 1/	2.92	2.89	-1.0

1/ The U.S. average in 2010 was 2.58.

Source: U.S. Census Bureau, Census 2000 Summary File 1 Hawaii (July 25, 2001), 2010 Census DP-1 - Hawaii Profile of General 2010 Demographic Profile Data (May 19, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 19, 2011 and 2010 Census Summary File 1 (June 16, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 20, 2011.

**Table 1.55-- HOUSEHOLDS, POPULATION IN HOUSEHOLDS, AND
POPULATION PER HOUSEHOLD, BY COUNTY AND ISLAND:
2000 AND 2010**

County and island	Households		Population in households		Population per household	
	2000	2010	2000	2010	2000	2010
State total	403,240	455,338	1,175,755	1,317,421	2.92	2.89
County						
Hawaii	52,985	67,096	145,873	181,435	2.75	2.70
Maui 1/	43,622	53,955	126,840	152,149	2.91	2.82
Honolulu	286,450	311,047	845,211	917,907	2.95	2.95
Kauai	20,183	23,240	57,831	65,930	2.87	2.84
Island						
Hawaii	52,985	67,096	145,873	181,435	2.75	2.70
Maui	40,156	50,215	116,417	141,691	2.90	2.82
Lanai	1,161	1,158	3,182	3,135	2.74	2.71
Molokai	2,305	2,582	7,241	7,323	3.14	2.84
Oahu	286,450	311,047	845,211	917,907	2.95	2.95
Kauai	20,147	23,213	57,671	65,760	2.86	2.83
Niihau	36	27	160	170	4.44	6.30

1/ Maui County includes Kalawao County.

Source: U.S. Census Bureau, Census 2000 Summary File 1 Hawaii (July 25, 2001) and Census 2000 QT-P10 and QT-H3 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 28, 2011; U.S. Census Bureau, 2010 Census Redistricting Data (Public Law 94-171) Summary File (February 2011) and 2010 Census Advance Quarters Summary File (April 2011); calculations by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

**Table 1.56-- POPULATION IN GROUP QUARTERS, BY TYPE OF
GROUP QUARTER, BY COUNTY: 2010**

Type of group quarter	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
Total in group quarters	42,880	35,300	3,644	1,161	2,775
Institutionalized population 2/	11,306	7,658	1,563	628	1,457
Correctional facilities for adults	5,673	3,906	745	290	732
Federal detention centers	704	704	-	-	-
State prisons	4,548	3,049	478	289	732
Local jails 3/	12	12	-	-	-
Correctional residential facilities	382	114	267	1	-
Military disciplinary barracks/jails	27	27	-	-	-
Juvenile facilities	280	188	28	23	41
Group homes (non-correctional)	115	73	6	23	13
Residential treatment centers (non-correctional)	46	12	22	-	12
Correctional facilities intended for juveniles	119	103	-	-	16
Nursing facilities/skilled nursing facilities	5,198	3,425	776	315	682
Other institutional facilities	155	139	14	-	2
Mental 4/	71	60	9	-	2
In-patient hospice facilities	34	34	-	-	-
Military treatment facilities with assigned patients	27	27	-	-	-
Residential schools for people with disabilities	18	18	-	-	-
Noninstitutionalized population 5/	31,574	27,642	2,081	533	1,318
College/University student housing	7,540	6,716	824	-	-
Military quarters	12,551	12,551	-	-	-
Military barracks/dorms (non-disciplinary)	8,806	8,806	-	-	-
Military ships	3,745	3,745	-	-	-
Other noninstitutional facilities	11,483	8,375	1,257	533	1,318
Emergency/transitional shelter 6/	2,909	2,276	247	12	374
Group homes intended for adults	1,532	1,223	162	70	77
Residential treatment centers for adults	463	361	63	-	39
Maritime/merchant vessels	34	34	-	-	-
Workers' group living quarters and Job Corps centers	1,544	1,073	232	22	217
Other noninstitutional facilities	5,001	3,408	553	429	611

Continued on next page.

**Table 1.56-- POPULATION IN GROUP QUARTERS, BY TYPE OF
GROUP QUARTER, BY COUNTY: 2010 -- Con.**

1/ Maui County including Kalawao County (Kalaupapa Settlement). Kalawao County had 3 people living in group quarters.

2/ Includes people who are primarily ineligible, unable, or unlikely to participate in the labor force while residents in the group quarters facility.

3/ Includes other municipal confinement facilities.

4/ Psychiatric hospitals and psychiatric units in other hospitals.

5/ Includes people who are primarily eligible, able, or likely to participate in the labor force while residents in the group quarters facility.

6/ With sleeping facilities for people experiencing homelessness.

Source: U.S. Census Bureau, 2010 Census Summary File 1 (June 16, 2011)

<<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed July 8, 2011.

Table 1.57 -- SUBFAMILIES, BY COUNTY: 2012-2016

[Population in subfamilies. Based on a sample and subject to sampling variability. Figures displayed are the average values over the 5-year period of 2012 to 2016]

Subject 1/	State total 2/	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total	123,742	88,987	14,484	6,232	14,039
In married-couple subfamilies	70,866	53,467	6,938	2,806	7,655
Husband/wife in a childless subfamily	24,860	19,081	1,994	1,413	2,372
Husband/wife in a subfamily with children	24,733	18,304	2,926	816	2,687
Child	21,273	16,082	2,018	577	2,596
In mother-child subfamilies	39,401	27,039	4,974	2,572	4,816
Parent	16,123	10,892	2,143	1,013	2,075
Child	23,278	16,147	2,831	1,559	2,741
In father-child subfamilies	13,475	8,481	2,572	854	1,568
Parent	5,891	3,600	1,150	410	731
Child	7,584	4,881	1,422	444	837

1/ A subfamily is a married couple (husband and wife interviewed as members of the same household) with or without never-married children under 18 years old, or one parent with one or more never-married children under 18 years old. A subfamily does not maintain its own household, but lives in a household where the householder or householder's spouse is a relative.

2/ There was no population living in subfamilies in Kalawao County.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, B11014 <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 16, 2018.

Table 1.58-- MARITAL STATUS, BY SEX: 2012-2016

[Persons 15 years old and over. Based on a sample and subject to sampling variability.
Figures displayed are the average values over the 5-year period of 2012 to 2016]

Marital status	Total		Male		Female	
	Number	Percent	Number	Percent	Number	Percent
Total	1,153,522	100.0	576,052	100.0	577,470	100.0
Never married	382,365	33.1	215,658	37.4	166,707	28.9
Now married	590,407	51.2	297,443	51.6	292,964	50.7
Married, spouse present	519,461	45.0	262,661	45.6	256,800	44.5
Married, spouse absent	70,946	6.2	34,782	6.0	36,164	6.3
Separated	15,484	1.3	7,082	1.2	8,402	1.5
Other	55,462	4.8	27,700	4.8	27,762	4.8
Widowed	71,837	6.2	14,663	2.5	57,174	9.9
Divorced	108,913	9.4	48,288	8.4	60,625	10.5

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, B12001
<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 16, 2018; and
calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.59--SINGLE, WIDOWED, OR DIVORCED PERSONS BY SEX,
BY COUNTY: 2012-2016**

[Persons 15 years old and over. Based on a sample and subject to sampling variability.
Figures displayed are the average values over the 5-year period of 2012 to 2016]

County	Never married, widowed, or divorced				Never married			
	Total	Male	Female	Sex ratio 1/	Total	Male	Female	Sex ratio 1/
State total	563,115	278,609	284,506	97.9	382,365	215,658	166,707	129.4
Honolulu	391,299	194,629	196,670	99.0	271,494	154,117	117,377	131.3
Hawaii	79,683	38,994	40,689	95.8	51,465	28,428	23,037	123.4
Kauai	27,809	13,847	13,962	99.2	18,057	10,130	7,927	127.8
Maui 2/	64,324	31,139	33,185	93.8	41,349	22,983	18,366	125.1

1/ Males per 100 females.

2/ Maui County including Kalawao County.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, B12001
<<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 16, 2018;
and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.60-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION,
BY COUNTY: 2000 TO 2010**

[Data refer to ten year period ending March 31, 2010. For 1990-2000 estimates, see *Data Book 2009*, Table 1.59]

Component	State total	Honolulu	Hawaii	Kauai	Maui 1/
Net change	148,764	77,051	36,402	8,628	26,683
Natural increase	93,118	68,958	9,914	3,517	10,729
Live births	182,769	132,184	22,705	8,183	19,697
Deaths	89,651	63,226	12,791	4,666	8,968
Net migration 2/	55,646	8,093	26,488	5,111	15,954

1/ Maui County including Kalawao County.

2/ Residual based on net change less natural increase.

Source: U.S. Census Bureau, "Table 1. The Counties and the Most Populous Places in 2010 in Hawaii: 2000 and 2010" (February 24, 2011) <http://2010.census.gov/news/xls/cb11cn41_hi_2010redistr.xls> accessed February 24, 2011; Hawaii State Department of Health, Office of Health Status Monitoring; calculations by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

**Table 1.61-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION,
BY COUNTY: 2010 TO 2017**

Component	State total	Honolulu	Hawaii	Kauai	Maui 1/
Resident population					
April 1, 2010 (estimates base) 2/	1,360,301	953,209	185,076	67,091	154,925
July 1, 2017 (estimate)	1,427,538	988,650	200,381	72,159	166,348
Net change 3/	67,237	35,441	15,305	5,068	11,423
Resident births	135,275	97,140	17,477	6,343	14,315
Resident deaths	79,396	54,939	11,876	4,172	8,409
Foreign migrants (net) 4/	54,605	41,875	4,602	2,720	5,408
Domestic migrants (net) 5/	-42,456	-48,031	5,172	229	174

1/ Maui County including Kalawao County.

2/ The estimates are based on the 2010 Census and reflect changes to the April 1, 2010 population due to the Count Question Resolution program and geographic program revisions.

3/ Total population change includes a residual which is not shown in this table.

4/ Net international migration includes the international migration of both native and foreign-born populations. Specifically, it includes: (a) the net international migration of the foreign born, (b) the net migration between the United States and Puerto Rico, (c) the net migration of natives to and from the United States, and (d) the net movement of the Armed Forces population between the United States and overseas.

5/ Net of migration (a) to the State of Hawaii from other states (b) from the State of Hawaii to other states and (c) from one county to another county in the State of Hawaii. This migration figure includes the Armed Forces and their dependents. Excludes movement between Hawaii and Puerto Rico.

Source: U.S. Census Bureau, Population Division "Annual Estimates of the Resident Population: April 1, 2010 to July 1, 2017 (PEPANNRES)" and "Estimates of the Components of Resident Population Change: April 1, 2010 to July 1, 2017 (PEPTCOMP)" (released March 22, 2018)
<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 22, 2018.

**Table 1.62-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION,
BY MILITARY STATUS: 2010 TO 2015**

[Not comparable to tables in *Data Books* prior to 2004 because
of the recalculation of armed forces death data]

Period and component 1/	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
Net change	64,856	7,376	-570	58,050	11,057	100.0
Natural increase	45,461	-166	17,875	27,752	5,286	47.8
Live births	98,583	(X)	18,284	80,299	15,295	(X)
Deaths	53,122	166	409	52,547	10,009	(X)
Net mil. separations 2/	} 19,395	7,542	-18,445	30,298	5,771	52.2
Net migration 3/						

X Not applicable.

1/ April 1, 2010 to June 30, 2015.

2/ Separations less inductions for armed forces.

3/ Includes error of closure.

Source: Hawaii State Department of Business, Economic Development & Tourism, *State of Hawaii Data Book*, Table 1.03 and Table 2.02 (current edition); Department of Health, Office of Health Status Monitoring, records; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.63-- INTENDED DOMESTIC RESIDENTS TO HAWAII AND NEW INTERNATIONAL RESIDENTS ADMITTED TO HAWAII: 2001 TO 2016

Year	Total	Domestic	International 1/
2001	38,220	31,938	6,282
2002	49,494	44,016	5,478
2003	43,189	38,290	4,899
2004	47,472	41,067	6,405
2005	51,006	44,526	6,480
2006	54,441	46,942	7,499
2007	56,583	49,347	7,236
2008	52,679	46,107	6,572
2009	51,149	44,220	6,929
2010	53,624	46,587	7,037
2011	50,737	43,441	7,296
2012	50,846	44,082	6,764
2013	46,809	40,583	6,226
2014	47,556	41,815	5,741
2015	49,941	43,428	6,513
2016	(NA)	(NA)	6,285

NA Not available.

1/ The international counts were the number of people admitted to Hawaii as legal permanent residents.

Source: Hawaii State Department of Business, Economic Development & Tourism, Tourism Research Branch, records; Hawaii Tourism Authority, Tourism Research, records; U.S. Department of Homeland Security, Office of Immigration Statistics, *Yearbook of Immigration Statistics* (annual) data tables including supplemental tables <<https://www.dhs.gov/immigration-statistics/yearbook>> accessed May 29, 2018.

**Table 1.64-- LEGAL PERMANENT RESIDENTS, BY COUNTRY OF BIRTH:
2012 TO 2016**

[Fiscal year ending September 30. Data refer to persons admitted to the United States as an immigrant, reporting Hawaii as their State of intended permanent residence or who changed their status after entry. These immigrants have been granted lawful permanent residence and were called "immigrants" in previous *Data Books* tables. These persons are now called "legal permanent residents"]

Country of birth	2012	2013	2014	2015	2016
All countries	6,764	6,226	5,741	6,513	6,285
Brazil	48	32	31	56	59
Canada	103	94	80	102	76
China, People's Republic	764	560	544	487	618
Hong Kong	23	29	30	24	41
Japan	486	429	500	516	444
Korea 1/	215	219	224	247	208
Mexico	74	66	62	100	107
Philippines	4,037	3,761	3,156	3,805	3,533
Samoa	40	35	33	40	29
Taiwan	39	42	35	37	36
Thailand	75	102	145	132	92
Tonga	39	33	34	45	26
Vietnam	152	151	151	194	274
Other countries	669	673	716	728	2/ 742

1/ For the years 2011 through 2013 and 2015 through 2016, there were no legal permanent residents from North Korea. There were 5 legal permanent residents from North Korea in 2014.

2/ Includes legal permanent residents from the following countries: Russia, 26; United Kingdom, 39; Australia, 42; Germany, 42; and Nepal, 60. In addition, there are 200 more countries in this category which had less than 26 legal permanent residents or the data was withheld to limit disclosure.

Source: U.S. Immigration and Naturalization Service, Office of Policy and Planning, *Statistical Yearbook of the Immigration and Naturalization Service* (annual) and U.S. Department of Homeland Security, Office of Immigration Statistics, *Yearbook of Immigration Statistics* (annual) data tables including supplemental tables <<https://www.dhs.gov/immigration-statistics/yearbook>> accessed April 27, 2018.

Table 1.65-- PERSONS NATURALIZED, BY COUNTRY OF FORMER ALLEGIANCE: 1998 TO 2016

[Fiscal year ending September 30]

Year	All countries	China, People's Republic	Japan	Korea	Philippines	Taiwan	Vietnam	Other countries 1/
1998	4,493	299	(NA)	362	2,083	(NA)	419	1,330
1999	3,600	395	(NA)	332	1,542	53	304	974
2000	4,372	415	(NA)	431	1,813	92	346	1,275
2001	2,885	196	(NA)	296	1,280	73	161	879
2002	2,884	235	121	309	1,265	64	124	766
2003	2,287	157	132	243	943	26	75	711
2004	2,050	132	112	220	825	26	83	652
2005	4,663	448	313	563	1,893	86	235	1,125
2006	5,276	408	250	502	2,140	80	195	1,701
2007	4,521	370	209	492	2,061	50	207	1,132
2008	5,205	348	234	354	2,766	70	204	1,229
2009	3,744	279	161	262	1,652	61	173	1,156
2010	3,190	222	110	187	1,378	36	114	1,143
2011	3,450	258	156	189	1,644	42	127	1,034
2012	3,144	205	142	185	1,553	32	116	911
2013	3,494	216	168	205	1,790	51	137	927
2014	2,931	211	154	2/ 203	1,387	25	94	857
2015	3,698	253	166	2/ 194	1,877	32	149	1,027
2016	3,673	305	154	160	2,019	26	128	881

NA Not available.

1/ Japan figures for 1998 through 2001 and the Taiwan figure for 1998 were not available separately and are part of the "Other countries" category for those years.

2/ Data withheld for North Korea to limit disclosure.

Source: U.S. Immigration and Naturalization Service, Office of Policy and Planning, *Statistical Yearbook of the Immigration and Naturalization Service* (annual) and U.S. Department of Homeland Security, Office of Immigration Statistics, *Yearbook of Immigration Statistics* (annual) data tables including supplemental tables <<https://www.dhs.gov/immigration-statistics/yearbook>> accessed April 27, 2018.

Table 1.66-- IN-MIGRATION SUMMARY, BY COUNTY: 2016

[Persons 1 year old and over. Based on place of residence 1 year ago.
Also based on a sample and subject to sampling variability]

Movement status	State total 1/	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total population	1,410,258	978,289	196,558	71,243	164,073
Same house (nonmovers)	1,217,704	839,448	174,833	63,712	139,636
Total movers into the area 2/	192,554	138,841	21,725	7,531	24,437
Movers within the U.S.	175,123	127,256	20,898	6,365	20,584
Movers within the same county	109,709	80,379	12,736	3,451	13,143
In-migrants from one county within the state to another county within the state	8,185	3,795	890	775	2,705
In-migrants from a different state	57,229	43,082	7,272	2,139	4,736
Abroad	17,431	11,585	827	1,166	3,853
In percent					
Same house (nonmovers)	86.3	85.8	88.9	89.4	85.1
Total movers into the area 2/	13.7	14.2	11.1	10.6	14.9
Movers within the U.S.	12.4	13.0	10.6	8.9	12.5
Movers within the same county	7.8	8.2	6.5	4.8	8.0
In-migrants from one county within the state to another county within the state	0.6	0.4	0.5	1.1	1.6
In-migrants from a different state	4.1	4.4	3.7	3.0	2.9
Abroad	1.2	1.2	0.4	1.6	2.3

1/ Kalawao County is included in the state total, but is not shown separately.

2/ Includes movers within the state, in-migrants from another state, and movers from abroad.

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "DP02: Selected Social Characteristics in the United States" <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed September 22, 2017.

Table 1.67-- IN-MIGRATION SUMMARY, BY AGE: 2016

[Persons 1 year old and over. Based on place of residence 1 year ago.
Also based on a sample and subject to sampling variability]

Age	Total population	Same house (non-movers)	Movers				
			Total movers 1/	Within same county	Different county/ same state	Different state	From abroad
Total	1,410,258	1,217,704	192,554	109,709	8,185	57,229	17,431
1-4	72,423	60,834	11,589	6,780	154	4,022	633
5-17	217,043	186,568	30,475	16,947	937	10,256	2,335
18-19	30,816	24,976	5,840	2,599	517	1,725	999
20-24	99,039	77,631	21,408	9,785	1,250	8,462	1,911
25-29	105,218	79,128	26,090	14,900	860	8,682	1,648
30-34	100,626	81,277	19,349	12,112	881	4,950	1,406
35-39	91,650	74,205	17,445	8,820	796	5,802	2,027
40-44	87,689	73,737	13,952	8,780	710	3,142	1,320
45-49	87,377	78,894	8,483	5,097	574	1,470	1,342
50-54	90,271	80,838	9,433	5,322	765	2,459	887
55-59	91,868	84,855	7,013	4,025	93	1,787	1,108
60-64	92,697	85,487	7,210	4,928	194	1,390	698
65-69	84,987	79,679	5,308	3,330	60	1,518	400
70-74	53,916	51,074	2,842	1,962	-	560	320
75+	104,638	98,521	6,117	4,322	394	1,004	397

1/ Includes movers within the state, in-migrants from another state, and movers from abroad.

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, B07001
<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed September 22, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.68-- SELECTED GENERAL CHARACTERISTICS OF DOMESTIC MIGRANTS AND NONMOVERS: 2016

[Based on place of residence 1 year ago. Also based on a sample and subject to sampling variability]

Subject	Total	Nonmovers	In-migrants 1/	Out-migrants 2/
In percent 3/				
Gender (Population 1 year and over)				
Male	50.2	50.0	50.3	53.8
Female	49.8	50.0	49.7	46.2
Age (Population 1 year and over)				
1 to 17 years	20.5	20.3	24.9	21.2
18 to 64 years	62.2	60.9	69.7	73.2
65 years and over	17.3	18.8	5.4	5.6
Marital status (Population 15 years and over)				
Never married	33.8	32.6	33.9	44.8
Now married, except separated	49.3	50.0	54.7	42.9
Divorced or separated	10.5	10.5	8.8	9.6
Widowed	6.5	6.9	2.5	2.7
Educational attainment (Population 25 years and over)				
Less than high school graduate	8.0	8.3	2.0	3.3
High school graduate 4/	28.0	28.4	14.8	24.6
Some college or associate's degree	32.0	31.5	42.3	35.4
Bachelor's degree	21.4	21.4	26.1	24.5
Graduate or professional degree	10.6	10.5	14.8	12.1
Income of persons 5/ (Population 15 years and over)				
No income	12.1	11.6	15.0	13.7
With income	87.9	88.4	85.0	86.3
\$1 to \$9,999 or loss	13.4	12.9	17.0	20.5
\$10,000 to \$14,999	7.6	7.7	4.4	8.2
\$15,000 to \$24,999	13.4	13.3	15.1	12.6
\$25,000 to \$34,999	11.9	12.1	11.6	11.8
\$35,000 to \$49,999	13.9	14.1	9.1	11.6
\$50,000 to \$64,999	9.6	9.8	9.7	7.9
\$65,000 to \$74,999	4.0	4.1	3.5	2.9
\$75,000 or more	14.0	14.4	14.6	10.7

Continued on next page.

Table 1.68-- SELECTED GENERAL CHARACTERISTICS OF DOMESTIC MIGRANTS AND NONMOVERS: 2016 -- Con.

Subject	Total	Nonmovers	In-migrants 1/	Out-migrants 2/
In percent 3/				
Poverty status in the past 12 months (Population 1 year old and over for whom poverty status can be determined)				
Below 100% of poverty level	9.3	8.5	9.9	13.6
100 to 149% of poverty level	6.3	6.1	6.1	5.9
At or above 150% of poverty level	84.4	85.1	84.1	80.5
Tenure of householder in housing unit (Population 1 year & over in households)				
Owner-occupied	59.8	64.1	23.0	38.1
Renter-occupied	40.2	35.9	77.0	61.9
Population base for % categories above				
1 year and over	1,410,258	1,217,704	57,229	64,119
1 year and over for whom poverty status is determined	1,372,267	1,190,409	54,405	57,386
1 year and over in households	1,366,522	1,187,256	54,559	57,095
15 years and over	1,168,033	1,012,406	44,088	51,647
25 years and over	990,937	867,695	32,764	37,166

1/ Includes in-migrants to Hawaii coming from any of the 50 states and the District of Columbia.

2/ Includes out-migrants from Hawaii leaving for any of the 50 states and the District of Columbia.

3/ Percentage is calculated within each migrant and nonmover group by the characteristic group (e.g. gender). The subpopulation base figures utilized for the calculations are shown at the bottom of the table.

4/ Includes equivalency.

5/ Individual income in the past 12 months (in 2016 inflation-adjusted dollars).

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates
<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed September 25, 2017;
and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

Table 1.69-- TOP DOMESTIC IN-MIGRATION STATES: 2016

[Ranked by largest estimate. Population 1 year and over. State of residence in 2016 was Hawaii, but different state of residence in 2015. Data based on a sample]

Rank	State	Estimate	Margin of error 1/	Percent 2/	Percent margin of error 1/
	Total in-migrants 3/	57,229	+/-6,791	(X)	(X)
1	California	13,047	+/-3,210	22.8	+/-4.9
2	Texas	4,485	+/-1,946	7.8	+/-3.3
3	Washington	4,355	+/-1,964	7.6	+/-3.3
4	South Carolina	2,528	+/-2,391	4.4	+/-4.1
5	Georgia	2,487	+/-1,286	4.3	+/-2.2
6	North Carolina	2,395	+/-1,134	4.2	+/-1.9
7	Illinois	2,301	+/-1,816	4.0	+/-3.1
8	Florida	2,113	+/-1,267	3.7	+/-2.2
9	Virginia	2,033	+/-870	3.6	+/-1.5
10	Arizona	1,852	+/-1,155	3.2	+/-2.0
11	New York	1,654	+/-953	2.9	+/-1.6
12	Colorado	1,643	+/-860	2.9	+/-1.5
13	Tennessee	1,582	+/-1,734	2.8	+/-3.0
14	Nevada	1,491	+/-1,033	2.6	+/-1.8
15	Alabama	1,182	+/-903	2.1	+/-1.6
16	Maryland	1,098	+/-1,053	1.9	+/-1.8
17	Indiana	930	+/-1,033	1.6	+/-1.8
18	Oregon	883	+/-490	1.5	+/-0.8
19	New Mexico	841	+/-969	1.5	+/-1.7
20	Pennsylvania	836	+/-542	1.5	+/-0.9
21	New Jersey	723	+/-747	1.3	+/-1.3
22	Kansas	706	+/-468	1.2	+/-0.8
23	Alaska	672	+/-597	1.2	+/-1.0
24	Ohio	602	+/-398	1.1	+/-0.7
25	Utah	589	+/-531	1.0	+/-0.9

X Not applicable.

1/ Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. Caution should be taken, however, when using estimates which have large margin of errors because their reliability may be questionable. In addition to sampling variability, the estimates are subject to nonsampling error. The effect of nonsampling error is not represented in these tables.

2/ Calculated figures were based on more precise figures than those shown in the table. Therefore, figures such as percentages may differ from expected values due to rounding.

3/ Total includes in-migrants to Hawaii coming from any of the 50 states and the District of Columbia. Only states comprising of 1% or more of the total in-migrant population are listed in this table.

Source: U. S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "Table 1. State-to-State Migration Flows: 2016" <<http://www.census.gov/data/tables/time-series/demo/geographic-mobility/state-to-state-migration.html>> accessed January 11, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.70-- TOP DOMESTIC OUT-MIGRATION STATES: 2016

[Ranked by largest estimate. Population 1 year and over. State of residence in 2015 was Hawaii, but different state of residence in 2016. Data based on a sample]

Rank	State	Estimate	Margin of error 1/	Percent 2/	Percent margin of error 1/
	Total out-migrants 3/	64,119	+/-6,040	(X)	(X)
1	California	14,239	+/-2,852	22.2	+/-3.9
2	Nevada	6,067	+/-2,837	9.5	+/-4.3
3	Washington	4,497	+/-1,154	7.0	+/-1.7
4	Texas	3,630	+/-1,714	5.7	+/-2.6
5	Virginia	3,548	+/-1,403	5.5	+/-2.1
6	Oregon	3,302	+/-1,527	5.1	+/-2.3
7	Colorado	2,795	+/-2,376	4.4	+/-3.7
8	Arizona	2,339	+/-901	3.6	+/-1.4
9	Alabama	1,695	+/-1,502	2.6	+/-2.3
10	Maryland	1,595	+/-1,080	2.5	+/-1.7
11	New York	1,534	+/-830	2.4	+/-1.3
12	Utah	1,516	+/-1,096	2.4	+/-1.7
13	Indiana	1,426	+/-1,525	2.2	+/-2.4
14	Tennessee	1,397	+/-1,171	2.2	+/-1.8
15	North Carolina	1,365	+/-858	2.1	+/-1.3
16	Florida	1,326	+/-879	2.1	+/-1.4
17	Idaho	1,113	+/-631	1.7	+/-1.0
18	South Carolina	858	+/-749	1.3	+/-1.2
19	Ohio	771	+/-638	1.2	+/-1.0
20	Georgia	768	+/-453	1.2	+/-0.7
21	Illinois	627	+/-500	1.0	+/-0.8

X Not applicable.

1/ Data are based on a sample and are subject to sampling variability. The degree of uncertainty for an estimate arising from sampling variability is represented through the use of a margin of error. The value shown here is the 90 percent margin of error. The margin of error can be interpreted roughly as providing a 90 percent probability that the interval defined by the estimate minus the margin of error and the estimate plus the margin of error (the lower and upper confidence bounds) contains the true value. Caution should be taken, however, when using estimates which have large margin of errors because their reliability may be questionable. In addition to sampling variability, the estimates are subject to nonsampling error. The effect of nonsampling error is not represented in these tables.

2/ Calculated figures were based on more precise figures than those shown in the table. Therefore, figures such as percentages may differ from expected values due to rounding.

3/ Total includes out-migrants from Hawaii leaving for any of the 50 states and the District of Columbia. Only states comprising of 1% or more of the total out-migrant population are listed in this table.

Source: U. S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "Table 1. State-to-State Migration Flows: 2016" <<http://www.census.gov/data/tables/time-series/demo/geographic-mobility/state-to-state-migration.html>> accessed January 11, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases, accidents, health risk behaviors such as drinking and smoking, hospitals, and health care personnel.

The major source for data on vital statistics and health is the Hawaii State Department of Health. Information is also available on health care businesses from the U.S. Census Bureau's Economic Censuses. Long-term trends are traced in *Historical Statistics of Hawaii*, Section 2. Sections 2 and 3 of the *Statistical Abstract of the United States: 2012* contain data for the nation as a whole.

Table
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(Click on the table number to go to corresponding table)

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Table
Number **Table Name**

(Click on the table number to go to corresponding table)

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Table 2.01-- BIRTHS AND DEATHS: 2000 TO 2016

[Place of occurrence basis]

Year	Resident births 1/	Resident deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births		
			Births	Deaths	To unmarried mothers	Fetal deaths 3/	Infant deaths 4/
2000	17,514	8,163	14.4	6.7	322.7	9.5	7.8
2001	17,043	8,252	13.9	6.7	330.7	11.4	6.2
2002	17,444	8,650	14.1	7.0	337.2	10.2	7.0
2003	18,066	8,850	14.4	7.1	335.3	10.6	7.6
2004	18,238	8,888	14.3	7.0	345.0	8.7	5.5
2005	17,882	8,988	13.8	7.0	362.3	8.1	6.9
2006	18,927	9,290	14.5	7.1	362.4	7.8	5.9
2007	19,085	9,314	14.5	7.1	370.7	10.1	6.3
2008	19,417	9,322	14.6	7.0	380.6	8.4	5.5
2009	18,843	9,676	14.0	7.2	379.8	10.3	6.1
2010	18,910	9,387	13.9	6.9	379.0	8.0	5.8
2011	18,911	9,682	13.7	7.0	375.2	8.6	5.0
2012	18,920	10,062	13.6	7.2	374.9	10.0	4.9
2013	18,926	10,270	13.4	7.3	373.7	5.4	6.6
2014	18,506	10,591	13.1	7.5	373.2	7.2	4.5
2015	18,391	10,903	12.9	7.6	375.2	(NA)	5.8
2016	17,996	10,747	12.6	7.5	375.8	(NA)	6.0

NA Not available.

1/ Data include births to military couples and deaths of armed forces and their dependents, but exclude nonresident births and deaths, as well as resident births and deaths occurring out of State.

2/ Based on July 1 estimates by the U.S. Census Bureau, as revised through December 2017. Rates for 2000 and beyond may differ from previous *Data Books* due to revisions to those population figures. Population estimates for 2000 through 2009 were revised based upon the April 1, 2010 figures which were released September 28, 2011.

3/ 20 weeks gestation and over. Includes elective abortions.

4/ Under 1 year of age.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and Office of Health Status Monitoring, records; U.S. Census Bureau, Population Division "Table 1. Intercensal Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2010" (ST-EST00INT-01) (September 2011) <<http://www.census.gov/popest/data/intercensal/state/tables/ST-EST00INT-01.xls>> accessed September 28, 2011, "Table 1. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2017" (NST-EST2017-01) (December 2017) <<https://www.census.gov/data/tables/2017/demo/popest/state-total.html>> accessed December 20, 2017 and earlier population estimates; and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

Table 2.02-- BIRTHS AND DEATHS, BY MILITARY STATUS: 2012 TO 2016

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births 2/						
2012	18,985	-	18,985	3,475	15,510	3,475
2013	18,979	-	18,979	3,613	15,366	3,613
2014	18,582	-	18,582	3,374	15,208	3,374
2015	18,461	-	18,461	3,404	15,057	3,404
2016	18,068	-	18,068	3,360	14,708	3,360
Deaths						
2012	10,363	34	10,329	76	10,253	110
2013	10,576	42	10,534	77	10,457	119
2014	10,885	31	10,854	80	10,774	111
2015	11,215	41	11,174	82	11,092	123
2016	11,057	41	11,016	81	10,935	122
Birth rates 3/						
2012	12.5	0.0	12.9	57.7	11.0	33.6
2013	12.3	0.0	12.7	59.7	10.7	33.9
2014	11.9	0.0	12.3	53.4	10.5	30.6
2015	11.7	0.0	12.1	52.8	10.3	30.2
2016	11.4	0.0	11.8	52.2	10.0	30.0
Death rates 3/						
2012	6.8	0.8	7.0	1.3	7.3	1.1
2013	6.9	0.9	7.0	1.3	7.3	1.1
2014	7.0	0.7	7.2	1.3	7.4	1.0
2015	7.1	0.9	7.3	1.3	7.6	1.1
2016	7.0	0.9	7.2	1.3	7.4	1.1

1/ Death rates for military dependents based on decennial census age and sex composition of military dependents and decennial census age-sex-specific death rates for the military dependents. Deaths of civilians other than military dependents calculated as residual.

2/ As of January 2014, military status of parents is not collected on birth data. Tricare or military insurance as the principal source of payment for delivery was used as a proxy for military status.

3/ Per 1,000 de facto population in each group. Calculations of de facto population are based on July 1 resident population estimates by the U.S. Census Bureau as revised through December 2017.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; Hawaii State Department of Business, Economic Development & Tourism, *State of Hawaii Data Book*, Tables 1.03 and 1.04; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 2000 TO 2016

[Place of residence basis]

Year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rates per 1,000 resident population 1/			
2000	22,240	18.3	17,514	825	3,901
2001	21,764	17.8	17,043	759	3,962
2002	22,172	17.9	17,444	831	3,897
2003	22,509	18.0	18,066	862	3,581
2004	22,564	17.7	18,238	884	3,442
2005	22,303	17.3	17,882	897	3,524
2006	23,219	17.7	18,927	827	3,465
2007	23,731	18.0	19,085	942	3,704
2008	23,750	17.8	19,417	1,102	3,231
2009	23,201	17.2	18,843	1,046	3,312
2010	22,830	16.7	18,910	886	3,034
2011	22,480	16.3	18,911	940	2,629
2012	22,350	16.0	18,920	642	2,788
2013	21,816	15.5	18,926	468	2,422
2014	21,200	15.0	18,506	754	2,109
2015	(NA)	(NA)	18,391	766	(NA)
2016	(NA)	(NA)	17,996	(NA)	(NA)

NA Not available.

1/ Based on July 1 estimates by the U.S. Census Bureau, as revised through December 2017. Rates for 2000 and beyond may differ from previous *Data Books* due to revisions to these population figures. Population estimates for 2000 through 2009 were revised based upon the April 1, 2010 figures which were released September 28, 2011.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; U.S. Census Bureau, Population Division "Table 1. Intercensal Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2010" (ST-EST00INT-01) (September 2011) <<http://www.census.gov/popest/data/intercensal/state/tables/ST-EST00INT-01.xls>> accessed September 28, 2011 and "Table 1. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2017" (NST-EST2017-01) (December 2017) <<https://www.census.gov/data/tables/2017/demo/popest/state-total.html>> accessed December 20, 2017; and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

Table 2.04-- BIRTHS AND DEATHS, BY RESIDENCE: 2004 TO 2016

[Place of occurrence basis]

Event and year	Total	Resident 1/	Nonresident and unknown
Births			
2004	18,296	18,238	58
2005	17,922	17,882	40
2006	18,986	18,927	59
2007	19,153	19,085	68
2008	19,462	19,417	45
2009	18,891	18,843	48
2010	18,948	18,910	38
2011	18,971	18,911	60
2012	18,985	18,920	65
2013	18,979	18,926	53
2014	18,582	18,506	76
2015	18,461	18,391	70
2016	18,068	17,996	72
Deaths			
2004	9,252	8,888	364
2005	9,330	8,988	342
2006	9,622	9,290	332
2007	9,627	9,314	313
2008	9,572	9,322	250
2009	9,947	9,676	271
2010	9,654	9,387	267
2011	9,961	9,682	279
2012	10,363	10,062	301
2013	10,576	10,270	306
2014	10,885	10,591	294
2015	11,215	10,903	312
2016	11,057	10,747	310

1/ Data include births to military couples and deaths of armed forces and their dependents, but exclude nonresident births and deaths, as well as resident births and deaths occurring out of State.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 2014 TO 2016

[Place of residence basis]

Subject	2014	2015	2016
Number of resident births	18,506	18,391	17,996
City and County of Honolulu	13,197	13,233	12,928
Percent in City and County of Honolulu	71.3	72.0	71.8
Hawaii County	2,438	2,371	2,348
Kauai County	893	887	842
Maui County (incl. Kalawao)	1,978	1,900	1,878
Percent attended by M.D. or D.O. in hospital	88.0	87.5	82.7
Males per 100 females	107.3	103.3	110.7
Median weight of single births (grams) 1/	3,286	3,285	3,280
Percent low birth weight (under 2,500 grams) 1/	7.9	8.3	8.6
Percent single births under 40 weeks gestation	70.1	70.0	70.7
Percent plural births	3.1	2.8	3.5
Percent with 1 or more congenital malformations	(NA)	(NA)	(NA)
Percent to unmarried mothers	37.4	37.5	37.6
Percent with prenatal visit in first three months	(NA)	(NA)	(NA)
Percent first child born to mother 2/	32.4	33.0	30.7
Percent first child born alive to mother	37.4	39.3	39.3
Median age of mothers (years)	29	29	29
Median age of known fathers (years)	31	31	31

NA Not available.

1/ One gram is equal to 0.035273 of an ounce.

2/ Includes live births, fetal deaths, and abortions.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.06-- BIRTH AND FERTILITY RATES FOR HAWAII
AND THE UNITED STATES: 2013 TO 2016**

[Registered births. Excludes births to nonresidents of the United States]

Type of rate	Hawaii	United States	Rank 1/
2013			
Birth rate 2/	13.5	12.4	11
Fertility rate 3/	71.5	62.5	7
2014			
Birth rate 2/	13.1	12.5	13
Fertility rate 3/	69.3	62.9	11
2015			
Birth rate 2/	12.9	12.4	4/ 14
Fertility rate 3/	68.7	62.5	11
2016			
Birth rate 2/	12.6	12.2	5/ 14
Fertility rate 3/	67.6	62.0	10

1/ Among the 50 states and the District of Columbia, highest rate ranking 1.

2/ Per 1,000 estimated population.

3/ Number of births per 1,000 women aged 15 to 44 years estimated.

4/ Tied with 1 other state.

5/ Tied with 4 other states.

Source: U.S. National Center for Health Statistics, National Vital Statistics Reports (NVSR), *Births: Final Data* (annual) <<https://www.cdc.gov/nchs/products/nvsr.htm>> accessed May 3, 2018.

**Table 2.07-- RESIDENT BIRTHS, MIXED AND UNMIXED RACE,
BY MILITARY STATUS OF PARENT: 2016**

[Place of residence basis. Excludes births to Hawaii residents occurring out of state]

Military status of parent	Total births	Unmixed	Mixed 1/	Not reported 2/	Percent mixed 3/
Total	17,996	7,521	9,697	778	56.3
Military 4/	3,350	2,350	957	43	28.9
All others 5/	14,646	5,171	8,740	735	62.8

1/ Includes births in which the ethnicity of the father is different from the ethnicity of the mother or births in which the father or the mother are of two or more ethnicities. Includes births in which both parents were "Part Hawaiian" or both parents were "Other race". Prior to 2001, births in which both the father and mother were "Part Hawaiian" or both the father and mother were "Other race" were classified as unmixed.

2/ One or both parents of unspecified race (unless one was Part Hawaiian) or both parents classified as "other".

3/ Based on number reporting.

4/ As of January 2014, military status of parents is not collected on birth data. Tricare or military insurance as the principal source of payment for delivery was used as a proxy for military status.

5/ Includes "civilians" and "status not reported".

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.08-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES,
BY SEX: 2016**

[Place of occurrence basis. A total of 8,918 first names, including variant spellings, was reported for the 18,068 babies born in Hawaii in 2016]

Boys' names			Girls' names		
Rank	Name	Number	Rank	Name	Number
1	Noah	77	1	Olivia	57
2	Liam	72	2	Mia	55
3	Elijah	61	3	Emma	53
4	Ethan	60	4	Isabella	50
5	William	55	5	Ava	47
6	Logan	51	6	Riley	46
6	Luke	51	7	Aria	45
8	Aiden	50	8	Sophia	43
8	Ezekiel	50	9	Amelia	42
10	James	49	10	Grace	36

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.09-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 2016

Birth certificates			Death certificates		
Rank	Surname	Number	Rank	Surname	Number
1	Smith	81	1	Lee	81
2	Lee	76	2	Wong	51
3	Johnson	65	3	Kim	46
4	Brown	46	4	Higa	40
4	Garcia	46	5	Nakamura	38
4	Williams	46	6	Yamamoto	36
7	Kim	44	6	Young	36
8	Davis	41	8	Chang	33
9	Rivera	39	8	Smith	33
10	Nguyen	37	10	Tanaka	31

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.10-- EXPECTATION OF LIFE AT BIRTH FOR BOTH SEXES
COMBINED, BY RACE, 1910 TO 1990, AND BY SEX AND RACE,
2000 AND 2010**

[In years]

Year	All races	Caucasian	Chinese	Filipino	Hawaiian and Part- Hawaiian	Japanese	Other
1910	44.0	54.8	54.2	(NA)	32.6	49.3	15.6
1920	45.7	56.5	53.8	28.1	33.6	50.5	28.4
1930	54.0	61.9	60.1	46.1	41.9	60.1	32.6
1940	62.0	64.0	65.3	56.9	51.8	66.3	59.5
1950	69.5	69.2	69.7	69.1	62.5	72.6	68.3
1960	72.4	72.8	74.1	71.5	64.6	75.7	62.2
1970	74.2	73.2	76.1	72.6	67.6	77.4	76.7
1980	77.9	75.8	81.7	79.3	71.8	80.9	79.0
1990	78.9	75.5	82.9	78.9	74.3	82.1	80.4
2000	80.5	79.0	86.1	80.9	74.3	82.8	(NA)
Female	83.6	81.8	88.6	85.9	77.1	1/ 85.7	(NA)
Male	77.5	76.7	83.5	78.0	71.5	79.7	(NA)
2010	82.4	80.6	87.7	84.3	76.6	84.7	(NA)
Female	85.6	83.4	90.0	88.1	79.4	88.0	(NA)
Male	79.2	78.3	85.3	80.8	73.9	81.2	(NA)

NA Not available.

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1980," by Robert W. Gardner, *R & S Report*, No. 47, (March 1984), p. 7, and "Life Expectancy in the State of Hawai'i 1980 and 1990," *R & S Report*, No. 63 (August 1996), pp. 18-33; Chai Bin Park, Kathryn L. Braun, Brian Y. Horiuchi, Caryn Tottori, and Alvin T. Onaka, *Longevity Disparities in Multiethnic Hawaii: An Analysis of 2000 Life Tables* (Public Health Reports, Research Articles, Vol. 124, July-August 2009; and Yanyan Wu PhD., Kathryn Braun DrPH, Alvin T. Onaka PhD, Brian Y. Horiuchi, MPH, Caryn J. Tottori MA, and Lynne Wilkens DrPH, *Life Expectancies in Hawaii: A Multi-Ethnic Analysis of 2010 Life Tables* (Hawaii Journal of Medicine & Public Health, Vol. 76, No. 1, January 2017) <<http://hjmp.org/76.01.htm>> accessed January 11, 2017.

Table 2.11-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR HAWAII AND THE UNITED STATES: 1920 TO 2010

[Average expectation of life in years]

Year of birth	Hawaii			United States		
	Both sexes	Male	Female	Both sexes	Male	Female
1920	45.7	45.6	45.8	54.1	53.6	54.6
1930	54.0	52.7	55.9	59.7	58.1	61.6
1940	62.0	59.9	64.9	62.9	60.8	65.2
1950	69.5	67.8	71.7	1/ 68.2	1/ 65.6	1/ 71.1
1960	72.4	70.4	74.8	1/ 69.7	1/ 66.6	1/ 73.1
1970	74.2	72.1	76.4	70.8	67.1	74.7
1980	77.9	74.5	81.5	73.7	70.0	77.4
1990	78.9	75.9	82.1	75.4	71.8	78.8
2000	80.5	77.5	83.6	76.8	74.1	79.3
2010	82.4	79.2	85.6	78.7	76.2	81.0

1/ Includes deaths of persons who were not residents of the 50 states and the District of Columbia.

Source: U.S. Bureau of the Census, *Historical Statistics of the United States, Colonial Times to 1970*, Part 1 (1975), p. 55; Hawaii State Department of Health, Office of Health Status Monitoring, "Life Tables by Ethnic Group for Hawaii, 1920-1970," R & S Report, No. 26 (June 1979), pp. 8-26; and "Life Expectancy in the State of Hawai'i, 1980 and 1990," R & S Report, No. 63 (August 1996), p. 9; Chai Bin Park, Kathryn L. Braun, Brian Y. Horiuchi, Caryn Tottori, and Alvin T. Onaka, *Longevity Disparities in Multiethnic Hawaii: An Analysis of 2000 Life Tables* (Public Health Reports, Research Articles, Vol. 124, July-August 2009); U.S. Department of Health and Human Services, National Center for Health Statistics, "Average Life Expectancy at Birth by State for 2000 and Ratio of Estimates and Projections of Deaths: 2001 to 2003", Table 2 (April 21, 2005) <<http://www.census.gov/population/projections/MethTab2.xls>> accessed June 6, 2006; and Yanyan Wu PhD., Kathryn Braun DrPH, Alvin T. Onaka PhD, Brian Y. Horiuchi, MPH, Caryn J. Tottori MA, and Lynne Wilkens DrPH, *Life Expectancies in Hawaii: A Multi-Ethnic Analysis of 2010 Life Tables* (Hawaii Journal of Medicine & Public Health, Vol. 76, No. 1, January 2017) <<http://hjmph.org/76.01.htm>> accessed January 11, 2017.

**Table 2.12-- EXPECTATION OF LIFE AT BIRTH, BY SEX,
BY COUNTY: 2014**

[Average expectation of life in years. 2013-2015 average used to calculate the death rate]

County	Both sexes	Male	Female
State of Hawaii	81.5	78.7	84.4
Hawaii	80.2	77.2	83.4
Honolulu	81.8	79.0	84.6
Kauai	81.9	79.4	84.4
Maui 1/	81.1	78.2	84.1

1/ Maui County includes Kalawao County.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2045 - DBEDT 2045 Series* (June 2018)
<<http://dbedt.hawaii.gov/economic/economic-forecast/2045-long-range-forecast/>> accessed June 29, 2018 and records.

Table 2.13-- AVERAGE LIFETIME, BY SEX: 1959-1961 TO 1999-2001

[Average of the three years]

Period	Years			Rank 1/		
	Both sexes	Male	Female	Both sexes	Male	Female
1959-1961	71.55	69.79	74.01	7	(NA)	(NA)
1969-1971	73.60	71.02	76.79	1	1	3
1979-1981	77.02	74.08	80.33	1	1	1
1989-1991 2/	78.21	75.37	81.26	1	1	1
1999-2001 3/	80.23	77.17	83.65	1	1	1

NA Not available.

1/ Among the 50 states and the District of Columbia, with the highest average lifetime in years ranking 1.

2/ Average lifetime for all states combined was 75.37 years for both sexes combined, 71.83 years for males, and 78.81 years for females.

3/ Average lifetime for all states combined was 76.86 years for both sexes combined, 74.13 years for males, and 79.47 years for females.

Source: U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, *Life Tables: 1959-61*, Vol. 2, No. 12, *Hawaii State Life Tables: 1959-61* (June 1966), p. 160, and unpublished tabulations; U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, *U.S. Decennial Life Tables for 1969-71*, Vol. II, No. 12, *Hawaii State Life Tables: 1969-71* (June 1975), p. 12-6; and U.S. Department of Health and Human Services, National Center for Health Statistics, *U.S. Decennial Life Tables for 1979-81*, Vol II, *State Life Tables*, No. 12, *Hawaii* (December 1985) p. 12-3; *U.S. Decennial Life Tables for 1989-91*, Vol. II, *State Life Tables*, No. 12, *Hawaii* (March 1998), p. 4; *U.S. Decennial Life Tables for 1999-2001*, *State Life Tables, Hawaii*, p. 1

<<http://www.cdc.gov/nchs/nvss/mortality/lewk4.htm>> accessed June 23, 2012; and *U.S. Decennial Life Tables for 1999-2001*, *United States Life Tables*, Vol. 57 No. 1 (August 5, 2008) pp.7, 9 and 11 <http://www.cdc.gov/nchs/data/nvsr/nvsr57/nvsr57_01.pdf> accessed June 24, 2012.

Table 2.14-- SELECTED LIFE TABLE VALUES: 1999-2001

[Average of the three years]

Age	Average number of years of life remaining at beginning of year of age			Number surviving to specified age per 100,000 born alive		
	Both sexes	Male	Female	Both sexes	Male	Female
0 to 1	80.23	77.17	83.65	100,000	100,000	100,000
1 to 2	79.79	76.78	83.18	99,297	99,207	99,372
5 to 6	75.86	72.86	79.24	99,208	99,111	99,291
10 to 11	70.90	67.89	74.28	99,164	99,069	99,243
15 to 16	65.94	62.95	69.31	99,094	98,976	99,197
20 to 21	61.09	58.13	64.41	98,870	98,672	99,061
25 to 26	56.28	53.39	59.52	98,537	98,213	98,882
30 to 31	51.49	48.65	54.65	98,166	97,713	98,655
35 to 36	46.71	43.92	49.82	97,719	97,157	98,324
40 to 41	41.99	39.23	45.06	97,109	96,423	97,843
45 to 46	37.35	34.64	40.36	96,221	95,351	97,143
50 to 51	32.83	30.19	35.76	94,898	93,732	96,120
55 to 56	28.48	25.93	31.29	92,912	91,284	94,618
60 to 61	24.32	21.91	26.97	89,967	87,620	92,402
65 to 66	20.42	18.17	22.87	85,653	82,239	89,131
70 to 71	16.79	14.76	19.02	79,489	74,566	84,336
75 to 76	13.52	11.75	15.48	70,870	64,111	77,422
80 to 81	10.64	9.14	12.31	59,314	50,818	67,775
85 to 86	8.19	6.97	9.55	45,089	35,602	55,063
90 to 91	6.18	5.22	7.23	29,582	20,718	39,809
95 to 96	4.58	3.86	5.36	15,544	9,160	24,023
100 to 101	3.35	2.84	3.91	5,879	2,720	11,002
105 to 106	2.45	2.10	2.82	1,382	461	3,339
109 to 110	1.92	1.66	2.18	272	65	847

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, *U.S. Decennial Life Tables for 1999-2001, State Life Tables, Hawaii* <<http://www.cdc.gov/nchs/nvss/mortality/lewk4.htm>> accessed June 22, 2012.

Table 2.15-- SELECTED LIFE TABLE VALUES: 2014

[Average expectation of life in years. 2013-2015 average used to calculate the death rate]

Exact age in years	Average number of years of life remaining at beginning of year of age		Number surviving to specified age per 100,000 born alive	
	Male	Female	Male	Female
0	78.7	84.4	100,000	100,000
1	78.2	83.8	99,437	99,519
5	74.2	79.8	99,356	99,429
10	69.3	74.9	99,298	99,380
15	64.3	69.9	99,233	99,345
20	59.5	65.0	98,988	99,207
25	54.7	60.1	98,554	99,043
30	50.0	55.2	98,084	98,864
35	45.3	50.3	97,507	98,602
40	40.6	45.5	96,706	98,244
45	36.0	40.8	95,734	97,678
50	31.6	36.2	93,982	96,669
55	27.5	31.7	91,276	95,102
60	23.5	27.3	87,651	93,062
65	19.8	23.1	82,620	90,272
70	16.1	19.0	76,503	86,364
75	12.8	15.3	68,255	80,405
80	9.8	11.8	56,911	71,603
85	7.2	8.6	42,840	59,716
90	4.7	5.8	27,890	43,728
95	3.1	4.0	11,125	22,367
100	2.2	2.9	1,851	6,884

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2045 - DBEDT 2045 Series*, Tables A-27 to A-28 (June 2018) <<http://dbedt.hawaii.gov/economic/economic-forecast/2045-long-range-forecast/>> accessed July 13, 2018.

Table 2.16-- CHARACTERISTICS OF RESIDENT DEATHS: 2014 TO 2016

[Place of residence basis. Excludes deaths to Hawaii residents occurring out of state]

Subject	2014	2015	2016
Number of resident deaths	10,591	10,903	10,747
City and County of Honolulu	7,387	7,504	7,451
Hawaii County	1,559	1,678	1,687
Kauai County	514	564	551
Maui County (incl. Kalawao)	1,131	1,157	1,058
Males per 100 females	112.5	110.3	113.4
Median age (years)	79	79	79
Centenarian deaths: Male	39	38	44
Female	109	134	127
Oldest (age in years): Male	106	104	105
Female	108	108	110
Percent married	37.9	37.2	37.5
Deaths under 1 year	81	105	105
Per 1,000 live births	4.4	5.7	5.8
Fetal deaths 1/	2,863	(NA)	(NA)
Per 1,000 deliveries	135	(NA)	(NA)
Fetal deaths, 20 or more weeks gestation 2/	125	(NA)	(NA)
Per 1,000 live births	6.8	(NA)	(NA)
Standard fetal deaths 3/	754	766	(NA)
Elective abortions	2,109	(NA)	(NA)
Per 1,000 live births	114.0	(NA)	(NA)

NA Not available.

1/ Includes elective abortions.

2/ Includes elective abortions if 20 weeks or more.

3/ Excludes elective abortions.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.17-- CAUSES OF DEATH, BY SEX: 2016

[Place of residence basis. Excludes deaths to Hawaii residence occurring out of state]

Causes of death 1/	Both sexes	Males 2/	Females
Total deaths	10,747	5,710	5,037
Malignant neoplasm 3/	2,345	1,271	1,074
Stomach	81	45	36
Colon, rectum and anus	226	110	116
Pancreas	191	95	96
Trachea, bronchus and lung	538	326	212
Breast (female)	137	-	137
Cervix uteri, corpus uteri and ovary	107	-	107
Prostate	117	117	-
Urinary tract	107	69	38
Non-Hodgkin's lymphoma	80	43	37
Leukemia	81	46	35
Other malignant neoplasms	680	420	260
Diabetes mellitus	280	149	131
Alzheimer's disease	440	144	296
Diseases of the heart	2,435	1,368	1,067
Hypertensive heart disease	182	118	64
Ischemic heart disease	1,203	765	438
Other forms of heart disease	1,050	485	565
Hypertension	114	47	67
Cerebrovascular disease	662	277	385
Other circulatory system diseases (including atherosclerosis)	90	45	45
Influenza/pneumonia	505	260	245
Chronic lower respiratory diseases	334	190	144
Peptic ulcer	22	11	11
Chronic liver disease and cirrhosis	119	79	40
Nephritis and nephrosis	212	97	115
Pregnancy, Childbirth and Puerperium	5	-	5
Perinatal conditions	57	29	28
Congenital anomalies	24	14	10
Symptoms and ill-defined conditions (inc. sudden infant death syndrome)	246	135	111
Other diseases 4/	2,067	1,042	1,025
Motor vehicle accidents	124	81	43
All other and unspecified accidents and adverse effects	435	287	148
Intentional self-harm (suicide)	171	143	28
Assault	36	24	12
All other external causes	24	17	7

1/ Causes of death were coded according to the International Classification of Diseases, Version 10.

2/ Unknown sex classified as male.

3/ Commonly known as cancer.

4/ Includes Tuberculosis and HIV Disease.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.18-- GREATEST CATASTROPHIC MORTALITY OF RECORD,
BY TYPE OF DISASTER: 1778 TO 2018**

[Complete through June 1, 2018]

Type of disaster	Date	Location	Event	Deaths
Aircraft	Mar. 22, 1955	Waianae Mts.	Crash of MATS R6-D	66
Asphyxiation	Oct. 19, 1937	Palama	Leaking gas in house	8
Construction	Mar. 25, 1930	Kauai	Collapse of Alexander Dam	6
Earthquake	Apr. 2, 1868	Ka'u; Puna	Earthquake	32
Explosion	May 21, 1944	West Loch	Explosions on 9 Navy ships loading ammunition	163
Fire	June 8, 1944	Kalihi	Colliding bombers set fire to houses 1/	10
Fire	Oct. 15, 1997	Palolo	Fire destroyed 3 houses	7
Flood	Jan. 18, 1916	Iao; Wailuku	Cloudburst and flood	14
Homicide	Nov. 2, 1999	Iwilei	Mass murder in office	7
Hurricane	Sept. 11, 1992	Kauai; Oahu	Hurricane Iniki	8
Landslide	May 9, 1999	Sacred Falls	Landslide	8
Marine	1829 or 1830	New Hebrides	Losses to Boki's ships 2/	410
Motor vehicle	July 2, 1944	Waialua	Truck overturned on pedestrians	7
Motor vehicle	July 5, 1969	Kamehameha Hwy at Puuloa	2-car accident	7
Railroad	June 26, 1916	Near Hana	Work train derailed	5
Tsunami	Apr. 1, 1946	Statewide	Tsunami	159
Volcano	Nov. 1790	Kilauea	Eruption killed soldiers	< 80 or about 400
War, riots, etc.	Dec. 7, 1941	Oahu	Pearl Harbor attack	2,500
War, riots, etc.	Jan. 1790	Olowalu	U.S. ship fired on native canoes	> 100
War, riots, etc.	Sept. 9, 1924	Hanapepe	Police fired on strikers	20

1/ Death toll in burning houses; in addition, 4 airmen perished.

2/ Of Boki's two-ship expedition to New Hebrides, the *Kamehameha* and its crew of 250 vanished; the *Becket* survived but lost 160 of its crew.

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. 3 (1969), pp. 66-86, and "Catastrophic Mortality in Hawaii: An Update," *The Hawaiian Journal of History*, Vol. 23 (1989), pp. 217-227; Hawaii State Department of Business, Economic Development & Tourism, compiled from various newspaper sources.

Table 2.19-- CATASTROPHIC MORTALITY: 1994 TO 2018

[Includes all accidents, natural disasters, and other events causing five or more deaths. Complete through June 1, 2018]

Date	Place	Kind of disaster	Deaths
1994: Jan. 21	Keawaula Bay, Oahu	1-car auto crash	5
1995: Nov. 10	Kuliouou, Oahu	1-car auto crash	5
1996: Nov. 1	Halawa, Molokai	Airplane crash	5
1997: Oct. 15	Palolo Valley, Honolulu	3 houses destroyed by fire	7
1998: June 25	Waialeale, Kauai	Helicopter crash	6
1999: May 9	Sacred Falls, Oahu	Landslide	8
Sept. 25	Mauna Loa slope, Hawaii	Airplane crash	10
Nov. 2	Iwilei, Honolulu	Mass murder in office	7
2000: July 21	Iao Valley, Maui	Helicopter crash	7
2001: Feb. 9	9 mi. south of Diamond Head	Surfacing submarine hit and sank Japanese training ship	9
Feb. 12	Mts. near Sunset Beach, Oahu	Crash of two Army helicopters	6
2003: March 18	Haleiwa, Oahu	1-car auto crash	5
July 23	Waialeale, Kauai	Helicopter crash	5
2004: Sept. 24	4 mi. south of Waialeale, Kauai	Helicopter crash	5
2006: March 14	Kaloko Reservoir, Kauai	Dam breach	1/ 7
2011: April 8	Waikele, Oahu	Fireworks explosion	5
Nov. 10	Eastern Molokai	Helicopter crash	5
2012: March 25	Kula, Maui	2-car auto crash	5
2013: Jan. 23	Pahala, Hawaii	2-car auto crash	5
2016: Jan. 14	Haleiwa, Oahu	Crash of two Marine Corps helicopters	12
May 23	Hanapepe, Kauai	Airplane crash	5

1/ Three bodies were found and four persons were still missing on March 23, 2006 when search efforts were called off.

Source: Hawaii State Department of Business, Economic Development & Tourism, compiled from various newspaper sources.

**Table 2.20-- DEATHS BY METHOD OF DISPOSITION:
1980 TO 2016**

[Place of occurrence basis]

Method	1980	1990	2000	2010	2015	2016
All methods	5,204	7,055	8,511	9,654	11,215	11,057
Cremation	2,241	3,564	5,092	6,661	8,097	8,012
Burial	2,343	2,798	2,767	2,322	2,399	2,375
Removal	567	656	591	562	559	501
Medical science	-	-	40	91	141	150
All others 1/	53	37	21	18	19	19

1/ Includes entombment.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.21-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTY, 2001 TO 2017, AND BY LEVEL OF VISUAL IMPAIRMENT, 2017

[As of June 30]

Year and subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Year					
2001	2,674	2,029	302	112	231
2002 1/	2,896	2,176	347	119	254
2003	3,077	2,325	361	132	259
2004	3,154	2,394	371	128	261
2005	3,229	2,462	388	133	246
2006	3,340	2,542	401	141	256
2007	3,400	2,587	403	142	268
2008	3,519	2,675	424	147	273
2009	3,502	2/ 2,644	433	151	274
2010	3,643	2,744	462	159	278
2011	3,533	2,633	459	157	284
2012	3,331	2,527	373	154	277
2013	2,551	1,986	281	113	171
2014	2,656	2,080	290	115	171
2015	2,732	2,148	294	115	175
2016	2,802	2,203	307	116	176
2017	2,943	2,319	324	123	177
Level of visual impairment: 2017					
Total	2,943	2,319	324	123	177
Blind 3/	2,561	2,021	276	104	160
Visually impaired 4/	382	298	48	19	17

1/ Figures for June 30, 2002 reflect administrative efforts to register previously served but unregistered persons.

2/ Figures for June 30, 2009 reflect administrative efforts to delete deceased persons on the State Blind Register.

3/ A person who has central vision acuity that does not exceed 20/200 in the better eye with correcting lenses or a person who has visual acuity that is greater than 20/200 but is accompanied by a limitation in the field of vision such that the widest diameter of the visual field subtends an angle no greater than 20 degrees.

4/ A person who has vision with correcting lenses that does not exceed 20/70 in the better eye, the vision is expected to deteriorate and the vision is so defective that it interferes with the individual's performance of ordinary activities for which eyesight is essential.

Source: Hawaii State Department of Human Services, Ho'opono Services for the Blind, records.

Table 2.22-- SELECTED CHRONIC CONDITIONS: 2012

[Sample survey consisted of 11,904 people. Data were weighted based on the 2010 Census data]

Selected chronic conditions	Prevalence of condition 1/	Conditions per 1,000 persons 2/
High blood cholesterol	242,469	174
Hypertension	241,183	173
Asthma	154,142	111
Arthritis	117,229	84
Diabetes	93,912	68
Heart	56,189	40
Cancer	48,413	35
Lung	20,060	14

1/ Number of persons told by a physician or medical professional that they have the condition.

2/ Population base includes persons under 18 years, not usually subject to some of these conditions.

Source: Hawaii State Department of Health, Hawaii Health Survey, special tabulation.

Table 2.23-- SPECIFIED COMMUNICABLE DISEASES: 2012 TO 2016

[2016 data reported for deaths as of June 29, 2018; earlier deaths data not updated]

Disease	2012	2013	2014	2015	2016
Cases 1/					
AIDS	87	130	34	35	19
Campylobacteriosis	617	825	737	572	524
E. coli 0157:H7	20	28	25	42	28
Fish poisoning 2/	21	3/ 16	24	3/ 30	30
Giardiasis	34	60	43	43	41
Gonorrhea	815	718	1,020	1,252	1,463
Hansen's Disease 4/	24	14	14	7	15
Hepatitis A	5	16	5	3/ 8	296
Hepatitis B (acute)	5	4	3/ 5	3/ 10	1
Influenza 5/	3/ 2,811	3/ 5,086	5,382	7,477	5,129
Leptospirosis 6/	11	3/ 19	3/ 23	3/ 23	33
Malaria 7/	4	1	5	1	1
Measles (rubeola) 7/	-	-	15	-	1
Meningitis, bacterial	2	1	2	5	2
Mumps 8/	1	-	1	4	10
Pertussis (whooping cough) 5/	3/ 71	50	38	3/ 46	56
Pneumococcal disease	3/ 79	82	89	67	101
Rubella 7/	-	2	-	-	-
Salmonellosis	341	349	323	3/ 299	327
Shigellosis	27	42	29	82	41
Syphilis (primary & secondary)	23	46	68	92	112
Tuberculosis	119	115	136	127	119
Deaths 9/					
AIDS	16	8	18	13	14
Hepatitis B (acute)	(10/)	6	6	(10/)	6
Influenza	5	10	13	38	16
Meningitis, bacterial	(10/)	(10/)	(10/)	-	(10/)
Pneumococcal disease	(10/)	(10/)	(10/)	(10/)	-
Salmonellosis	-	(10/)	-	-	(10/)
Syphilis	-	-	-	-	-
Tuberculosis	(10/)	(10/)	6	(10/)	5

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Table 2.23--SPECIFIED COMMUNICABLE DISEASES: 2012 TO 2016 -- Con.

- 1/ Place of occurrence basis.
- 2/ Includes scombroid, ciguatera and hallucinogenic fish poisoning.
- 3/ Revised from previous *Data Book*.
- 4/ Excludes reinstated cases.
- 5/ Includes laboratory confirmed and clinically diagnosed cases.
- 6/ Includes previously unreported cases.
- 7/ Includes indigenous and imported cases.
- 8/ Includes laboratory confirmed and clinically diagnosed cases. Includes indigenous and imported cases.
- 9/ Place of residence basis. For the years shown, no deaths were reported from campylobacteriosis, fish poisoning, giardiasis, gonorrhea, Hansen's disease, hepatitis A, leptospirosis, malaria, measles (rubeola), mumps, pertussis (whooping cough), rubella or shigellosis. No data were available for deaths caused by *E. coli* 0157:H7.
- 10/ Less than 5 deaths.

Source: Hawaii State Department of Health, Office of Health Status Monitoring and Disease Outbreak Control Division, Disease Investigation Branch and AIDS Surveillance Program, "Historical Summary of Reported Cases of Notifiable Diseases, Hawaii, 2008-2017"
<https://health.hawaii.gov/docd/files/2018/06/Disease-Summary-Table-2008_2017_State.pdf> accessed July 18, 2018.

Table 2.24-- HEALTH RISK BEHAVIORS AND CONDITIONS FOR PERSONS 18 YEARS AND OLDER, BY COUNTY: 2016

[2016 data unless otherwise specified. Weighted percent of adults who reported the health risk behaviors or conditions. Ninety-five percent confidence interval in parenthesis, when available]

Risk factor	State	Honolulu	Hawaii	Kauai	Maui
Adult seatbelt non-use 1/	7.1 (NA)	6.2 (NA)	8.9 (NA)	6.6 (NA)	8.7 (NA)
Binge drinking 2/	18.6 (17.3- 19.9)	18.0 (16.3- 19.8)	20.5 (17.5- 24.0)	20.8 (17.1- 25.1)	18.8 (16.0- 22.0)
High cholesterol 3/ 4/	36.3 (34.7- 38.1)	36.8 (34.6- 39.1)	35.4 (31.9- 39.2)	36.9 (31.9- 42.2)	35.8 (32.2- 39.7)
Hypertension 4/ 5/	32.0 (30.5- 33.5)	33.4 (31.5- 35.4)	31.6 (28.3- 35.1)	32.6 (28.5- 37.1)	27.1 (24.1- 30.3)
Lack of physical activities 6/	20.8 (NA)	21.6 (NA)	18.8 (NA)	16.7 (NA)	19.6 (NA)
Less consumption of vegetables 4/ 7/	78.8 (NA)	79.7 (NA)	76.8 (NA)	77.9 (NA)	77.8 (NA)
Less consumption of fruit or fruit juice 4/ 8/	71.1 (NA)	72.4 (NA)	69.3 (NA)	66.9 (NA)	68.0 (NA)
Kidney disease 9/	3.7 (3.2- 4.4)	4.1 (3.3- 5.0)	3.2 (2.2- 4.5)	4.1 (2.3- 7.0)	3.0 (2.2- 4.0)
Diabetes 10/	10.5 (9.6- 11.4)	10.2 (9.1- 11.4)	11.5 (9.5- 13.8)	11.7 (9.4- 14.4)	11.5 (9.4- 14.0)
Asthma 11/	17.3 (16.1- 18.5)	17.3 (15.8- 18.9)	19.6 (16.5- 23.2)	15.4 (12.4- 19.1)	17.2 (14.8- 20.0)
Current smoker 12/	13.1 (12.0- 14.2)	11.9 (10.5- 13.4)	16.3 (13.5- 19.5)	15.1 (11.9- 18.9)	15.2 (12.7- 18.1)
Overweight 13/	33.8 (32.3- 35.3)	33.7 (31.7- 35.7)	35.0 (31.4- 38.8)	33.3 (29.1- 37.8)	34.0 (30.6- 37.5)
Obese I 13/	14.4 (13.4- 15.6)	14.0 (12.6- 15.5)	15.8 (13.3- 18.7)	17.6 (14.4- 21.3)	15.0 (12.4- 18.0)

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Table 2.24-- HEALTH RISK BEHAVIORS AND CONDITIONS FOR PERSONS 18 YEARS AND OLDER, BY COUNTY: 2016 -- Con.

Risk factor	State	Honolulu	Hawaii	Kauai	Maui
Obese II 13/	5.6 (4.9- 6.4)	5.5 (4.5- 6.5)	6.3 (4.6- 8.6)	4.9 (3.1- 7.6)	5.9 (4.5- 7.8)
Obese III 13/	3.8 (3.2- 4.5)	3.9 (3.1- 4.8)	4.8 (3.2- 7.0)	(NA) (NA)	3.4 (2.4- 4.8)

NA Not available.

- 1/ Adults who do not always wear seatbelts in cars.
- 2/ Five or more drinks for men, or four or more drinks for women, on one occasion in the past 30 days.
- 3/ Told by doctor, nurse or other health professional that their blood cholesterol was high.
- 4/ 2015 data. May differ from data in previous *Data Books*.
- 5/ Adult told by doctor, nurse or other health professional that they have high blood pressure.
- 6/ Other than your regular job, did not participate in any physical activities or exercise such as running, calisthenics, golf, gardening, or walking for exercise in the past month.
- 7/ Eat vegetables less than three times per day.
- 8/ Eat fruit or drink fruit juice less than two times per day.
- 9/ Told you have kidney disease. Does not include kidney stone, bladder infection or incontinence.
- 10/ Told by doctor or health professional that they have diabetes.
- 11/ Told by doctor, nurse or other health professional that they have asthma.
- 12/ Adults who ever smoked 100 cigarettes and who now smoke some days or every day.
- 13/ Overweight has BMIs greater than or equal to 25 but less than 30. Obese I has BMIs greater than or equal to 30 but less than 35; Obese II has BMIs greater than or equal to 35 but less than 40; and Obese III has BMIs greater than or equal to 40.

Source: Hawaii State Department of Health, Hawaii Indicator-Based Information System (Hawaii-IBIS) <http://ibis.hhdw.org/ibisph-view/query/selection/brfss/_BRFSSSelection.html> accessed June 7, 2018.

Table 2.25-- NUMBER AND BED CAPACITY OF STATE-APPROVED FACILITIES, BY TYPE OF FACILITY: 2003 TO 2016

[Figures based on facilities that reported their activity]

Category and year	Facilities			
	Total 1/	Acute care	Long-term care	Specialty care
Number of facilities				
2003	68	20	45	19
2004	70	22	47	20
2005	68	21	49	17
2006	62	19	43	13
2007	63	19	46	13
2008	66	19	46	14
2009	69	20	49	14
2010	70	20	48	15
2011	68	17	47	15
2012	68	17	47	15
2013	67	16	46	15
2014	65	17	44	15
2015	86	23	50	29
2016	85	23	48	28
Number of licensed beds				
2003	7,685	2,507	4,196	982
2004	7,612	2,464	4,234	914
2005	7,602	2,473	4,257	872
2006	7,233	2,503	3,960	770
2007	7,325	2,528	4,115	682
2008	7,326	2,532	4,013	781
2009	7,632	2,559	4,294	779
2010	7,747	2,573	4,305	869
2011	7,303	2,280	4,207	816
2012	7,215	2,313	4,100	802
2013	7,200	2,297	4,101	802
2014	7,200	2,362	4,027	811
2015	7,529	2,455	4,079	995
2016	7,939	2,495	4,402	1,042

1/ Institutions providing more than one kind of care are counted only once.

Source: Hawaii State Department of Health, Hawaii State Health Planning & Development Agency, *Health Care Utilization Report* (annual) <<http://health.hawaii.gov/shpda/>> accessed October 30, 2017 and revised tables; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.26-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN FACILITIES: 2003 TO 2016

[Figures based on facilities that reported their activity]

Type of facility and year	Admissions	Average daily census	Average daily percent occupancy
Acute care			
2003	109,055	1,654	66.0
2004	113,066	1,631	66.2
2005	110,873	1,666	67.4
2006	109,540	1,698	67.8
2007	108,732	1,638	64.8
2008	106,132	1,554	61.4
2009	110,724	1,551	60.6
2010	112,166	1,534	59.6
2011	109,309	1,512	66.3
2012	112,761	1,616	69.9
2013	113,907	1,595	69.4
2014	109,643	1,622	68.7
2015	116,816	1,715	69.9
2016	110,713	1,667	66.8
Long-term care			
2003	7,468	3,903	93.0
2004	7,881	3,930	92.8
2005	8,393	3,985	93.6
2006	7,120	3,755	94.8
2007	7,630	3,859	93.8
2008	7,555	3,512	87.5
2009	8,502	3,627	84.5
2010	8,490	3,753	87.2
2011	8,899	3,762	89.4
2012	8,640	3,538	86.3
2013	9,034	3,633	88.6
2014	8,922	3,580	88.9
2015	9,961	3,417	83.8
2016	9,682	3,698	84.0

Source: State Health Planning & Development Agency, *Health Care Utilization Report* (annual) <<http://health.hawaii.gov/shpda/>> accessed October 30, 2017 and revised tables; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.27-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN FACILITIES, BY TYPE OF FACILITY, BY ISLAND: DECEMBER 2016

[Figures based on facilities that reported their activity]

Category and island	Facilities			
	Total 1/	Acute care 2/	Long-term care 2/	Specialty care
Number of facilities				
State total	85	23	48	28
Oahu	56	10	30	21
Hawaii	14	6	9	3
Kauai	6	3	5	-
Maui	6	2	3	3
Molokai	2	1	-	1
Lanai	1	1	1	-
Number of licensed beds				
State total	7,939	2,495	4,402	1,042
Oahu	5,508	1,834	2,726	948
Hawaii	1,216	308	884	24
Kauai	444	111	333	-
Maui	737	223	449	65
Molokai	20	15	-	5
Lanai	14	4	10	-

1/ Institutions providing more than one kind of care are counted only once.

2/ Acute/SNF swing beds are now classified under acute care.

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Health Care Utilization Report 2016 Data* <<http://health.hawaii.gov/shpda/>> accessed October 30, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.28-- NUMBER AND BED CAPACITY OF STATE-APPROVED ADULT CARE HOMES, BY TYPE OF FACILITY, BY ISLAND: 2013 TO 2015

[As of December 31. Excludes Community Care Foster Family Homes]

Category and island	2013		2014		2015	
	Type I 1/	Type II 2/	Type I 1/	Type II 2/	Type I 1/	Type II 2/
Number of facilities						
State total	451	29	460	36	460	36
Oahu	377	29	383	35	382	35
Hawaii	49	-	52	-	52	-
Kauai	12	-	12	-	12	-
Maui	10	-	10	1	11	1
Molokai	3	-	3	-	3	-
Lanai	-	-	-	-	-	-
Number of licensed beds 3/						
State total	2,141	465	2,175	549	2,177	549
Oahu	1,804	465	1,827	527	1,825	527
Hawaii	221	-	234	-	234	-
Kauai	53	-	53	-	53	-
Maui	48	-	46	22	50	22
Molokai	15	-	15	-	15	-
Lanai	-	-	-	-	-	-

1/ Five beds or fewer.

2/ More than five beds.

3/ All facilities and care home beds are licensed by the Office of Health Care Assurance.

Source: Hawaii State Department of Health, Office of Health Care Assurance, records.

Table 2.29-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN FACILITIES, BY ISLAND: 2016

[Figures based on facilities that reported their activity]

Type of facility and island	Admissions	Average daily census	Occupancy (%)
Acute care 1/			
State total	110,713	1,667.1	66.8
Oahu	83,100	1,303.1	71.1
Hawaii	13,114	152.6	49.5
Kauai	5,028	57.4	51.8
Maui	9,382	152.6	68.4
Molokai	86	1.4	9.1
Lanai	3	-	0.7
Long-term care 1/			
State total	9,682	3,697.9	84.0
Oahu	7,413	2,346.8	86.1
Hawaii	1,380	665.4	75.3
Kauai	408	290.9	87.4
Maui	476	385.2	85.8
Molokai	-	-	0.0
Lanai	5	9.5	94.5

1/ Acute/SNF swing beds are now classified under acute care.

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Health Care Utilization Report 2016 Data* <<http://health.hawaii.gov/shpda/>> accessed October 30, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.30-- CHARACTERISTICS OF YOUTHS REGISTERED FOR STATE CHILD AND ADOLESCENT MENTAL HEALTH SERVICES: 2013 TO 2017

[Fiscal year ending June 30. Youths registered with the Child and Mental Health Division for one or more days]

Subject	2013	2014	2015	2016	2017
Total	2,119	2,225	2,405	2,496	2,405
Youths registered with services procured 1/ Number	1,313	1,337	1,505	1,528	1,420
Percent	62	60	63	61	59
Mean age (years)	14.0	13.9	13.6	13.5	13.3
Sex (%)					
Male	62	62	62	61	61
Female	38	38	38	39	39
County					
Hawaii	770	801	846	869	712
Honolulu	850	898	946	1,058	1,061
Kauai	186	225	262	190	202
Maui	225	248	320	348	319
Special populations 2/	88	53	31	31	111
Selected services procured (%) 3/					
Out-of-home	29.9	27.2	23.9	22.0	22.2
Out-of-state	0.4	1.6	2.3	2.5	2.0
Hospital-based residential	5.9	5.5	4.7	4.5	6.0
Community high risk 4/	1.1	1.0	0.7	0.5	0.6
Community residential	11.8	10.4	8.5	(4/)	(4/)
Community-based residential II	(4/)	(4/)	(4/)	0.7	0.6
Community-based residential III	(4/)	(4/)	(4/)	8.3	7.8
Transitional family home 5/	(NA)	(NA)	(NA)	9.5	9.4
Intensive home & community	75.1	77.4	76.8	82.1	84.5
Multi-systemic therapy	16.2	15.5	12.3	12.2	11.1
Intensive in-home	61.8	65.7	67.5	68.3	70.1
Outpatient 6/	23.5	20.2	22.5	15.4	10.0
Supportive services 7/	14.3	12.9	12.1	11.8	11.7
Crisis stabilization	3.5	2.8	2.5	20.1	1.5

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**Table 2.30-- CHARACTERISTICS OF YOUTHS REGISTERED FOR STATE
CHILD AND ADOLESCENT MENTAL HEALTH SERVICES:
2013 TO 2017 -- Con.**

NA Not available.

1/ Youths receiving one or more services procured from contracted provider agencies. Percent figure for the youths receiving one or more services procured from contracted provider agencies is out of the total number of youths registered.

2/ Non-county-specific programs for which a youth may be registered. Shown under the "Family Court Liaison Branch" category and the "Unassigned" category.

3/ Youths receiving one or more days of service by level of care as a percent of all registered youths. Procurement of mental health services from contracted provider agencies. Only selected service subgroups are shown.

4/ In 2016, the "Community residential" category was split into "Community-based residential II" and "Community-based residential III". The category of "Community high risk" is considered to be "Community-based residential I".

5/ There is no longer a category called "Therapeutic group home". There is a category called "Transitional family home" which used to be under the category "Therapeutic group home".

6/ Previously under the category "therapeutic group home".

7/ Includes respite home and ancillary services that could not be classified as another level of care.

Source: Hawaii State Department of Health, Child and Adolescent Mental Health Division, *Annual Evaluation Report Fiscal Year* (annual), *Annual Evaluation Presentation* (annual), *Fiscal Year Annual Fact Book* (annual) <<http://health.hawaii.gov/camhd/resource-library/research-and-evaluation/>> accessed May 25, 2018 and records .

Table 2.31-- ADULT PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 2001 TO 2017

Facilities and year	Persons active, Dec. 31	Admissions	Discharges	Persons served
Hawaii State Hospital				
2001	148	148	162	299
2002	164	182	169	320
2003	167	180	177	329
2004	171	182	178	331
2005	195	220	196	365
2006	177	176	194	349
2007	192	217	202	367
2008	165	200	227	363
2009	191	200	185	348
2010	188	209	216	377
2011	185	201	207	372
2012	181	291	295	430
2013	199	333	315	465
2014	192	278	264	447
2015	190	211	220	482
2016	189	247	245	481
2017	194	219	213	477
State-supported outpatient community mental health centers				
2001	3,064	1,150	1,144	3,976
2002	3,156	1,158	1,126	4,043
2003	3,657	1,550	954	4,446
2004	4,378	1,969	1,184	5,347
2005	4,996	2,056	1,455	6,149
2006	5,249	1,920	1,612	6,609
2007 1/	4,073	2,540	4,108	7,998
2008 1/	3,895	2,960	3,348	7,153
2009 1/	3,475	3,463	4,079	6,670
2010 1/	3,496	2,925	2,997	5,810
2011 1/	2,996	2,473	2,815	4,392
2012 1/	2,796	2,211	2,411	4,030
2013 1/	3,000	2,121	1,797	3,744
2014 1/	2,801	1,918	1,763	3,480
2015 1/	2,625	1,095	1,368	2,899
2016 1/	2,525	917	1,139	2,571
2017 1/	2,491	1,165	1,336	2,561

1/ Beginning in 2007, the methodology was changed to include persons seen only for assessment or eligibility determination.

Source: Hawaii State Department of Health, Adult Mental Health Division, records.

**Table 2.32-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
2000 TO 2017**

[Fiscal year ending June 30 unless otherwise specified]

Year	Number of beds on June 30 1/	Admissions		Patients in hospital 3/	
		Total	First 2/	Average	On June 30
2000	168	137	60	151	149
2001	168	183	88	158	157
2002	168	169	93	152	137
2003	168	184	101	167	174
2004	178	184	92	171	169
2005	178	182	80	172	181
2006	190	208	97	187	187
2007	190	191	82	183	191
2008	202	226	99	193	179
2009	202	192	75	174	183
2010	202	230	87	192	186
2011	202	220	75	185	180
2012	202	277	118	190	199
2013	202	301	125	186	195
2014	202	299	131	196	204
2015	202	304	112	205	198
2016	202	349	148	203	209
2017	202	319	115	203	202

1/ Number of licensed beds. The number of beds available for use, however, is dependent upon the staff/patient ratio.

2/ Admissions in which a person has entered the facility for the first time. Prior to the 2015 data, these figures were erroneously described as admissions in which a person had entered the facility for the first time during the fiscal year that data was being collected for.

3/ Includes patients on leave and absent without leave. In fiscal year 2017, 6.6 percent of patients went on leave or absent without leave.

Source: Hawaii State Hospital, records.

Table 2.33-- HANSEN'S DISEASE PATIENTS REGISTERED: 2012 TO 2016

Subject	2012	2013	2014	2015	2016
Patients on register, Dec. 31	298	304	304	285	296
Department of Health, Hansen's Disease					
Community Program 1/	281	288	288	270	283
Kalaupapa	17	16	16	15	13
New cases	25	16	15	7	15
Deaths	-	1	-	1	2

1/ Patients are registered to this community program, but reside at home.

Source: Hawaii State Department of Health, Hansen's Disease Community Program, records.

Table 2.34-- ESTIMATED USE OF SELECTED SUBSTANCES, FOR HAWAII AND THE UNITED STATES: 2015-2016

[Data in this table are annual averages based on the 2015-2016 National Survey on Drug Use and Health. Current users are those persons 12 years old and over. The numbers in this table are based on national design-based estimates. In 2015, a number of changes were made to the survey questionnaire and data collection procedures resulting in the establishment of a new baseline for a number of measures. Therefore, estimates for several measures included in prior reports are not available]

Subject and geographic area	Marijuana 1/	Cocaine 2/	Any illicit drug other than marijuana 1/ 3/	Binge alcohol use 1/ 4/	Cigarettes 1/
Estimated users (1,000)					
Hawaii	95	23	37	239	172
United States	23,103	4,950	9,195	66,009	51,642
Estimated users as percent of population					
Hawaii	8.2	2.0	3.2	20.6	14.9
United States	8.6	1.8	3.4	24.6	19.2

1/ Use in past month.

2/ Use in past year.

3/ Illicit drug use other than marijuana includes the misuse of prescription psychotherapeutics or the use of cocaine (including crack), heroin, hallucinogens, inhalants, or methamphetamine.

4/ Binge alcohol use is defined as drinking five or more drinks (for males) or four or more drinks (for females) on the same occasion (i.e. at the same time or within a couple hours of each other) on at least one day in the past 30 days. In 2015, the definition for females changed from five to four drinks.

Source: U.S. Department of Health and Human Services, Substance Abuse and Mental Health Services Administration, Center for Behavioral Health Statistics and Quality, "National Survey on Drug Use and Health, 2015-2016" <<https://www.samhsa.gov/data/sites/default/files/cbhsq-reports/NSDUHsaeSpecificStates2016A/NSDUHsaeStateTables2016.zip>> and <<https://www.samhsa.gov/data/sites/default/files/NSDUHsaeSpecificStates2016A/NSDUHsaeSpecificStates2016.htm>> accessed July 10, 2018.

Table 2.35-- PREVALENCE OF VARIOUS SUBSTANCES WITH STUDENTS IN HAWAII, 2013 TO 2017, AND THE UNITED STATES, 2017

[In percentages. The survey is administered in odd-numbered years to Hawaii public school students in middle school (grade 6-8) and high school (grade 9-12). Does not include charter or special public schools. See source document for margins of errors for this survey data. Hawaii data for 2013 and 2015 in the previous *Data Book* were percentages for the high school students]

Substance	Hawaii			U.S.
	2013	2015	2017	2017
Middle school				
Marijuana use 1/	7.5	7.9	7.6	(NA)
Ever used any form of cocaine	2.5	3.2	3.3	(NA)
Ever used inhalants 2/	7.7	6.5	(NA)	(NA)
Ever used heroin	(NA)	(NA)	(NA)	(NA)
Ever used methamphetamines	2.5	2.7	2.1	(NA)
Ever used hallucinogenic drugs 3/	(NA)	(NA)	(NA)	(NA)
Ever used ecstasy	1.9	1.7	1.5	(NA)
Ever took prescription drugs without a doctor's prescription	4.0	4.6	6.8	(NA)
Current drinker 4/	9.5	10.4	11.6	(NA)
Binge drinking 5/	4.4	5.3	5.4	(NA)
Current smoker 6/	5.2	5.0	5.0	(NA)
Electronic vapor product use 7/	(NA)	15.7	15.7	(NA)
High school				
Marijuana use 1/	18.9	19.4	18.1	19.8
Ever used any form of cocaine	6.5	5.7	7.1	4.8
Ever used inhalants 2/	9.2	8.0	(NA)	6.2
Ever used heroin	3.4	3.3	4.5	1.7
Ever used methamphetamines	4.3	3.8	4.8	2.5
Ever used hallucinogenic drugs 3/	6.0	8.1	7.6	6.6
Ever used ecstasy	8.0	8.0	6.0	4.0
Ever took prescription drugs without a doctor's prescription	12.9	12.3	12.2	(NA)
Current drinker 4/	25.2	25.1	24.5	29.8
Binge drinking 5/	12.7	13.4	(NA)	13.5
Current smoker 6/	10.4	9.7	8.1	8.8
Electronic vapor product use 7/	(NA)	25.1	25.5	13.2

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**Table 2.35-- PREVALENCE OF VARIOUS SUBSTANCES WITH STUDENTS
IN HAWAII, 2013 TO 2017, AND THE UNITED STATES, 2017 -- Con.**

NA Not available.

1/ Used marijuana one or more times during the 30 days before the survey.

2/ Used inhalants such as glue, aerosol spray can, or some paints or spray to get high.

3/ Hallucinogenic drugs such as LSD, acid, PCP, angel dust, mescaline, or mushrooms.

4/ Had at least one drink of alcohol on at least 1 day during the 30 days before the survey.

5/ For middle school and high school students, had five or more drinks of alcohol in a row within a couple of hours on at least 1 day during the 30 days before the survey. For the U.S. data for high school students in 2017, four or more drinks of alcohol in a row (if they were female) or five or more drinks of alcohol in a row (if they were male), within a couple of hours, on at least 1 day during the 30 days before the survey.

6/ Smoked cigarettes on at least 1 day during the 30 days before the survey.

7/ Electronic vapor products (e-cigarettes, e-cigars, e-pipes, vape pipes, vaping pens, e-hookahs, and hookah pens such as blu, NJOY, or Starbuzz) used at least 1 day during the 30 days before the survey.

Source: Hawaii State Department of Education and Hawaii State Department of Health, Hawaii Youth Risk Behavior Survey, State of Hawaii, Hawaii School Health Survey: Youth Risk Behavior Survey Module for 2013, 2015 and 2017 <<http://hhdw.org/>> accessed June 8, 2018 and Centers for Disease Control and Prevention, Youth Risk Behavior Surveillance System (YRBSS) data, Youth Online <<https://nccd.cdc.gov/Youthonline/App/Default.aspx>> accessed July 3, 2018.

**Table 2.36-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS
LICENSED IN HAWAII, BY PLACE OF ADDRESS: OCTOBER 9, 2017**

[Excludes inactive licenses]

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	9,996	1,515	22,447	2,668
State of Hawaii	4,898	1,096	15,542	1,454
Oahu	3,776	847	11,415	1,088
Hawaii	493	106	1,873	172
Kauai	191	42	718	69
Maui	425	95	1,479	122
Molokai	11	5	35	3
Lanai	2	1	22	-
Mainland U.S.	5,052	404	6,828	1,209
Foreign	46	15	77	5

1/ Permanent licenses only. Does not include interns, residents, or physicians who provided State government services only.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, <<http://cca.hawaii.gov/pvl/reports/>> accessed October 25, 2017; and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

**Table 2.37-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS
(NAICS 62), BY KIND OF BUSINESS OR OPERATION: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS) which replaced the 2007 NAICS used in the 2002 Economic Census]

NAICS code	Kind of business or operation	Estab-lish-ments (num-ber)	Rec-eipts/rev-enues (\$1,000)	Operat-ing expen-ses (\$1,000)	Annual payroll (\$1,000)	Paid employ-ees for pay period including March 12 (number)
62	Health care and social assistance	3,559	8,136,947	(1/)	3,290,592	66,772
621	Ambulatory health care services 2/	2,718	3,255,393	(1/)	1,385,904	25,213
6211	Offices of physicians	1,154	1,339,430	(1/)	624,078	7,329
6212	Offices of dentists	658	470,313	(1/)	184,471	4,167
6213	Offices of other health practitioners	551	242,484	(1/)	93,994	2,935
6214	Outpatient care centers	183	683,922	(1/)	269,064	5,209
6215	Medical and diagnostic laboratories	54	241,091	(1/)	84,798	1,721
6216	Home health care services	84	(D)	(1/)	(D)	(3/)
6219	Other ambulatory health care svcs	34	(D)	(1/)	(D)	(4/)
622	Hospitals	27	3,658,192	(1/)	1,381,923	21,720
6221	General medical and surgical	20	3,181,904	(1/)	1,187,630	18,519
6222	Psychiatric and substance abuse	2	(D)	(1/)	(D)	(4/)
6223	Specialty (except psychiatric and substance abuse)	5	(D)	(1/)	(D)	(5/)
623	Nursing and residential care facilities	146	588,474	(1/)	258,556	7,974
6231	Nursing care facilities (skilled)	46	375,258	(1/)	164,406	4,733
6232	Residential intellectual & dev disable, mental health and substance abuse	45	79,632	(1/)	40,654	1,256
6233	Continue care retiremt community & assisted living for elderly	45	122,515	(1/)	49,243	1,846
6239	Other residential care facilities	10	11,069	(1/)	4,253	139
624	Social assistance	668	634,888	(1/)	264,209	11,865
6241	Individual and family services	275	342,448	(1/)	148,369	6,878
6242	Community food and housing, and emergency & other relief svcs	86	110,897	(1/)	27,566	929
6243	Vocational rehabilitation services	62	70,498	(1/)	32,136	1,343
6244	Child day care services	245	111,045	(1/)	56,138	2,715

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**Table 2.37-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS
(NAICS 62), BY KIND OF BUSINESS OR OPERATION: 2012 -- Con.**

NAICS code	Kind of business or operation	Establishments (number)	Receipts/Revenues (\$1,000)	Operating expenses (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)
	Establishments exempt from federal income tax					
62	Health care and social assistance	765	4,956,503	4,574,389	1,943,397	39,984
621	Ambulatory health care services 2/	127	530,686	457,831	225,886	4,777
6214	Outpatient care centers	107	453,384	387,588	187,285	3,779
6216	Home health care services	14	(D)	(D)	(D)	(4/)
6219	Other ambulatory health care svc	6	(D)	(D)	(D)	(6/)
622	Hospitals	27	3,658,192	3,388,299	1,381,923	21,720
6221	General medical and surgical	20	3,181,904	2,973,638	1,187,630	18,519
6222	Psychiatric and substance abuse	2	(D)	(D)	(D)	(4/)
6223	Specialty (except psychiatric and substance abuse)	5	(D)	(D)	(D)	(5/)
623	Nursing and residential care facilities	70	250,628	239,585	120,490	3,724
6231	Nursing care facilities (skilled)	11	93,567	91,465	44,945	1,282
6232	Residential intellectual & dev disable, mental health and substance abuse	42	(D)	(D)	(D)	(5/)
6233	Continue care retiremt community & assisted living for elderly	8	68,513	63,895	31,758	1,094
6239	Other residential care facilities	9	(D)	(D)	(D)	(6/)
624	Social assistance	541	516,997	488,674	215,098	9,763
6241	Individual and family services	209	267,300	252,846	117,219	5,473
6242	Community food and housing, and emergency & other relief svcs	86	110,897	104,664	27,566	929
6243	Vocational rehabilitation services	37	43,561	42,214	22,090	1,018
6244	Child day care services	209	95,239	88,950	48,223	2,343

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**Table 2.37-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS
(NAICS 62), BY KIND OF BUSINESS OR OPERATION: 2012 -- Con.**

D Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

1/ Not available or not comparable.

2/ Industries in the ambulatory health care services subsector provide health care services directly or indirectly to ambulatory patients and do not usually provide inpatient services. Health practitioners in this subsector provide outpatient services, with the facilities and equipment not usually being the most significant part of the production process.

3/ 2,500 to 4,999 employees.

4/ 500 to 999 employees.

5/ 1,000 to 2,499 employees.

6/ 100 to 249 employees.

Source: U.S. Census Bureau, 2012 Economic Census, EC1262A1: Health Care and Social Assistance, Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012 Hawaii (April 2015) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 5, 2015.

**Table 2.38-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS
(NAICS 62), BY COUNTY AND PLACE: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS) which replaced the 2007 NAICS used in the 2007 Economic Census]

Geographic area	Establishments (number)	Receipts/ Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)
State total	3,559	8,136,947	3,290,592	66,772
Hawaii County	469	781,182	356,381	7,503
Captain Cook	8	2,205	885	31
Hawaiian Beaches	2	(D)	(D)	(1/)
Hawaiian Paradise Park	1	(D)	(D)	(2/)
Hilo	225	429,031	214,500	4,286
Holualoa	6	(D)	(D)	(1/)
Honaunau-Napoopoo	1	(D)	(D)	(2/)
Kahaluu-Keauhou	8	14,558	6,301	161
Kailua	69	67,215	28,564	642
Kalaoa	9	5,299	1,890	57
Mountain View	2	(D)	(D)	(2/)
Volcano	1	(D)	(D)	(2/)
Waikoloa Village	9	3,547	1,649	48
Waimea	31	77,131	32,921	635
Balance of Hawaii County	97	(D)	(D)	(3/)
Honolulu County	2,520	6,302,644	2,481,006	50,049
Ahuimanu	6	7,210	2,664	58
Aiea	51	27,325	10,067	282
East Honolulu	78	90,320	31,749	980
Ewa Beach	17	29,217	15,036	365
Ewa Gentry	2	(D)	(D)	(2/)
Ewa Villages	3	(D)	(D)	(4/)
Halawa	14	(D)	(D)	(5/)
Haleiwa	13	6,321	2,637	72
Hauula	2	(D)	(D)	(2/)
Heeia	5	741	349	13
Hickam Housing	3	(D)	(D)	(1/)
Iroquois Point	2	(D)	(D)	(2/)
Kahaluu	4	1,457	506	23
Kahuku	10	(D)	(D)	(6/)
Kailua	139	259,781	104,134	1,985

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**Table 2.38-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS
(NAICS 62), BY COUNTY AND PLACE: 2012 -- Con.**

Geographic area	Establishments (number)	Receipts/ Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)
Honolulu County (con.)				
Kaneohe	103	172,443	84,148	1,952
Kapolei	26	49,884	25,136	1,441
Laie	4	1,320	543	22
Maili	5	2,825	1,069	34
Makaha	10	12,304	5,327	207
Makakilo	7	(D)	(D)	(1/)
Mililani Mauka	8	(D)	(D)	(1/)
Mililani Town	25	25,542	11,797	246
Nanakuli	7	12,289	5,461	118
Ocean Pointe	4	(D)	(D)	(2/)
Pearl City	84	87,983	34,331	885
Pupukea	1	(D)	(D)	(1/)
Royal Kunia	5	(D)	(D)	(1/)
Schofield Barracks	1	(D)	(D)	(2/)
Urban Honolulu	1,513	4,534,947	1,749,101	32,660
Wahiawa	39	91,056	39,130	871
Waialua	2	(D)	(D)	(1/)
Waianae	30	75,830	34,980	826
Waikele	6	(D)	(D)	(4/)
Waimalu	90	(D)	(D)	(3/)
Waimanalo	6	(D)	(D)	(4/)
Waimanalo Beach	5	2,021	754	31
Waipahu	98	79,252	30,454	826
Waipio	8	44,444	19,678	356
Waipio Acres	2	(D)	(D)	(2/)
West Loch Estate	1	(D)	(D)	(2/)
Balance of Honolulu County	81	(D)	(D)	(3/)
Kauai County	177	311,622	144,990	3,082
Hanapepe	5	(D)	(D)	(1/)
Kalaheo	9	(D)	(D)	(1/)
Kapaa	26	28,873	15,272	288
Kekaha	1	(D)	(D)	(2/)
Kilauea	12	4,855	1,359	46
Lihue	91	207,795	92,694	1,823
Puhi	2	(D)	(D)	(2/)
Wailua Homesteads	2	(D)	(D)	(2/)
Balance of Kauai County	29	(D)	(D)	(5/)

Continued on next page.

**Table 2.38-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS
(NAICS 62), BY COUNTY AND PLACE: 2012 -- Con.**

Geographic area	Establishments (number)	Receipts/ Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12 (number)
Maui County	393	741,499	308,215	6,138
Haiku-Pauwela	6	5,304	1,613	37
Kaanapali	2	(D)	(D)	(2/)
Kahului	96	170,232	76,084	1,533
Kaunakakai	19	23,794	9,780	265
Kihei	42	31,997	13,593	307
Kula	13	(D)	(D)	(1/)
Lahaina	24	20,704	8,802	194
Lanai City	9	4,605	1,954	45
Makawao	16	(D)	(D)	(1/)
Napili-Honokowai	2	(D)	(D)	(2/)
Paia	3	(D)	(D)	(2/)
Pukalani	6	(D)	(D)	(1/)
Waihee-Waiehu	1	(D)	(D)	(2/)
Wailea	6	1,207	230	4
Wailuku	122	448,085	181,612	3,326
Balance of Maui County	26	(D)	(D)	(4/)

D Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

1/ 20 to 99 employees.

2/ 0 to 19 employees.

3/ 1,000 to 2,499 employees.

4/ 100 to 249 employees.

5/ 500 to 999 employees.

6/ 250 to 499 employees.

Source: U.S. Census Bureau, 2012 Economic Census, EC1262A1: Health Care and Social Assistance, Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012 Hawaii (April 2015) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 5, 2015.

Table 2.39-- MARRIAGES: 2004 TO 2015

[Place of occurrence basis]

Year	Marriages		Rates per 1,000 resident population 2/	Percent of marriages	
	Total	Resident 1/		Nonresi- dent 3/	Inter- racial 4/ 5/
2004	28,843	9,225	7.2	68.0	56.0
2005	29,272	9,358	7.2	68.0	54.7
2006	28,681	9,300	7.1	67.6	53.7
2007	27,346	9,401	7.1	65.6	55.1
2008	25,464	9,643	7.2	62.1	54.1
2009	23,169	9,017	6.7	61.1	53.1
2010	23,918	9,117	6.7	61.9	53.4
2011	24,177	8,907	6.5	63.2	55.2
2012	24,207	8,863	6.4	63.4	55.3
2013	22,902	8,692	6.2	62.0	55.0
2014	25,175	9,366	6.6	62.8	54.7
2015	22,834	8,870	6.2	61.2	54.8

1/ One or both partners are residents of Hawaii.

2/ Based on July 1 estimates by the U.S. Census Bureau, as revised through December 2016. Population estimates for 2000 through 2009 were revised based upon the April 1, 2010 figures which were released September 28, 2011. Rates may differ from previous *Data Books* due to revisions to these population figures.

3/ Both partners are nonresidents of Hawaii.

4/ Excludes nonresident marriages. For years prior to 2001, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories were classified as non-interracial. Percentage based on number reporting.

5/ Definition of "interracial" marriages for this table was changed beginning in 2001. From 2001, marriages where either the bride or groom are "Part Hawaiian" were classified as "Interracial" and marriages where both the bride and groom were "Other races" were classified as "Unknown". In the years prior to 2001, marriages in which both the bride and groom were "Part Hawaiian" or "Other races" were classified as non-interracial. For 2001, the percent of "interracial" marriages would have been 42.6 if the definition from the years prior to 2001 was used. Percentage based on number reporting.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and Office of Health Status Monitoring, records; U.S. Census Bureau, Population Division "Table 1. Intercensal Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2010" (ST-EST00INT-01) (September 2011) <<http://www.census.gov/popest/data/intercensal/state/tables/ST-EST00INT-01.xls>> accessed September 28, 2011, "Table 1. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2016" (NST-EST2016-01) (December 2016) <<https://www2.census.gov/programs-surveys/popest/tables/2010-2016/state/totals/nst-est2016-01.xlsx>> accessed December 20, 2016 and earlier population estimates; and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

**Table 2.40-- MARRIAGE AND DIVORCE RATES BASED ON RISK
POPULATION: 1910 TO 2000**

Year	Females 15 years old and over 1/		Marriages 4/		Divorces 4/	
	Unmarried 2/	Married 3/	Number	Rate 5/	Number	Rate 6/
1910	9,667	31,380	2,112	218	210	7
1920	14,616	45,550	2,070	142	548	12
1930	26,059	53,948	2,504	96	546	10
1940	51,669	66,569	4,659	90	906	14
1950	58,995	94,520	5,446	92	1,112	12
1960	65,156	128,528	5,098	78	1,324	10
1970	98,016	166,596	7,312	75	2,452	15
1980	150,166	210,085	9,148	61	4,144	20
1990	183,984	244,799	10,180	55	5,396	22
2000	221,280	262,827	9,220	42	4,668	18

1/ Females 14 years old and over for 1940-1970.

2/ Single, widowed or divorced.

3/ Includes separated persons.

4/ Averages of the previous and current calendar year period which includes April 1. Place of occurrence basis for years prior to 1969-1970. Marriage data for 1969-1970 and later years are on a place of residence basis.

5/ Per 1,000 unmarried females 15 (or 14) years old and over.

6/ Per 1,000 married females 15 (or 14) years old and over.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 214-215 and underlying data; *U.S. Census of Population: 1970*, Final Report PC (1)-B13, table 22; *U.S. Census of Population; 1980*, PC80-1-B13, table 21; Hawaii State Data Center, 1990 census tapes; Census 2000 Summary File 3 dataset <<http://factfinder.census.gov/servlet/BasicFactsServlet>> accessed August 28, 2003 ; Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1969, 1970, 1979, 1980, and Office of Health Status Monitoring, records.

Table 2.41-- CHARACTERISTICS OF MARRIAGES: 2012 TO 2015

[Place of occurrence basis]

Subject	2012	2013	2014	2015
Number	24,207	22,902	25,175	22,834
Percent on Oahu	49.9	49.9	49.5	50.8
Percent Hawaii residents				
Both partners	33.0	34.3	33.5	35.1
One partner only	3.6	3.7	3.7	3.8
Neither partner	63.4	62.0	62.8	61.2
Median age (years)				
Males	34	34	35	35
Females	31	32	33	32
Percent previously married				
Males	36.9	36.5	33.7	34.6
Females	35.1	35.0	33.5	33.9

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.42-- MARRIAGES, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 2015

[Place of occurrence basis]

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages	22,834	8,870	13,964
Race of partners			
Both partners same race 1/	12,205	3,478	8,727
Different race 2/	6,319	4,217	2,102
Percent different race 3/	34.1	54.8	19.4
Not reported 4/	4,310	1,175	3,135
Type of ceremony			
Civil ceremony	2,808	2,389	419
Religious ceremony	20,026	6,481	13,545

1/ Definition of "same race" was changed. It no longer includes marriages where both partners are of unknown race. These types of marriages are now included in the category "not reported".

2/ Includes marriages where either partner is "Part Hawaiian".

3/ Based on number reporting.

4/ One or both partners with unspecified race (unless one was "Part Hawaiian"), or both partners classified as "Other".

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.43-- MARITAL DISSOLUTION: 2000 TO 2015

[Place of residence basis]

Subject	2000	2010	2015	Percent of married couples		
				2000	2010	2015
Married couples	216,077	1/ 224,402	1/ 232,451	100.0	100.0	100.0
Marriages ended 2/	8,365	(NA)	(NA)	3.9	(NA)	(NA)
By divorce 2/	4,707	(3/)	(3/)	2.2	(NA)	(NA)
By death	3,658	3,757	4,053	1.7	1.7	1.7
Husbands	2,574	2,672	2,805	1.2	1.2	1.2
Wives	1,084	1,085	1,248	0.5	0.5	0.5

NA Not available.

1/ Estimate. The degree of uncertainty for an estimate is represented through the use of a confidence interval. For the number of married couples in 2010, the lower bound of the 90 percent confidence interval is 218,877 while the upper bound is 229,927. For the number of married couples in 2015, the lower bound of the 90 percent confidence interval is 227,363 while the upper bound is 237,539.

2/ Includes divorces where only one partner is a resident of Hawaii.

3/ As of January 1, 2003, the Department of Health no longer collects statistics on divorce.

Source: Hawaii State Department of Health, *Statistical Report* (annual) and records; U.S. Census Bureau, Census 2000 Summary File 3 Hawaii (September 25, 2002) and the American Community Survey, "DP02 Selected Social Characteristics in the United States - Hawaii, 2010 American Community Survey 1-Year Estimates" (September 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed September 22, 2011 and American Community Survey, "DP02 Selected Social Characteristics in the United States - Hawaii, 2015 American Community Survey 1-Year Estimates" (September 2016) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed September 15, 2016.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; achievement test results; school facilities, personnel, and expenditures; and libraries.

The principal sources of data on education are the U.S. Census Bureau, Hawaii State Department of Education, University of Hawaii, and private universities and colleges. *Historical Statistics of Hawaii*, Section 9, contains Island data back to 1820. Section 4 of the *Statistical Abstract of the United States: 2012* presents comparable information for the nation as a whole.

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**Table 3.01-- SCHOOL ENROLLMENT, BY TYPE OF SCHOOL AND AGE BY SEX:
2016**

Subject	Total	Male	Female
TYPE OF SCHOOL			
Persons 3 years and over enrolled	331,540	166,041	165,499
Enrolled in nursery school, preschool	23,628	10,701	12,927
Public school	8,367	3,828	4,539
Enrolled in kindergarten	16,245	8,586	7,659
Public school	13,349	7,527	5,822
Enrolled in grade 1 to grade 4	61,052	32,522	28,530
Public school	54,755	29,321	25,434
Enrolled in grade 5 to grade 8	67,704	34,312	33,392
Public school	55,292	27,666	27,626
Enrolled in grade 9 to grade 12	63,001	31,782	31,219
Public school	49,639	25,501	24,138
Enrolled in college undergraduate years	80,763	40,201	40,562
Public school	64,956	32,279	32,677
Enrolled in graduate or professional school	19,147	7,937	11,210
Public school	13,072	5,262	7,810
AGE			
Persons 3 years and over enrolled	331,540	166,041	165,499
3 and 4 years	17,232	7,505	9,727
Public school	5,827	2,317	3,510
5 to 9 years	80,011	41,991	38,020
Public school	67,426	36,333	31,093
10 to 14 years	81,679	41,368	40,311
Public school	66,732	33,591	33,141
15 to 17 years	44,866	23,420	21,446
Public school	35,638	18,920	16,718
18 and 19 years	19,621	8,485	11,136
Public school	15,717	6,716	9,001
20 to 24 years	33,907	16,119	17,788
Public school	28,189	13,882	14,307
25 to 34 years	27,934	14,094	13,840
Public school	20,909	10,201	10,708
35 years and over	26,290	13,059	13,231
Public school	18,992	9,424	9,568

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "Sex by School Enrollment by Type of School by Age for the Population 3 Years and Over" (B14003) and "Sex by School Enrollment by Level of School by Type of School for the Population 3 Years and Over" (B14002) <<https://factfinder.census.gov>> accessed October 20, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 3.02-- EDUCATIONAL ATTAINMENT, BY SEX: 2016

Age and educational attainment	Total	Male	Female
Persons 18 to 24 years	129,855	70,812	59,043
Less than 9th grade	708	252	456
9th to 12th grade, no diploma	8,730	5,010	3,720
High school graduate (includes equivalency)	53,587	32,353	21,234
Some college, no degree	43,875	23,486	20,389
Associate's degree	10,291	4,108	6,183
Bachelor's degree	12,277	5,456	6,821
Graduate or professional degree	387	147	240
Persons 25 to 34 years	205,844	108,182	97,662
Less than 9th grade	2,051	855	1,196
9th to 12th grade, no diploma	7,583	4,482	3,101
High school graduate (includes equivalency)	56,440	35,400	21,040
Some college, no degree	52,840	27,858	24,982
Associate's degree	23,739	11,276	12,463
Bachelor's degree	46,688	21,520	25,168
Graduate or professional degree	16,503	6,791	9,712
Persons 35 to 44 years	179,339	90,957	88,382
Less than 9th grade	3,067	2,151	916
9th to 12th grade, no diploma	5,058	2,988	2,070
High school graduate (includes equivalency)	43,509	24,845	18,664
Some college, no degree	40,845	22,484	18,361
Associate's degree	23,053	10,600	12,453
Bachelor's degree	45,324	21,289	24,035
Graduate or professional degree	18,483	6,600	11,883
Persons 45 to 64 years	362,213	179,544	182,669
Less than 9th grade	11,125	4,616	6,509
9th to 12th grade, no diploma	15,103	8,517	6,586
High school graduate (includes equivalency)	102,897	54,374	48,523
Some college, no degree	75,637	38,454	37,183
Associate's degree	39,815	17,880	21,935
Bachelor's degree	78,059	35,556	42,503
Graduate or professional degree	39,577	20,147	19,430

Continued on next page.

Table 3.02-- EDUCATIONAL ATTAINMENT, BY SEX: 2016 -- Con.

Age and educational attainment	Total	Male	Female
Persons 65 years and over	243,541	110,038	133,503
Less than 9th grade	19,840	6,753	13,087
9th to 12th grade, no diploma	15,836	7,226	8,610
High school graduate (includes equivalency)	74,897	30,923	43,974
Some college, no degree	43,355	21,039	22,316
Associate's degree	17,654	7,497	10,157
Bachelor's degree	41,779	19,875	21,904
Graduate or professional degree	30,180	16,725	13,455

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "Sex by Age by Educational Attainment for the Population 18 Years and Over" (B15001) <<https://factfinder.census.gov>> accessed October 20, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 3.03-- EDUCATIONAL ATTAINMENT OF PERSONS 25 YEARS OLD AND OVER: 1940 TO 2016

Year	Percent high school graduate or higher 1/	Percent bachelor's degree or higher 2/
1940	20.5	5.3
1950	31.6	6.1
1960	46.1	9.0
1970	61.9	14.0
1980	73.8	20.3
1990	80.1	22.9
2000	84.6	26.2
2005	88.1	27.9
2006	89.0	29.7
2007	89.4	29.2
2008	90.3	29.1
2009	90.4	29.6
2010	89.9	29.5
2011	90.6	29.1
2012	90.4	30.1
2013	91.0	31.2
2014	91.7	31.0
2015	90.9	31.4
2016	92.0	31.9

1/ Before 1990, percent 4 years of high school or more.

2/ Before 1990, percent 4 years of college or more.

Source: U.S. Census Bureau, *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 47; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 46; *1980 Census of Population*, PC80-1-C-13, table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13, table 1; *Profile of Selected Social Characteristics: 2000*, table DP-2 and U.S. Census Bureau, American Community Survey Office, American Community Survey, "Hawaii- Selected Social Characteristics in the United States" (DP02) (annual) <<http://factfinder2.census.gov/>> accessed October 23, 2017.

Table 3.04-- EDUCATIONAL ATTAINMENT OF PERSONS 25 YEARS OLD AND OVER, BY COUNTY: 2016

Subject	State total	Hawaii	Honolulu	Kauai	Maui
Population 25 years and over	990,937	139,834	684,066	50,428	116,520
Percent					
High school graduate or higher	92.0	92.7	91.6	93.1	92.9
With bachelor's degree or higher	31.9	27.6	34.4	27.9	24.7

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "Selected Social Characteristics in the United States: 2016" (DP02) <<https://factfinder.census.gov>> accessed October 23, 2017.

Table 3.05-- EDUCATIONAL ATTAINMENT OF PERSONS 25 YEARS OLD AND OVER, FOR HAWAII AND THE UNITED STATES: 2016

Geographic area	Population 25 years and over (1,000)	High school graduate or higher		Bachelor's degree or higher	
		Percent	Margin of error	Percent	Margin of error
Hawaii	991	92.0	0.6	31.9	0.7
Rank 1/	40	9	(X)	19	(X)
United States	218,475	87.5	0.1	31.3	0.1

X Not applicable.

1/ Among the 50 states and District of Columbia.

Source: U.S. Census Bureau, 2016 American Community Survey, 1-Year Estimates, "Percent of People 25 Years and Over Who Have Completed High School" (R1501); "Percent of People 25 Years and Over Who Have Completed a Bachelor's Degree" (R1502); and "Sex by Educational Attainment for the Population 25 Years and Over" (B15002) <<http://factfinder.census.gov>> accessed October 23, 2017.

**Table 3.06-- PRIVATE EDUCATIONAL SERVICES (NAICS 61),
BY TYPE OF SERVICE: 2012**

[Includes establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

NAICS code	Type of service	Establishments	Receipts/revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12
611	Educational services	347	158,389	51,088	2,410
6114	Business schools, & computer & management training	30	11,350	4,825	145
6115	Technical & trade schools	45	28,468	8,958	272
6116	Other schools & instruction	249	101,704	30,329	1,834
6117	Educational support services	23	16,867	6,976	159

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 61: Educational Services: Geographic Area Series: Summary Statistics: 2012" (EC1200A1) <<http://factfinder.census.gov>> accessed May 1, 2015.

**Table 3.07-- PRIVATE EDUCATIONAL SERVICES (NAICS 611),
BY TYPE OF SERVICE: 2015**

[Includes establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

NAICS code	Type of service	No. of establishments		Paid employees for pay period including March 12	Annual payroll (\$1,000)
		Total	20 or more employees		
611	Educational services	515	120	16,832	606,007
6111	Elementary & secondary schools	123	70	8,938	398,850
6112	Junior colleges	6	3	327	6,050
6113	Colleges, universities & professional schools	32	11	4,919	142,216
6114	Business schools, & computer & management training	27	1	96	5,512
6115	Technical & trade schools	40	1	236	8,995
6116	Other schools & instruction	258	30	2,061	34,560
6117	Educational support services	29	4	255	9,824

Source: U.S. Census Bureau, *2015 County Business Patterns* "County Business Patterns by Employment Size Class" (CB1500A13) <<https://factfinder.census.gov>> accessed October 23, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 3.08-- TOP 20 LARGEST PRIVATE SCHOOLS BY CAMPUS,
ENROLLMENT FOR 2016-2017 AND TUITION FOR 2017-2018**

[Schools are K-12 Coed, unless otherwise noted. Enrollment and tuition are for school year. Sorted for highest enrollment]

School	2016-2017 Enrollment	Tuition 2017-2018	
		Average (dollars)	Median (dollars)
Punahou School	3,751	23,850	23,850
Kamehameha Schools - Kapalama	3,192	4,839	4,374
Iolani School	1,903	22,550	22,550
Mid-Pacific Institute 1/	1,570	23,185	23,185
Kamehameha Schools - Hawaii	1,156	4,839	4,374
Maryknoll School	1,220	17,100	17,100
Kamehameha Schools - Maui	1,068	4,839	4,374
Hawaii Baptist Academy	1,017	16,300	16,300
Sacred Hearts Academy 2/	910	12,278	10,912
Saint Louis School 3/	832	12,933	12,775
Le Jardin Academy 1/	824	20,875	20,875
Hanalani Schools 1/	724	11,851	11,495
Damien Memorial School 4/	651	12,168	13,625
Hawaii Preparatory Academy	628	22,258	22,150
Island Pacific Academy	508	15,020	14,925
St. Francis School 5/	508	9,934	8,540
Holy Family Catholic Academy 6/	498	8,405	8,625
St. Andrew's Schools 7/	448	17,017	17,185
Seabury Hall 4/	447	19,910	19,910
Island School 1/	421	14,350	14,700

1/ Preschool-12 Coed.

2/ Preschool-12 Girls.

3/ K-12 Boys.

4/ 6-12 Coed.

5/ Early Childhood-12 Coed.

6/ Preschool-8 Coed.

7/ Includes St. Andrew's Priory School for Girls, K-12; St. Andrew's Preparatory School for Boys, K-5; and Queen Emma Preschool, Coed.

Source: Hawaii Association of Independent Schools, *Private School Enrollment Report (2016-2017)* <<http://www.hais.org/uploads/file/16-17%20Enrollment%20Report.pdf>>

accessed October 25, 2017 and *Private School Tuition Report (2017-2018)*

<<http://www.hais.org/uploads/file/16-17%20Tuition%20Report%20.pdf>> accessed October 25, 2017.

**Table 3.09-- EXPENDITURES, TOTAL AND PER PUPIL, BY FUNCTION:
SCHOOL YEAR 2013-2014 AND 2014-2015**

[In thousands of dollars unless otherwise indicated. Excludes expenditures for state education agencies]

Expenditure type	2013-2014		2014-2015	
	Total	Per pupil (\$)	Total	Per pupil (\$)
Total	2,504,144	13,326	2,521,003	13,741
Elementary/secondary expenditures, total	2,316,588	12,400	2,344,496	12,855
Instruction	1,386,369	7,421	1,377,713	7,554
Support services, total	798,676	4,275	835,930	4,583
Student support 1/	208,973	1,119	225,975	1,239
Instructional staff 2/	78,142	418	81,416	446
General administration	9,936	53	12,762	70
School administration	149,753	802	158,895	871
Operation and maintenance	227,275	1,217	231,340	1,268
Student transportation	66,139	354	67,779	372
Other support services	58,459	313	57,763	317
Food services	131,543	704	130,853	717
Enterprise operations 3/	-	-	-	-
Current expenditures for other programs 4/	14,355	(NA)	14,707	(NA)
Capital outlay 5/	173,200	926	161,800	886
Interest on school debt	-	-	-	-

NA Not available.

1/ Includes expenditures for guidance, health, attendance, and speech pathology services.

2/ Includes expenditures for curriculum development, staff training, libraries, and media and computer centers.

3/ Includes expenditures for operations funded by sales of products or services (e.g., school bookstore or computer time). Also includes small amounts for direct program support made by state education.

4/ Includes expenditures for adult education, community colleges, private school programs funded by local and state education agencies, and community services.

5/ Includes expenditures for property and for buildings and alterations completed by school district staff or contractors.

Source: U.S. Department of Education, National Center for Education Statistics, Institute of Education Sciences, *Digest of Education Statistics* (annual), Tables 236.30 and 236.75

<https://nces.ed.gov/programs/digest/current_tables.asp> accessed May 16, 2018.

**Table 3.10-- APPROPRIATED FUNDS AND EXPENDITURES BY
CATEGORY AND FUND TYPE: 2015 AND 2016**

[In millions of dollars, fiscal year ending June 30]

Item	Total	General	Federal	Special	Trust
2015					
State budget appropriation	2,704	2,332	253	95	24
Total expenditures	2,586	2,286	231	49	20
Personnel services	1,757	1,612	114	28	3
Other	829	674	117	21	17
Funds carried over	46	46	-	-	-
Lapsed ceiling	72	-	22	46	4
2016					
State budget appropriation	2,868	2,493	260	97	18
Total expenditures	2,717	2,446	217	47	7
Personnel services	(NA)	(NA)	(NA)	(NA)	(NA)
Other	(NA)	(NA)	(NA)	(NA)	(NA)
Funds carried over	(NA)	(NA)	(NA)	(NA)	(NA)
Lapsed ceiling	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii State Department of Education, Office of Fiscal Services, *Department of Education Financial Report, July 1, 2014 - June 30, 2015* (December 2016) <<http://www.hawaiipublicschools.org/Reports/FinRep2014-15.pdf>> accessed April 24, 2017 and *2016 Hawaii Department of Education Data Book* (June 2017) <<http://arch.k12.hi.us/PDFs/state/databook/2016/2016HIDOEDatabook.pdf>> accessed July 16, 2018.

Table 3.11-- BUDGETED FUNDS, EXPENDITURES, PUPIL COST, ENROLLMENT AND NUMBER OF SCHOOLS: 2016 AND 2017

[In millions of dollars unless otherwise specified. Fiscal year ending June 30]

Item	2016	2017	Percent change, 2016 to 2017
Appropriated funds total	2,868	2,953	3.0
General funds	2,493	2,584	3.7
Federal funds	260	267	2.7
Special funds	97	84	-13.4
Trust funds	18	18	0.0
Expenditures total	2,717	2,822	3.9
General funds	2,446	2,511	2.7
Federal funds	217	260	19.8
Special funds	47	44	-6.4
Trust funds	7	7	0.0
Per pupil cost (dollars) 1/	(NA)	(NA)	(NA)
Enrollment total (number) 1/	180,409	179,902	-0.3
Regular/special schools (number)	169,987	169,268	-0.4
Charter schools (number)	10,422	10,634	2.0
Schools (number)	290	290	0.0
Regular/special schools	256	256	0.0
Charter schools	34	34	0.0

NA Not available.

1/ Based on official enrollment.

Source: Hawaii State Department of Education, Office of Superintendent, *Hawaii Department of Education Data Book* (annual) <<http://arch.k12.hi.us/state/databook/databook.html>> accessed July 18, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 3.12-- GENERAL FUND BUDGET AND EXPENDITURES:
2014 AND 2015**

[In dollars. Fiscal year ending June 30]

Programs	2014	2015 1/
General fund budget 1/	2,263,173,864	2,332,039,254
Total expenditures	1,939,320,559	1,998,377,184
Instruction & related services	1,586,084,825	1,620,790,763
Instructional support	36,642,346	40,211,008
School support services	264,776,197	281,697,336
Support services	51,817,191	55,678,077
Exclusions 2/	285,452,206	287,731,751
Adult education	3,477,375	3,771,499
Capitalized equipment expenditures	9,038,712	13,849,198
Debt service	272,936,119	270,111,054
Total expenditures & exclusions	2,224,772,765	2,286,108,935
Ending budget balance	38,401,099	45,930,319

1/ Includes public charter schools.

2/ Excluded in accordance with US DOE National Center for Education Statistics (NCES) Common Core of Data Specifications.

Source: Hawaii State Department of Education, Office of Fiscal Services, *Department of Education Financial Report, July 1, 2013 - June 30, 2014* (January 2015)

<<http://www.hawaiipublicschools.org/Reports/FinRep2013-14.pdf>> accessed on April 28, 2015 and *Ibid.*, *July 1, 2014 - June 30, 2015* (December 2016)

<<http://www.hawaiipublicschools.org/Reports/FinRep2014-15.pdf>> accessed April 24, 2017.

**Table 3.13-- PUBLIC SCHOOL ENROLLMENT BY GRADE, BY COUNTY:
SCHOOL YEAR 2017-2018**

Grade	State total	Hawaii	Maui	Honolulu	Kauai	Charter schools
All grades	180,837	23,308	21,259	115,691	9,411	11,168
Nursery	1,582	217	154	1,124	79	8
Kindergarten	13,427	1,680	1,620	8,591	669	867
1	13,812	1,747	1,654	8,756	728	927
2	13,862	1,770	1,626	8,889	673	904
3	10,901	1,395	1,345	6,754	622	785
4	14,046	1,846	1,669	8,843	715	973
5	13,838	1,734	1,650	8,854	701	899
6	13,012	1,508	1,402	8,320	661	1,121
7	12,465	1,521	1,426	7,943	618	957
8	11,783	1,353	1,389	7,501	610	930
9	12,649	1,765	1,523	8,096	651	614
10	11,704	1,574	1,373	7,600	638	519
11	10,550	1,419	1,216	6,876	622	417
12	9,927	1,246	1,227	6,515	585	354
Special Ed.	17,279	2,533	1,985	11,029	839	893

Source: Hawaii State Department of Education, Official Enrollment Count SY 17-18
<<http://www.hawaiipublicschools.org/VisionForSuccess/SchoolDataAndReports/SchoolReports/Pages/home.aspx>> accessed October 23, 2017, and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 3.14-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS:
FALL, 1996 TO 2017**

Year	All federally-connected pupils	Percent of total enrollment	Includes dependents whose parents live and work on federal property	Includes dependents whose parents live on or work on federal property
1996	32,122	17.0	14,741	17,381
1997	30,905	16.3	14,343	16,562
1998	31,438	16.7	13,628	17,810
1999	30,337	16.3	12,969	17,368
2000	30,251	16.5	12,689	17,562
2001	28,276	15.3	12,434	15,842
2002	29,068	15.8	12,235	16,833
2003	28,692	15.6	11,601	17,091
2004	29,462	16.1	11,617	17,845
2005	29,390	16.3	11,004	18,386
2006	27,815	15.4	10,609	17,206
2007	28,752	16.1	10,389	18,363
2008	28,026	15.7	10,057	17,969
2009	28,434	15.9	10,616	17,818
2010	28,741	15.6	10,581	18,160
2011	30,150	16.7	11,587	18,563
2012	28,976	15.6	11,047	17,929
2013	22,324	11.9	9,001	13,323
2014	27,660	15.1	9,881	17,779
2015	26,537	14.5	10,107	16,430
2016 1/	25,626	14.0	10,116	15,510
2017 2/	20,660	11.3	9,056	11,604

1/ Final data. Revised from previous *Data Book*.

2/ Preliminary data as of December 15, 2017.

Source: Hawaii State Department of Education, records.

Table 3.15-- HAWAII STATE HIGH SCHOOL GRADUATES BY PUBLIC AND PRIVATE HIGH SCHOOL: 1982 TO 2017

Year	Total graduates 1/	Public school graduates	Private school graduates
1982	13,999	11,563	2,436
1983	13,301	10,757	2,544
1984	13,041	10,454	2,587
1985	12,575	10,092	2,483
1986	12,511	9,958	2,553
1987	13,146	10,491	2,655
1988	13,449	10,751	2,698
1989	13,094	10,551	2,543
1990	12,278	9,848	2,430
1991	11,877	9,482	2,395
1992	12,015	9,615	2,400
1993	11,675	9,320	2,355
1994	12,353	9,870	2,483
1995	12,434	9,984	2,450
1996	12,482	9,995	2,487
1997	12,312	9,784	2,528
1998	12,915	10,369	2,546
1999	13,017	10,425	2,592
2000	13,380	10,671	2,709
2001	12,933	10,330	2,603
2002	13,368	10,771	2,597
2003	12,840	10,312	2,528
2004	13,212	10,657	2,555
2005	13,393	10,847	2,546
2006	13,645	10,834	2,811
2007	13,821	10,909	2,912
2008	14,622	11,539	3,083
2009	14,721	11,699	3,022
2010	14,052	11,072	2,980
2011	13,976	11,062	2,914
2012	14,288	11,379	2,909
2013	14,316	11,377	2,939
2014	14,140	11,234	2,906
2015	13,476	10,660	2,816
2016	13,732	10,907	2,825
2017	13,581	10,670	2,911

1/ Excludes home schoolers and students who earned high school diplomas through the General Education Development (GED) examination.

Source: University of Hawaii, Institutional Research and Analysis Office
 <<http://www.hawaii.edu/iro/maps.php?title=High+School+Background+of+First-Time+Students>>
 accessed February 14, 2018, and records.

**Table 3.16-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT,
1993-1994 TO 2015-2016 AND PRIVATE HIGH SCHOOL
GRADUATES, 1991-1992 TO 2014-2015**

[Data limited to schools that offer first grade or above]

School year	Number of schools	Enrollment	FTE teachers 1/	High school graduates	
				Year	Number
1993-94	121	30,537	2,144	1991-92	1,886
1995-96	127	34,541	2,532	1994-95	2,603
1997-98	126	33,300	2,658	1996-97	2,618
1999-00	130	32,193	2,475	1998-99	2,533
2001-02	137	40,199	3,269	2000-01	3,388
2003-04	133	37,228	3,070	2002-03	2,780
2005-06	115	29,721	2,506	2004-05	1,674
2007-08	136	33,441	2,880	2006-07	2,385
2009-10	135	33,536	3,044	2008-09	2,659
2011-12	134	33,994	3,013	2010-11	2,760
2013-14	127	30,827	2,850	2012-13	2,614
2015-16	142	41,703	3,726	2014-15	3,513

1/ FTE refers to full-time equivalents, which may differ from headcount.

Source: National Center for Education Statistics, Private School Universe Survey, various surveys.
See also <<https://nces.ed.gov/surveys/pss/>> accessed April 30, 2018.

**Table 3.17-- SELECTED CHARACTERISTICS OF PUBLIC SCHOOL TEACHERS:
2001-2002 TO 2016-2017**

[Includes all public schools, with the exception of public charter schools]

School year	FTE teachers 1/	Head count teachers	Licensed teachers 2/ (percent)	Average years experience	5+ years at same school (percent)	Advanced degree 3/ (percent)
2001-2002	10,726.5	10,846	(NA)	12.7	69.0	22.3
2002-2003	10,727.0	10,857	87.0	12.5	56.0	23.5
2003-2004	10,883.5	11,010	84.9	12.0	53.0	25.6
2004-2005	10,971.5	11,103	84.6	11.6	52.0	26.9
2005-2006	10,959.5	11,075	86.0	11.5	52.0	28.1
2006-2007	11,052.0	11,154	86.3	11.4	52.0	29.0
2007-2008	10,963.0	11,151	87.5	11.4	53.0	30.0
2008-2009	10,884.5	11,094	90.3	11.6	55.0	31.0
2009-2010	10,887.5	10,967	93.4	12.1	58.0	32.3
2010-2011	10,808.5	10,871	95.5	13.1	61.0	33.9
2011-2012	10,862.5	10,927	96.5	12.2	62.0	34.8
2012-2013	10,826.0	10,886	96.8	13.2	62.0	35.3
2013-2014	10,922.0	10,984	96.7	13.2	60.0	36.1
2014-2015	10,809.5	10,864	96.5	13.4	60.0	36.8
2015-2016	10,881.5	10,942	95.9	12.4	59.0	36.6
2016-2017	10,901.5	10,955	95.9	12.5	58.0	36.9

NA Not available.

1/ FTE refers to full-time equivalents, which may differ from head count.

2/ Teachers who are fully licensed by the Hawaii State Teachers Standards Board.

3/ Teachers who have earned degrees beyond a bachelor's degree.

Source: Hawaii State Department of Education, *Trend Report: Educational and Fiscal Accountability*, <<http://arch.k12.hi.us/school/trends/trends.html#>> accessed February 14, 2018.

**Table 3.18-- SELECTED CHARACTERISTICS OF PUBLIC SCHOOL STUDENTS:
2001-2002 TO 2016-2017**

[In percent unless otherwise noted. Includes all public schools, schools] with the exception of public charter]

School year	Average daily attendance		Students who are not suspended 1/	9th grade retention rate 2/	Dropout rate 3/ 4/	Graduate on-time 4/ 5/
	Elementary	Secondary				
2001-2002	94.5	92.2	93.5	13.9	(NA)	78.9
2002-2003	94.5	92.2	94.3	14.3	14.3	80.0
2003-2004	94.7	92.2	95.0	14.5	15.1	79.9
2004-2005	94.3	92.2	94.7	15.3	14.8	79.6
2005-2006	94.1	92.1	94.6	15.3	15.4	79.5
2006-2007	94.4	92.2	94.1	15.1	16.1	79.3
2007-2008	94.4	91.6	94.5	14.1	15.7	80.3
2008-2009	94.5	91.3	94.5	12.5	15.4	80.1
2009-2010	94.9	92.1	95.1	12.5	16.3	79.7
2010-2011	94.7	93.1	95.0	12.2	15.7	80.8
2011-2012	94.6	93.2	95.2	11.0	15.1	81.4
2012-2013	94.3	93.0	95.6	10.8	14.3	82.9
2013-2014	94.5	93.2	96.1	9.4	14.1	82.5
2014-2015	94.8	93.3	95.8	9.1	14.0	82.4
2015-2016	94.8	93.5	96.2	8.6	13.7	82.7
2016-2017	94.7	93.1	96.3	8.4	14.4	82.5

NA Not available.

1/ Students who are "offense-free" that is, they have not committed offenses which result in suspension from school.

2/ Students who are not promoted to the next grade level.

3/ Percent of high school students who enter 9th grade at a school, do not return to the same school, and are either officially exited as a "drop-out" or whose exit status is undetermined. The dropout rate is that of the previous school year. In the school year 2004-05 a new reporting system for dropouts began, resulting in figures that are non-comparable to past years' figures.

4/ Starting in 2010-2011 the new Adjusted Cohort Graduation Rate methodology is used for a brief explanation 'See Trend Report Guide'.

5/ High school students who had completed high school within four years of their 9th grade entry date.

Source: Hawaii State Department of Education, *Trend Report: Educational and Fiscal Accountability*, <<http://arch.k12.hi.us/school/trends/trends.html#>> accessed February 14, 2018.

Table 3.19-- ETHNICITY OF PUBLIC SCHOOL STUDENTS: SCHOOL YEAR 2016-2017

Ethnicity 1/	Students	Percent
Total	179,902	100.0
Native Hawaiian	45,506	25.3
Filipino	40,183	22.3
White 2/	32,587	18.1
Japanese	16,417	9.1
Other Micronesian	7,991	4.4
Samoan	6,029	3.4
Chinese	5,588	3.1
Hispanic	5,557	3.1
Black or African American	5,250	2.9
Portuguese	2,984	1.7
Indo-Chinese	2,160	1.2
Korean	2,042	1.1
Multiple, two or more ethnicities	1,964	1.1
Tongan	1,429	0.8
Other Pacific Islander 3/	1,357	0.8
Other Asian 4/	1,220	0.7
Native American	1,088	0.6
Guamanian or Chamorro	550	0.3

1/ Ethnicities are self-reported on enrollment forms.

2/ Includes "White two or more," which is defined as having two or more white ethnicities.

3/ Includes "Pacific Islander two or more," which is defined as having two or more Pacific Islander ethnicities.

4/ Includes "Asian two or more," which is defined as having two or more Asian ethnicities.

Source: Hawaii State Department of Education, Office of the Superintendent, *2017 Hawaii Department of Education Data Book* (May 2018), Appendix C, Table 7

<<http://arch.k12.hi.us/state/databook/databook2017.html>> accessed May 16, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 3.20-- ETHNICITY OF PUBLIC SCHOOL TEACHERS: SCHOOL YEAR 2016-2017

Ethnicity	Teachers	Percent
Total	11,322	100.0
Other 1/	2,885	25.5
White	2,771	24.5
Japanese	2,757	24.4
Hawaiian/Part-Hawaiian	1,143	10.1
Filipino	775	6.8
Chinese	386	3.4
Hispanic	286	2.5
Korean	134	1.2
African-American	113	1.0
Samoan	56	0.5
Native American	16	0.1

1/ Includes teachers reporting multiple ethnicities.

Source: Hawaii State Department of Education, Office of the Superintendent, *2017 Hawaii Department of Education Data Book* (May 2018), Appendix C, Table 7
 <<http://arch.k12.hi.us/state/databook/databook2017.html>> accessed May 16, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 3.21-- SAT SCORE AVERAGE: 2002 TO 2016

[Recalibrated average, not directly comparable to earlier data reported in *Data Book 1995*, Table 3.17. Formerly known as the Scholastic Assessment Test]

Year	Hawaii average			U.S. average		
	Math	Reading 1/	Writing	Math	Reading 1/	Writing
2002	520	488	(NA)	516	504	(NA)
2003	516	486	(NA)	519	507	(NA)
2004	514	487	(NA)	518	508	(NA)
2005	516	490	(NA)	520	508	(NA)
2006	509	482	472	518	503	497
2007	506	484	473	514	501	493
2008	502	481	470	514	500	493
2009	502	479	469	514	499	492
2010	504	482	470	515	500	491
2011	500	479	469	514	497	489
2012	500	478	467	514	496	488
2013	504	481	468	514	496	488
2014	504	484	472	513	497	487
2015	508	487	477	511	495	484
2016	511	491	476	508	494	482

NA Not available.

1/ Formerly verbal, before 2006.

Source: College Board: College-Bound Seniors, Total Group and State Profile Report, U.S. and Hawaii (annual) <<https://research.collegeboard.org/programs/sat/data/>> accessed January 11, 2017.

Table 3.22-- HAWAII SMARTER BALANCED ASSESSMENT RESULTS FOR ENGLISH LANGUAGE ARTS AND MATHEMATICS: SCHOOL YEAR 2016-2017

Grade	English Language Arts			Mathematics		
	Number tested	Number proficient	Met/exceeded achievement standard (%)	Number tested	Number proficient	Met/exceeded achievement standard (%)
Total	91,597	46,042	50.3	91,814	38,579	42.0
Grade 3	14,334	6,908	48.2	14,378	7,623	53.0
Grade 4	14,188	6,844	48.2	14,241	6,864	48.2
Grade 5	14,077	7,504	53.3	14,096	5,986	42.5
Grade 6	13,452	6,634	49.3	13,485	5,512	40.9
Grade 7	12,838	6,383	49.7	12,890	4,716	36.6
Grade 8	12,242	5,758	47.0	12,250	4,596	37.5
Grade 11	10,466	6,011	57.4	10,474	3,282	31.3

Source: Hawaii State Department of Education, Smarter Balanced Assessment Results. <<http://www.hawaiipublicschools.org/TeachingAndLearning/Testing/StateAssessment/Pages/home.aspx>> accessed April 30, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 3.23-- HEADCOUNT ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 2009 TO 2017

[Fall headcount of credit students, includes special students (early admits and concurrent registrants) for all years shown]

Year	Total, all campuses	University of Hawaii at Manoa					Univ. of Hawaii at Hilo	Univ. of Hawaii-West Oahu
		Total	Classified		Unclassified	Others 1/		
			Under-graduates	Graduates				
2009	57,945	20,435	13,583	5,726	1,080	46	3,974	1,333
2010	60,090	20,337	13,599	5,726	971	41	4,079	1,471
2011	60,330	20,429	14,054	5,475	842	58	4,139	1,662
2012	60,295	20,426	14,279	5,243	822	82	4,157	1,997
2013	58,941	20,006	14,097	5,017	799	93	4,043	2,361
2014	57,052	19,507	13,667	4,893	836	111	3,924	2,661
2015	55,756	18,865	13,320	4,754	718	73	3,829	2,692
2016	53,418	18,056	12,767	4,514	686	89	3,666	2,939
2017	51,674	17,612	12,583	4,322	624	83	3,539	3,082

Year	UH Community Colleges							
	Total	Honolulu	Kapiolani	Leeward	Windward	Hawaii	Kauai	Maui
2009	32,203	4,567	9,102	7,484	2,316	3,275	1,345	4,114
2010	34,203	4,725	9,301	7,942	2,625	3,815	1,428	4,367
2011	34,100	4,600	9,023	7,895	2,705	3,917	1,433	4,527
2012	33,715	4,582	8,892	7,960	2,741	3,663	1,495	4,382
2013	32,531	4,368	8,376	7,976	2,799	3,406	1,530	4,076
2014	30,960	4,144	7,994	7,742	2,661	3,186	1,424	3,809
2015	30,370	4,328	7,816	7,535	2,610	3,087	1,401	3,593
2016	28,757	3,903	7,382	7,262	2,511	2,956	1,401	3,342
2017	27,441	3,563	7,095	6,805	2,511	2,819	1,346	3,302

1/ Includes Home-based at Other UH Campus and No Data.

Source: Enrollment record (2009-2011), University of Hawaii, Institutional Research and Analysis Office; "Enrollment Table 0. Headcount Enrollment, Multi-year, University of Hawaii, [multi-year]" and "Enrollment Table 6. Headcount Enrollment of Credit Students by Educational Level, UH Manoa, [multi-year]" <<https://www.hawaii.edu/institutionalresearch/enrReport.action?reportId=ENRT00>> accessed February 14, 2018; calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 3.24-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY THE UNIVERSITY OF HAWAII: 2010 TO 2017

Year ended June 30	University of Hawaii at Manoa					University of Hawaii West Oahu		
	Bachelor's	Master's	Doctorate	Professional practice 1/	Other 2/	Bachelor's		
2010	2,834	1,169	184	167	60	242		
2011	2,957	1,232	212	199	75	255		
2012	3,026	1,223	196	210	112	301		
2013	3,202	1,049	229	192	65	349		
2014	3,378	1,121	194	190	66	352		
2015	3,404	975	239	244	61	439		
2016	3,600	1,077	204	174	223	474		
2017	3,298	978	190	197	246	623		

Year ended June 30	University of Hawaii at Hilo					UH Community Colleges		
	Certificates 3/	Bachelor's	Master's 4/	Doctorate	Professional practice 5/	Certificates	Associate's degree	Bachelor's
2010	46	508	47	-	-	418	2,606	9
2011	28	581	37	1	84	474	2,847	3
2012	42	721	64	1	87	579	3,054	7
2013	-	676	46	1	86	754	3,336	9
2014	-	665	58	-	83	711	4,440	13
2015	-	749	60	-	96	888	3,930	7
2016	-	750	49	2	92	1,072	4,113	17
2017	-	798	62	4	91	1,145	3,947	16

1/ Includes Doctor of Jurisprudence (JD), Doctor of Medicine (MD), and Doctor of Architecture (DArch). Effective 2014, includes Doctor of Nursing Practice (DNP). Effective 2015, also includes Doctor of Education (EdD). Referred to as First Professional degree prior to 2012.

2/ Includes Post-Baccalaureate Certificates.

3/ Includes Certificate in Teacher Education (PDN).

4/ Includes MS in Pharmacy effective 2013.

5/ Includes Doctor of Pharmacy (PharmD) effective 2011, and Doctor of Nursing Practice (DNP) effective 2015. Referred to as First Professional degree prior to 2012.

Source: University of Hawai'i, Institutional Research and Analysis Office "Degrees Table 0. Board of Regents Approved Degrees and Certificates Awarded [annual]" and "Degrees Table 1. Board of Regents Approved Degrees and Certificates Awarded by Major & Gender [annual]" <https://www.hawaii.edu/institutionalresearch/degreeReport.action?reportId=MAPS_DEG_TOC> accessed February 14, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 3.25-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES, AND FACULTY AND STAFF: 2014 TO 2017

Subject	2014	2015	2016	2017
Curricula offered at Manoa Campus	305	304	332	312
Bachelor's degree programs	100	99	112	100
Master's degree programs	85	85	88	87
Doctoral programs	53	53	60	54
Other programs 1/	67	67	72	71
Tuition per semester (full-time undergraduate, regular session) (dollars) 2/				
Manoa Campus:				
Resident	4,920	5,172	5,436	5,436
Nonresident	14,316	15,348	16,452	16,452
Hilo:				
Resident	3,324	3,456	3,600	3,600
Nonresident	9,324	9,684	10,080	10,080
West Oahu:				
Resident	3,324	3,456	3,600	3,600
Nonresident	9,324	9,684	10,080	10,080
Community colleges:				
Resident 3/	1,368	1,440	1,512	1,512
Nonresident 3/ 4/	3,792	3,936	4,080	4,080
Finances, fiscal year ending June 30				
Current fund revenues (\$1,000)	1,272,734	1,202,642	1,256,651	1,263,456
Current fund expenditures (\$1,000)	1,463,132	1,421,525	1,458,988	1,485,614
Faculty and staff, Fall Semester 5/	10,318	10,167	10,106	10,051
Board of Regents appointees	8,897	8,770	8,716	8,699
Full-time	6,009	5,919	5,915	5,921
Part-time	2,888	2,851	2,801	2,778
Civil service personnel	1,421	1,397	1,390	1,352
Full-time	1,355	1,322	1,321	1,290
Part-time	66	75	69	62

1/ Includes undergraduate and graduate certificate programs, first professional degree programs (JD, MD, DArch, DNP, EdD, DrPH), and post-baccalaureate in education and professional diploma in education

2/ Per-semester tuition data are reported by academic years (e.g. 2013 = AY 2013-2014). Data reported are tuition only and do not include required student fees.

3/ Community Colleges tuition is charged on a per-credit basis for all enrolled credits. The amount shown here is based on 12 enrolled credits, and shown for comparative purposes only.

4/ With appropriate notification, individual community colleges may elect to charge a nonresident rate that falls within a pre-determined high and low range. For this table, the figure presented here reflects the average of one community college campus at the high rate and six campuses at the low rate.

5/ Includes persons on leave without pay.

Source: University of Hawai'i, Institutional Research and Analysis Office

<<https://www.hawaii.edu/institutionalresearch/home.action>> accessed April 30, 2018; records, and calculations by Hawaii State Department of Business, Economic Development and Tourism.

Table 3.26-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 2009 TO 2017

[Excludes extension programs of mainland and foreign schools, unaccredited institutions, and other limited or specialized curriculum programs]

Year and institution 1/	Fall enrollment 2/			Earned degrees conferred 3/		
	Total	Undergrad.	Graduate	Associate's	Bachelor's	Master's
2009, total	13,251	11,315	1,936	296	1,884	597
Brigham Young	2,512	2,512	-	1	485	-
Chaminade	2,626	1,897	729	101	311	241
Hawaii Pacific	8,113	6,906	1,207	194	1,088	356
2010, total	13,892	11,874	2,018	298	1,884	620
Brigham Young	2,780	2,780	-	19	479	-
Chaminade	2,773	2,036	737	106	319	246
Hawaii Pacific	8,339	7,058	1,281	173	1,086	374
2011, total	13,673	11,581	2,092	272	1,729	647
Brigham Young	2,775	2,775	-	51	565	-
Chaminade	2,827	2,066	761	78	300	257
Hawaii Pacific	8,071	6,740	1,331	143	864	390
2012, total	13,168	11,090	2,078	306	1,840	667
Brigham Young	2,799	2,799	-	56	540	-
Chaminade	2,906	2,123	783	121	309	287
Hawaii Pacific	7,463	6,168	1,295	129	991	380
2013, total	12,175	10,305	1,870	375	1,899	680
Brigham Young	2,687	2,687	-	117	659	-
Chaminade	2,752	2,036	716	112	315	259
Hawaii Pacific	6,736	5,582	1,154	146	925	421
2014, total	11,105	9,412	1,693	344	2,117	689
Brigham Young	2,522	2,522	-	102	697	-
Chaminade	2,756	2,055	701	89	379	298
Hawaii Pacific	5,827	4,835	992	153	1,041	391
2015, total	10,053	8,615	1,438	337	1,976	612
Brigham Young	2,557	2,557	-	133	714	-
Chaminade	2,715	2,065	650	87	420	215
Hawaii Pacific	4,781	3,993	788	117	842	397

Continued on next page.

**Table 3.26-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR
PRIVATE COLLEGES AND UNIVERSITIES: 2009 TO 2017 -- Con.**

Year and institution 1/	Fall enrollment 2/			Earned degrees conferred 3/		
	Total	Undergrad.	Graduate	Associate's	Bachelor's	Master's
2016, total	9,156	7,914	1,242	343	1,724	570
Brigham Young	2,601	2,601	-	174	595	-
Chaminade	2,474	1,877	597	56	385	231
Hawaii Pacific	4,081	3,436	645	113	744	339
2017, total	9,390	8,225	1,165	401	1,708	502
Brigham Young	2,855	2,855	-	243	651	-
Chaminade	2,389	1,810	579	76	390	249
Hawaii Pacific	4,146	3,560	586	82	667	253

1/ Brigham Young University, Hawaii Campus (in Laie); Chaminade University of Honolulu; Hawaii Pacific University (in Honolulu).

2/ In regular credit programs.

3/ Year ended June 30.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual mail and survey of school officials.

Table 3.27-- RESIDENCE AND MIGRATION OF FRESHMEN STUDENTS IN INSTITUTIONS OF HIGHER EDUCATION AND FRESHMEN STUDENTS GRADUATING FROM HIGH SCHOOL IN THE PAST 12 MONTHS: FALL 2014 AND FALL 2016

Category	All freshman students 2/	Freshmen students who received high school diplomas in past 12 months 1/	
		Total	In 4-year colleges
Fall 2014			
Students enrolled in state 3/	9,613	7,037	4,034
Student residents of any state 4/	11,129	8,551	5,551
Students remaining in state 5/	7,395	5,300	2,473
Migration of students			
Out of state	3,734	3,251	3,078
Into state	2,218	1,737	1,561
Net migration	-1,516	-1,514	-1,517
Fall 2016			
Students enrolled in state 3/	8,414	6,373	3,895
Student residents of any state 4/	10,355	8,238	5,683
Students remaining in state 5/	6,452	4,842	2,485
Migration of students			
Out of state	3,903	3,396	3,198
Into state	1,962	1,531	1,410
Net migration	-1,941	-1,865	-1,788

1/ Freshman students, graduating from high school in the past 12 months, who are enrolled at the reporting institution for the first time.

2/ Freshman students who are enrolled at the reporting institution for the first time.

3/ New students, whether in-migrants or "remaining."

4/ New students residing in Hawaii when first admitted to the reporting institution, whether in Hawaii or on the Mainland.

5/ New students attending institutions in their home state.

Source: U.S. Department of Education, National Center for Education Statistics, Institute of Education Sciences, *Digest of Education Statistics* (annual), Tables 309.10-309.30, <<https://nces.ed.gov/programs/digest/>> accessed May 25, 2018.

**Table 3.28-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY
SYSTEM: 2013 TO 2017**

Subject	2013	2014	2015	2016	2017
Library locations, June 30					
State	50	50	50	50	50
Oahu	24	24	24	24	24
Other islands	26	26	26	26	26
Personnel, June 30	555.00	547.50	548.00	550.00	559.00
Hours open 1/	91,760	92,285	92,616	95,597	93,968
Collections, June 30 (1,000)	3,787	3,724	3,670	3,452	3,397
Circulation, year ended June 30 (1,000)	6,646	6,520	6,446	6,343	5,965
eBooks/audio/music circulation, year ended June 30	192,683	356,120	475,652	635,464	754,482
Customer visits (1,000)	5,153	4,875	4,941	4,490	4,135
Reference questions (1,000)	667	674	664	552	537
Public computers	769	775	760	775	745
Sites with wireless service	50	50	50	50	50
Internet sessions	855,967	900,662	1,051,831	1,401,297	1,261,855
Library programs	3,579	3,956	4,305	5,130	5,241
Attendance	127,446	128,671	139,423	153,052	143,974
Group visits	5,455	5,564	5,195	5,034	5,390
Attendance	113,112	119,454	114,649	103,552	117,933

1/ The total annual service hours for all Hawaii State Public Library System libraries are included.
Source: Hawaii State Public Library System, Office of the State Librarian, records.

Table 3.29-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM, BY COUNTY: 2017

[As of June 30]

County	Library locations	Personnel	Circulation	
State total	50	559.00	5,964,611	
Oahu	24	415.50	3,318,491	
Hawaii	12	63.50	917,299	
Kauai	6	33.00	390,717	
Maui 1/	8	47.00	583,622	
Statewide eBooks/eAudio	(NA)	(NA)	754,482	
	Collections			
County	Books	Periodical subscriptions	DVDs and video tapes	Sound recordings
State total	2,947,366	2,666	169,612	172,618
Oahu	1,878,169	1,252	85,472	64,460
Hawaii	456,341	488	37,918	25,100
Kauai	233,168	210	18,268	7,896
Maui 1/	337,953	697	27,787	16,473
State Library for the Blind and Physically Handicapped 2/	41,735	19	167	58,689

NA Not available.

1/ Includes libraries on Lanai (one location), Maui (six locations), and Molokai (one location).

2/ Books include the Braille. Sound recordings include recorded cassettes and digital books.

Source: Hawaii State Public Library System, Office of the State Librarian, records.

**Table 3.30-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION,
BY CAMPUS: 2016 AND 2017**

Campus	Number of volumes, June 30 1/		Circulation, year ended June 30		Number of electronic titles, June 30 2/		Number of electronic full-text items retrieved 2/	
	2016	2017	2016	2017	2016	2017	2016	2017
All campuses	3/ 3,926,107	3,938,383	3/ 280,284	251,947	3/ 477,795	472,106	3/ 3,880,549	3,449,235
UH Manoa, total	3/ 3,297,564	3,312,882	175,951	162,535	3/ 245,346	321,022	3/ 2,362,484	1,983,438
University of Hawaii at Manoa	3/ 3,250,128	3,264,891	170,653	157,840	3/ 224,812	284,966	3/ 1,790,053	1,392,333
UH Manoa Law Library	40,350	40,824	5,009	4,483	16,739	33,320	447,370	430,171
UH Manoa Health Sciences Library 4/	7,086	7,167	289	212	3,795	2,736	125,061	160,934
University of Hawaii-West Oahu	30,717	29,248	3/ 4,903	5,163	58,625	55,782	3/ 138,637	203,856
University of Hawaii at Hilo 5/	227,442	227,389	3/ 31,273	26,249	33,480	29,735	3/ 805,521	735,292
University of Hawaii Maui College 6/	55,857	55,320	3/ 9,466	7,216	25	50	3/ 156,860	125,449
Community colleges, total 5/	3/ 314,527	313,544	3/ 58,691	50,784	140,319	65,517	3/ 417,047	401,200
Honolulu	63,772	63,604	6,687	5,466	130,666	55,304	3/ 78,671	47,318
Kapiolani	77,573	78,780	15,000	15,278	710	467	3/ 149,100	135,227
Leeward	70,125	68,801	25,068	19,057	8,071	8,326	3/ 133,930	160,412
Windward	46,579	46,469	10,600	8,782	179	570	3/ 43,465	42,773
Kauai	54,110	53,522	837	1,705	693	850	3/ 11,881	15,470
Hawaii CC - Palamanui	2,368	2,368	499	496	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Number of volumes in monographs only and excludes microforms.

2/ Electronic titles include books, journals, databases.

3/ Revised from previous *Data Book*.

4/ John A. Burns School of Medicine.

5/ Hawaii Community College is included with the University of Hawaii at Hilo.

6/ Maui volumes includes holdings in Molokai, Lanai and Hana.

Source: University of Hawaii at Manoa Library, records.

Section 4

LAW ENFORCEMENT, COURTS, AND PRISONS

Statistics in this section refer to crimes, stolen property, arrests, police personnel, attorneys, the judiciary system, prisons, and correctional facilities.

Statistics on law enforcement, courts, and prisons in Hawaii appear in the annual reports of the county police departments, the Hawaii State Judiciary, the Hawaii State Department of Public Safety, and the Administrative Office of the United States Courts. The Hawaii State Department of the Attorney General issues crime summary reports. Figures on crime, the courts, and corrections in earlier years appear in *Historical Statistics of Hawaii*, Section 10. National data are summarized in the *Statistical Abstract of the United States: 2012*, Section 5.

Table
Number **Table Name**

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Narrative

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Table 4.01-- INDEX OFFENSES, BY COUNTY: 1996 TO 2016

[Index Offenses include murder, rape, robbery, aggravated assault, burglary, larceny-theft, and motor vehicle theft. Excludes arson in the Index Offenses total]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1996	77,961	64.8	60,059	6,855	2,977	8,070
1997	71,492	59.0	53,410	7,317	2,849	7,916
1998	63,623	52.4	47,453	6,757	2,263	7,150
1999	57,324	47.4	42,678	5,815	2,076	6,755
2000	62,987	51.9	46,659	6,425	2,578	7,325
2001	65,947	53.8	48,442	6,985	2,346	8,174
2002	75,238	60.7	57,271	6,936	3,045	7,986
2003	69,267	55.4	50,912	7,133	3,043	8,179
2004	63,665	50.0	46,628	6,219	2,701	8,117
2005	64,067	49.6	44,953	8,278	2,221	8,615
2006	58,347	44.5	41,055	6,760	2,711	7,821
2007	56,411	42.9	39,810	6,369	3,008	7,224
2008	49,454	37.1	34,356	5,935	2,792	6,371
2009	51,066	37.9	35,912	6,211	2,895	6,048
2010	49,270	36.1	34,216	5,769	2,722	6,563
2011	47,340	34.3	32,982	5,201	2,861	6,296
2012	46,797	33.6	31,781	5,799	2,803	6,414
2013	48,569	34.5	33,820	5,833	2,762	6,154
2014	48,651	34.3	32,936	7,182	2,224	6,309
2015	48,919	34.3	33,522	7,096	1,739	6,562
2016	45,805	32.1	32,558	5,395	1,661	6,191

1/ Annual rate per 1,000 resident population based on July 1 estimates by the U.S. Census Bureau, as revised through December 2017. Rates for 2000 and beyond may differ from previous *Data Books* due to revisions to these population figures. Population estimates for 2000 through 2009 were revised based upon the April 1, 2010 figures which were released September 2011. Rates may also differ from those released by the Department of the Attorney General due to these population revisions.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Uniform Crime Reports* (annual) <<http://ag.hawaii.gov/cpja/rs/cih/>> accessed September 25, 2017 and records; U.S. Census Bureau, Population Division, "Table 1. Intercensal Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2000 to July 1, 2010" (ST-EST00INT-01) (September 2011) <<http://www.census.gov/popest/data/intercensal/state/tables/ST-EST00INT-01.xls>> accessed September 28, 2011 and "Table 1. Annual Estimates of the Resident Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2017" (NST-EST2017-01) (December 2017) <<https://www2.census.gov/programs-surveys/popest/tables/2010-2017/state/totals/nst-est2017-01.xlsx>> accessed December 20, 2017; and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

Table 4.02-- INDEX OFFENSES, BY TYPE OF OFFENSE: 2007 TO 2016

Offense	2007	2008	2009	2010	2011
All Index Offenses 1/	56,411	49,454	51,066	49,270	47,340
Murder	25	26	23	25	21
Rape 2/	(NA)	(NA)	(NA)	(NA)	(NA)
Rape (legacy) 2/	377	363	385	377	353
Robbery	1,122	1,085	1,030	1,065	994
Aggravated assault	2,021	2,036	2,112	2,136	2,098
Burglary	9,089	9,404	9,244	8,706	8,165
Larceny-theft	37,494	31,424	33,415	31,681	31,240
Motor vehicle theft	6,283	5,116	4,857	5,280	4,469
Arson	554	509	501	441	357
Human trafficking - Commercial sex acts	(NA)	(NA)	(NA)	(NA)	(NA)
Human trafficking - Involuntary servitude	(NA)	(NA)	(NA)	(NA)	(NA)
Offense	2012	2013	2014	2015	2016
All Index Offenses 1/	46,797	48,569	48,651	48,919	45,805
Murder	21	29	27	29	35
Rape 2/	(NA)	(NA)	544	538	601
Rape (legacy) 2/	279	341	306	357	317
Robbery	1,125	951	957	1,085	985
Aggravated assault	1,953	2,117	1,892	1,878	1,831
Burglary	7,653	7,727	7,458	6,810	5,983
Larceny-theft	31,901	32,741	32,451	33,140	30,871
Motor vehicle theft	3,865	4,663	5,322	5,439	5,499
Arson	312	333	249	417	485
Human trafficking - Commercial sex acts	(NA)	(NA)	1	4	2
Human trafficking - Involuntary servitude	(NA)	(NA)	-	-	-

NA Not available.

1/ Excludes arson and human trafficking offenses. From 2014 onward, it also excludes rape (legacy). Rape under the legacy definition, however, is already included in the rape count under the revised definition.

2/ On January 1, 2014, the State of Hawaii began the collection of rape data using a revised definition. The State of Hawaii will continue to also collect rape data under the old, or legacy, definition so that comparative trends can be established. See source document for more information.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Uniform Crime Reports* (annual) <<http://ag.hawaii.gov/cpja/rs/cih/>> accessed September 25, 2017 and records.

**Table 4.03-- OFFENSES AND OFFENSES CLEARED BY ARREST
OR OTHERWISE, BY CLASS OF OFFENSE: 1998 TO 2016**

Year	Offenses		Number cleared by arrest or otherwise 3/		Clearances per 100 offenses 3/	
	Index Offenses 1/	Part II, except traffic 2/	Index Offenses 1/	Part II, except traffic 2/	Index Offenses 1/	Part II, except traffic 2/
1998	63,623	109,183	12,023	72,564	18.9	66.5
1999	57,324	107,135	9,947	70,826	17.4	66.1
2000	62,987	113,060	8,998	72,075	14.4	63.7
2001	65,947	111,477	8,096	61,941	12.3	55.6
2002	75,238	118,822	7,872	62,964	10.5	53.0
2003	69,267	112,952	7,945	57,557	11.5	51.0
2004	63,665	110,839	7,314	58,254	11.5	52.6
2005	64,067	109,914	7,047	57,791	11.0	52.6
2006	58,347	110,780	(NA)	(NA)	12.0	(NA)
2007	56,411	113,928	(NA)	(NA)	13.4	(NA)
2008	49,454	112,885	(NA)	(NA)	14.5	(NA)
2009	51,066	109,687	(NA)	(NA)	15.6	(NA)
2010	49,270	104,387	(NA)	(NA)	15.4	(NA)
2011	47,340	104,975	(NA)	(NA)	16.5	(NA)
2012	46,797	105,734	(NA)	(NA)	17.5	(NA)
2013	48,569	104,895	(NA)	(NA)	16.3	(NA)
2014	48,651	101,152	(NA)	(NA)	16.2	(NA)
2015	48,919	102,087	(NA)	(NA)	15.3	(NA)
2016	45,805	99,115	(NA)	(NA)	13.5	(NA)

NA Not available.

1/ Index Offenses include murder, rape, robbery, aggravated assault, burglary, larceny-theft, and motor vehicle theft. Figures revised from *Data Books* prior to 2000 to exclude negligent manslaughter. Excludes arson.

2/ Part II data include all offenses, except traffic, that are not included in the Index Offenses. The list of these Part II offenses include other assault, disorderly conduct, driving under the influence, drug abuse violations, embezzlement, forgery and counterfeiting, fraud, gambling, liquor laws, manslaughter by negligence, offenses against the family and children, prostitution and commercialized vice, sex offenses, stolen property, vagrancy, vandalism, and weapons offenses.

3/ Annual data on clearances include prior years' offenses cleared in the current year.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Uniform Crime Reports* (annual) <<http://ag.hawaii.gov/cpja/rs/cih/>> accessed September 25, 2017 and records.

**Table 4.04-- OFFENSES, BY CLASS OF OFFENSE,
BY COUNTY: 2014 TO 2016**

County	Index 1/	Part II 2/
2014, total	48,651	101,152
Honolulu	32,936	57,405
Hawaii	7,182	13,639
Kauai	2,224	4,056
Maui	6,309	26,052
2015, total	48,919	102,087
Honolulu	33,522	58,911
Hawaii	7,096	14,623
Kauai	1,739	3,877
Maui	6,562	24,676
2016, total	45,805	99,115
Honolulu	32,558	56,678
Hawaii	5,395	13,435
Kauai	1,661	4,030
Maui	6,191	24,972

1/ Index Offenses include murder, rape, robbery, aggravated assault, burglary, larceny-theft, and motor vehicle theft. Excludes arson in the Index Offenses total.

2/ Part II data include all other offenses, except traffic, that are not included in the Index Offenses. The list of these Part II offenses include other assault, disorderly conduct, driving under the influence, drug abuse violations, embezzlement, forgery and counterfeiting, fraud, gambling, liquor laws, manslaughter by negligence, offenses against the family and children, prostitution and commercialized vice, sex offenses, stolen property, vagrancy, vandalism, and weapons offenses. All traffic cases are excluded.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Uniform Crime Reports* (annual) <<http://ag.hawaii.gov/cpja/rs/cih/>> accessed September 25, 2017.

Table 4.05-- INDEX OFFENSES AND INDEX OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 2015 AND 2016

Type of offense	Offenses known to police		Percent cleared by arrest or otherwise 1/	
	State total	Oahu	State total	Oahu
2015 all Index Offenses, total 2/	48,919	33,522	15.3	13.0
Murder	29	15	75.9	66.7
Rape 3/	538	318	40.7	36.8
Rape (legacy) 3/	357	208	(NA)	(NA)
Robbery	1,085	896	29.7	24.1
Aggravated assault	1,878	1,208	53.2	43.0
Burglary	6,810	4,284	8.9	6.0
Larceny-theft	33,140	22,930	14.6	13.7
Motor vehicle theft	5,439	3,871	8.9	2.9
Arson	417	231	10.8	10.4
Human trafficking - Commercial sex acts	4	3	25.0	0.0
Human trafficking - Involuntary servitude	-	-	0.0	0.0
2016 all Index Offenses, total 2/	45,805	32,558	13.5	11.2
Murder	35	16	94.3	100.0
Rape 3/	601	364	40.6	44.5
Rape (legacy) 3/	317	167	(NA)	(NA)
Robbery	985	827	26.7	23.0
Aggravated assault	1,831	1,159	53.6	43.3
Burglary	5,983	3,724	8.1	5.6
Larceny-theft	30,871	22,277	12.3	10.9
Motor vehicle theft	5,499	4,191	7.3	3.5
Arson	485	263	7.6	5.3
Human trafficking - Commercial sex acts	2	2	(NA)	(NA)
Human trafficking - Involuntary servitude	-	-	(NA)	(NA)

Continued on next page.

**Table 4.05-- INDEX OFFENSES AND INDEX OFFENSES CLEARED BY
ARREST OR OTHERWISE, FOR THE STATE AND OAHU:
2015 AND 2016 -- Con.**

NA Not available.

1/ Includes clearances of offenses committed in prior years.

2/ Excludes arson and human trafficking offenses. From 2014 onward, it also excludes rape (legacy).

Rape under the legacy definition, however, is already included in the rape count under the revised definition.

3/ On January 1, 2014, the State of Hawaii began the collection of rape data using a revised definition.

The State of Hawaii will continue to also collect rape data under the old, or legacy, definition so that comparative trends can be established. See source document for more information.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Uniform Crime Reports* (annual) <<http://ag.hawaii.gov/cjja/rs/cih/>> accessed September 25, 2017 and records.

**Table 4.06--REPORTED OFFENSES, BY HONOLULU
POLICE DEPARTMENT DISTRICT: 2015 TO 2017**

[Reported offenses include unfounded complaints, which are screened out in the counting of actual offenses. Counts of reported offenses are a common measure of workload. Offenses for which no police district was listed are not shown in this table]

Offense	Central Hono-lulu	Wahia-wa	Pearl City	Kailua-Kaneohe-Kahuku	Kalihi	Waikiki	East Hono-lulu	Kapolei/Waianae
2015, total	6,638	2,401	5,151	3,826	4,283	3,361	4,043	4,097
Murder	2	2	2	1	10	1	1	5
Rape	36	40	26	34	55	42	33	68
Robbery	221	30	131	49	142	136	85	108
Aggravated assault	241	97	111	146	180	118	89	233
Burglary	570	320	577	652	596	236	713	645
Larceny	4,887	1,628	3,579	2,563	2,746	2,572	2,413	2,655
Auto theft	681	284	725	381	554	256	709	383
2016, total	6,529	2,425	5,014	3,402	4,083	3,068	4,389	4,467
Murder	7	1	-	2	5	2	2	6
Rape	71	47	40	41	69	34	40	81
Robbery	220	29	139	54	122	93	70	91
Aggravated assault	248	99	133	142	161	103	76	231
Burglary	459	359	598	412	460	155	704	624
Larceny	4,880	1,566	3,287	2,240	2,676	2,475	2,839	2,892
Auto theft	644	324	817	511	590	206	658	542
2017, total	6,869	2,690	4,992	3,112	4,320	3,342	3,836	5,199
Murder	5	4	2	2	6	5	-	3
Rape	77	63	39	54	53	42	52	81
Robbery	253	55	130	47	127	112	89	131
Aggravated assault	248	120	143	143	195	109	92	284
Burglary	477	317	547	379	499	146	750	615
Larceny	5,255	1,813	3,487	2,192	2,973	2,780	2,517	3,440
Auto theft	554	318	644	295	467	148	336	645

Source: City and County of Honolulu, Honolulu Police Department, *Annual Report* (annual)
<<http://www.honolulu.org/information/index.php>> accessed May 24, 2018.

**Table 4.07-- PERSONS ARRESTED FOR INDEX AND PART II OFFENSES,
BY AGE AND SEX, AND BY COUNTY: 2016**

Subject	State total	Honolulu	Hawaii	Maui	Kauai
Index Offenses 1/					
Total	5,748	3,110	1,009	1,299	330
Juveniles	863	561	88	157	57
Male	597	391	69	108	29
Female	266	170	19	49	28
Adults	4,885	2,549	921	1,142	273
Male	3,623	1,919	656	844	204
Female	1,262	630	265	298	69
Part II Offenses 2/					
Total	38,535	21,538	6,432	8,280	2,285
Juveniles	4,729	3,166	639	472	452
Male	2,883	1,952	388	295	248
Female	1,846	1,214	251	177	204
Adults	33,806	18,372	5,793	7,808	1,833
Male	26,225	14,610	4,289	5,979	1,347
Female	7,581	3,762	1,504	1,829	486

1/ Index Offenses include murder, rape, robbery, aggravated assault, burglary, larceny-theft, and motor vehicle theft. Total Index Offense arrests include arrests for arson.

2/ Part II data include all other offenses, except traffic, that are not included in the Index Offenses. The list of these Part II offenses include other assault, disorderly conduct, driving under the influence, drug abuse violations, embezzlement, forgery and counterfeiting, fraud, gambling, liquor laws, manslaughter by negligence, offenses against the family and children, prostitution and commercialized vice, sex offenses, stolen property, vagrancy, vandalism, and weapons offenses. All traffic cases are excluded.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Crime in Hawaii 2016* <<http://ag.hawaii.gov/cpja/rs/cih/>> accessed September 25, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 4.08-- CHILD ABUSE AND NEGLECT REPORTS: 1975 TO 2017

[Number of reports accepted for investigation. A child is counted each time he/she was found to be a victim. There may be several reports for one child or several children in one report. Data prior to 2000 were based on report date, while data from 2000 onward were based on disposition date. The disposition date is the date the report was confirmed]

Year	Reported	Confirmed	Year	Reported	Confirmed	Year	Reported	Confirmed
1975	914	423	1990	4,407	2,392	2005	5,207	2,645
1976	1,325	634	1991	4,365	2,318	2006	3,974	1,928
1977	1,794	841	1992	4,568	2,485	2007	4,690	2,082
1978	1,845	1,110	1993	4,753	2,411	2008	4,628	1,850
1979	2,290	1,109	1994	5,186	2,334	2009	5,939	2,174
1980	2,106	1,059	1995	4,984	2,317	2010	4,199	1,575
1981	2,360	1,137	1996	4,775	2,268	2011	3,751	1,424
1982	2,685	1,379	1997	5,235	2,531	2012	3,948	1,392
1983	3,635	1,621	1998	4,762	2,242	2013	3,752	1,329
1984	4,388	2,180	1999	5,962	2,935	2014	3,681	1,406
1985	4,359	2,391	2000	6,184	3,533	2015	3,747	1,568
1986	4,900	2,629	2001	7,210	3,930	2016	3,626	1,355
1987	4,741	2,555	2002	7,318	3,744	2017	3,702	1,297
1988	3,893	2,315	2003	7,835	3,868			
1989	4,054	2,386	2004	6,823	3,396			

Source: Hawaii State Department of Human Services, Management Services Office, *A Statistical Report on Child Abuse and Neglect in Hawaii* (annual) <<http://humanservices.hawaii.gov/reports/child-abuse-and-neglect-reports/>> accessed June 29, 2018.

**Table 4.09-- CHARACTERISTICS OF CHILD ABUSE AND NEGLECT
VICTIMS: 2014 TO 2017**

[Confirmed, unduplicated count of children. A child is only counted once, regardless of how many times he/she was reported]

Subject	2014	2015	2016	2017
Total	1,382	1,546	1,351	1,274
Type 1/ ^{1/}				
Physical abuse	147	166	139	102
Neglect	209	224	205	149
Medical neglect	17	29	8	17
Sexual abuse	67	69	67	60
Psychological abuse	9	14	10	17
Threatened harm	1,145	1,296	1,190	1,149
County				
Hawaii	335	418	343	354
Honolulu	718	759	709	605
Kauai	105	108	98	76
Maui	224	261	201	239
Victim characteristics				
Age (percent)				
Less than one year to 4 years	44.1	42.9	44.0	44.3
5 to 11 years	33.4	33.2	35.5	33.0
12 to 17 years	22.4	23.5	20.5	22.4
Unknown	0.1	0.3	0.1	0.3
Females (percent)	52.6	51.6	50.4	50.9
Race (percent)				
Hawaiian or Part Hawaiian	42.6	45.4	44.6	42.2
Mixed	16.6	12.5	17.5	12.2
White	14.0	14.8	14.0	17.1
Filipino	6.4	7.8	7.0	7.8
Micronesian	3.0	2.7	3.5	4.0
Samoan	2.8	2.7	2.7	2.9
Black	2.8	3.4	2.7	2.0
Hispanic/Spanish	2.2	1.6	1.9	3.8
Other	4.4	3.6	4.1	4.9
Unknown/unable to determine	5.1	5.6	2.0	3.1

1/ Each type of abuse and neglect is counted only once, regardless of how many times the abuse/neglect has been reported. Each child may have one or more types of abuse in the report year, however, so the sum of the types exceeds the total unduplicated count of children whose reports were confirmed.

Source: Hawaii State Department of Human Services, Management Services Office, *A Statistical Report on Child Abuse and Neglect in Hawaii (annual)* <<http://humanservices.hawaii.gov/reports/child-abuse-and-neglect-reports/>> accessed June 29, 2018.

Table 4.10-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1990 TO 2016

Year	Motor vehicle thefts			Other stolen property		
	Value stolen (\$1,000)	Value recovered 1/		Value stolen (\$1,000)	Value recovered 1/	
		Amount (\$1,000)	Percent		Amount (\$1,000)	Percent
1990	10,152.1	7,752.2	76.4	41,026.4	1,824.3	4.4
1991	8,231.7	6,584.4	80.0	57,399.0	2,650.3	4.6
1992	7,806.9	6,439.5	82.5	50,186.9	3,177.5	6.3
1993	10,604.6	7,703.6	72.6	52,523.6	2,957.9	5.6
1994	12,130.1	9,283.5	76.5	56,242.1	3,355.1	6.0
1995	14,916.3	11,821.0	79.2	59,467.6	2,978.2	5.0
1996	17,884.9	13,933.6	77.9	59,619.9	3,538.0	5.9
1997	15,908.6	11,341.6	71.3	50,515.4	2,262.1	4.5
1998	12,406.3	8,702.4	70.1	47,282.6	2,492.7	5.3
1999	10,295.3	7,425.8	72.1	41,141.6	2,030.3	4.9
2000	10,668.4	7,972.4	74.7	48,654.7	1,654.6	3.4
2001	12,801.3	8,558.9	66.9	48,731.3	2,288.1	4.7
2002	15,538.4	11,478.1	73.9	53,506.8	2,192.4	4.1
2003	11,794.6	8,305.3	70.4	47,898.9	2,122.1	4.4
2004	12,405.4	8,132.5	65.6	52,757.4	3,169.6	6.0
2005	51,801.2	29,645.8	57.2	54,224.7	3,131.3	5.8
2006	48,313.1	27,863.5	57.7	57,223.9	5,017.0	8.8
2007	37,647.4	24,008.8	63.8	57,591.8	3,233.2	5.6
2008	33,960.8	21,658.5	63.8	51,704.5	2,746.0	5.3
2009	28,780.3	19,600.5	68.1	58,907.6	3,378.9	5.7
2010	28,857.8	17,963.2	62.2	52,556.6	3,576.0	6.8
2011	24,320.3	16,689.7	68.6	54,139.2	3,926.6	7.3
2012	19,497.7	12,270.6	62.9	51,297.2	3,442.7	6.7
2013	23,618.0	14,471.9	61.3	50,959.2	3,735.1	7.3
2014	28,055.1	16,358.5	58.3	50,702.9	3,865.3	7.6
2015	32,486.4	20,779.9	64.0	52,615.4	4,327.9	8.2
2016	33,261.0	22,124.0	66.5	46,858.1	3,635.4	7.8

1/ Annual data include prior years' stolen property recovered in current year.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Uniform Crime Reports* (annual) <<http://ag.hawaii.gov/cpja/rs/cih/>> accessed September 25, 2017; and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

Table 4.11-- VALUE OF PROPERTY STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY COUNTY: 2015 AND 2016

[In thousands of dollars unless otherwise specified]

Subject	State total	Honolulu	Hawaii	Maui	Kauai
2015					
Value of property stolen	85,101.8	57,794.5	12,073.3	13,334.6	1,899.3
Motor vehicles	32,486.4	22,940.5	4,762.6	4,489.0	294.3
Other property	52,615.4	34,854.0	7,310.8	8,845.6	1,605.0
Value of stolen property recovered 1/	25,107.8	17,123.0	2,931.8	4,621.7	431.4
Motor vehicles	20,779.9	14,522.2	2,684.3	3,365.2	208.1
Other property	4,327.9	2,600.7	247.5	1,256.5	223.3
Percent of value recovered	29.5	29.6	24.3	34.7	22.7
Motor vehicles	64.0	63.3	56.4	75.0	70.7
Other property	8.2	7.5	3.4	14.2	13.9
2016					
Value of property stolen	80,119.1	57,114.8	8,201.6	12,844.0	1,958.8
Motor vehicles	33,261.0	24,167.2	3,034.1	5,652.5	407.3
Other property	46,858.1	32,947.6	5,167.5	7,191.5	1,551.5
Value of stolen property recovered 1/	25,759.4	19,108.5	1,972.0	4,260.8	418.0
Motor vehicles	22,124.0	16,506.0	1,550.3	3,746.6	321.1
Other property	3,635.4	2,602.5	421.8	514.2	96.9
Percent of value recovered	32.2	33.5	24.0	33.2	21.3
Motor vehicles	66.5	68.3	51.1	66.3	78.8
Other property	7.8	7.9	8.2	7.1	6.2

1/ Annual data include prior years' stolen property recovered in current year.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Uniform Crime Reports* (annual) <<http://ag.hawaii.gov/cpja/rs/cih/>> accessed September 25, 2017; and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

**Table 4.12-- CRIME RATES FOR HAWAII AND THE UNITED STATES:
2015 AND 2016**

[Offenses per 100,000 estimated population. Type of offenses include murder, rape, robbery, aggravated assault, burglary, larceny-theft, and motor vehicle theft. Excludes arson]

Type of offense	Hawaii rate 1/		U.S. rate	
	2015	2016	2015 2/	2016
Violent crime	246.6	241.6	373.7	386.3
Property crime	3,170.5	2,964.7	2,500.5	2,450.7

1/ Hawaii rates were obtained from the Hawaii State Department of the Attorney General's annual *Uniform Crime Report*. These rates are based on the most current and accurate data available, whereas the comparable FBI data (see source) may have been estimated for certain jurisdictions, depending on whether or not federal reporting deadlines were met.

2/ Revised from previous *Data Book*.

Source: U.S. Department of Justice, Federal Bureau of Investigation, Criminal Justice Information Services Division, *Crime in the U.S., 2016* <<https://ucr.fbi.gov/crime-in-the-u.s/2016/crime-in-the-u.s.-2016/tables/table-1>> accessed September 25, 2017; Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Crime in Hawaii: Uniform Crime Report* (annual) <<http://ag.hawaii.gov/cpja/rs/cih/>> accessed September 25, 2017.

Table 4.13-- AUTHORIZED POLICE PERSONNEL, BY COUNTY: 2017

[As of December 31]

Status	State total	Honolulu	Hawaii	Kauai	Maui
Total	4,602	3,201	651	230	520
Sworn, active	3,118	2,143	450	140	385
Sworn, reserve	120	100	20	-	-
Training pool	420	360	37	23	-
Not sworn (civilian)	944	598	144	67	135
Police radio dispatcher	243	1/ 142	31	20	50

1/ Excludes operators who handle 911 calls only.

Source: County police departments, records.

**Table 4.14-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:
2015 TO 2017**

[As of June 30 unless otherwise specified]

Subject	2015	2016	2017
Federal judges and magistrates 1/			
U.S. Bankruptcy Court	1	1	1
U.S. District Court	7	7	7
State justices and judges 2/			
Supreme Court	5	5	5
Intermediate Court of Appeals	6	6	6
Circuit Courts 3/	33	33	33
Assigned to Family Court	4	4	4
District Courts 4/	38	38	38
Assigned to Family Court	15	15	15
Land Court	(5/)	(5/)	(5/)
Tax Appeal Court	(5/)	(5/)	(5/)
Attorneys licensed in Hawaii (includes judges) 6/	7,641	7,804	7,881
Active	4,834	4,858	4,879
Inactive	2,807	2,946	3,002

1/ Authorized full-time positions.

2/ Authorized and funded full-time positions.

3/ Includes judges assigned to the Family Courts, a division of the Circuit Courts. In addition, Circuit Court judges may be assigned to hear matters before the Land Court and Tax Appeal Court, both of which are specialized courts separate from the Circuit Courts. There are four Circuit Courts, convened in seven locations.

4/ Includes judges assigned to the Family Courts, a division of the Circuit Courts. There are four District Courts, one in each of the four judicial circuits, convened in fourteen locations.

5/ Caseload assigned to Circuit Court judges.

6/ Figures shown in the Hawaii State Bar Association annual report. No specific date for the data is listed in the report.

Source: Office of the Clerk, U.S. District Court, records; Office of the Administrative Director of the Courts, State Judiciary, records; Hawaii State Bar Association, *HSBA Bar Statistics and Summaries* (annual) <http://hsba.org/HSBA/ABOUT_US/Statistics/HSBA/About_Us/Statistics.aspx?hkey=564e3031-a52f-44a4-aff-13cfc116cb6f> accessed September 26, 2017.

**Table 4.15-- UNITED STATES DISTRICT COURT CASES:
2013 TO 2017**

[Fiscal year ending September 30]

Subject	2013	2014	2015	2016	2017
Civil cases					
Commenced (filings)	707	710	576	759	700
Terminated 1/	797	748	614	630	713
Pending 1/	596	559	520	2/ 646	633
Criminal cases 3/					
Commenced (filings)	261	211	160	2/ 157	204
Terminated	288	289	239	2/ 191	162
Pending 4/	453	390	327	2/ 402	450
Bankruptcy					
Commenced (filings)	2,313	1,805	1,593	1,463	1,388
Business	96	68	80	58	38
Nonbusiness	2,217	1,737	1,513	1,405	1,350
Terminated	2,307	1,920	1,783	1,710	1,516
Pending	2,738	2,624	2,435	2/ 2,178	2,050

1/ Includes cases filed in previous years as consolidated cases that thereafter were severed into individual cases.

2/ Revised from previous *Data Book*.

3/ This table includes defendants in all cases filed as felonies or Class A misdemeanors, but includes only those defendants in cases filed as petty offenses that were assigned to district judges rather than magistrate judges.

4/ Excludes defendants who had been fugitives more than 12 months before the end of the period indicated.

Source: Administrative Office of the United States Courts, *Judicial Business of the United States Courts Annual Report of the Director* (annual) <<http://www.uscourts.gov/Statistics/JudicialBusiness.aspx>> accessed May 2, 2018.

Table 4.16-- UNITED STATES BANKRUPTCY COURT CASES FILED UNDER CHAPTER 7, 11 AND 13 OF THE BANKRUPTCY CODE: 2004 TO 2017

[Based upon original chapter designation at the time the case is originally filed. Table includes cases filed in 2017 which were on the caseload as of December 31, 2017]

Year	Chapter 7 1/			Chapter 11 2/			Chapter 13 3/		
	Total	Busi- ness	Per- sonal	Total	Busi- ness	Per- sonal	Total	Busi- ness	Per- sonal
2004	2,714	29	2,685	18	12	6	366	4	362
2005	4,125	62	4,063	17	15	2	340	3	337
2006 4/	793	16	777	9	6	3	151	1	150
2007	1,127	40	1,087	15	13	2	242	2	240
2008	1,618	53	1,565	23	21	2	436	8	428
2009	2,498	87	2,411	15	14	1	601	10	591
2010	3,040	124	2,916	20	16	4	836	14	822
2011	2,571	129	2,442	24	19	5	739	15	724
2012	1,918	54	1,864	12	9	3	602	11	591
2013	1,521	72	1,449	22	14	8	525	14	511
2014	1,204	45	1,159	11	8	3	488	7	481
2015	1,070	45	1,025	14	13	1	453	6	447
2016	907	31	876	12	11	1	442	4	438
2017	902	30	872	9	8	1	417	9	408

1/ Chapter 7 cases involve the bankruptcy trustee's gathering and sale of the debtor's nonexempt assets, from which holders of claims will receive distributions in accordance with the provisions of the Bankruptcy Code (excerpt taken from Bankruptcy Division Public Information Series, Administrative Office of the United States Courts).

2/ Chapter 11 is the business reorganization chapter. This type of bankruptcy is used primarily by businesses which wish to reorganize and continue in operations after bankruptcy. The business is allowed to continue operations during the pendency of the case and a trustee is appointed only upon motion of a creditor or party in interest. The debtor is required to file a plan of reorganization. Creditors may vote on the plan and the court is required to approve it (excerpt taken from Bankruptcy Division Public Information Series, Administrative Office of the United States Courts).

3/ Chapter 13 is designed for individuals with regular income who desire to pay their debts but are currently unable to do so. The primary benefit of Chapter 13 relief is the ability to repay creditors, in full or in part, in installments over a three to five year period, during which time creditors are prohibited from starting or continuing collection efforts (excerpt taken from Bankruptcy Division Public Information Series, Administrative Office of the United States Courts).

4/ On April 20, 2005, President Bush signed into law the Bankruptcy Abuse Prevention and Consumer Protection Act of 2005 ("BAPCPA"). BAPCPA made substantial changes to the Bankruptcy Code. Most BAPCPA changes apply only to cases filed on or after October 17, 2005 (excerpt taken from Bankruptcy Division Public Information Series, Administrative Office of the United States Courts).

Source: United States Bankruptcy Court of the District of Hawaii, records; Administrative Office of the United States Courts, *Bankruptcy Basics*

<<http://www.uscourts.gov/bankruptcycourts/bankruptcybasics.html>> accessed January 12, 2007.

**Table 4.17-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
2015 TO 2017**

[Fiscal year ending June 30]

Court and type of action	2015	2016	2017
Supreme Court	523	501	460
Primary cases	169	1/ 304	1/ 267
Applications for transfer	24	23	22
Appeals	82	195	173
Original proceedings	87	86	72
Supplemental proceedings	354	1/ 197	1/ 193
Intermediate Court of Appeals	3,067	3,237	3,097
Primary cases	506	551	2/ 687
Appeals	506	551	2/ 687
Supplemental proceedings	2,561	2,686	2,410
Circuit Courts Proper	17,589	17,676	16,332
Civil actions	4,317	4,181	3,716
Probate proceedings	1,422	1,519	1,581
Conservatorship/guardianship proceedings	229	218	239
Trust proceedings	298	312	288
Miscellaneous proceedings	6,898	6,744	6,109
Criminal actions	4,425	4,702	4,399
Part I	2,073	2,145	(3/)
Part II	2,352	2,557	(3/)
Family Courts	27,893	27,067	25,084
Marital actions and proceedings	5,130	5,109	4,818
Civil union actions and proceedings	16	14	14
Uniform interstate family support	360	353	391
Adoption proceedings	355	380	394
Parental proceedings	1,785	1,661	1,524
Domestic Abuse Protective Orders (Ch. 586)	5,415	5,433	5,267
Miscellaneous proceedings	2,428	2,090	1,976
Criminal actions	3,133	2,855	2,818
Children's referrals	9,271	9,172	7,882

Continued on next page.

**Table 4.17-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
2015 TO 2017 -- Con.**

Court and type of action	2015	2016	2017
District Court	(4/)	468,121	463,953
Total cases (excluding traffic & parking cases)	(4/)	54,535	51,778
Civil actions 5/	24,730	22,511	20,181
Regular civil	17,593	16,067	13,608
Small claims	4,597	3,879	3,924
TRO	2,506	2,520	2,604
Other civil actions 6/	(4/)	45	45
Criminal actions	(4/)	32,024	30,262
Part I	(4/)	5,553	(3/)
Part II	(4/)	24,898	(3/)
Other violations 7/	1,500	1,573	1,335
Total cases (traffic & parking cases)	(4/)	407,425	406,389
Criminal	38,309	36,217	35,532
Felony	3	13	18
Misdemeanor	38,306	36,204	35,514
Non criminal traffic violations	234,364	224,211	206,952
Parking violations	141,332	145,786	162,662
Other violations	(4/)	1,211	1,243
Other proceedings (traffic & parking cases)	(4/)	6,161	5,786
Appeals	(4/)	4	12
Administrative reviews	(4/)	6,157	5,774

1/ In 2016, "Applications for Transfer" and "Applications for Certiorari" were removed from the "Supplemental Proceedings" category and placed under the "Primary Cases" category.

2/ Prior to 2017, appeals were not included until they were docketed. From 2017, the statistical methodology was modified to include all submitted appeals, even if they were not docketed.

3/ The subcategories of Part I and Part II will no longer be used. This is more in line with the Hawaii's actual charge codes.

4/ In 2016, the District Court table was redesigned. Therefore, some categories or category figures shown in earlier years are no longer displayed. The District Court portion of this table is now based on the new 2016 District Court categories.

5/ Data methodology was slightly different in 2016, but figures remained fairly similar.

6/ Includes "Special Proceedings" and "Ignition Interlock".

7/ In 2017, the "Other violations" category was no longer included under the "Criminal actions" category.

Source: The Judiciary, State of Hawaii, *Annual Report Statistical Supplement* (annual)

<http://www.courts.state.hi.us/news_and_reports/reports/reports> accessed June 1, 2018.

**Table 4.18-- STATE JUDICIARY CASES TERMINATED, BY TYPE OF ACTION:
2015 TO 2017**

[Fiscal year ending June 30]

Court and type of action	2015	2016	2017
Supreme Court	481	504	489
Primary cases	130	1/ 315	1/ 290
Applications for transfer	23	16	22
Appeals	48	201	188
Original proceedings	82	91	80
Supplemental proceedings	351	1/ 189	1/ 199
Intermediate Court of Appeals	3,112	3,231	2,956
Primary cases	540	543	572
Appeals	540	543	572
Supplemental proceedings	2,572	2,688	2,384
Circuit Courts Proper	15,279	15,456	12,658
Civil actions	4,381	4,050	3,731
Probate proceedings	341	518	343
Conservatorship/guardianship proceedings	108	100	88
Trust proceedings	126	134	85
Miscellaneous proceedings	6,194	6,329	4,570
Criminal actions	4,129	4,325	3,841
Part I	1,947	1,909	(2/)
Part II	2,182	2,416	(2/)
Family Courts	25,772	25,425	22,946
Marital actions and proceedings	4,997	4,597	3,991
Civil actions and proceedings	8	16	9
Uniform interstate family support	254	260	312
Adoption proceedings	163	297	315
Parental proceedings	1,339	1,113	1,281
Domestic Abuse Protective Orders (Ch. 586)	5,158	5,190	5,085
Miscellaneous proceedings	1,785	1,675	1,667
Criminal actions	2,844	3,232	2,645
Children's referrals	9,224	9,045	7,641

Continued on next page.

**Table 4.18-- STATE JUDICIARY CASES TERMINATED, BY TYPE OF ACTION:
2015 TO 2017 -- Con.**

Court and type of action	2015	2016	2017
District Court	(3/)	515,248	522,358
Total cases (excluding traffic & parking cases)	(3/)	50,000	49,527
Civil actions 4/	21,275	24,221	22,662
Regular civil	14,948	17,681	16,815
Small claims	4,075	4,198	3,484
TRO	2,237	2,312	2,334
Other civil actions 5/	15	30	29
Criminal actions	23,685	25,779	25,494
Part I	3,436	4,987	(2/)
Part II	20,249	19,301	(2/)
Other violations 6/	1,289	1,491	1,371
Total cases (traffic & parking cases)	(3/)	456,143	464,639
Criminal	32,736	39,425	37,766
Felony	3	11	19
Misdemeanor	32,732	39,414	37,747
Other criminal	1	-	-
Non criminal traffic violations	207,320	257,365	250,824
Parking violations	125,607	157,747	174,424
Other violations	(3/)	1,606	1,625
Other proceedings (traffic & parking cases)	(3/)	9,105	8,192
Appeals	(3/)	6	1
Administrative reviews	(3/)	9,099	8,191

1/ In 2016, "Applications for Transfer" and "Applications for Certiorari" were removed from the "Supplemental Proceedings" category and placed under the "Primary Cases" category.

2/ The subcategories of Part I and Part II will no longer be used. This is more in line with the Hawaii's actual charge codes.

3/ In 2016, the District Court table was redesigned. Therefore, some categories or category figures shown in earlier years are no longer displayed. The District Court portion of this table is now based on the new 2016 District Court categories.

4/ Data methodology was slightly different in 2016, but figures remained fairly similar.

5/ Includes "Special Proceedings" and "Ignition Interlock".

6/ In 2017, the "Other violations" category was no longer included under the "Criminal actions" category.

Source: The Judiciary, State of Hawaii, *Annual Report Statistical Supplement* (annual)

<http://www.courts.state.hi.us/news_and_reports/reports/reports> accessed June 1, 2018.

**Table 4.19-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:
ANNUAL AVERAGE, 2000 TO 2017**

[Mean head count for fiscal year ending June 30]

Year	Total	Adult facilities 1/				Juvenile facilities 5/	
		Sentenced felons 2/	Sentenced jail 3/	Not sentenced	Technical violators 4/	Boys	Girls
2000	3,669	1,426	337	1,062	752	75	17
2001	3,855	1,687	318	974	801	58	17
2002	3,988	1,797	363	949	794	70	15
2003	3,943	1,809	430	867	751	69	17
2004	4,130	1,915	506	890	740	65	14
2005	3,990	1,846	459	932	694	6/ 52	6/ 7
2006	3,921	1,781	312	1,036	733	6/ 47	6/ 12
2007	3,708	1,705	262	1,062	615	6/ 52	6/ 12
2008	3,553	1,661	337	912	571	6/ 59	6/ 13
2009	3,487	1,644	426	818	525	6/ 64	6/ 10
2010	3,374	1,496	435	867	503	6/ 58	6/ 15
2011	3,539	1,550	325	1,005	608	6/ 37	6/ 14
2012	3,765	1,599	408	995	703	6/ 45	6/ 15
2013	3,804	1,739	479	928	610	6/ 37	6/ 11
2014	3,916	1,729	479	1,060	620	6/ 19	6/ 9
2015	4,068	1,720	498	1,118	705	6/ 20	6/ 7
2016	4,157	1,712	490	1,076	854	6/ 19	6/ 6
2017	3,789	7/ 1,443	409	1,046	869	6/ 18	6/ 4

1/ Included eight facilities up until November 19, 2010: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers; Kulani Correctional Facility, Halawa Correctional Facility, Women's Community Correctional Center, and Waiawa Correctional Facility. On November 20, 2009, Kulani Correctional Facility was closed so there were only seven facilities by the end of Fiscal Year 2009-2010. In August 2014, Kulani Correctional Facility started to accept inmates after re-opening early in the year. There are now eight facilities on Oahu, Hawaii, Kauai, and Maui.

2/ For 1997 and 1998, excludes sentenced felons incarcerated in three contracted out-of-state facilities; for 1999 through 2006, excludes sentenced felons incarcerated in four contracted out-of-state facilities; for 2007, excludes sentenced felons incarcerated in five contracted out-of-state facilities; for 2008 and 2009, excludes sentenced felons incarcerated in three contracted out-of-state facilities; and for 2010 to the present, excludes sentenced felons incarcerated in two contracted out-of-state facilities. Also excludes jail inmates held in the Federal Detention Center from 2002 to the present.

3/ Includes felon probationers serving jail terms under one year.

4/ Consists of parole and probation violators, previously included in the "Not Sentenced" category.

5/ Hawaii Youth Correctional Facility.

6/ From 2005, figures include only youths physically housed in the Hawaii Youth Correctional Facility.

7/ In February 2017, Halawa Correctional Facility (HCF) transferred over 240 inmates to Arizona while renovations are being done at the facility.

Source: Hawaii State Department of Public Safety, records; Hawaii State Department of Human Services, Office of Youth Services/Hawaii Youth Correctional Facility, records; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 4.20-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED FELON POPULATION: 1997 TO 2017

[Fiscal year ending June 30 unless otherwise specified. These data cover only sentenced felons under the jurisdiction of the State's correctional facilities, in hospitals, in mainland facilities, and on community release status. Parolees are not included. Average sentence calculations include life with parole sentences]

Year	Median age (years) 1/		Average sentence (months)		
	At admission	Current	Felons admitted		Felons released 2/
			Minimum	Maximum	
1997	33.3	34.3	51.2	3/ 106.0	38.9
1998	33.5	34.9	45.2	3/ 105.2	36.7
1999	33.7	31.9	47.6	3/ 105.5	34.4
2000	(NA)	(NA)	(NA)	(NA)	(NA)
2001	34.9	37.3	(NA)	(NA)	36.5
2002	33.8	32.8	(NA)	(NA)	34.7
2003	34.2	37.0	(NA)	(NA)	34.7
2004	34.9	37.1	(NA)	(NA)	31.2
2005	35.0	37.7	(NA)	(NA)	34.5
2006	34.5	37.8	(NA)	(NA)	38.9
2007	35.7	38.3	(NA)	(NA)	42.1
2008	35.5	38.9	(NA)	(NA)	42.3
2009	35.7	39.2	(NA)	(NA)	43.0
2010	35.5	39.5	(NA)	(NA)	47.9
2011	36.4	40.5	(NA)	(NA)	51.4
2012	36.1	39.6	(NA)	(NA)	47.9
2013	34.6	40.6	(NA)	(NA)	49.0
2014	35.0	39.4	(NA)	(NA)	45.4
2015	35.8	39.2	(NA)	(NA)	48.3
2016	38.2	40.9	(NA)	(NA)	60.0
2017	39.9	39.6	(NA)	(NA)	62.6

NA Not available.

1/ For sentenced felon population on June 30.

2/ Includes releases to parole, time served, deaths, and all other release types. Category title was shown as "Felons released: time served" in previous *Data Books*, but data included all release types.

3/ Average based on statutory maximum sentences for each offense grade.

Source: Hawaii State Department of Public Safety, Correctional Information System (CIS) and records; Hawaii Paroling Authority, annual reports.

Table 4.21-- INMATE POPULATION TOTAL AND AT CONTRACTED FACILITIES IN OTHER STATES: 1997 TO 2017

[Fiscal year ending June 30]

Year	Assigned total inmate population 1/	Population at contracted facilities	
		Total	Share of inmate population
1997	4,604	300	6.5
1998	5,216	600	11.5
1999	5,043	1,178	23.4
2000	5,127	1,079	21.0
2001	5,412	1,194	22.1
2002	5,569	1,232	22.1
2003	5,657	1,295	22.9
2004	5,958	1,579	26.5
2005	6,092	1,730	28.4
2006	6,251	1,844	29.5
2007	6,045	2,009	33.2
2008	6,014	2,014	33.5
2009	6,005	2,077	34.6
2010	5,987	1,940	32.4
2011	6,090	1,667	27.4
2012	6,073	1,677	27.6
2013	5,853	1,415	24.2
2014	5,819	1,286	22.1
2015	6,024	1,341	22.3
2016	5,970	1,386	23.2
2017 2/	5,669	1,617	28.5

1/ Number of inmates on a specific date who are under the jurisdiction of the Hawaii Department of Public Safety. This includes inmates physically present at one of the correctional facilities operated by the Department of Public Safety, housed in an out-of-state or contracted facility, on furlough, in a medical facility, on escape status or serving intermittent sentences.

2/ In February 2017, Halawa Correctional Facility (HCF) transferred over 240 inmates to Arizona while renovations are being done at the facility.

Source: Hawaii State Department of Public Safety, *Annual Report 2003* and Inmate Population "Department of Public Safety End of Month Population Report"

<http://www.hawaii.gov/psd/psd_home.php> accessed June 6, 2005 and records.

**Table 4.22-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:
2014 TO 2017**

[Fiscal year ending June 30]

Item	2014	2015	2016	2017
Number of parolees, June 30 1/ 2/	1,647	1,545	1,479	1,517
In Hawaii 2/	1,579	1,484	1,404	1,439
Outside Hawaii 3/	257	268	221	234
In institution	41	49	41	37
Whereabouts unknown	68	61	75	78
Minimum imprisonment terms fixed	1,992	2,197	1,682	1,715
Number of persons for whom minimum terms fixed	676	748	757	584
Number of parole consideration hearings	2,561	2,564	2,608	2,821
Paroles granted	815	662	629	830
Paroles denied	1,520	1,712	1,789	1,722
Paroles deferred/continued	224	186	185	266
Escape	2	4	5	3
Persons considered for parole	1,917	1,917	1,982	2,090
Parole violation hearings	383	421	399	382
Parole revoked, returned to prison	312	333	336	318
Continued on parole	12	5	2	2
Deferred/rescheduled	59	83	61	62
Pardon investigations conducted	86	100	56	63
Persons recommended for pardon	35	25	19	25
Persons discharged from parole	443	306	293	207
Early discharge	155	79	118	50
Full parole term before discharge	272	213	168	150
Deceased	16	14	7	7

1/ Includes 32 Mainland cases being supervised by Hawaii (reciprocal supervision) as of June 30, 2017.

2/ Beginning in 2009, the "In Hawaii" figure includes the "Outside Hawaii" and the "In institution" parolees. Therefore, the "Number of parolees, June 30" total is the sum of only the "In Hawaii" and the "Whereabouts unknown" figures which differs from previous years.

3/ Includes 117 Hawaii cases being supervised on the U.S. mainland (interstate compact cases) as of June 30, 2017. Also includes 117 Hawaii cases that were deported, are in protective custody or have dual supervision as of June 30, 2017.

Source: Hawaii State Department of Public Safety, Hawaii Paroling Authority, annual statistical report (annual) <dps.hawaii.gov/hpa/> accessed May 25, 2018.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, and other geographic and environmental measurements of Hawaii. Most statistics on land use and ownership, however, appear in Section 6.

Important sources of data include the U.S. Geological Survey, the National Ocean Survey, the National Climatic Data Center, the Division of Water Resource Management of the Hawaii State Department of Land and Natural Resources, the Hawaii State Department of Health, and the University of Hawaii at Manoa, School of Ocean and Earth Science and Technology, Department of Atmospheric Science. Detailed information is given in *Atlas of Hawaii*, 3rd edition, published by the University of Hawaii Press in 1998. National data are reported in the *Statistical Abstract of the United States: 2012*, Section 6.

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Table 5.01-- GREAT CIRCLE DISTANCE BETWEEN SPECIFIED PLACES

Places	Statute miles	Nautical miles	Kilometers
Distances from Honolulu International Airport			
Hawaiian Islands locations			
Hilo, Hawaii	214	186	344
Kailua-Kona, Hawaii	168	146	270
Kahului, Maui	98	85	158
Lanai Airport	72	63	116
Molokai Airport	54	47	87
Lihue, Kauai	103	90	166
Puuwai, Niihau	152	132	245
Nihoa	283	246	455
Necker Island	520	452	837
French Frigate Shoals	556	483	895
Gardner Pinnacles	688	598	1,107
Maro Reef	851	739	1,369
Laysan Island	936	813	1,506
Lisianski Island	1,065	925	1,714
Pearl and Hermes Atoll	1,208	1,050	1,944
Midway Islands	1,309	1,137	2,106
Kure Atoll	1,367	1,188	2,200
Other Pacific locations			
Apra Harbor, Guam	3,806	3,307	6,124
Auckland, New Zealand	4,393	3,817	7,068
Baker Island	1,900	1,649	3,058
Hong Kong	5,541	4,815	8,915
Howland Island	1,900	1,649	3,058
Jarvis Island	1,560	1,354	2,511
Johnston Atoll	820	713	1,319
Kingman Reef	1,073	932	1,726
Kiritimati (Christmas Island), Kiribati	1,344	1,168	2,163
Majuro, Marshall Islands	2,271	1,973	3,654
Manila, Philippines	5,293	4,599	8,516
Nuku Hiva, Marquesas Islands	2,400	2,086	3,864
Pago Pago, American Samoa	2,606	2,265	4,193
Palmyra Atoll	1,101	957	1,772
Papeete, Tahiti	2,741	2,382	4,410
Suva, Fiji	3,159	2,745	5,083
Sydney (Port Jackson), Australia	5,070	4,406	8,158
Tokyo, Japan	3,847	3,343	6,190
Wake Island	2,294	1,993	3,691

Continued on next page.

Table 5.01-- GREAT CIRCLE DISTANCE BETWEEN SPECIFIED PLACES -- Con.

Places	Statute miles	Nautical miles	Kilometers
Distances from Honolulu International Airport--Con.			
North and South American locations			
Anchorage, Alaska	2,781	2,417	4,475
Cape Horn, Chile	7,457	6,480	11,998
Chicago, Illinois	4,179	3,631	6,724
Cristobal, Canal Zone	5,214	4,531	8,389
Los Angeles, California	2,557	2,222	4,114
Miami, Florida	4,856	4,220	7,813
New York, New York	4,959	4,309	7,979
Portland, Oregon	2,595	2,255	4,175
San Diego, California	2,610	2,268	4,199
San Francisco, California	2,397	2,083	3,857
Seattle, Washington	2,679	2,328	4,311
Vancouver, B.C.	2,709	2,354	4,359
Tijuana, Mexico	2,616	2,273	4,209
Washington, D.C.	4,829	4,196	7,770
London, England	7,226	6,279	11,627
Bombay, India	8,010	6,960	12,888
Ghanzi, Botswana 1/	12,417	10,790	19,979
Equator, due south of Honolulu	1,470	1,277	2,367
North Pole	4,740	4,119	7,631
Other distances			
Hilo to --			
Los Angeles, California	2,447	2,126	3,937
San Francisco, California	2,315	2,012	3,725
Kure Atoll to --			
Cape Kumukahi, Puna, Hawaii 2/	1,523	1,323	2,451
Log Point, Elliot Key, Florida 3/	5,852	5,085	9,416
Tokyo, Japan	2,486	2,160	4,000
West Quoddy Head, Maine	5,788	5,030	9,313

1/ Ghanzi, Botswana is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

2/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

3/ Log Point and Kure Atoll are the points farthest apart in the 50 states.

Source: U.S. Geological Survey, *Elevations and Distances in the United States* (1980), pp. 22-23, and records; and E. H. Bryan, Jr., *American Polynesia and the Hawaiian Chain* (1942), pp. 38, 42, and 134.

Table 5.02-- LATITUDE AND LONGITUDE OF SELECTED PLACES

Island and place	Latitude (North)	Longitude (West)
Hawaii		
Hilo International Airport	19°43'	155°04'
Cape Kumukahi	19°31'	154°49'
Ka Lae	18°56'	155°41'
Keahole Point	19°44'	156°04'
Upolu Point	20°16'	155°51'
Geographic center of State (off Maui)	20°15'	156°20'
Maui		
Wailuku	20°53'	156°30'
Kahului Airport	20°54'	156°26'
Hana	20°45'	155°59'
Cape Hanamanioa	20°35'	156°25'
Lahaina	20°52'	156°41'
Kahoolawe		
Puu Moaulanui	20°34'	156°34'
Lanai		
Lanai Airport	20°48'	156°57'
Molokai		
Kaunakakai	21°05'	157°02'
Laaupoint	21°06'	157°19'
Cape Halawa	21°10'	156°43'
Oahu		
Daniel K. Inouye International Airport	21°20'	157°55'
Aloha Tower	21°19'	157°52'
Kaena Point	21°35'	158°17'
Kahuku Point	21°43'	157°59'
Makapuu Point	21°19'	157°39'
Diamond Head	21°16'	157°49'
Kauai		
Lihue Airport	21°59'	159°21'
Mana	22°02'	159°46'
Kilauea Point	22°14'	159°24'
Niihau		
Puuwai	21°54'	160°12'
Kure Atoll	28°25'	178°22'

Source: U.S. Board on Geographic Names, *Gazetteer No. 24, Hawaiian Islands* (1956); U.S. Geological Survey, *Elevations and Distances in the United States* (1980), pp. 17 and 22-23; U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1984* for Hilo, Kahului, Honolulu, and Lihue; Bernice P. Bishop Museum, records; and Hawaii State Department of Accounting and General Services, Survey Division and records.

**Table 5.03-- TIME DIFFERENCE BETWEEN HONOLULU AND
SELECTED CITIES**

[Standard time]

City	Country	Day	Hour	Time difference
Honolulu	United States	Same	9:00 a.m.	-
Anchorage	United States	Same	10:00 a.m.	+1
Vancouver	Canada	Same	11:00 a.m.	+2
Los Angeles	United States	Same	11:00 a.m.	+2
Las Vegas	United States	Same	11:00 a.m.	+2
Denver	United States	Same	12:00 p.m.	+3
Houston	United States	Same	1:00 p.m.	+4
Winnipeg	Canada	Same	1:00 p.m.	+4
Chicago	United States	Same	1:00 p.m.	+4
Atlanta	United States	Same	2:00 p.m.	+5
Miami	United States	Same	2:00 p.m.	+5
Toronto	Canada	Same	2:00 p.m.	+5
Lima	Peru	Same	2:00 p.m.	+5
New York City	United States	Same	2:00 p.m.	+5
Santiago	Chile	Same	3:00 p.m.	+6
Buenos Aires	Argentina	Same	4:00 p.m.	+7
Sao Paulo	Brazil	Same	4:00 p.m.	+7
London	United Kingdom	Same	7:00 p.m.	+10
Madrid	Spain	Same	8:00 p.m.	+11
Paris	France	Same	8:00 p.m.	+11
Frankfurt	Germany	Same	8:00 p.m.	+11
Rome	Italy	Same	8:00 p.m.	+11
Johannesburg	South Africa	Same	9:00 p.m.	+12
Jerusalem	Israel	Same	9:00 p.m.	+12
Moscow	Russia	Same	10:00 p.m.	+13
Baghdad	Iraq	Same	10:00 p.m.	+13
Kabul	Afghanistan	Same	11:30 p.m.	+14.5
Calcutta	India	Next	12:30 a.m.	+15.5
Bangkok	Thailand	Next	2:00 a.m.	+17
Singapore	Singapore	Next	3:00 a.m.	+18
Hong Kong	China	Next	3:00 a.m.	+18
Beijing	China	Next	3:00 a.m.	+18
Manila	Philippines	Next	3:00 a.m.	+18
Taipei	Taiwan	Next	3:00 a.m.	+18
Seoul	Korea	Next	4:00 a.m.	+19
Tokyo	Japan	Next	4:00 a.m.	+19
Sydney	Australia	Next	5:00 a.m.	+20
Auckland	New Zealand	Next	7:00 a.m.	+22

Source: 2009 HYP Media Finance LLC., *The Official Hawaiian Telcom White Pages O'ahu 2009*, pp. 20-23, and "Time Zone Converter" at <<http://www.timezoneconverter.com/cgi-bin/tzc.tzc>> accessed November 26, 2008.

Table 5.04-- WIDTH AND DEPTH OF CHANNELS

Channel 1/	Width 2/		Depth 3/	
	Statute miles	Kilometers	Feet	Meters
Alenuihaha (Hawaii-Maui)	29.6	47.6	6,810	2,076
Alalakeiki (Kahoolawe-Maui)	6.7	10.8	822	251
Kealaikahiki (Kahoolawe-Lanai)	17.8	28.6	1,086	331
Auau (Lanai-Maui)	9.5	15.3	252	77
Kalohi (Lanai-Molokai)	9.2	14.8	540	165
Pailolo (Maui-Molokai)	8.8	14.2	846	258
Kaiwi (Molokai-Oahu)	25.8	41.5	2,202	671
Kauai (Oahu-Kauai)	72.1	116.0	10,890	3,319
Kaulakahi (Kauai-Niihau)	17.2	27.7	3,570	1,088
Niihau-Kaula	21.5	34.6	5,364	1,635
Niihau-Nihoa	133.9	215.5	14,550	4,435
Nihoa-Necker I.	179.6	289.0	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	12,780	3,895
French Frigate Shoals-Gardner Pinnacles	137.0	220.5	11,448	3,489
Gardner Pinnacles-Marø Reef	155.5	250.3	12,300	3,749
Marø Reef-Laysan I.	65.9	106.1	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	15,840	4,828
Midway Islands-Kure Atoll	57.1	91.9	12,960	3,950

1/ Listed in geographic order, from east to west. The channels between major islands were measured between the following points:

- Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
- Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
- Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
- Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
- Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
- Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
- Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
- Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai; and
- Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau.

2/ Width measured in statute miles between designated points on National Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, in November 1980.

Table 5.05-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 3/	
	Statute miles	Kilometers 2/	Statute miles	Kilometers 2/
State total	750	1,207	1,052	1,693
Counties				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands 4/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/	25	40	25	40
Niihau	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

3/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

4/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Department of Commerce, National Ocean Survey, *The Coastline of the United States* (1975) and records.

Table 5.06-- HAWAIIAN COASTAL WATERS, BY ISLAND: 2006 TO 2014

[Coastal waters means all waters surrounding the islands of the State from the coast of any island to a point three miles seaward from the coast, and in the case of streams, rivers, and drainage ditches, to a point three miles seaward from their point of discharge into the sea and includes those brackish waters, freshwaters and saltwaters that are subject to the ebb and flow of the tide. (HAR §11-54-1 & HRS §342D-1). Hawaii State Department of Health, Clean Water Branch assessed coastal waters for the following conventional pollutants: enterococci, total nitrogen, nitrates+nitrite, ammonia, total phosphorus, turbidity, and chlorophylla]

Island	Number of coastal waters 1/	Number of impaired 2/	Percentage of total impaired coastal waters	Island percentage of total impaired coastal waters
2006				
State total	522	210	40.2	100.0
Kauai	81	28	34.6	13.3
Oahu	176	68	38.6	32.4
Molokai	37	3	8.1	1.4
Lanai	17	6	35.3	2.9
Maui	122	72	59.0	34.3
Hawaii	89	33	37.1	15.7
2008-2010				
State total	522	207	39.7	100.0
Kauai	81	26	32.1	12.6
Oahu	176	65	36.9	31.4
Molokai	37	3	8.1	1.4
Lanai	17	8	47.1	3.9
Maui	122	72	59.0	34.8
Hawaii	89	33	37.1	15.9
2012				
State total	575	228	39.7	100.0
Kauai	88	26	29.5	11.4
Oahu	194	73	37.6	32.0
Molokai	36	3	8.3	1.3
Lanai	17	7	41.2	3.1
Maui	130	76	58.5	33.3
Hawaii	110	43	39.1	18.9

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**Table 5.06-- HAWAIIAN COASTAL WATERS, BY ISLAND:
2006 TO 2014 -- Con.**

Island	Number of coastal waters 1/	Number of impaired 2/	Percentage of total impaired coastal waters	Island percentage of total impaired coastal waters
2014				
State total	577	266	46.1	100.0
Kauai	88	39	44.3	14.7
Oahu	196	78	39.8	29.3
Molokai	36	3	8.3	1.1
Lanai	17	7	41.2	2.6
Maui	130	77	59.2	28.9
Hawaii	110	62	56.4	23.3

1/ Number of coastal waters is based on the total number of scopes of assessments in the integrated reports.

2/ Impaired coastal waters for one of more conventional pollutants.

Source: Hawaii State Department of Health, Clean Water Branch, records.

**Table 5.07-- LAND AND WATER AREA WITHIN
THE FISHERY CONSERVATION ZONE**

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the
Hawaiian Archipelago]

Unit	Total area	Land area	Water area
Square nautical miles	634,023	4,852	629,171
Square statute miles	839,623	6,425	833,198
Square kilometers	2,174,626	16,641	2,157,985

Source: Marine Surveys and Maps, National Ocean Survey, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, information supplied September 15, 1978.

Table 5.08-- HAWAIIAN PERENNIAL STREAMS, BY ISLAND: 2006 TO 2014

[Perennial means fresh waters flowing year-round in all or part of natural channels, portions of which may be modified by humans. Flow in perennial streams may vary seasonally. Perennial streams may be subdivided into longitudinal zones, based on elevation and gradient: (1) headwater zone (elevation above 800 m (2600 ft) or gradient above 30 percent or both); (2) mid-zone (elevation between 50-800 m (165-2600 ft), or gradient between 5 and 30 percent or both); and (3) terminal zone (elevation below 50 m (165 ft) or gradient below 5 percent or both). Perennial streams may be either continuous or interrupted. Continuous perennial streams discharge continuously to the ocean in their natural state, and contain water in the entire length of the stream channel year-round. Interrupted perennial streams usually flow perennially in their upper reaches but only seasonally in parts of their middle or lower reaches, due to either downward seepage of surface flow (naturally interrupted) or to man-made water diversions (artificially interrupted) (HAR §11-54-1). Hawaii State Department of Health Clean Water Branch assessed coastal waters for the following conventional pollutants: enterococci, total nitrogen, nitrate+nitrite, ammonia, total phosphorus, turbidity, and chlorophyll a]

Island	Total number of streams 1/	Number of impaired 2/	Percentage of total impaired streams	Island percentage of total impaired streams
2006				
State total	168	91	54.2	100.0
Kauai	29	20	69.0	22.0
Oahu	50	44	88.0	48.4
Molokai	6	1	16.7	1.1
Lanai	-	-	0.0	0.0
Maui	48	10	20.8	11.0
Hawaii	35	16	45.7	17.6
2008-2010				
State total	168	92	54.8	100.0
Kauai	29	20	69.0	21.7
Oahu	50	44	88.0	47.8
Molokai	6	1	16.7	1.1
Lanai	-	-	0.0	0.0
Maui	48	11	22.9	12.0
Hawaii	35	16	45.7	17.4

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**Table 5.08-- HAWAIIAN PERENNIAL STREAMS, BY ISLAND:
2006 TO 2014 -- Con.**

Island	Total number of streams 1/	Number of impaired 2/	Percentage of total impaired streams	Island percentage of total impaired streams
2012				
State total	168	91	54.2	100.0
Kauai	29	20	69.0	22.0
Oahu	50	43	86.0	47.3
Molokai	6	1	16.7	1.1
Lanai	-	-	0.0	0.0
Maui	48	11	22.9	12.1
Hawaii	35	16	45.7	17.6
2014				
State total	169	92	54.4	100.0
Kauai	30	21	70.0	22.8
Oahu	50	43	86.0	46.7
Molokai	6	1	16.7	1.1
Lanai	-	-	0.0	0.0
Maui	48	11	22.9	12.0
Hawaii	35	16	45.7	17.4

1/ Number of streams is based on individual stream not wet/dry season.

2/ Impaired streams for one of more conventional pollutants.

Source: Hawaii State Department of Health, Clean Water Branch, records.

Table 5.09-- LAND AREA, BY COUNTY: 2010

Measurement unit	State total	Hawaii	Maui	Kalawao	Honolulu	Kauai
Square miles	6,422.6	4,028.4	1,161.5	12.0	600.7	620.0
Square kilometers	16,634.5	10,433.6	3,008.3	31.1	1,555.9	1,605.7

Source: U.S. Census Bureau, 2010 Census Redistricting Data (Public Law 94-171) Summary File (February 2011); and calculations by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

Table 5.10-- LAND AREA, BY ISLAND: 2010

Island	Square miles	Square kilometers
State total	6,422.63	16,634.53
Hawaii	4,028.42	10,433.55
Maui	771.99	1,999.45
Molokini	0.036	0.093
Kahoolawe	44.6	115.5
Lanai	141.07	365.36
Molokai	260.46	674.58
Oahu	597.64	1,547.88
Kauai	552.35	1,430.59
Niihau	67.60	175.09
Lehua	0.444	1.149
Kaula	0.247	0.640
Northwestern Hawaiian Islands 1/	3.100	8.030
Niihau	0.271	0.701
Necker Island	0.071	0.183
French Frigate Shoals	0.096	0.249
Gardner Pinnacles	0.009	0.024
Maro Reef	Awash	Awash
Laysan Island	1.588	4.114
Lisianski Island	0.601	1.556
Pearl and Hermes Atoll	0.139	0.359
Kure Atoll	0.333	0.862

1/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii.

Source: U.S. Census Bureau, 2010 Census Redistricting Data (P.L. 94-171) Summary File (February 2011), and calculations by the Hawaii State Department of Business, Economic Development & Tourism, Office of Planning and the Hawaii State Data Center, and unpublished records.

**Table 5.11-- MAJOR AND MINOR ISLANDS IN THE
HAWAIIAN ARCHIPELAGO**

Classification	Number of islands		Land area (square miles)
	Total	Inhabited, 1990 1/	
All named islands	137	12	6,427.0
Major islands	8	7	6,419.4
Named minor islands 2/	129	5	7.6
Offshore of major islands	96	3	2.6
Northwestern Hawaiian Islands 3/	33	2	4.9
Part of State	28	1	2.9
Not part of State (Midway Islands)	5	1	2.0

1/ For populations, see present volume, table 1.05.

2/ For individual data, see DPED Report GN-6, pp. 3-7.

3/ Includes individual islets in the 10 Northwestern Hawaiian Islands.

Source: Hawaii State Department of Planning and Economic Development, *Geographic Names Approved, Second Quarter 1969* (Report GN-6, July 8, 1969), p. 8; *Data Book 1986*, table 152.

Table 5.12-- AREA AND DEPTH OF SELECTED CRATERS

Island and crater	Area (acres)	Maximum depth (feet)
Hawaii		
Kilauea Caldera	2,319	476
Mokuaweoweo Crater 1/	2,221	572
Maui		
Haleakala Crater 2/	12,575	3,028
Oahu		
Diamond Head Crater	255	562
Koko Crater	133	968
Punchbowl Crater	62	140

1/ Data exclude North and South Pits.

2/ Data exclude Koolau and Kaupo Gaps.

Source: Measured from U.S. Geological Survey maps by the Hawaii State Department of Business, Economic Development & Tourism.

Table 5.13-- ELEVATION OF MAJOR SUMMITS

[Elevation of the highest point on each island and other important peaks]

Island and summit	Feet	Meters
Hawaii		
Mauna Kea 1/	13,796	4,205
Mauna Loa	13,679	4,169
Hualalai	8,271	2,521
Kaumu o Kaleihoohe	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe		
Puu Moaulanui	1,483	452
Puu Moaulaiki	1,434	437
Molokini	160	49
Maui		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai		
Lanaihale	3,366	1,026
Molokai		
Kamakou	4,961	1,512
Olokui	4,606	1,404
Kalaupapa Lookout	1,600	488
Mauna Loa (Kukui)	1,430	436
Oahu		
Kaala	4,003	1,220
Puu Kalena	3,504	1,068
Konahuanui	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Koko Head	642	196
Punchbowl	500	152

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Table 5.13-- ELEVATION OF MAJOR SUMMITS -- Con.

Island and summit	Feet	Meters
Kauai		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Sleeping Giant (Nonou)	1,241	378
Niihau		
Paniau	1,250	381
Lehua	699	213
Kaula	548	167
Nihoa		
Millers Peak	903	275
Necker Island		
Summit Hill	276	84
French Frigate Shoals		
La Perouse Pinnacles	120	37
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	40	12
Lisianski Island	40	12
Pearl and Hermes Atoll	10	3
Midway Islands	12	4
Kure Atoll	20	6

1/ According to the *1995 Guinness Book of Records* (p. 147), "The world's tallest mountain measured from its submarine base (3,280 fathoms) in the Hawaiian Trough to its peak is Mauna Kea... with a combined height of 33,480 ft., of which 13,796 ft. are above sea level."

Source: Hawaii State Department of Accounting and General Services, Survey Division, data provided April 21, 1992; U.S. National Cartographic Information Center, data provided October 11, 1978; U.S. Geological Survey topographic maps, 1981-1984; Hawaiian Government Survey (for Nihoa and Molokini); and U.S.S. Tanager survey, 1923 (for Necker Island, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes Atoll and Kure Atoll).

Table 5.14-- MAJOR NAMED WATERFALLS, BY ISLAND

Island	Waterfall	Height (feet)		Horizontal distance (feet)
		Sheer drop	Cascade	
Hawaii	Kaluahine	(NA)	620	400
	Akaka	442	(NA)	(NA)
	Waiilikahi	320	(NA)	6
Maui	Honokohau	(NA)	1,120	500
	Waihiumalu	(NA)	400	150
Molokai	Kahiwa	(NA)	1,750	1,000
	Papalaua	(NA)	1,200	500
	Waialele	(NA)	500	150
Oahu	Kaliuwaa (Sacred)	1/ 80	1,520	3,000
Kauai	Waipoo (2 falls)	(NA)	800	600
	Awini	(NA)	480	500
	Hinalele	280	(NA)	(NA)
	Wailua	200	(NA)	(NA)

NA Not available.

1/ Refers to the northernmost fall of a cascade of six falls.

Source: U.S. Geological Survey, records; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records; and "Tall Falls", *The Honolulu Advertiser*, June 25, 1995, pp. A17 and A20.

Table 5.15-- MAJOR STREAMS, BY ISLAND

Island	Feature or stream	Length or average discharge
Longest water feature (miles)		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles) 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day)		
Hawaii	Wailuku River	180
Maui	Waihee River	50
Molokai	Wailau Stream	30
Oahu	Waikele Stream	2/ 26
Kauai	Hanalei River	129

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Wailoa River, Hawaii (1/2-mile long); Honokohau Stream (9.4 miles long) and Iao Stream (5), both on Maui; Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalaua Stream (11.8), Nuuanu Stream (4), and Ala Wai Canal (1.9), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

2/ Most of discharge is from nearby groundwater outflow.

Source: Longest water feature from U.S. Geological Survey, records; and other data from Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records.

Table 5.16-- LAKES AND LAKE-LIKE WATERS, BY ISLAND

Island and lake	Type	Elevation (feet)	Area 1/ (acres)	Maximum depth (feet)
Hawaii				
Green Lake	Lake	3	2	20
Lake Waiau 2/	Lake	13,020	2	10
Waiakea Pond	Tidal pond	(3/)	27	7
Maui				
Kanaha Pond	Marsh	(3/)	41	3
Kealia Pond	Marsh	(3/)	500	(NA)
Waieleele	Pond	6,690	0.5	21
Molokai				
Kauhako	Pool	(3/)	0.9	814
Kualapuu Reservoir	Reservoir	821	100	50
Meyer Lake	Impoundment	2,021	6-10	5
Oahu				
Ho'omaluhia	Reservoir	202	90	90
Kaelepulu Pond	Lake	(3/)	198	(NA)
Kawainui Marsh	Marsh	(3/)	1,000	(NA)
Wahiawa Reservoir	Reservoir	842	302	85
Kauai				
Nomilu Fishpond	Pond	(3/)	20	66
Waita Reservoir	Reservoir	241	424	23
Niihau				
Halalii Lake	Playa	(3/)	841-865	(NA)
Halulu Lake	Playa	(3/)	182-371	(NA)
Laysan				
Laysan Lagoon	Closed lagoon	(3/)	161	16

NA Not available.

1/ Ranges shown for Meyer Lake, Halalii Lake, and Halulu Lake reflect differences in estimates between sources.

2/ Highest lake in the State and third highest in the United States.

3/ Sea level.

Source: J.A. Maciolek, *Lakes and Lake-like Waters of the Hawaiian Archipelago* (Bernice P. Bishop Museum, Occasional Papers, Vol. XXV, No. 1, April 30, 1982); and Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, May 18, 1994.

Table 5.17-- LENGTH AND WIDTH OF SELECTED BEACHES

[Includes the longest white sand beach on each inhabited island, plus other important beaches]

Island and beach	Length (miles)	Width 1/ (feet)
Hawaii		
Hapuna	0.5+	200+
Maui		
Spreckelsville	2+	(NA)
Kaanapali	1.5	60-80
Lanai		
Polihua	1.5+	(NA)
Molokai		
Papohaku	2+	300
Oahu		
Waikiki	2	(NA)
Waimanalo	3.5-4.5	(NA)
Sunset	2-3+	200
Kauai		
Polihale to Kekaha	15	300
Polihale	3	300
Niihau		
Keawanui	3.5	175

NA Not available.

1/ Summer averages. Many beaches in Hawaii are seasonally reduced in width by winter storms.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Shoreline* (1965), pp. 33, 47, 55, 62, 68, and 100; John R. K. Clark, *Beaches of the Big Island* (1985), p. 132, *The Beaches of Maui County* (1980), pp. 10, 62, 84-85, and 114, *The Beaches of O'ahu* (1977), pp. 45, 125, and 177, and *Beaches of Kaua'i and Ni'ihau* (1990), pp. 48-49 and 84.

Table 5.18-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLAND

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more 1/	Miles from coast of most remote point	Percent of area within 5 miles of coast
State total	(X)	(X)	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	65.0
Niihau	8	6	3	2.4	100.0

Island	Percent of area with elevation		Approximate mean altitude (feet)	Percent of area with slope	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
State total	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0.0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0.0	530	68.0	12.5

X Not applicable.

1/ According to Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by *The Guinness Book of Records* (1995 edition, p. 154) as "the highest sea cliffs in the world."

Source: Hawaii State Department of Planning and Economic Development, *Hawai'i the Natural Environment* (1974), p. 19; and U.S. Geological Survey, *Elevations and Distances in the United States* (1978), pp. 4-5.

**Table 5.19-- VOLCANIC ERUPTIONS: MAUNA LOA 1950 TO 1984,
KILAUEA 1969 TO 2017**

[As of December 31, 2016. Four volcanoes have erupted in historical times: Haleakala, last active in 1460; Hualalai, last active in 1801; Mauna Loa, last active in 1984; Kilauea, still active]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Altitude of main vent (meters)	Area covered (km ²)	Volume (km ³)
Mauna Loa						
1950: June 1	17.0	23	S, SWR	3,840-2,380	112.0	0.3760
1975: July 5	301.0	<1	S	3,900	13.5	0.0300
1984: March 25	104.6	22	S, NER	4,030-2,870	48.0	0.2200
Kilauea						
1969: Feb. 22	4.0	6	ER	930-870	6.0	0.0161
May 24	2.0	874	ER	940	50.0	0.1850
1971: Aug. 14	-	<1	C	1,100-1,080	3.1	0.0091
Sept. 24	-	5	C, SWR	1,120-820	3.9	0.0077
1972: Feb. 3	4.3	900	ER	940	46.0	0.1620
1973: May 5	-	<1	ER	1,000-980	0.3	0.0012
Nov. 10	-	30	ER	980-870	1.0	0.0027
1974: July 19	-	3	C, ER	1,080-980	3.1	0.0066
Sept. 19	2.0	<1	C	1,100	1.0	0.0102
Dec. 31	3.4	<1	SWR	1,080	7.5	0.0143
1975: Nov. 29	11.0	<1	C	1,080-1,060	0.3	0.0002
1977: Sept. 13	21.5	18	ER	620-480	7.8	0.0329
1979: Nov. 16	26.3	1	ER	980-960	0.3	0.0006
1982: April 30	29.5	<1	C	1,080	0.3	0.0005
Sept. 25	4.8	<1	C	1,080	0.8	0.0030
1983: Jan. 3	3.3	2/ 12,781	ER	900	2/ 144.2	4.4
2008: March 19	-	2/ 3,574	C	1,080	(3/)	(3/)

1/ C, summit caldera; ER, east rift zone; NER northeast rift zone; S, summit area; SWR, southwest rift zone. All historic Mauna Loa eruptions began as summit eruptions, and then either remained in the summit or migrated down one of the rift zones.

2/ Revised from previous *Data Book*.

3/ Halemaumau Overlook has an area of 48,500 square meters and total erupted ejecta was 2.69×10^6 kg.

Source: Gordon A. Macdonald, Agatin T. Abbott, and Frank L. Peterson, *Volcanoes in the Sea: The Geology of Hawaii*, 2nd ed. (1986), pp. 80-81; U.S. Geological Survey, Hawaiian Volcano Observatory <<http://hvo.wr.usgs.gov/kilauea/history/historytable.html>> and records.

Table 5.20-- EARTHQUAKES OF MAGNITUDE 6.2 OR GREATER: 1823 TO 2017

[As of December 31, 2017. Includes all earthquakes with magnitudes of 6.2 or greater]

Date and time (HST)	Location	Magnitude
1823: June 1 10:00 PM	Kaimu, Hawaii	7.0
1825: January 6 11:30 PM	Kona, Hawaii	6.2
1832: January 10 6:00 PM	Kilauea, south flank, Hawaii	6.2
1841: April 7 11:45 PM	Kilauea, south flank, Hawaii	6.5
1849: July 15 4:05 AM	Hilea, Hawaii	6.2
1852: March 31 4:15 PM	Kaoiki, Hawaii	6.2
1865: March 3 12:45 AM	West Hawaii, deep	6.5
1868: March 28 1:28 PM	Hilea, Hawaii	7.0
April 2 4:00 PM	Hilea, Hawaii	7.9
April 3 1:45 AM	Hilea, Hawaii	6.2
April 4 12:30 AM	West Hawaii, deep	6.5
May 24 12:00 AM	Kilauea, south flank, Hawaii	6.2
1870: March 21 8:30 PM	South Hawaii	6.2
August 7 4:13 AM	Molokai	6.4
1871: February 19 10:15 PM	Lanai	6.8
1877: May 31 4:20 AM	Kilauea, caldera deep, Hawaii	6.3
1880: September 23 3:15 PM	Kaoiki, Hawaii	6.6
1881: September 30 4:53 AM	Mauna Kea, deep, Hawaii	6.4
1887: January 23 11:30 PM	Hilea, Hawaii	6.5
1890: August 6 11:10 PM	Kilauea, south flank, Hawaii	6.5
1894: December 3 3:30 AM	Molokai, deep	6.4
1895: January 22 10:00 PM	Molokai	6.5
December 8 11:04 PM	Kona offshore, Hawaii	6.8
1896: September 13 4:59 AM	East Maui	6.6
1905: May 3 4:07 PM	Kilauea, south flank, Hawaii	6.2
1908: September 20 8:15 PM	Kilauea, south flank, Hawaii	6.7
1915: March 28 8:26 AM	Kaoiki, Hawaii	6.4
1918: November 1 11:33 PM	Kaoiki, Hawaii	6.4
1927: March 20 4:52 AM	Mauna Kea, offshore deep, Hawaii	6.8
1929: September 25 6:20 PM	Hualalai, Hawaii	6.2
October 5 9:22 PM	Hualalai, Hawaii	6.5
1938: January 22 10:03 PM	Maui	6.8
1950: May 29 3:17 PM	Kona, Hawaii	6.3
1951: April 22 2:52 PM	Kilauea, caldera deep, Hawaii	6.2
August 21 12:57 AM	Kona, Hawaii	6.9
1952: March 29 11:59 PM	Kilauea, south flank, Hawaii	6.2
1954: March 30 8:42 AM	Kalapana, Hawaii	6.5
1962: June 27 6:27 PM	Kaoiki, Hawaii	6.2
1973: April 26 10:26 AM	Honomu, Hawaii	6.2

Continued on next page.

**Table 5.20-- EARTHQUAKES OF MAGNITUDE 6.2 OR
GREATER: 1823 TO 2017 -- Con.**

Date and time (HST)	Location	Magnitude
1975: November 29 4:47 AM	Kalapana, Hawaii	7.7
1983: November 16 6:13 AM	Kaoiki, Hawaii	6.7
1989: June 25 5:27 PM	Kalapana, Hawaii	6.2
2006: October 15 7:07 AM	Kiholo Bay, Hawaii	6.7

Source: Klein, F.C. and T.L. Wright (2000), "Catalog of Hawaiian Earthquakes, 1823-1959", U.S. Geological Survey Professional Paper 1623, 98 pp; Klein, F.C., et al. (2001), *Seismic Hazard in Hawaii: High Rate of Large Earthquakes and Probabilistic Ground-Motion Maps*, Bulletin of the Seismological Society of America, Vol. 91, No. 3, pp. 479-498; Wyss, M. and R.Y. Koyanagi (1992), *Isoseismal maps, macroseismic epicenters, and estimated magnitudes of historical earthquakes in the Hawaiian Islands*, U.S. Geological Survey Bulletin 2006, 93 pp; U.S. Geological Survey, Hawaiian Volcano Observatory, Seismic Catalog; <<https://earthquake.usgs.gov/earthquakes/>>.

Table 5.21-- EARTHQUAKES WITH INTENSITIES OF V OR GREATER ON OAHU: 1859 TO 2017

[As of December 31, 2017]

Date (HST)	Epicentral location	Magnitude	Oahu average intensity (Modified Mercalli Scale 1/)
1861: Dec. 5	Molokai-Lanai vicinity (?)	5.9	Mid V
Dec. 15	Molokai-Lanai vicinity (?)	5.6	Lower V - mid V
1868: Apr. 2	SE coast of Hawaii	7.9	Upper IV - lower V
Apr. 4	Maui group vicinity (?)	6.5	Lower V
1870: Aug. 7	Near Molokai	6.4	V
1871: Feb. 19	S coast of Lanai	6.8	Upper VI - lower VII
1881: Sep. 30	Maui vicinity	6.4	IV - V
1887: Jan. 13	Oahu vicinity	5.3	V
1895: Dec. 8	Oahu vicinity (?)	6.8	Mid V
1896: Sep. 13	Maui vicinity (?)	6.6	IV - V
1926: Mar. 19	N of Kohala, Hawaii	5.5	Upper IV - lower V
1929: Oct. 5	Hualalei	6.5	Lower V
1938: Jan. 22	N of Maui	6.8	Upper V - lower VI
1940: June 16	N of Hawaii	6.0	IV - V
1948: June 28	S coast of Oahu	5.2	Mid VI
1973: Apr. 26	Honolulu, Hawaii	6.2	Mid V
1975: Nov. 29	Kalapana, Hawaii	7.2	V
1981: Mar. 5	Kalohi Channel	5.0	Mid V
2006: Oct.15	Kiholo Bay, Hawaii	6.7	V

1/ Modified Mercalli Scale of 1931, 1956 abridged version further simplified. This scale, which extends from I to XII, reads in part:

IV. Hanging objects swing. Vibration like passing of heavy trucks or sensation of a jolt. Standing autos rock. Windows, dishes, doors rattle. Crockery clashes. In the upper part of range wooden construction creaks.

V. Felt outdoors; direction estimated. Sleepers wakened. Liquids distributed, some spilled. Small unstable objects displaced or upset. Doors, shutters, pictures swing. Pendulum clocks stop.

VI. Felt by all. Many frightened, run outdoors. Persons walk unsteadily. Windows, dishes, glassware broken. Knickknacks, books thrown off shelves, pictures off walls. Furniture moved, overturned. Weak plaster and masonry cracked. Small bells ring. Trees, bushes noticeably shaken.

VII. Difficulty in standing. Noticed by drivers of autos. Hanging objects quiver. Furniture broken. Damage to weak masonry. Weak chimneys broken at roof line. Fall of plaster, loose bricks, etc. Some cracks in ordinary masonry. Waves on ponds. Small slides on sand and gravel banks. Large bells ring. Irrigation ditches damaged.

Continued on next page.

**Table 5.21-- EARTHQUAKES WITH INTENSITIES OF V OR
GREATER ON OAHU: 1859 TO 2017 -- Con.**

Source: Cox, D.C. (1986a), *Earthquakes Felt on Oahu, Hawaii and Their Intensities*, Environmental Center Special Report, Vol. 38, University of Hawaii, 120 pp.; Cox, D.C. (1986b), *The Oahu Earthquake of June 1948, Associated Shocks, and the Hypothetical Diamond Head Fault*, Environmental Center Special Report, Vol. 36, University of Hawaii, 32 pp.; Cox, D.C. (1987), *Earthquake Experience in Honolulu*, Hawaiian Journal of History, Vol. 21, pp 98-109; Klein, F.C. and T.L. Wright (2000), *Catalog of Hawaiian Earthquakes, 1823-1959*, U.S. Geological Survey Professional Paper 1623, 98 pp.; Wyss, M. and R.Y. Koyanagi (1992), *Isoseismal maps, macroseismic epicenters, and estimated magnitudes of historical earthquakes in the Hawaiian Islands*, U.S. Geological Survey Bulletin 2006, 93 pp.; U.S. Geological Survey, Hawaiian Volcano Observatory, Seismic Catalog; and U.S. Geological Survey, National Earthquake Information Center, ShakeMap.

**Table 5.22-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET)
OR MORE: 1812 TO 2017**

Date	Place of observation	Source	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii
			Meters	Feet		
1812: Dec. 21 1/	Hookena, Hawaii	California	2.5	8	-	Hut flooded
1819: April 12	W. Hawaii	Chile	2.0	7	-	Houses destroyed
1837: Nov. 7	Hilo, Hawaii	Chile	6.0	20	16	100 houses destroyed
1841: May 17	Hilo, Hawaii	Kamchatka	4.6	15	-	Unknown
1860: Dec. 1	Maliko Bay, Maui	N. Pacific 2/	3.6	12	-	Houses, wharf destroyed
1868: April 2	Keauhou Landing, Hawaii	Ka'u	13.7	45	47	Severe in Puna and Ka'u
1868: Aug. 13	Hilo, Hawaii	Chile	4.6	15	-	Houses, bridges destroyed
1869: Aug. 24	S.E. Puna	S. Pacific 2/	8.2	27	-	Houses destroyed, roads washed out
1877: May 10	Hilo, Hawaii	Chile	4.8	16	5	Severe in Hilo
1878: Jan. 10	Maliko Bay, Maui	N. Molokai 2/	3.6	12	-	Scattered flooding, N. Maui, N. Oahu
1896: June 15	Keauhou, Hawaii	Japan	5.5	18	-	Houses, wharfs, stores destroyed
1903: Nov. 29	Pelekunu, Molokai	N. Molokai	4.5	15	-	Houses destroyed on Maui, railroad washed out on Oahu
1906: Aug. 17	Maalaea, Maui	Chile	3.6	12	-	Piers damaged
1919: Oct. 2	Hoopuloa, Hawaii	S. Kona	4.3	14	-	Wharf damaged, car swept away
1922: Nov. 11	Hilo, Hawaii	Chile	2.1	7	-	Fishing boats swept away
1923: Feb. 3	Hilo, Hawaii	Kamchatka	6.1	20	1	\$1,500,000
1933: March 2	Keauhou, Hawaii	Japan	3.2	10	-	Boathouses, walls destroyed in Kona
1946: April 1	Waikolu Valley, Molokai	Aleutian Islands	16.4	54	159	\$26,000,000
1952: Nov. 4	Kaena, Oahu	Kamchatka	9.1	30	-	\$1,000,000
1957: March 9	Haena, Kauai	Aleutian Islands	16.1	53	-	\$5,000,000
1960: May 22	Hilo, Hawaii	Chile	10.5	34	61	\$23,000,000
1964: March 27	Waimea Bay, Oahu	Alaska	4.9	16	-	\$68,000

Continued on next page.

**Table 5.22-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET)
OR MORE: 1812 TO 2017-- Con.**

Date	Place of observation	Source	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii
			Meters	Feet		
1975: Nov. 29	Keauhou Landing, Hawaii	S. Puna	14.3	47	2	\$1,500,000
2011: March 11	Kealakekua Bay, Hawaii	Japan	5.4	18	-	(NA)

NA Not available.

1/ Earliest tsunami for which definite information exists.

2/ Probable source.

Source: George Pararas-Carayannis, *Catalog of Tsunamis in the Hawaiian Islands* (U.S. Coast and 'Geodetic Survey, May 1969); Harold G. Loomis, *The Tsunami of November 29, 1975 in Hawaii* (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, *Local Tsunamis and Possible Local Tsunamis in Hawaii* (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977); Doak C. Cox, *Tsunami Casualties and Mortality in Hawaii* (University of Hawaii, Environment Center, June 1987), p. 39; James F. Lander and Patricia A. Lockridge, *United States Tsunamis (Including United States Possessions) 1690-1988*, Publication 41-2, National Geophysical Data Center, August 1989, pp.17-77; U.S. Geological Survey, Hawaiian Volcano Observatory, records; Pacific Tsunami Warning Center, records; and National Oceanic and Atmospheric Administration, National Geophysical Data Center, Tsunami Runup database <<http://www.ngdc.noaa.gov/nndc/struts/form?t=101650&s=167&d=166>> accessed June 14, 2018.

Table 5.23-- MAJOR DAMS

[Includes all dams whose maximum storage equals or exceeds 600 acre-ft.]

Dam name	Nearest city	Purpose	Year completed	Height (ft.)	Length (ft.)	Drainage area (sq. miles)	Maximum storage (acre-ft.)
Waita Reservoir	Koloa, Kauai	Irrigation	1906	23	3,250	3.36	9,900
Wahiawa Dam	Wahiawa, Oahu	Irrigation	1906	88	660	16.70	9,200
Kualapuu Reservoir	Kualapuu, Molokai	Irrigation, water supply	1969	57	7,100	0.21	5,082
Kaneohe Dam	Kaneohe, Oahu	Flood control, recreation	1980	83	2,200	2.45	4,500
Nuuanu Dam No. 4	Honolulu, Oahu	Flood control, recreation	1910	66	2,120	1.40	3,600
Alexander	Kalaheo, Kauai	Hydroelectric, irrigation	1931	112	600	2.86	2,540
Puukapu Dam	Waimea, Hawaii	Flood control	1965	12	4,340	3.05	1,450
Kaloko Reservoir	Kilauea, Kauai	Irrigation	1890	27	915	0.12	1,400
Wailua Reservoir	Wailua, Kauai	Irrigation	1920	40	1,080	0.88	1,223
Kapaia Reservoir	Kapaia, Kauai	Irrigation	1910	50	1,050	2.51	1,114
Ku Tree Reservoir	Wahiawa, Oahu	Other	1925	1/ 98	550	0.83	1,085
Papuaa Reservoir	Omao, Kauai	Irrigation	1914	43	2,000	1.75	921
Puu Lua Reservoir	Kekaha, Kauai	Fish & wildlife pond, other	1925	105	640	0.08	888
Upper Helemano Reservoir	Waialua, Oahu	Irrigation	1912	46	530	0.45	700
Aepoeha Reservoir	Kukuila, Kauai	Irrigation	1913	42	600	0.81	670

1/ Revised from previous year *Data Book*.

Source: Hawaii State Department of Land & Natural Resources, Engineering Division, Flood Control & Dam Safety Section, records and Dam Inventory System, Hawaii State Department of Land & Natural Resources <<http://132.160.239.52/daminventory/>> accessed on July 8, 2018.

Table 5.24-- FRESH WATER USE, BY TYPE, BY COUNTY: 2010

[Million gallons per day]

Use	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Total	1,273.77	134.68	799.23	0.01	61.77	278.08
Ground water	473.57	109.48	188.00	0.01	18.31	157.77
Public supply	258.07	42.29	162.98	0.01	13.22	39.57
Domestic	1.85	-	0.83	-	0.75	0.27
Industrial	4.63	-	4.61	-	-	0.02
Irrigation	100.94	10.10	15.21	-	-	75.63
Livestock	0.63	-	0.16	-	0.18	0.29
Aquaculture	2.14	1.46	0.68	-	-	-
Mining	1.40	0.69	0.50	-	0.12	0.09
Thermoelectric	103.91	54.94	3.03	-	4.04	41.90
Surface water	800.20	25.20	611.23	-	43.46	120.31
Public supply	15.80	2.82	-	-	2.02	10.96
Domestic	6.17	6.17	-	-	-	-
Industrial	-	-	-	-	-	-
Irrigation	222.52	13.53	58.36	-	41.44	109.19
Livestock	1.20	1.20	-	-	-	-
Aquaculture	2.40	1.48	0.87	-	-	0.05
Mining	0.11	-	-	-	-	0.11
Thermoelectric	552.00	-	552.00	-	-	-

Source: U.S. Geological Survey, Water Resources, *Water Use in the United States, Estimated Use of Water in the United States County-Level Data for 2010* <<http://water.usgs.gov/watuse/data/2010/>> accessed June 18, 2015.

Table 5.25-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 2015 TO 2017

[Services as of June 30; consumption during the year ending June 30]

Geographic area	Number of services			Consumption (million gallons)		
	2015	2016	2017	2015	2016	2017
State total	281,004	272,404	(NA)	73,247	73,921	(NA)
City and County of Honolulu	180,472	171,336	171,780	48,347	48,433	47,848
Honolulu District 1/	66,240	63,206	63,437	28,837	28,700	28,360
Rest of Oahu	114,232	108,130	108,343	19,510	19,733	19,488
Hawaii County	42,759	43,117	43,352	9,196	9,655	9,701
Kauai County	21,669	21,740	(NA)	4,020	4,048	(NA)
Maui County	36,104	36,211	36,365	11,684	11,785	11,623
Maui	34,439	34,552	34,690	11,427	11,523	11,375
Molokai	1,665	1,659	1,675	257	262	248

NA Not available.

1/ Maunaloa to Moanalua.

Source: Data compiled by Hawaii State Department of Business, Economic Development & Tourism from City and County of Honolulu Board of Water Supply, County of Hawaii Department of Water Supply, County of Kauai Department of Water, and County of Maui Department of Water Supply.

**Table 5.26-- WATER WITHDRAWALS BY SOURCE AND MAJOR USE,
FOR HAWAII AND THE UNITED STATES: 2010**

[Withdrawal signifies water physically withdrawn from a source. Includes fresh and saline water]

Subject	U.S. 1/	Hawaii
Water withdrawals, total, millions of gallons per day	355,000	1,270
Source, percent		
Ground water	22.4	37.2
Surface water	77.6	62.8
Selected major uses, percent		
Public supply	11.9	21.5
Domestic	1.0	0.6
Irrigation	32.5	25.4
Livestock	0.6	0.1
Aquaculture	2.7	0.4
Industrial	4.5	0.4
Mining	1.5	0.1
Thermoelectric power	45.4	51.5

1/ Includes Puerto Rico and Virgin Islands.

Source: U.S. Geological Survey, *Estimated Use of Water in the United States in 2010*, Circular 1405 table 1 <<http://pubs.usgs.gov/circ/1405/pdf/circ1405.pdf>> accessed June 12, 2015 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 5.27-- TOP 25 WATER USERS ON OAHU:
MAY 2016 TO APRIL 2017**

[Estimated monthly average]

Rank	User	Gallons (1,000)
1	Marine Corps Base Hawaii	56,299
2	Honolulu International Airport Maintenance - 2980 Aolele	19,534
3	Chevron USA Inc	19,343
4	Hilton Hotels Corporation	15,183
5	Honolulu International Airport Maintenance - 530 Paiea	14,693
6	Disney Vacation Resort & Spa Ko Olina	13,427
7	GGP Ala Moana LLC	12,956
8	Sand Island Treatment Plant	12,255
9	University of Hawaii - 2566 Dole	12,006
10	Sheraton Waikiki Hotel	11,071
11	Ala Moana Beach Park	10,897
12	United Laundry Service	10,601
13	Dole Food Co Hawaii - Waialua Sugar Interconnection	10,364
14	Island Energy Services LLC	10,312
15	Halawa Medium Security Facility	10,100
16	Central Regional Park	8,351
17	YHB Hawaii Kai LLC (Hawaii Kai Golf Course)	8,330
18	University of Hawaii - 2444 Dole	6,940
19	Hilton Hotels Corporation	6,918
20	Hyatt Regency Waikiki	6,578
21	Honolulu Zoo	6,555
22	Kailua Treatment Plant	6,237
23	Ala Wai Golf Course	6,199
24	Hawaiian Cement	6,163
25	Hale Koa Hotel Maile Tower	6,097

Source: Honolulu Board of Water Supply, records.

**Table 5.28-- WASTEWATER TREATMENT PLANT
OPERATION AND COMPLIANCE: 1994 TO 2015**

Year	Total plants	Plants inspected	Plants rated unsatisfactory	In compliance (percent)
1994	(NA)	135	33	(NA)
1995	(NA)	163	35	(NA)
1996	(NA)	103	23	(NA)
1997	(NA)	176	45	(NA)
1998	(NA)	169	41	(NA)
1999	(NA)	164	35	(NA)
2000	(NA)	113	38	(NA)
2001	(NA)	144	35	(NA)
2002	(NA)	106	29	(NA)
2003	(NA)	100	20	(NA)
2004	(NA)	57	17	(NA)
2005	(NA)	41	8	(NA)
2006	180	93	14	92
2007	180	102	33	82
2008	180	34	15	92
2009	180	119	38	79
2010	180	114	13	93
2011	180	62	17	91
2012	190	58	13	93
2013	190	58	16	92
2014	190	82	30	84
2015	191	71	35	82

NA Not available.

Source: Hawaii State Department of Health, *Indicators of Environmental Quality Report* (annual); Hawaii State Department of Health, *Environmental Health Management Report* (annual); and Hawaii State Department of Health, Wastewater Branch, records.

Table 5.29-- WASTEWATER RECYCLED: 1994 TO 2016

[In million gallons per day. Reuse amount for 2015 onward is based on operator reports which provide more accurate figures because they account for declines in use due to rainy periods, off-spec water, and equipment malfunctions]

Year	Total wastewater treated	Wastewater reused	Percent reused
1994	150	10.50	7.00
1995	150	11.10	7.40
1996	150	12.30	8.19
1997	150	15.60	10.40
1998	150	17.00	11.33
1999	150	19.50	13.00
2000	150	20.20	13.47
2001	150	19.90	13.27
2002	150	24.00	16.00
2003	150	23.50	15.67
2004	150	23.50	15.67
2005	150	23.50	15.67
2006	150	24.60	16.40
2007	150	24.40	16.27
2008	150	23.91	15.94
2009	150	23.91	15.94
2010	145	22.98	15.85
2011	141	19.64	13.93
2012	141	21.14	14.99
2013	133	21.12	15.88
2014	134	22.00	16.42
2015 1/	134	16.30	12.10
2016	134	17.20	12.80

1/ Revised from previous *Data Book*.

Source: Hawaii State Department of Health, *Indicators of Environmental Quality Report* (annual); Hawaii State Department of Health, *Environmental Health Management Report* (annual); and Hawaii State Department of Health, Wastewater Branch, records.

Table 5.30-- HAZARDOUS WASTE SITES, THREATS AND CONTAMINANTS ON OAHU

[Sites on the National Priorities List for the Superfund Program]

Sites with threats and contaminants	Location	Final listing 1/	Deletion
Del Monte Corp. (Oahu Plantation) 2/ Naval Computer & Telecommunications Area 4/ Pearl Harbor Naval Complex 5/	Kunia Wahiawa Pearl Harbor	12/16/94 5/31/94 10/14/92	3/ (NA) (NA) (NA)

NA Not available.

1/ After the proposed listing, site was added on this date to the National Priorities List.

2/ Soil and shallow groundwater at the site have been contaminated with the fumigants EDB, DBCP and DCP, the solvents TCP and benzene and the pesticide lindane. Deep groundwater is contaminated with EDB, DBCP and TCP. People who touch or ingest contaminated groundwater or soil could be at risk.

3/ Partial deletion, EPA delisted the Poamoho section of the Site from NPL list on January 13, 2004.

4/ The Navy's Installation Restoration Program (IRP) is addressing the sites at NCTAMS EASTPAC. The sites are primarily land disposal areas that are no longer in use and PCB transformer sites. Soil contamination depends on the site but generally the chemicals of concern are PCBs, volatile organics, semi-volatile organics and metals.

5/ Soil, groundwater and sediment are contaminated with metals, organic compounds and petroleum hydrocarbons. There is a potential human health and ecological risk with contact or accidental ingestion with the contaminated media.

Source: U.S. Environmental Protection Agency, *National Priorities List Sites in Hawaii*
<<https://www.epa.gov/superfund/national-priorities-list-npl-sites-state#HI>> accessed July 8, 2018.

Table 5.31-- TOXIC CHEMICAL RELEASES IN 2016 AND HAZARDOUS WASTE GENERATED, SHIPPED, AND RECEIVED IN 2015

Category	Unit
Number of TRI facilities in Hawaii in 2016	30
Toxic chemical releases in 2016 1/	2,942,276
On-site releases	2,563,310
Air emissions	1,840,842
Water emissions	522,258
Land emissions	200,211
Off-site releases, transfers to disposal	378,966
Hazardous waste generators, shippers, and receivers 2015	
Number of generators 2/	102
Number of shippers 2/	101
Number of receivers	1
Hazardous waste generated, shipped, and received 2015 3/	
Generated 2/	484,634
Shipped 2/	955
Received	82

1/ In pounds.

2/ Revised from previous *Data Book*.

3/ In tons. Covers hazardous wastes regulated under the Resource Conservation and Recovery Act (RCRA) of 1976 as amended.

Source: United States Environmental Protection Agency, Toxic Release Inventory Program, *TRI Explorer Fact Sheet, Summary of TRI Information for Hawaii*

<http://iaspub.epa.gov/triexplorer/tri_factsheet_search.searchfactsheet> accessed June 14, 2018;

United States Environmental Protection Agency, *The National Biennial RCRA Hazardous*

Waste Report: 2015 Edition <<https://rcrainfo.epa.gov/rcrainfoweb/action/modules/br/summary/view>>

accessed June 14, 2018.

Table 5.32-- SOLID WASTE RECYCLED IN HAWAII: 2001 TO 2015

[Fiscal year ending June 30. In tons]

Year	Generated	Disposed	Diverted	Percent diverted
2001	1,794,496	1,441,000	353,496	19.7
2002	1,971,336	1,478,668	492,668	25.0
2003	2,115,313	1,489,974	625,339	29.6
2004	2,140,648	1,517,915	622,733	29.1
2005	2,116,724	1,427,904	688,820	32.5
2006	2,227,124	1,425,752	801,373	36.0
2007	2,526,134	1,733,889	792,245	31.4
2008	2,617,350	1,778,009	839,341	32.1
2009	2,532,370	1,629,397	902,973	35.7
2010	1,636,298	988,444	647,854	39.6
2011	1,786,343	1,159,027	627,316	35.1
2012	1/ 1,593,887	1,147,194	1/ 608,857	1/ 34.7
2013	2,471,320	1,566,642	904,678	38.1
2014	2,300,696	1/ 1,455,078	1/ 845,618	1/ 36.8
2015	2,417,650	1,377,611	2/ 1,040,039	1/ 43.0

1/ Maui County data currently incomplete or unavailable.

2/ Maui and Hawaii counties data currently incomplete.

Source: Hawaii State Department of Health, *Environmental Health Management Plan* (annual); and Hawaii State Department of Health, Solid & Hazardous Waste Branch, records.

**Table 5.33-- DEPOSIT BEVERAGE CONTAINER REDEMPTION
RATE: 2006 TO 2016**

[Fiscal year ending June 30. In millions of beverage containers]

Year	Beverage container sold	Beverage container redeemed	Redemption rate (percent)
2006	930	629	67.6
2007	936	633	67.6
2008	948	682	71.9
2009	896	705	78.7
2010	902	686	76.1
2011	907	687	75.7
2012	907	697	76.8
2013	912	684	75.0
2014	934	678	72.6
2015	959	648	67.6
2016	949	635	66.9

Source: Hawaii State Department of Health, *Environmental Health Management Report* (annual); and Hawaii State Department of Health, Solid & Hazardous Waste Branch, records.

**Table 5.34-- WATER QUALITY AT PUBLIC BEACHES, BY ISLAND:
2015 TO 2017**

Island	Number of locations	Number of samples	Enterococci density 1/			
			Lowest 2/	Highest 3/	Number over 4/	Mean 5/
2015						
State total	143	3,555	10.0	917.5	7	13.0
Hawaii	35	687	10.0	42.9	2	14.6
Hilo Shoreline	11	168	10.0	36.7	1	17.4
Kona Shoreline	24	519	10.0	42.9	1	13.7
Maui	62	1,205	10.0	917.5	3	12.6
Lanai	-	-	(X)	(X)	(X)	(X)
Molokai	-	-	(X)	(X)	(X)	(X)
Oahu	24	916	10.0	17.5	-	12.0
Kauai	22	747	10.0	74.2	2	13.5
2016						
State total	155	3,689	5.3	478.0	13	10.6
Hawaii	33	616	6.1	55.3	1	11.8
Hilo Shoreline	8	179	10.0	31.0	-	16.0
Kona Shoreline	25	437	6.1	55.3	1	10.5
Maui	62	1,039	9.2	394.5	5	11.8
Lanai	-	-	(X)	(X)	(X)	(X)
Molokai	-	-	(X)	(X)	(X)	(X)
Oahu	28	1,258	6.2	67.1	2	8.7
Kauai	32	776	5.3	478.0	5	11.8
2017						
State total	190	2,729	2.3	478.0	8	4.2
Hawaii	31	431	2.3	23.1	-	5.5
Hilo Shoreline	7	186	4.8	9.5	-	6.7
Kona Shoreline	24	245	2.3	23.1	-	4.7
Maui	65	805	2.3	478.0	2	3.6
Lanai	-	-	(X)	(X)	(X)	(X)
Molokai	-	-	(X)	(X)	(X)	(X)
Oahu	53	817	2.3	71.6	4	3.9
Kauai	41	676	2.3	129.2	2	4.8

Continued on next page.

**Table 5.34-- WATER QUALITY AT PUBLIC BEACHES, BY ISLAND:
2015 TO 2017 -- Con.**

X Not applicable.

1/ Geometric mean, number per 100 ml. The geometric mean standard for Enterococci density was 35 per 100 ml. in 2015-2017.

2/ The lowest reported average value for 2015 was shared by 38 beaches, one of which was White Plains Beach, on the island of Oahu. The lowest reported average value for 2016 was Polihale Beach Park on Kauai.

3/ The highest average value in 2015 was reported for Maliko Bay, on the island of Maui. The highest average value in 2016 was reported for Gillin's Beach on the island of Kauai.

4/ Refers to number of samples over the geometric mean standard for Enterococci density which was 35 per 100 ml. in 2015-2017 (stations with ≥ 5 sampling events).

5/ Not weighted by number of samples.

Source: Hawaii State Department of Health, Clean Water Branch, records.

**Table 5.35-- WATER QUALITY AT SELECTED PUBLIC BEACHES:
2015 TO 2017**

Island and beach	Number of samples			Enterococci density 1/		
	2015	2016	2017	2015	2016	2017
Hawaii						
Hilo Shoreline	168	179	186	17.4	16.0	6.7
Hilo Bay (Canoe Beach)	22	28	27	17.0	11.7	5.1
Honolii Cove (Ocean)	22	29	27	36.7	20.1	8.0
Kona Shoreline	519	437	245	13.7	10.5	4.7
Anaehoomalu Bay	62	56	32	12.4	8.4	4.0
Kahaluu Beach Park	61	55	31	18.1	17.2	7.7
Spencer Beach Park	12	6	5	23.2	15.3	5.2
Maui						
Hukilau Hotel shoreline	88	75	45	14.1	12.5	3.1
Kamaole Beach #1	86	75	49	10.9	9.4	3.0
Kihei (south)	84	75	44	11.5	10.1	4.1
Spreckelsville Beach	89	75	43	11.7	10.3	3.0
Wailea Beach	85	75	49	10.5	9.3	3.0
Oahu						
Ala Moana Park (center)	48	52	35	13.4	9.2	3.3
Hanauma Bay	41	47	33	11.2	10.8	3.8
Kailua Beach Park	41	52	36	12.7	8.6	3.6
Kuhio Beach	49	54	36	16.8	10.1	7.9
Makaha Beach	29	52	27	10.0	6.8	3.5
Sunset Beach	31	51	23	10.0	9.2	3.1
Waimea Beach	31	45	17	14.0	9.8	2.5
Kauai						
Hanapepe Salt Pond	90	84	67	10.9	7.8	2.7
Kalapaki Beach (middle)	90	84	66	18.0	10.6	7.5
Kekaha (Oomano Point)	23	20	(X)	10.0	6.6	(X)
Lydgate Park (wading pool)	88	85	68	12.4	9.8	3.8
Poipu Beach Pavilion	89	84	68	11.0	10.0	4.2

X Not applicable.

1/ Geometric mean, number per 100 ml. The geometric mean standard for Enterococci density was 35 per 100 ml. in 2015-2017.

Source: Hawaii State Department of Health, Clean Water Branch, records.

Table 5.36-- TOTAL DAYS PER YEAR OF SHORELINE POSTINGS: 2006 TO 2013

[For fiscal year ending June 30, unless otherwise specified. These numbers represent sign postings for sewage-related events along coastal shorelines, but do not reflect postings of warning signs on streams, lakes and other inland waters, such as the Ala Wai Canal. Other agencies may also post other shoreline warning signs. These numbers exclude 'brown water advisories' which are general media releases anticipating or responding to heavy storm water runoff and are not accompanied by actual sign postings]

Year	Days 1/	Year	Days 1/	Year	Days 1/
2006 2/	368	2009	310	2012	15
2007 2/	151	2010	403	2013	136
2008 2/	159	2011	529		

1/ Total days may include same-day postings of separate posting events, therefore the total may exceed 365 days.

2/ Data for 2008 and earlier are calendar year data.

Source: Hawaii State Department of Health, Clean Water Branch, records.

**Table 5.37-- REFUSE AND SEWAGE STATISTICS FOR OAHU:
2004 TO 2016**

[Fiscal year ending June 30]

Year	Tons of municipal solid waste delivered 1/			Sewage treated 2/ (millions of gallons)
	Total	City and County refuse vehicles	Other vehicles	
2004	933,028	350,298	582,730	44,472
2005	952,703	368,288	584,415	40,975
2006	937,726	363,233	574,493	42,275
2007	909,587	433,962	475,625	38,345
2008	883,365	447,972	435,393	39,217
2009	824,633	377,562	447,071	38,018
2010	777,069	326,201	450,868	38,549
2011	778,158	306,939	471,219	38,307
2012	746,368	285,153	461,215	36,517
2013	748,227	289,203	459,024	36,318
2014	764,726	302,732	461,994	38,448
2015	769,183	307,069	462,114	38,447
2016	793,793	311,172	482,621	41,136

Year	Sewage pumped 2/ (millions of gallons)	Miles of sewers 2/	City and County pump stations	City and County treatment plants
2004	50,969	2,212	65	8
2005	44,476	2,268	66	8
2006	44,168	2,268	66	8
2007	43,388	3/ 2,105	67	9
2008	49,538	2,105	67	9
2009	50,093	2,105	69	9
2010	47,051	2,105	72	9
2011	48,679	2,226	72	9
2012	45,778	2,226	72	9
2013	47,922	2,016	72	9
2014	(NA)	2,019	72	9
2015	(NA)	2,023	72	9
2016	(NA)	2,024	72	9

NA Not available.

1/ Excludes small landfill controlled by armed forces.

2/ Data limited to system maintained by the City and County of Honolulu, Department of Environmental Services.

3/ GIS editing for more accurate dimensions resulted in a reduction of lateral length.

Source: City and County of Honolulu, Department of Environmental Services, records.

Table 5.38-- AIR QUALITY IN DOWNTOWN HONOLULU: 1988 TO 2017

[Annual arithmetic means, in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$), for particulate matter 10 microns or less in diameter (PM_{10}) and in parts per million (ppm) for carbon monoxide (CO). Sampling is conducted about 46 feet above ground on the roof of the State Health Department building (Kinau Hale), 1250 Punchbowl Street, Honolulu, Hawaii]

Year	PM_{10} ($\mu\text{g}/\text{m}^3$) 1/	CO (ppm) 2/	Year	PM_{10} ($\mu\text{g}/\text{m}^3$) 1/	CO (ppm) 2/
1988	-	1.7	2003	15	0.6
1989	-	1.8	2004	13	0.6
1990	-	1.5	2005 3/	14	0.6
1991	-	1.7	2006 4/	13	0.4
1992	-	1.6	2007	14	0.5
1993	13	1.8	2008	14	0.5
1994	14	0.8	2009	13	0.4
1995	14	0.8	2010	12	0.4
1996	14	0.8	2011	12	0.4
1997	8	0.8	2012	12	0.4
1998	9	0.8	2013	11	0.4
1999	14	0.6	2014	13	0.4
2000	14	0.7	2015	11	0.5
2001	16	0.6	2016	13	0.6
2002	15	0.6	2017	11	0.5

1/ The State Ambient Air Standard for PM_{10} annual average is $50 \mu\text{g}/\text{m}^3$. The Federal standard was revoked by the U.S. Environmental Protection Agency effective December 17, 2006.

2/ There is no annual standard for CO.

3/ Represents data until July 14, 2005, when the monitoring station was closed for roof repairs.

4/ Represents data from August 5, 2006, after completion of roof repairs.

Source: Hawaii State Department of Health, Environmental Management Division, Clean Air Branch, records.

Table 5.39-- AIR QUALITY AT SPECIFIED LOCATIONS: 2017

Sampling station	PM ₁₀ (µg/m ³) 1/			Sulfur dioxide (ppm) 2/		
	Annual range 24-hr		Annual arithmetic average	Annual range 1-hr		Annual arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu						
Downtown Honolulu	2	31	11	0.000	0.008	0.001
Pearl City	5	39	15	(X)	(X)	(X)
Kapolei	1	39	13	0.000	0.012	0.001

X Not applicable.

1/ Particulate matter up to 10 microns in diameter. The State and Federal Ambient Air Standard for 24-hr PM10 is 150 µg/m³.

2/ The State Ambient Air Standard for 24-hr SO₂ is 0.14 ppm. Federal standard for SO₂ is now a 1 hour average not to exceed 75 ppb (0.075 ppm).

Source: Hawaii State Department of Health, Environmental Management Division, Clean Air Branch, records.

Table 5.40-- RELEASE OF TOXICS: 1999 TO 2016

[In pounds]

Year	Release 1/					
	Total	Air	Water	On-site land	Under-ground injection	Off-site
1999	1,681,101	1,584,809	2,721	38,163	5,070	50,338
2000	1,311,611	1,057,090	1,224	31,833	7,284	214,180
2001	3,108,521	2,379,969	29,770	224,400	2,071	472,311
2002	3,688,240	2,495,256	454,684	228,634	2,241	507,425
2003	3,163,057	2,131,959	364,067	249,267	2,670	415,094
2004	3,170,737	2,358,741	296,415	227,719	6,601	281,261
2005	3,102,730	2,311,635	522,217	89,734	2,736	176,408
2006	3,022,392	2,254,027	358,266	174,678	4,743	230,678
2007	3,015,602	2,266,925	446,948	143,011	2,670	156,048
2008	3,245,524	2,277,988	549,838	169,076	3,471	245,151
2009	2,947,241	2,228,566	222,963	147,530	4,477	343,705
2010	2,495,605	1,739,249	452,359	171,221	2,603	130,173
2011	2,597,069	1,845,550	409,370	124,224	3,722	214,203
2012	2,693,617	1,876,897	435,662	181,039	4,508	195,511
2013	3,023,584	1,727,045	441,572	232,261	1,242	621,465
2014	2,671,773	1,566,921	534,190	401,495	7,036	162,131
2015	2,569,578	1,562,956	621,767	210,030	6,346	168,480
2016	2,942,128	1,840,694	522,258	197,012	3,199	378,966

1/ Release is defined as the amount of a toxic chemical released on-site (to air, water, underground injection, landfills, and other land disposal), and the amount transferred off-site for disposal.

Source: U.S. Environmental Protection Agency, *Hawaii Report: Toxics Release Inventory* (annual) <http://iaspub.epa.gov/triexplorer/tri_factsheet.factsheet_forstate?pstate=HI&pyear=2016> accessed July 8, 2018.

**Table 5.41-- TOXIC RELEASE INVENTORY CHEMICAL RELEASES:
1988 TO 2016**

[In pounds. For all industries and all chemicals]

Year	Total on-site disposal or other releases	Total off-site disposal or other releases	Total on- and off-site disposal or other releases	Total production-related waste managed
1988	2,225,959	164,482	2,390,441	(NA)
1989	2,105,585	20,458	2,126,043	(NA)
1990	844,758	7,209	851,967	(NA)
1991	916,001	12,388	928,389	8,322,961
1992	873,910	163,500	1,037,410	8,348,939
1993	706,345	14,982	721,327	8,259,575
1994	588,489	17,371	605,860	3,133,045
1995	492,923	163,769	656,692	5,401,395
1996	536,272	3,995	540,267	4,185,584
1997	444,040	8,365	452,405	4,118,506
1998	2,026,357	85,903	2,112,260	5,806,154
1999	1,630,843	50,438	1,681,281	5,221,169
2000	1,097,432	176,546	1,273,978	1,782,121
2001	2,950,196	430,325	3,380,521	4,258,038
2002	3,180,814	514,846	3,695,661	4,620,356
2003	2,747,963	419,791	3,167,753	4,023,425
2004	2,889,493	281,224	3,170,718	3,853,008
2005	2,925,433	179,935	3,105,369	4,009,430
2006	2,790,816	230,671	3,021,488	3,679,473
2007	2,859,554	156,023	3,015,577	3,878,790
2008	3,000,373	245,176	3,245,550	4,393,104
2009	2,603,536	343,728	2,947,264	3,734,894
2010	2,365,432	130,212	2,495,644	3,045,978
2011	2,375,076	214,223	2,589,299	3,274,039
2012	2,498,106	195,511	2,693,617	6,633,891
2013	2,402,119	621,465	3,023,584	5,906,320
2014	2,509,642	162,131	2,671,773	5,677,783
2015	2,401,098	168,480	2,569,578	7,059,437
2016	2,563,310	378,966	2,942,276	5,948,533

NA Not available.

Source: United States Environmental Protection Agency, Toxic Release Inventory Program, TRI Explorer <http://iaspub.epa.gov/triexplorer/tri_release.chemical> accessed on April 20, 2018.

Table 5.42 -- RELEASE OF PERSISTENT, BIOACCUMULATIVE AND TOXIC (PBT) CHEMICALS: 2002 TO 2016

[In pounds; dioxin and dioxin-like compounds in grams]

Year	Total on- and off-site disposal or other releases 1/				
	Lead and lead compounds	PAC's 2/	Mercury and mercury compounds	Benzo (g,h,i) perylene	Dioxin 3/
2002	91,912	1,407	317	0.95	6.330
2003	106,067	1,533	203	1.18	5.129
2004	131,952	1,786	187	9.84	5.390
2005	46,192	1,683	211	213.00	5.100
2006	90,131	1,467	127	7.00	5.000
2007	84,110	1,271	203	6.00	5.080
2008	91,106	1,288	293	6.00	0.010
2009	107,782	2,276	147	16.00	4.080
2010	93,115	1,328	553	6.00	4.110
2011	74,488	1,798	236	9.00	4.233
2012	101,479	1,627	345	33.00	3.888
2013	134,234	1,361	294	6.00	3.678
2014	214,637	915	131	5.00	1.676
2015	110,410	520	128	32.00	1.649
2016	104,779	493	373	4.00	1.708

1/ Release is defined as the amount of a toxic chemical released on-site (to air, water, underground injection, landfills, and other land disposal), and the amount transferred off-site for disposal.

2/ Polycyclic aromatic compounds.

3/ Dioxin and dioxin-like compounds (in grams) unless otherwise specified.

Source: U.S. Environmental Protection Agency, *Hawaii Report: Toxics Release Inventory* (annual) <http://iaspub.epa.gov/triexplorer/tri_release.chemical> accessed July 8, 2018.

Table 5.43-- OIL AND CHEMICAL RELEASES: 2006 TO 2014

Year	Total oil & chemical releases	Oil releases			Chemical releases		
		Total	To land	To water	Total	To land	To water
2006	384	206	(NA)	(NA)	178	(NA)	(NA)
2007	489	289	(NA)	(NA)	200	(NA)	(NA)
2008	305	198	(NA)	(NA)	107	(NA)	(NA)
2009	268	143	56	87	125	63	62
2010	414	218	126	92	196	131	65
2011	371	257	185	72	114	51	63
2012	376	268	203	65	108	70	38
2013	388	256	178	78	132	83	49
2014	366	230	159	71	136	104	32

NA Not available.

Source: Hawaii State Department of Health, Hazard Evaluation and Emergency Response Office, records.

**Table 5.44-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS
AT MAUNA LOA: 1958 TO 2017**

[Average carbon dioxide mixing ratio, parts per million]

Year	Annual average	Year	Annual average	Year	Annual average
1958	1/ 315.17	1978	335.35	1998	366.61
1959	315.83	1979	336.73	1999	368.33
1960	316.75	1980	338.72	2000	369.55
1961	317.49	1981	340.12	2001	371.14
1962	318.30	1982	341.21	2002	373.28
1963	318.83	1983	342.87	2003	375.80
1964	2/ 319.04	1984	344.48	2004	377.52
1965	319.87	1985	345.85	2005	379.80
1966	321.21	1986	347.21	2006	381.90
1967	322.02	1987	348.98	2007	383.79
1968	322.83	1988	351.34	2008	385.60
1969	323.93	1989	352.89	2009	387.43
1970	325.27	1990	354.26	2010	389.90
1971	326.17	1991	355.45	2011	391.65
1972	327.26	1992	356.58	2012	393.85
1973	329.45	1993	357.01	2013	396.52
1974	1/ 329.72	1994	358.51	2014	398.65
1975	3/ 331.14	1995	360.62	2015	400.83
1976	332.04	1996	362.40	2016	404.21
1977	333.79	1997	363.54	2017	406.53

1/ Based on data for 8 months.

2/ Based on data for 9 months.

3/ Based on data for 11 months.

Source: National Weather Service, Pacific Region, Honolulu (for 1958-1991); Mauna Loa Observatory (for 1992-1999); and U.S. Department of Commerce, National Oceanic & Atmospheric Administration (NOAA), Cooperative Global Air Sampling Network, Global Monitoring Division, Earth Systems Research Laboratory (ESRL) <ftp://aftp.cmdl.noaa.gov/products/trends/co2/co2_annmean_mlo.txt> accessed June 14, 2018 and records.

Table 5.45-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

[Updated through December 2017]

Island and station	Ground elevation (feet)	Average temperature 1/ (°F)		Extreme temperature of record (°F)		Average annual precipitation (inches)
		Coollest month	Warmest month	Lowest	Highest	
Hawaii:						
Hilo Airport	38	2/ 63.5	2/ 84.0	2/ 51	2/ 92	2/ 124.73
Hawaii Volcanoes Nat. Park Hdq.	3,971	2/ 46.0	2/ 72.5	34	2/ 87	2/ 93.11
Naalehu	800	2/ 61.5	2/ 84.5	50	2/ 96	2/ 45.20
Kailua (Kona Airport)	30	2/ 69.5	2/ 87.5	2/ 60	2/ 96	2/ 23.30
Puako 3/	49	2/ 60.0	2/ 85.0	52	2/ 92	2/ 9.01
Waimea (Kamuela) 4/	2,671	2/ 49.5	2/ 73.5	34	87	2/ 31.44
Honokaa	1,080	(NA)	(NA)	(NA)	(NA)	2/ 67.35
Mauna Kea summit 5/	13,773	(NA)	(NA)	(NA)	(NA)	2/ 5.71
Maui:						
Hana Airport 6/	75	2/ 60.0	2/ 84.0	50	2/ 94	2/ 73.42
Haleakala summit 7/	9,964	2/ 26.0	2/ 62.5	2/ 15	2/ 73	2/ 25.33
Kihei 8/	160	(NA)	(NA)	(NA)	(NA)	2/ 12.21
Kahului Airport	51	2/ 61.5	2/ 86.5	48	97	2/ 18.52
Lahaina 9/	40	2/ 63.0	2/ 86.0	52	2/ 97	2/ 13.57
Molokai:						
Kaunakakai	12	(NA)	(NA)	(NA)	(NA)	2/ 13.10
Molokai Airport	443	2/ 59.5	2/ 85.5	2/ 46	93	2/ 23.83
Lanai:						
Lanai City 10/	1,620	2/ 55.5	2/ 79.5	46	2/ 89	2/ 33.41

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Table 5.45-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature 1/ (°F)		Extreme temperature of record (°F)		Average annual precipitation (inches)
		Coollest month	Warmest month	Lowest	Highest	
Oahu:						
Daniel K. Inouye International Airport 11/	7	2/ 62.5	2/ 86.5	52	95	2/ 19.57
Waikiki (Honolulu Zoo)	10	2/ 59.5	2/ 86.5	2/ 43	2/ 95	2/ 22.55
Manoa (Lyon Arboretum)	500	2/ 60.5	2/ 82.0	49	92	2/ 150.52
Kaneohe (State Hospital)	190	2/ 60.5	2/ 84.5	2/ 50	2/ 93	2/ 69.53
Kahuku	13	2/ 32.0	2/ 85.0	2/ 32	95	2/ 37.84
Wheeler AFB 12/	820	2/ 32.0	2/ 80.0	2/ 32	2/ 91	2/ 39.96
Upper Wahiawa 13/	1,006	2/ 59.5	2/ 81.0	2/ 42	2/ 92	2/ 59.81
Kauai:						
Kilauea (town)	390	2/ 59.5	2/ 82.5	49	93	2/ 64.89
Lihue Airport	100	2/ 60.0	2/ 84.5	50	91	2/ 39.75
Poipu (Makahuena Pt.) 7/	52	2/ 61.0	2/ 85.5	50	2/ 96	2/ 32.06
Kekaha 14/	10	2/ 61.5	2/ 85.0	44	95	2/ 20.60
Kokee (Kanalohuluhulu)	3,600	2/ 32.5	2/ 74.0	2/ 19	86	2/ 62.29
Northwestern Hawaiian Islands:						
Midway 15/	40	2/ 55.0	2/ 86.5	2/ 49	92	2/ 40.73

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Table 5.45-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

NA Not available.

1/ For some stations, data represent 30-year normals.

2/ Revised from previous *Data Book*.

3/ Data available through 1976. Temperature data are for Mahukona.

4/ Data available through 1980.

5/ Based on incomplete and non-continuous data for 1966-1972.

6/ Data available through 2005.

7/ Data available through 1976.

8/ Temperature data available through 1982, refer to Keawakapu Beach.

9/ Data available through 2001.

10/ Data available through 2008, then restarted since June 2010.

11/ Formerly known as Honolulu International Airport.

12/ Data available through 1949.

13/ Started on April 1971 used through December 1977, then relocated WSW of Post Office at Wahiawa.

14/ Data available through 2000.

15/ Data available through 1991, not confirmed.

Source: Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records; and University of Hawaii at Manoa, School of Ocean and Earth Science and Technology, Department of Atmospheric Science, records.

Table 5.46-- CLIMATIC NORMALS, MEANS, AND EXTREMES FOR HILO, KAHULUI, HONOLULU, AND LIHUE AIRPORTS: 2017

[Normals are 30-year averages (1981 - 2010)]

Subject	Hilo	Kahului	Honolulu	Lihue
Temperatures (°F)				
Normal daily maximum, annual	80.9	84.3	84.4	81.2
Highest daily maximum	94	97	95	91
Month and year of occurrence	Nov 2013	Aug 2015	Sep 1994	Oct 2012
Normal daily minimum, annual	66.8	67.4	70.9	70.4
Lowest daily minimum	53	22	53	50
Month and year of occurrence	Feb 1962	Jan 2004	Jan 1998	Jan 1969
Normal dry bulb (temperature of ambient air)				
Coolest	71.2	71.8	73.1	71.6
Month	Feb	Feb	Feb	Feb
Warmest	76.4	79.7	81.9	79.7
Month	Aug	Aug	Aug	Aug
Annual	73.9	75.8	77.7	75.8
Normal no. days with maximum 90°F and above	-	17.0	18.7	0.1
Normal relative humidity (percent), annual				
8 a.m.	80	74	72	77
2 p.m.	68	58	56	66
Percent of possible sunshine, annual	41	67	71	59
Mean no. days (annual) with				
Clear	35.5	130.5	90.0	55.3
Partly cloudy	131.3	145.2	179.8	183.2
Cloudy	195.3	89.5	92.0	123.2
Wind speed (m.p.h.), annual				
Mean	6.7	12.8	10.3	13.3
Maximum 2-minute	39	48	40	48
Month and year of occurrence	Aug 2014	Jan 2004	Jan 2004	Dec 2007
Precipitation (inches)				
Normal, annual	126.72	17.83	17.10	37.05
Maximum monthly	50.82	14.46	20.79	36.13
Month and year of occurrence	Dec 1954	Jan 1980	Mar 1951	Mar 2006
Minimum monthly	0.13	-	0.01	0.08
Month and year of occurrence	Jan 1998	Jun 1957	Dec 2012	Dec 2005
Maximum in 24 hours	27.36	7.01	17.07	11.54
Month and year of occurrence	Nov 2000	Jan 1980	Mar 1958	Dec 1968

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 2017*, "Normals, Means, and Extremes," for Hilo, Kahului, Honolulu, and Lihue (annual) <<http://www.ncdc.noaa.gov/IPS/lcd/lcd.html>> accessed June 15, 2018.

Table 5.47-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: 2017

[Normals are 30-year averages (1981 - 2010)]

Month	Normal temperature (°F)			Extreme temperature (°F)		Precipitation (inches)			
	Daily maximum	Daily minimum	Normal dry bulb 1/	Highest daily maximum	Lowest daily minimum	Normal	Maximum monthly	Minimum monthly	Maximum in 24 hours
January	80.1	66.3	73.2	88	53	2.31	14.74	0.03	6.72
February	80.2	66.1	73.1	88	53	1.99	13.68	0.06	6.88
March	81.2	67.7	74.5	88	55	2.02	20.79	0.01	17.07
April	82.7	69.4	76.1	91	57	0.63	8.92	0.01	4.21
May	84.6	70.9	77.8	93	60	0.62	7.23	0.03	3.44
June	87.0	73.4	80.2	92	65	0.26	2.46	(2/)	2.28
July	87.9	74.5	81.2	94	66	0.51	2.71	0.02	2.20
August	88.7	75.1	81.9	93	65	0.56	7.63	(2/)	4.42
September	88.6	74.4	81.5	95	66	0.70	4.48	0.05	2.25
October	86.7	73.4	80.0	94	58	1.84	11.15	0.07	7.57
November	83.9	71.4	77.6	93	57	2.42	18.79	0.03	9.15
December	81.2	68.3	74.8	89	54	3.24	17.29	0.01	8.25
Annual	84.4	70.9	77.7	95	53	17.10	20.79	0.01	17.07

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Table 5.47-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: 2017-- Con.

Month	Relative humidity (percent)		Wind (miles/hour)		Percent of possible sunshine	Number of days		
	8 a.m.	2 p.m.	Mean speed	Maximum 2-minute speed		Mean		Normal
						Clear	Cloudy	Precipitation .01 inch or more
January	81	61	8.4	40	65	9.5	8.5	8.5
February	79	59	9.1	37	68	8.1	7.6	7.4
March	73	57	10.1	39	72	7.4	9.3	8.8
April	70	55	11.0	35	70	5.9	9.6	7.5
May	67	54	10.6	30	72	6.7	8.7	5.8
June	66	52	11.9	30	74	6.5	6.2	5.7
July	68	52	11.9	30	76	7.4	5.1	7.1
August	68	52	11.7	31	77	8.0	5.7	5.6
September	70	53	10.2	30	77	7.9	5.7	6.9
October	71	56	9.6	36	71	7.5	8.1	7.6
November	75	59	9.8	35	64	7.2	8.8	8.8
December	79	60	9.2	39	63	7.9	8.7	9.7
Annual	72	56	10.3	40	71	90.0	92.0	89.4

1/ Temperature of the ambient air.

2/ Trace precipitation.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, 2017*, "Normals, Means, and Extremes, Honolulu, HI" (annual) <<http://www.ncdc.noaa.gov/IPS/lcd/lcd.html>> accessed June 15, 2018.

Table 5.48-- AVERAGE TEMPERATURE, PERCENT OF POSSIBLE SUNSHINE, AND PRECIPITATION, FOR HONOLULU INTERNATIONAL AIRPORT: 1960 TO 2017

Year	Average temperature (°F)	Percent of possible sunshine	Precipitation (inches)	Year	Average temperature (°F)	Percent of possible sunshine	Precipitation (inches)
1960	76.7	70	12.07	1990 1/	77.6	69	19.84
1961	77.2	81	14.26	1991 1/	77.7	69	17.94
1962	76.5	71	13.58	1992 1/	77.8	69	19.00
1963	76.7	64	37.91	1993 1/	77.1	69	5.84
1964	77.0	63	20.12	1994 1/	78.8	70	15.59
1965 2/	76.1	74	42.78	1995 1/	79.3	70	13.60
1966 2/	77.6	68	23.18	1996 1/	78.6	70	33.12
1967 2/	77.6	58	34.34	1997 1/	77.8	71	19.99
1968 2/	77.9	63	37.26	1998 1/	77.1	71	4.52
1969 2/	77.4	68	22.50	1999 1/	76.9	71	11.99
1970 2/	78.2	72	15.49	2000 1/	77.6	71	7.10
1971 2/	76.1	70	26.64	2001 1/	78.2	71	9.14
1972	76.2	65	26.94	2002 1/	77.9	71	12.18
1973	77.2	63	14.24	2003 1/	78.5	71	12.69
1974	77.5	61	24.02	2004 1/	78.7	71	39.01
1975	76.2	62	24.39	2005 1/	78.4	71	15.60
1976	76.8	60	12.90	2006 1/	77.1	71	29.45
1977	78.2	68	12.36	2007 1/	78.0	71	11.99
1978	76.8	69	25.05	2008 1/	78.3	71	14.76
1979	77.0	68	16.93	2009 1/	(NA)	71	11.55
1980 1/	77.4	68	26.90	2010 1/	77.5	71	17.40
1981 1/	77.1	68	13.41	2011 1/	78.3	71	15.69
1982 1/	76.9	67	34.92	2012 1/	77.2	71	8.58
1983 1/	77.2	67	5.03	2013 1/	77.1	71	16.18
1984 1/	78.1	67	17.08	2014 1/	78.2	71	20.82
1985 1/	76.9	67	17.38	2015 1/	78.7	71	21.04
1986 1/	78.3	68	13.93	2016 1/	77.9	71	13.16
1987 1/	77.9	68	23.53	2017 1/	78.2	71	22.62
1988 1/	78.5	68	16.47				
1989 1/	77.5	68	27.52				

NA Not available.

1/ From 1980 on, data taken from "Normals, Means, and Extremes, Honolulu, HI" table, and represents a historic average rather than annual data.

2/ Site conditions produced distorted temperature measurements from 1965 to 1971.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data 2017*, "Average Temperature (°F), Honolulu, HI", "Normals, Means, and Extremes, Honolulu, HI", "Precipitation (inches), Honolulu, HI" (annual) <<http://www.ncdc.noaa.gov/IPS/lcd/lcd.html>> accessed June 15, 2018.

Table 5.49-- AVERAGE DAILY TEMPERATURE AND DAYS WITH MAXIMUM OF 90° OR HIGHER, FOR HONOLULU INTERNATIONAL AIRPORT: 1971 TO 2017

Year	Average daily maximum (°F)	Days 90° or higher	Year	Average daily maximum (°F)	Days 90° or higher
1971	82.7	-	2001	84.5	19
1972	83.2	3	2002	84.1	9
1973	84.4	10	2003	84.8	35
1974	85.0	25	2004	84.9	53
1975	83.6	1	2005	84.7	55
1976	84.1	9	2006	83.1	1
1977	85.2	16	2007	84.2	11
1978	84.2	13	2008	84.5	12
1979	84.7	51	2009	(NA)	31
1980	84.6	22	2010	84.0	1
1981	84.6	9	2011	84.6	8
1982	83.5	27	2012	83.4	-
1983	85.1	44	2013	83.6	3
1984	85.5	63	2014	84.4	40
1985	84.6	53	2015	85.0	64
1986	86.2	64	2016	84.1	4
1987	85.7	93	2017	84.7	14
1988	86.1	70			
1989	85.2	34			
1990	84.0	47			
1991	84.9	35			
1992	85.2	28			
1993	84.5	23			
1994	85.5	85			
1995	86.8	116			
1996	85.8	69			
1997	85.1	50			
1998	83.7	-			
1999	83.2	-			
2000	84.0	4			

NA Not available

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data 2017*, "Meteorological Data, Honolulu" (annual) <<http://www.ncdc.noaa.gov/IPS/lcd/lcd.html>> accessed June 15, 2018.

Table 5.50-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: 2004 TO 2017

Year	Average temperature (°F) 1/			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
2004	78.7	73.6	82.8	60	92	39.01
2005	78.4	72.7	83.6	58	93	15.60
2006	77.1	72.1	81.2	60	90	29.45
2007	78.0	73.4	82.1	57	91	11.99
2008	78.3	73.6	82.2	62	90	14.76
2009	(NA)	72.5	82.5	58	92	11.55
2010	77.5	73.1	80.7	61	90	17.40
2011	78.3	73.4	81.5	59	90	15.69
2012	77.2	73.9	80.8	60	89	8.58
2013	77.1	72.9	81.2	59	90	16.18
2014	78.2	72.7	82.9	60	93	20.82
2015	78.7	72.3	83.5	57	93	21.04
2016	77.9	74.2	81.5	59	91	13.16
2017	78.2	73.5	81.7	58	91	22.62

Year	Relative humidity (percent)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 a.m.	2 p.m.	Annual average	Peak gust		
2004	75	61	9.7	(NA)	(NA)	122
2005	71	55	10.6	(NA)	(NA)	90
2006	66	58	9.9	(NA)	(NA)	97
2007	63	54	11.1	(NA)	(NA)	83
2008	62	53	10.0	(NA)	(NA)	92
2009	62	54	10.2	(NA)	(NA)	74
2010	63	53	10.1	(NA)	(NA)	88
2011	66	56	10.1	(NA)	(NA)	108
2012	66	57	10.7	(NA)	(NA)	51
2013	65	56	9.4	(NA)	(NA)	83
2014	65	56	8.9	(NA)	(NA)	104
2015	67	58	9.4	(NA)	(NA)	122
2016	66	57	10.2	(NA)	(NA)	97
2017	64	54	9.7	(NA)	(NA)	72

NA Not available.

1/ Average dry bulb (temperature of the ambient air).

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data 2017*, "Meteorological Data, Honolulu, HI" (annual) <<http://www.ncdc.noaa.gov/IPS/lcd/lcd.html>> accessed June 15, 2018.

Table 5.51-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages			
Lowest monthly average minimum temp. (°F)	February	Mauna Kea summit	23.5
Lowest monthly average daily temp. (°F)	February	Mauna Kea summit	31.3
Highest monthly average maximum temp. (°F)	September	Kawaihae 1/	91.9
Highest monthly average daily temp. (°F)	September	Kawaihae 1/	80.8
Lowest average annual rainfall (inches)	...	Kawaihae	8.7
Highest average annual rainfall (inches)	...	Waialeale	444
Single events			
Lowest temperature of record (°F)	Jan. 20, 1970	Mauna Kea summit 2/	1.4
Highest temperature of record (°F)	April 27, 1931	Pahala	100
Lowest annual rainfall of record (inches)	1953	Kawaihae	0.2
Highest annual rainfall of record (inches)	1982	Waialeale	666
Highest wind speed of record (m.p.h.)	Sept. 11, 1992	Makahuena Pt. 3/	143

1/ Puukohola Heiau National Historical Site, Kawaihae, Hawaii.

2/ Recorded by Dr. Alfred Woodcock 60 meters inside the Mauna Kea summit cone, at 6:50 a.m. The rim at that time had a temperature of 39°F.

3/ Makahuena Point Coast Guard Station, Poipu, Kauai.

Source: Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data provided February 14, 1995.

**Table 5.52-- RAINFALL AT SPECIFIED LOCATIONS:
2003 TO 2017**

[In inches]

Year	Hawaii				Maui		
	Hilo Airport	Lalamilo	Kona Village	Naalehu	Kahului Airport	Kihei	Lahaina
2003	91.38	1/ 12.37	5.66	1/ 25.71	13.83	11.58	(NA)
2004	137.49	29.99	19.97	2/ 47.56	26.17	26.38	(NA)
2005	123.32	15.58	14.90	1/ 25.01	2/ 15.45	10.88	(NA)
2006	122.02	10.61	9.68	1/ 71.26	18.65	16.49	(NA)
2007	106.75	16.39	12.45	42.46	13.06	14.61	(NA)
2008	127.53	7.43	7.74	1/ 48.43	9.55	5.84	(NA)
2009	131.18	2/ 9.41	6.99	4/ 23.20	14.07	7.33	(NA)
2010	63.29	8/ 0.25	5.55	8/ 0.51	9.44	4.68	(NA)
2011	97.66	8/ 0.36	3.29	6/ 11.49	1/ 10.59	7.42	(NA)
2012	90.94	5/ 1.04	1.50	7/ 18.73	5.04	2.17	(NA)
2013	102.24	9/ 0.90	4/ 4.29	1/ 27.02	15.41	1/ 6.76	(NA)
2014	115.24	7/ 11.83	13.64	1/ 52.87	23.25	17.97	(NA)
2015	147.59	8/ 1.66	9.61	43.20	29.26	1/ 14.22	(NA)
2016	128.43	9/ 0.04	1/ 14.60	41.76	19.00	1/ 14.22	8/ 0.73
2017	105.57	1.38	(NA)	35.64	26.10	(NA)	(NA)

Year	Oahu				Kauai		
	Waikiki	University of Hawaii	Nuuanu Res. 4	Kane-ohe	Koloa	Lihue Airport	Princeville
2003	23.09	1/ 24.36	111.33	50.75	2/ 31.06	35.78	74.82
2004	40.31	61.89	146.17	81.26	64.89	49.91	93.17
2005	19.26	36.45	1/ 79.09	58.24	4/ 22.35	27.61	79.95
2006	31.84	38.90	89.54	81.28	3/ 60.48	67.03	91.58
2007	27.30	1/ 33.81	1/ 93.06	45.19	43.52	24.37	72.09
2008	15.60	33.79	103.82	41.44	57.56	40.07	78.85
2009	11.56	24.22	1/ 88.12	52.50	1/ 30.99	26.63	82.53
2010	15.60	32.76	83.33	40.91	1/ 43.12	25.94	52.02
2011	23.74	1/ 29.87	93.76	1/ 52.56	3/ 39.64	42.67	83.11
2012	14.25	23.01	5/ 61.22	32.66	(10/)	41.12	73.40
2013	19.25	32.11	112.48	47.44	(10/)	37.15	62.28
2014	21.48	32.83	123.63	52.51	(10/)	30.94	70.73
2015	18.54	3/ 33.70	130.86	1/ 52.45	(10/)	30.07	71.87
2016	11.97	24.80	123.67	1/ 80.30	(10/)	13.39	74.53
2017	21.58	29.95	101.15	60.61	40.23	23.68	72.42

Continued on next page.

**Table 5.52-- RAINFALL AT SPECIFIED LOCATIONS:
2003 TO 2017 -- Con.**

NA Not available.

1/ Missing 1 day.

2/ Missing 2 days.

3/ Missing 3 days.

4/ Missing 4 days.

5/ Missing 5 days.

6/ Missing 6 days.

7/ Missing 7 days.

8/ Missing 10 days.

9/ Missing 11 days.

10/ Missing 26 or more days.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Climatological Data, Annual Summary, Hawaii and Pacific* (annual); Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records; and University of Hawaii at Manoa, School of Ocean and Earth Science and Technology, Department of Atmospheric Science, records.

Table 5.53-- MAJOR HURRICANES: 1950 TO 2017

Hurricane name	Date 1/	Islands most affected	Maximum recorded winds ashore (m.p.h.)		Deaths	Property damage (mil. dol.)
			Sustained	Peak gusts		
Hiki	Aug. 15-17, 1950	Kauai	68	(NA)	1	0.2
Della	Sept. 4, 1957	French Frigate Shoals	82	109	-	Minor
Nina	Dec. 1-2, 1957	Kauai	(NA)	92	1	0.1
Dot	Aug. 6, 1959	Kauai	81	103	-	5.5+
Fico	July 18-20, 1978	Hawaii	(NA)	58+	-	0.2
Iwa	Nov. 23, 1982	Kauai, Oahu	65	117	1	234.0
Estelle	July 22, 1986	Maui, Hawaii	(NA)	55	-	2.0
Iniki	Sept. 11, 1992	Kauai, Oahu	92	143	8	1,900

NA Not available.

1/ Period affecting the Hawaiian Islands.

Source: Samuel L. Shaw, *A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979* (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981); Hawaii State Department of Defense, Civil Defense Division, *Catalogue of Natural and Man-Caused Incidents and Disasters in the Hawaiian Islands* (December 1978); The Governor's Ad Hoc Committee on the Economic Impact of Hurricane Iwa, *Hurricane Iwa's Economic Impact on Hawaii* (January 1983); "The History of Hurricanes in Hawaii", *Honolulu Star-Bulletin*, July 18, 1983, p. A-5; "20-Foot Waves Hit Big Isle As Storm Brushes Coastline", *The Honolulu Advertiser*, July 23, 1986, pp. A1, A2; "Hawaii Hurricanes", *Honolulu Star-Bulletin*, August 4, 1988, p. A-8; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records; and University of Hawaii at Manoa, School of Ocean and Earth Science and Technology, Department of Atmospheric Science, records.

**Table 5.54-- TRADE WINDS, HIGH SURF, AND TEMPERATURES
IN HAWAIIAN WATERS, BY MONTH**

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature 4/ (°F)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan.	42	9	1	19	74.7	71.1
Feb.	55	7	1	16	75.6	70.3
March	61	10	1	12	76.5	71.8
April	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June	91	7	15	-	81.1	77.7
July	95	10	16	-	81.1	78.3
Aug.	94	7	15	-	81.9	79.2
Sept.	83	4	10	2	81.9	78.4
Oct.	71	4	1	12	81.1	77.2
Nov.	64	8	-	19	79.3	74.5
Dec.	57	9	-	20	75.9	71.4
Annual	73	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, *Weather in Hawaiian Waters* (Honolulu: Pacific Weather, Inc., 1979), pp. 14, 22, 56, and 74; and Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data provided February 14, 1995.

**Table 5.55-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT
SELECTED LOCATIONS, AT BEGINNING OF EACH SEASON: 2018**

[Based on Hawaii-Aleutian Standard Time which is 10 hours less than Universal Time
Coordinated (UTC), the international standard for civil time]

Subject	Hilo	Kahului	Honolulu	Lihue
Sunrise (a.m.)				
March 20	6:24	6:30	6:35	6:41
June 21	5:43	5:46	5:50	5:55
Sept. 22	6:09	6:15	6:20	6:26
Dec. 21	6:50	6:58	7:04	7:12
Sunset (p.m.)				
March 20	6:31	6:37	6:43	6:49
June 21	7:02	7:10	7:16	7:24
Sept. 22	6:16	6:22	6:27	6:33
Dec. 21	5:47	5:50	5:55	6:00
Daylight (hours, minutes)				
March 20	12, 07	12, 07	12, 08	12, 08
June 21	13, 19	13, 24	13, 26	13, 29
Sept. 22	12, 07	12, 07	12, 07	12, 07
Dec. 21	10, 57	10, 52	10, 51	10, 48

Source: U.S. Naval Observatory, Astronomical Applications Department
<<http://aa.usno.navy.mil/data/docs/EarthSeasons.php>> and
<http://aa.usno.navy.mil/data/docs/RS_OneYear.php> accessed June 15, 2018; and
calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 5.56-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT
SELECTED LOCATIONS, AT BEGINNING OF EACH SEASON: 2019**

[Based on Hawaii-Aleutian Standard Time which is 10 hours less than Universal Time
Coordinated (UTC), the international standard for civil time]

Subject	Hilo	Kahului	Honolulu	Lihue
Sunrise (a.m.)				
March 20	6:24	6:30	6:35	6:42
June 21	5:43	5:46	5:50	5:55
Sept. 22	6:09	6:15	6:20	6:26
Dec. 21	6:50	6:58	7:04	7:12
Sunset (p.m.)				
March 20	6:31	6:37	6:42	6:49
June 21	7:02	7:10	7:16	7:24
Sept. 22	6:17	6:22	6:28	6:34
Dec. 21	5:47	5:50	5:55	5:59
Daylight (hours, minutes)				
March 20	12, 07	12, 07	12, 07	12, 07
June 21	13, 19	13, 24	13, 26	13, 29
Sept. 22	12, 08	12, 07	12, 08	12, 08
Dec. 21	10, 57	10, 52	10, 51	10, 47

Source: U.S. Naval Observatory, Astronomical Applications Department
<<http://aa.usno.navy.mil/data/docs/EarthSeasons.php>> and
<http://aa.usno.navy.mil/data/docs/RS_OneYear.php> accessed June 15, 2018; and
calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 5.57-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF MAJOR SPECIES IN THE HONOLULU AREA: 2013 TO 2017

[Counts are made in late December at various locations between Hawaii Kai and Aiea, and between Waimanalo and Kaneohe. Annual changes reflect differences in numbers of bird counters and counting time in the field, as well as changes in bird populations. Totals by species are also affected by the types of habitats studied]

Species	2013	2014	2015	2016	2017
Endemic species 1/					
'Apapane	28	7	2	26	4
Hawaiian Duck X Mallard	188	144	274	160	279
Hawaiian Moorhen 2/	50	31	23	103	77
Hawaiian Stilt 2/	143	103	129	124	117
Oahu 'Amakihi	33	23	-	7	7
Oahu 'Elepaio	7	5	2	-	1
Indigenous species 3/					
Black-crowned Night Heron	41	33	34	39	51
Brown Booby	1	29	5	8	8
Great Frigatebird	25	48	15	7	78
Red-footed Booby	866	1,473	1,650	2,050	1,775
White Tern	9	5	3	48	55
Alien species 4/					
Cattle Egret	130	212	193	204	193
Common Myna	885	522	820	1,137	1,294
Common Waxbill	337	1,319	647	1,414	860
House Finch	141	73	36	32	89
House Sparrow	162	56	123	258	373
Japanese White-eye	201	260	63	61	104
Java Sparrow	497	623	611	128	262
Northern Cardinal	48	33	19	22	28
Nutmeg Mannikin	14	265	89	57	27
Red-billed Leiothrix	118	131	14	42	50
Red-crested Cardinal	159	95	227	228	250
Red-vented Bulbul	379	363	165	289	278
Red-whiskered Bulbul	72	118	13	37	24
Rock Dove/Pigeon	224	165	283	630	605
Spotted Dove	393	214	161	269	242
White-rumped Shama	60	78	16	20	55
Yellow-fronted Canary	56	6	144	190	97
Zebra Dove	1,110	1,303	878	1,826	2,317

Continued on next page.

Table 5.57-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF MAJOR SPECIES IN THE HONOLULU AREA: 2013 TO 2017 -- Con.

Species	2013	2014	2015	2016	2017
Visitor species 5/					
Mallard	6	3	13	104	10
Pacific Golden-Plover	613	374	231	313	342
Ruddy Turnstone	561	131	245	186	239
Sanderling	13	5	11	1	9
Wandering Tattler	19	18	12	5	15

1/ Birds peculiar to Hawaii, and found nowhere else.

2/ Endangered species.

3/ Native to Hawaii, but also found elsewhere.

4/ Formerly termed "introduced". Includes accidental escapes from captivity.

5/ Formerly termed "migratory". Includes stragglers and seasonal migrants.

Source: Audubon's Christmas Bird Count <<http://netapp.audubon.org/CBCObservation/>> accessed June 15, 2018.

Table 5.58-- HAWAII AUDUBON SOCIETY BIRD COUNTS IN THE HONOLULU AREA, BY TYPE OF SPECIES: 2005 TO 2017

[Counts are made in late December of various locations between Hawaii Kai and Aiea, and between Waimanalo and Kaneohe. Annual changes reflect differences in numbers of bird counters and counting time in the field, as well as changes in bird populations. Totals by species are also affected by the types of habitats studied]

Year	Type of species				
	All species	Endemic	Indigenous	Alien	Visitor
2005	52	5	8	28	11
2006	55	5	13	27	10
2007	47	5	7	26	9
2008	40	3	5	22	10
2009	51	5	11	28	7
2010	46	4	8	27	7
2011	60	5	9	33	13
2012	54	5	7	28	14
2013	50	5	9	27	9
2014	56	5	12	28	11
2015	51	5	8	27	11
2016	48	4	9	28	7
2017	50	5	7	30	8

Year	Number of individuals				
	All species	Endemic	Indigenous	Alien	Visitor
2005	7,007	106	1,143	4,673	1,085
2006	7,386	152	620	5,671	943
2007	5,021	149	695	3,445	732
2008	4,110	193	553	2,587	777
2009	6,963	149	656	5,102	1,056
2010	5,475	304	808	3,574	789
2011	11,807	512	1,242	8,985	1,068
2012	9,600	403	837	7,458	902
2013	7,847	353	1,138	5,113	1,243
2014	8,528	271	1,733	5,977	547
2015	7,314	302	1,860	4,640	512
2016	10,406	240	2,381	7,260	525
2017	10,583	374	2,161	7,430	618

Source: Audubon's Christmas Bird Count <<http://netapp.audubon.org/CBCObservation/>> accessed June 15, 2018; Robert L. Pyle, *Checklist of the Birds of Hawaii* <<http://www.hawaiiiaudubon.com/checklist/checklist2002.pdf>> accessed on June 22, 2010; and calculations by the Department of Business, Economic Development & Tourism.

Table 5.59-- BIRD SPECIES OF HAWAII: 2017

Type of species	Number
All species	1/ 338
Resident native: normally does not leave the islands	34
Alien, introduced: resident, does not leave the islands	53
Breeding in Hawaii: most individuals leave Hawaii when not breeding	26
Visitor: breeds elsewhere, occurs in Hawaii when not breeding	194
Extinct: extinct or almost certainly extinct	33
Endangered (or threatened): on the federal list of endangered species	36

1/ Doesn't include double counts for cattle egret and eurasian skylark, that are classified as alien and visitor.

Source: Robert L. Pyle and Peter Pyle, *The Birds of the Hawaiian Islands: Occurrence, History, Distribution, and Status*, Version 2-1 January 2017, Bishop Museum, Hawaii Biological Survey

<<http://hbs.bishopmuseum.org/birds/rlp-monograph/PrimaryChecklist.htm>> accessed on July 4, 2017 and

U.S. Fish & Wildlife Service, Environmental Conservation Online System (ECOS)

<<https://ecos.fws.gov/ecp/species-reports>> accessed July 4, 2017.

Table 5.60-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 2012 to 2017

[As of June 30]

Location	2012	2013	2014	2015	2016	2017
Along City and County streets and highways 1/	143,400	142,700	143,281	143,967	145,184	145,900
In City and County parks	95,600	95,100	95,521	95,978	96,790	97,266

1/ Excludes Federal, State, and private thoroughfares.

Source: City and County of Honolulu, Department of Parks and Recreation, Urban Forestry, records.

**Table 5.61-- THREATENED AND ENDANGERED SPECIES, FOR HAWAII
AND THE UNITED STATES**

[As of July 8, 2018]

Group	Hawaii	United States
Animal species	79	716
Amphibians	-	36
Arachnids	1	12
Birds	37	101
Clams	-	91
Corals	-	7
Crustaceans	3	28
Fishes	-	165
Insects	28	85
Mammals	1	93
Reptiles	4	46
Snails	5	52
Plant species	424	945
Conifers and cycads	-	4
Ferns and allies	23	38
Flowering plants	401	901
Lichens	-	2

Source: U.S. Fish & Wildlife Service, Environmental Conservation Online System (ECOS)
<<https://ecos.fws.gov/ecp/species-reports>> accessed July 8, 2018.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in Section 7, military land in Section 10, agriculture in Section 19, forests in Section 20, sugar cane land in Section 22, and foreign ownership on Section 24.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely.

Tabulations by the U.S. Department of Agriculture, U.S. General Services Administration, Hawaii State Department of Hawaiian Home Lands, Hawaii State Department of Land and Natural Resources, Hawaii State Department of Business, Economic Development & Tourism and its Land Use Commission, City and County of Honolulu Budget and Fiscal Services Department, and City and County of Honolulu Planning Research Branch provided the data for this section. *Historical Statistics of Hawaii*, Section 12, contains limited information for earlier years. National data on land use are available in Sections 6, 17, and 26 of the *Statistical Abstract of the United States: 2012*.

Table
Number **Table Name**

(Click on the table number to go to corresponding table)

Narrative

06.01	Land Ownership, Cover, or Use: 1992 to 2012
06.02	Land Use and Structural Characteristics of Oahu: 1994 and 1998
06.03	Estimated Acreage of Land Use Districts: 1969 to 2017
06.04	Estimated Acreage of Land Use Districts, by Island: 2014 to 2017
06.05	Number of Land Records, by County: 1991 to 2018
06.06	Real Property Tax Exemptions for Cemeteries, Churches, Hospitals and Schools, by County: 2017 and 2018
06.07	Major Landowners, by Island, by Type: 2017
06.08	Real Property Owned by or Leased to the Federal Government: 2010 to 2016
06.09	Department of Hawaiian Home Lands Homestead Lessees and Applicants, by Island: 2014 to 2016
06.10	State Public and Set-Aside Land Inventory, by County: January 10, 1999

Table 6.01-- LAND OWNERSHIP, COVER, OR USE: 1992 TO 2012

[In thousands of acres, unless otherwise indicated. Based on sample data and subject to sampling variation. Small differences between reported values accordingly may not be statistically significant. Margins of error are available in the source. Margins of error involving values of zero are footnoted]

Land ownership, cover, or use 1/	1992	1997	2002	2007	2012
Land ownership					
Total surface area	4,123.0	4,123.0	4,123.0	4,123.0	4,123.0
Federal land 2/	475.4	446.9	453.4	605.7	610.7
Water area	22.9	22.9	23.0	23.1	23.1
Nonfederal land	3,624.7	3,653.2	3,646.6	3,494.2	3,489.2
Developed	193.5	200.9	217.2	224.4	241.9
Rural	3,431.2	3,452.3	3,429.4	3,269.8	3,247.3
Land cover or use 3/					
Nonfederal rural land	3,431.2	3,452.3	3,429.4	3,269.8	3,247.3
Cropland	259.5	229.6	146.4	100.2	85.7
CRP land 4/	-	-	-	-	-
Pastureland	52.0	53.7	84.1	87.2	87.4
Rangeland	1,074.4	1,070.6	1,101.6	1,075.5	1,069.8
Forest land	1,583.6	1,599.4	1,595.0	1,525.8	1,526.9
Other rural land	461.7	499.0	502.3	481.1	477.5
Cropland use					
Total cropland	259.5	229.6	146.4	100.2	85.7
Cultivated Cropland	217.6	183.8	99.7	69.1	53.1
Irrigated	114.7	76.5	65.9	57.6	46.1
Nonirrigated	102.9	107.3	33.8	11.5	7.0
Noncultivated Cropland	41.9	45.8	46.7	31.1	32.6
Irrigated	25.9	26.1	24.3	5/ 9.5	5/ 10.1
Nonirrigated	5/ 16.0	19.7	5/ 22.4	5/ 21.6	5/ 22.5
Prime farmland, by cover or use 6/					
Total rural land	233.1	232.2	228.4	209.0	202.0
Cropland	155.5	135.6	82.7	65.5	55.5
CRP land 4/	-	-	-	-	-
Pastureland	30.5	30.4	44.8	40.2	47.0
Rangeland	17.7	23.2	48.1	55.2	52.7
Forest land	23.7	24.3	5/ 29.7	5/ 31.0	5/ 30.2
Other rural land	5.7	18.7	23.1	17.1	16.6

Continued on next page.

Table 6.01-- LAND OWNERSHIP, COVER, OR USE: 1992 TO 2012-- Con.

Land ownership, cover, or use 1/	1992	1997	2002	2007	2012
Sheet or rill erosion, tons per acre					
Nonfederal rural land					
Cropland	4.80	2.86	3.14	3.43	3.77
Cultivated	5.26	2.94	3.46	4.13	4.97
Noncultivated	5/ 2.45	2.53	2.45	1.86	1.81
CRP land 4/	-	-	-	-	-
Pastureland	0.76	0.56	0.71	0.75	1.18
On water areas & nonfederal land					
Total wetlands & deepwater habitats	80.6	82.7	83.7	83.7	83.6
Palustrine & estuarine wetlands	65.6	67.8	68.8	68.7	68.6
Palustrine	57.4	59.6	60.7	60.6	60.5
Estuarine	8.2	8.2	8.1	8.1	8.1
Other aquatic habitats	15.0	14.9	14.9	15.0	15.0
Lacustrine	2.1	2.0	2.0	2.1	2.1
Other 7/	12.9	12.9	12.9	12.9	12.9
Total Palustrine & estuarine wetlands	65.6	67.8	68.8	68.7	68.6
Cropland, pastureland, CRP land 4/	5/ 1.9	5/ 1.9	5/ 1.9	5/ 1.9	5/ 1.9
Rangeland	5/ 2.7	5/ 2.7	2.7	2.7	2.7
Forest land	39.9	42.0	42.0	41.9	44.5
Other rural land	12.1	12.1	13.0	13.0	10.2
Developed land	-	-	-	-	0.1
Water areas	9.0	9.1	9.2	9.2	9.2

1/ The 2012 NRI provides nationally consistent data for the 30-year period 1982–2012. This current NRI database should be used to compare 2012 conditions with those for earlier years. Comparisons using NRI data published prior to 2012 can produce incorrect inferences. Statistical estimation and quality assurance procedures employed for the NRI survey program help ensure that trends reported using NRI data reflect true changes in resource conditions.

2/ Includes ceded land; excludes leased land and submerged land.

3/ Land cover is the vegetation or other kind of material that covers the land surface. Land use is the purpose of human activity on the land; it is usually, but not always, related to land cover. The NRI uses the term land cover/use to identify categories that account for all the surface area of the United States.

4/ Conservation Reserve Program (CRP) Land under a federal program established under the Food Security Act of 1985 to assist private landowners to convert highly erodible cropland to vegetative cover for 10 years.

5/ These estimates are not reliable. The margin of error is equal to or greater than the estimate so the confidence interval includes zero.

6/ Prime farmland has the best combination of physical and chemical characteristics for producing food, feed, forage, fiber, and oilseed crops and is also available for these uses.

7/ Includes estuarine deepwater, and all Riverine and Marine systems.

Source: U.S. Department of Agriculture, Natural Resources Conservation Service, *2012 National Resources Inventory Summary Report*, Tables 1, 2, 10, 14-16, 19 and 20
<<http://www.nrcs.usda.gov/wps/portal/nrcs/main/national/technical/nra/nri/>> accessed July 20, 2016.

**Table 6.02-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU:
1994 AND 1998**

Subject	June 1994	June 1998		
	Oahu total	Oahu total	Honolulu district	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	375,146	374,870	54,125	320,745
Residential	31,110	32,110	9,913	22,197
Industrial	8,658	9,571	3,790	5,781
Commercial	4,177	4,277	1,543	2,734
Hotel	319	315	128	187
Agriculture	70,400	56,954	300	56,654
Usable vacant	38,632	48,084	2,449	45,635
Other	221,851	223,559	36,002	187,557
STRUCTURES BY YEAR BUILT 1/				
All structures	160,693	165,783	64,351	101,432
Before 1930	6,777	6,337	4,977	1,360
1930 to 1939	8,537	8,225	5,266	2,959
1940 to 1949	14,477	14,087	8,145	5,942
1950 to 1959	29,516	29,109	13,961	15,148
1960 to 1969	40,846	40,581	15,305	25,276
1970 to 1979	28,324	28,247	8,122	20,125
1980 to 1989	20,244	20,197	5,215	14,982
1990 and later	11,972	19,000	3,360	15,640
DWELLING UNITS BY TYPE 1/				
All dwelling units	280,846	291,999	153,035	138,964
Single family and duplex	148,850	153,609	58,002	95,607
Low density multi-family	20,639	23,797	1,392	22,405
High density multi-family	111,357	114,593	93,641	20,952

1/ Data exclude structures on military bases.

Source: City and County of Honolulu, Planning Information Branch, records.

**Table 6.03-- ESTIMATED ACREAGE OF LAND USE DISTRICTS:
1969 TO 2017**

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes, as amended. Data are approximate]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
UNADJUSTED 3/					
1969: August	4,111,500	140,163	2,009,087	1,955,875	6,375
1974: March	4,111,500	147,472	1,986,429	1,968,727	8,872
1978: December	4,111,500	151,929	1,976,106	1,974,230	9,235
1983: December	4,112,388	156,568	1,975,473	1,970,146	10,201
1984: December	4,112,388	158,620	1,969,351	1,974,236	10,181
1985: December	4,112,388	163,211	1,968,804	1,970,189	10,184
1986: December	4,112,388	165,165	1,967,638	1,969,401	10,184
1987: December	4,112,388	166,507	1,967,168	1,968,524	10,189
ADJUSTED 3/					
1987: December	4,112,388	165,607	1,967,247	1,969,345	10,189
1988: December	4,112,388	171,230	1,967,194	1,963,766	10,198
1989: December	4,112,388	175,285	1,960,976	1,965,935	10,192
1990: December	4,112,388	178,114	1,960,608	1,963,491	10,175
1991: December	4,112,388	181,407	1,959,621	1,961,294	10,066
1992: December	4,112,388	180,912	1,960,615	1,960,795	10,066
1993: December	4,112,388	187,697	1,958,897	1,955,704	10,090
1994: December	4,112,388	189,418	1,974,549	1,938,505	9,916
1995: December	4,112,388	190,257	1,976,016	1,936,197	9,918
1996: December	4,112,388	191,941	1,974,994	1,935,526	9,927
1997: December	4,112,388	192,158	1,974,994	1,935,305	9,931
1998: December	4,112,388	193,001	1,974,994	1,934,423	9,970
1999: December	4,112,388	194,592	1,974,994	1,932,792	10,010
2000: December	4,112,388	193,308	1,976,004	1,933,066	10,010
2001: December	4,112,388	194,556	1,974,106	1,933,687	10,039
2002: December	4,112,388	195,495	1,973,973	1,932,862	10,058
2003: December	4,112,388	196,215	1,973,636	1,932,429	10,108
2004: December	4,112,388	196,991	1,973,636	1,931,378	10,383
2005: December 4/	4,112,388	197,085	1,973,636	1,930,797	10,870
2006: December 4/	4,112,388	197,663	1,973,631	1,930,224	10,870
2007: December 4/	4,112,388	198,141	1,973,631	1,929,746	10,870
2008: December 4/	4,112,388	198,296	1,973,631	1,928,860	11,602
2009: December 4/	4,112,388	198,492	1,973,631	1,928,663	11,602
2010: December 4/	4,112,388	198,549	1,973,846	1,928,391	11,602
2011: December 4/	4,112,388	198,622	1,973,846	1,928,318	11,602
2012: December 4/	4,112,388	199,970	1,973,846	1,926,971	11,602
2013: December 4/	4,112,388	200,434	1,973,846	1,926,507	11,602
2014: December 4/	4,112,388	200,439	1,973,846	1,926,502	11,602
2015: December 4/	4,112,388	200,439	1,973,846	1,926,502	11,602
2016: December 4/	4,112,388	200,439	1,973,846	1,926,502	11,602
2017: December 4/	4,112,388	200,700	1,973,846	1,926,240	11,602

Continued on next page.

**Table 6.03-- ESTIMATED ACREAGE OF LAND USE DISTRICTS:
1969 TO 2017 -- Con.**

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5. The increase in the 1983 total area reflects additions to the Urban District on Oahu at Honolulu International Airport (Reef runway and South Ramp refill) created from former submerged lands.

2/ For definitions, see Hawaii Revised Statutes, Section 205-2.

3/ For changes in classification resulting from court decisions on past Commission actions.

4/ May be revised, pending updates of county records.

Source: Hawaii State Department of Business, Economic Development & Tourism, Land Use Commission, records.

**Table 6.04-- ESTIMATED ACREAGE OF LAND USE DISTRICTS,
BY ISLAND: 2014 TO 2017**

[As of December 31. Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes, as amended. All data are approximate. Details may not add exactly to the totals shown because of rounding. There had been no reclassifications in 2015 and 2016]

Island	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
2014 to 2016					
State total	4,112,388	200,439	1,973,846	1,926,502	11,602
Hawaii 3/	2,573,400	54,145	1,304,347	1,212,886	2,023
Maui	465,800	24,191	194,836	242,720	4,053
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,330	38,197	46,566	2,407
Molokai	165,800	2,539	49,768	111,627	1,866
Oahu	386,188	101,661	156,829	127,698	-
Kauai 4/	353,900	14,573	198,769	139,305	1,253
Niihau 4/	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands 5/	1,900	-	1,900	-	-
2017					
State total	4,112,388	200,700	1,973,846	1,926,240	11,602
Hawaii 3/	2,573,400	54,145	1,304,347	1,212,886	2,023
Maui	465,800	24,191	194,836	242,720	4,053
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,330	38,197	46,566	2,407
Molokai	165,800	2,539	49,768	111,627	1,866
Oahu	386,188	101,661	156,829	127,698	-
Kauai 4/	353,900	14,834	198,769	139,044	1,253
Niihau 4/	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands 5/	1,900	-	1,900	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5.

2/ For definitions, see Hawaii Revised Statutes, Section 205-2.

3/ County records update indicated 5 acres changed from Agricultural to Urban.

4/ May be revised, pending updates of County records.

5/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Business, Economic Development & Tourism, Land Use Commission, records.

Table 6.05-- NUMBER OF LAND RECORDS, BY COUNTY: 1991 TO 2018

[For fiscal year ending June 30. Beginning with 1993 report, does not include non-taxable properties]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1991	426,392	224,880	51,585	125,779	24,148
1992	433,618	228,025	52,997	127,379	25,217
1993	441,747	233,464	54,039	128,337	25,907
1994	449,744	237,815	55,994	129,434	26,501
1995	456,003	242,285	56,726	129,856	27,136
1996	463,137	246,933	57,665	130,623	27,916
1997	471,212	251,731	58,624	131,981	28,876
1998	475,122	253,886	59,505	132,605	29,126
1999	478,737	255,589	60,490	133,322	29,336
2000	483,879	258,121	61,897	134,308	29,553
2001	487,646	259,456	62,873	135,499	29,818
2002	(NA)	260,662	(NA)	(NA)	30,097
2003	474,660	252,435	60,472	133,321	28,432
2004	478,628	255,029	60,537	134,290	28,772
2005	482,645	258,415	61,273	134,021	28,936
2006	489,308	262,479	62,521	134,885	29,423
2007	500,481	268,441	64,597	136,612	30,831
2008	507,900	271,859	65,938	138,281	31,822
2009	514,029	274,483	67,981	139,167	32,398
2010	518,031	276,582	68,930	139,649	32,870
2011	520,822	277,581	70,365	139,883	32,993
2012	523,957	278,825	71,101	140,008	34,023
2013	525,356	279,754	71,234	140,196	34,172
2014	527,359	281,463	71,515	140,257	34,124
2015	530,705	285,092	71,907	140,336	33,370
2016	533,067	287,115	71,992	140,753	33,207
2017	536,346	289,564	72,421	140,858	33,503
2018	540,426	291,069	73,418	140,370	35,569

NA Not available.

Source: City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemption By Year, "Number of Records by Land Use Class for Fiscal Year 2017 - 2018" <<https://www.realpropertyhonolulu.com/rpa-report/>> accessed October 16, 2017; and earlier reports, and reports as the Department of Finance.

Table 6.06-- REAL PROPERTY TAX EXEMPTIONS FOR CEMETERIES, CHURCHES, HOSPITALS AND SCHOOLS, BY COUNTY: 2017 AND 2018

[For fiscal year ending June 30]

Category	Cemeteries	Churches	Hospitals	Schools
2017				
Number				
State total	111	1,559	133	239
Honolulu	43	867	113	150
Maui	8	250	11	18
Hawaii	47	305	4	65
Kauai	13	137	5	6
Amount (\$1,000)				
State total	58,607	2,730,925	954,642	1,413,273
Honolulu	44,022	2,105,318	871,146	1,122,590
Maui	1,515	343,715	44,514	151,775
Hawaii	5,902	173,795	23,029	89,227
Kauai	7,168	108,097	15,953	49,681
2018				
Number				
State total	110	1,570	136	234
Honolulu	43	877	116	144
Maui	8	249	11	19
Hawaii	46	306	4	65
Kauai	13	138	5	6
Amount (\$1,000)				
State total	61,994	2,841,794	1,006,414	1,456,197
Honolulu	46,945	2,199,003	924,076	1,159,117
Maui	1,687	344,897	42,032	158,289
Hawaii	6,194	181,998	24,033	89,161
Kauai	7,168	115,896	16,273	49,630

Source: City and County of Honolulu, Department of Budget and Fiscal Services, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions By Year, "Number and Amount of Exemption by Type and County for Fiscal Year" (annual) <<https://www.realpropertyhonolulu.com/rpa-report/>> accessed October 16, 2017.

Table 6.07-- MAJOR LANDOWNERS, BY ISLAND, BY TYPE: 2017

[In acres. As of March 2017 for Honolulu County, April 2017 for Hawaii County and Maui County, and August 2017 for Kauai County. Acreages are based on GIS calculations where all public lands (no minimum) and private landowners with a minimum of 1,000 acres total statewide are included]

Rank	Landowner	Total acres	Hawaii	Kahoolawe	Kauai	Lanai	Maui	Molokai	Niihau	Oahu
1	Gov't State total	1,574,530.8	1,092,502.5	28,537.5	155,770.0	592.3	154,150.9	49,052.8	127.1	93,797.7
	Gov't. - State (excludes DHHL)	1,375,634.9	975,196.4	28,537.5	135,915.8	542.0	122,208.7	23,947.0	127.1	89,160.3
	Gov't. - State Dept. of Hawaiian Home Lands (DHHL)	198,896.0	117,306.1	-	19,854.2	50.3	31,942.2	25,105.7	-	4,637.4
2	Gov't. Federal	531,444.0	432,339.3	23.7	3,443.4	7.2	33,660.3	175.3	271.7	61,523.1
3	Kamehameha Schools	363,244.5	297,008.6	-	10,876.6	-	2,615.5	4,937.3	-	47,806.5
4	Parker Ranch	105,995.6	105,995.6	-	-	-	-	-	-	-
5	Robinson Family	101,287.7	-	-	55,244.9	-	-	-	46,042.8	-
6	Pulama Lanai	89,075.1	-	-	-	89,075.1	-	-	-	-
7	Alexander & Baldwin	86,514.4	9.6	-	21,015.6	-	65,451.3	-	-	37.8
8	Molokai Ranch	53,797.5	-	-	-	-	-	53,797.5	-	-
9	Gov't. County total	38,127.7	9,846.7	-	975.9	209.6	8,158.7	264.4	-	18,672.4
	Gov't. County of Honolulu	18,672.4	-	-	-	-	-	-	-	18,672.4
	Gov't. County of Hawaii	9,846.7	9,846.7	-	-	-	-	-	-	-
	Gov't. County of Maui 1/	8,632.7	-	-	-	209.6	8,158.7	264.4	-	-
	Gov't. County of Kauai	975.9	-	-	975.9	-	-	-	-	-
10	Grove Farm	30,837.2	-	-	30,837.2	-	-	-	-	-
11	Haleakala Ranch	29,167.3	-	-	-	-	29,167.3	-	-	-
12	Maui Land & Pine	22,354.9	-	-	-	-	22,354.9	-	-	-
13	Yee Hop	21,636.4	21,636.4	-	-	-	-	-	-	-
14	Dole Food Company	19,782.9	-	-	-	-	-	-	-	19,782.9
15	Ulupalakua Ranch	18,372.2	-	-	-	-	18,372.2	-	-	-
16	W.H. Shipman	16,798.9	16,798.9	-	-	-	-	-	-	-
17	Kahuku Aina Properties	16,423.1	16,423.1	-	-	-	-	-	-	-
18	McCandless Ranch	15,365.4	14,922.1	-	-	-	-	-	-	443.3
19	E.C. Olson	13,744.2	12,471.9	-	-	-	-	-	-	1,272.2
20	The Nature Conservancy	13,357.6	11,956.9	-	-	-	7.9	1,392.8	-	-

1/ Maui County includes the islands of Maui, Molokai, Lanai, and Kahoolawe; and Kauai County includes Kauai and Niihau.

Source: Hawaii State Department of Business, Economic Development & Tourism, Office of Planning, GIS Program, Large Landowners, 2. Tables (September 29, 2017) <http://files.hawaii.gov/dbedt/op/gis/data/large_landowners_tables_2017.xls> accessed October 3, 2017.

Table 6.08-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 2010 TO 2016

[As of September 30. On February 4, 2004, President George W. Bush issued Executive Order 13327, which redefined federal real property to exclude, among other classifications, the national parks, and created a Federal Real Property Council to oversee federal real property assets, and also stipulated which agencies are required to report their real property data]

Subject	2010	2011	2012	2013	2014	2015	2016 1/
Building area (1,000 sq. ft.)	50,600	49,749	49,590	47,342	47,653	48,919	48,183
Owned	49,000	48,879	48,754	46,337	46,723	47,188	45,757
Leased	800	870	836	1,005	930	1,731	1,291
Otherwise managed 2/	800	(NA)	(NA)	(NA)	(NA)	(NA)	1,135
Federal Gov't land acreage	235,300	234,900	234,598	234,675	241,106	429,370	77,383
Owned	178,700	180,900	180,780	180,679	186,974	325,459	48,207
Leased	54,200	54,000	53,858	53,997	54,132	103,911	21,999
Otherwise managed 2/	2,400	(NA)	(NA)	(NA)	(NA)	(NA)	7,177
Operating cost (\$1,000)	(NA)	(NA)	878,014	877,975	(NA)	(NA)	(NA)
Building	(NA)	(NA)	530,886	523,427	(NA)	(NA)	(NA)
Land	(NA)	(NA)	766	1,461	(NA)	(NA)	(NA)
Structure	(NA)	(NA)	346,363	353,087	(NA)	(NA)	(NA)

NA Not available.

1/ Response to inquiry re: significant decline in 'Federal Gov't land acreage' awaited from GSA.

2/ Indicates that a U.S. state government holds title to the real property asset, but rights for use have been granted to a Federal Government entity in a method other than a leasehold arrangement.

Source: U.S. General Services Administration, Federal Real Property Council, Federal Real Property Profile, Summary Report (annual FY09 to FY12), FY09 Federal Real Property Statistics, FY 2013 Summary Data Set, FY 2014 Real Property Open Data Set, FY 2014 Summary Data Set, and Summary of Findings and Open Data Set (annual FY15 and FY16) <<http://www.gsa.gov/portal/content/102880>> accessed July 27, 2017.

**Table 6.09-- DEPARTMENT OF HAWAIIAN HOME LANDS
HOMESTEAD LESSEES AND APPLICANTS, BY ISLAND: 2014 TO 2016**

[As of June 30. The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who are eligible to receive homestead leases and financial assistance from the Department]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
2014							
Homestead leases 1/	9,838	2,518	1,416	29	844	4,284	747
Residential	8,329	1,707	1,276	29	394	4,223	700
Agricultural	1,101	506	65	-	423	61	46
Pastoral	408	305	75	-	27	-	1
Applications 1/	43,795	14,686	8,838	72	2,013	14,055	4,131
Residential	22,335	5,718	3,686	72	763	10,480	1,616
Agricultural	18,437	7,039	4,562	-	1,055	3,575	2,206
Pastoral	3,023	1,929	590	-	195	-	309
2015							
Applications 1/	44,217	14,806	8,904	75	2,018	14,257	4,157
Residential	22,576	5,766	3,714	75	765	10,626	1,630
Agricultural	18,578	7,089	4,591	-	1,056	3,631	2,211
Pastoral	3,063	1,951	599	-	197	-	316
2016							
Applications 1/	44,429	14,770	8,973	76	2,043	14,380	4,187
Residential	22,660	5,729	3,750	76	771	10,690	1,644
Agricultural	18,694	7,089	4,614	-	1,075	3,690	2,226
Pastoral	3,075	1,952	609	-	197	-	317

1/ Homestead lease activity for the month ending June 30. Residence, agriculture, or pasture. Since applicants may apply for two types of leases, duplications occur. For example, the Department estimates that as of June 30, 2014, 43,795 Statewide applications are held by some 27,341 applicants. Data are subject to audit.

Source: Hawaii State Department of Hawaiian Home Lands, *Annual Report* (annual)

<<http://dttl.hawaii.gov/acro/annual-reports/>> accessed June 20, 2015 and forthcoming revision;

"As of June 30, 2015: Application Wait List Alpha A-K and Application Wait List Alpha L-Z"

<<http://dttl.hawaii.gov/applications/application-wait-list/>> accessed July 17, 2016; and

"As of June 30, 2016: Application Wait List Alpha A-K and Application Wait List Alpha L-Z"

<<http://dttl.hawaii.gov/applications/application-wait-list/>> accessed June 14, 2017.

**Table 6.10-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY,
BY COUNTY: JANUARY 10, 1999**

[In thousands of acres]

Type of document	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Public lands	397.9	19.5	296.9	38.0	43.5
General lease 1/ 2/	224.7	4.7	184.6	22.9	12.5
Revocable permit 1/ 3/	41.5	1.3	23.2	4.4	12.6
Unencumbered lands 4/	131.7	13.5	89.1	10.7	18.4
Lands set aside to other government agencies	758.0	42.9	525.1	96.6	93.4
Executive order 1/	255.9	13.7	199.9	23.9	18.4
Governor's proclamation	502.1	29.2	325.2	72.7	75.0

1/ Acreage may include overlapping encumbrances.

2/ Long-term leases. Mostly agricultural and pasture land. Includes land covered by water licenses not set aside to other government agencies.

3/ Month-to-month leases. Mostly agricultural and pasture land. Includes land licenses.

4/ Parcels with no documents and not in use.

Source: Hawaii State Department of Land and Natural Resources, Land Management Division, records.

Section 7

RECREATION AND TRAVEL

Statistics on tourism, recreation, sports, museums, parks, pets, and the performing arts appear in this section. Additional information on recreational and resort land use is given in Section 6; on transportation, in Section 18; and on hotels and hotel workers, in Sections 12, 13, 15 and 23.

Information on recreation and tourism is issued periodically by the Hawaii Tourism Authority's Tourism Research (particularly in its annual research reports), the Hawaii State Department of Business, Economic Development and Tourism's Research and Economic Analysis Division, the State Parks Division of the Hawaii State Department of Land and Natural Resources, U.S. National Park Service, County park and recreation departments, and other organizations. Long-term trends are summarized in *Historical Statistics of Hawaii*, Section 11. National statistics are given in Section 26 of the *Statistical Abstract of the United States: 2012*.

Table
Number **Table Name**

(Click on the table number to go to corresponding table)

Narrative

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Table 7.01-- PASSENGERS ARRIVING, BY POINT OF ORIGIN AND TRANSIT STATUS: 2007 TO 2016

[Domestic includes passengers from all flights originating from the mainland United States.
International includes passengers from all flights originating from U.S. territories
and other countries]

Point of origin and status	2007	2008	2009	2010	2011
All directions	9,011,455	8,034,872	7,718,206	8,258,740	8,556,041
Landing	8,910,672	8,021,780	7,709,202	8,255,465	8,510,128
Intransit	100,783	13,092	9,004	3,275	45,913
Domestic	6,810,847	6,009,005	5,751,759	6,086,335	6,278,333
Landing	6,791,906	6,005,133	5,748,379	6,083,060	6,258,790
Intransit	18,941	3,872	3,380	3,275	19,543
International	2,200,608	2,025,867	1,966,447	2,172,405	2,277,708
Landing	2,118,766	2,016,647	1,960,823	2,172,405	2,251,338
Intransit	81,842	9,220	5,624	-	26,370
Point of origin and status	2012	2013	2014	2015	2016
All directions	9,232,172	9,513,611	9,691,996	10,132,074	10,462,968
Landing	9,216,594	9,283,117	9,458,694	9,901,349	10,222,915
Intransit	15,578	230,494	233,302	230,725	240,053
Domestic	6,551,222	6,631,539	6,747,786	7,111,843	7,333,569
Landing	6,551,222	6,527,077	6,647,828	7,010,549	7,221,908
Intransit	-	104,462	99,958	101,294	111,661
International	2,680,950	2,882,072	2,944,210	3,020,231	3,129,399
Landing	2,665,372	2,756,040	2,810,866	2,890,800	3,001,007
Intransit	15,578	126,032	133,344	129,431	128,392

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

**Table 7.02-- PASSENGER STATUS OF PARTIES AND PASSENGERS
ARRIVING IN HAWAII, BY POINT OF ORIGIN: 2014 TO 2016**

[Domestic includes passengers from all flights originating from the mainland United States.
International includes passengers from all flights originating from U.S. territories
and other countries]

Year and point of origin	All types	Visitors to Hawaii	Returning residents	Intended residents
PARTIES 1/				
2014, total	(NA)	3,790,398	512,941	(NA)
Domestic	3,182,192	2,683,930	478,040	20,222
International	(NA)	1,106,469	34,901	(NA)
2015, total	(NA)	3,980,657	548,138	(NA)
Domestic	3,329,390	2,923,707	508,849	20,710
International	(NA)	1,107,094	39,289	(NA)
2016, total	(NA)	4,001,050	586,642	(NA)
Domestic	3,401,433	2,866,483	514,930	20,019
International	(NA)	1,128,290	71,712	(NA)
PASSENGERS 2/				
2014, total	9,691,996	8,196,342	1,220,813	(NA)
Domestic	6,747,786	5,486,059	1,120,230	41,539
International	2,944,210	2,710,283	100,583	(NA)
2015, total	10,132,074	8,563,018	1,294,904	(NA)
Domestic	7,111,843	5,782,140	1,184,982	43,428
International	3,020,231	2,780,878	109,922	(NA)
2016, total	10,462,968	8,821,802	1,358,083	(NA)
Domestic	7,333,569	5,968,779	1,210,099	43,030
International	3,129,399	2,853,023	147,984	(NA)

NA Not available.

1/ Not surveyed for intransit passengers.

2/ Since passenger totals include intransit passengers and intransit passengers are not surveyed, total passengers may not equal to the sum of the components.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

**Table 7.03-- VISITOR ARRIVALS AND AVERAGE DAILY VISITOR CENSUS:
1966 TO 2016**

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States. International includes passengers from all flights originating from U.S. territories and other countries]

Year	Visitors staying overnight or longer			Average number of visitors present per day		
	Total	Domestic	International	Total	Domestic	International
1966	834,732	629,564	205,168	20,900	19,271	1,629
1967	1,124,012	828,849	295,163	27,610	24,898	2,712
1968	1,313,706	952,821	360,885	32,314	28,784	3,530
1969	1,526,074	1,121,714	404,360	37,175	33,088	4,087
1970	1,745,904	1,273,639	472,265	36,920	32,028	4,892
1971	1,817,941	1,363,081	454,860	40,866	36,504	4,362
1972	2,233,627	1,682,285	551,342	49,987	45,098	4,889
1973	2,622,376	1,942,714	679,662	59,450	53,407	6,043
1974	2,804,394	2,036,203	768,191	63,772	56,939	6,833
1975	2,818,082	2,028,068	790,014	66,146	59,495	6,651
1976	3,213,249	2,327,399	885,850	75,426	68,225	7,201
1977	3,413,095	2,508,472	904,623	82,737	75,684	7,053
1978	3,676,967	2,766,012	910,955	92,114	85,028	7,086
1979	3,966,192	2,888,521	1,077,671	98,745	89,678	9,067
1980	3,928,789	2,793,101	1,135,688	96,406	86,788	9,618
1981	3,928,906	2,778,566	1,150,340	95,874	85,449	10,425
1982	4,227,733	3,072,543	1,155,189	105,075	94,740	10,335
1983	4,356,317	3,219,219	1,137,098	107,860	97,390	10,470
1984	4,827,884	3,499,419	1,328,466	118,252	106,260	11,992
1985	4,843,414	3,522,126	1,321,288	116,107	103,820	12,287
1986	5,569,067	4,063,928	1,505,138	132,355	118,110	14,245
1987	5,770,585	4,040,204	1,730,381	133,835	116,780	17,055
1988	6,101,483	4,041,878	2,059,605	140,798	115,760	25,038
1989	6,488,422	4,339,507	2,148,915	165,058	135,480	29,578
1990	6,723,531	4,315,161	2,408,370	154,516	113,066	41,450
1991	6,518,460	4,068,508	2,449,952	147,323	105,686	41,637
1992	6,473,669	3,791,945	2,681,724	152,249	106,589	45,660
1993	6,070,995	3,570,059	2,500,936	147,498	100,430	47,068
1994	6,364,674	3,813,279	2,551,395	156,630	107,904	48,726
1995	6,546,759	3,743,474	2,803,285	157,098	105,649	51,450

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**Table 7.03-- VISITOR ARRIVALS AND AVERAGE DAILY VISITOR CENSUS:
1966 TO 2016 -- Con.**

Year	Visitors staying overnight or longer			Average number of visitors present per day		
	Total	Domestic	International	Total	Domestic	International
1996	6,723,141	3,794,113	2,929,028	158,297	106,404	51,892
1997	6,761,135	3,890,798	2,870,337	157,187	108,019	49,168
1998	6,595,790	4,014,140	2,581,650	157,388	112,068	45,320
1999	6,741,037	4,255,621	2,485,416	164,439	117,998	46,441
2000	6,948,595	4,446,936	2,501,659	168,637	123,441	45,196
2001	6,303,791	4,224,321	2,079,470	158,247	118,106	40,141
2002	6,389,058	4,358,850	2,030,208	160,195	121,030	39,165
2003	6,380,439	4,531,289	1,849,150	161,048	123,389	37,659
2004	6,912,094	4,892,960	2,019,134	171,481	132,355	39,126
2005	7,416,574	5,313,281	2,103,293	185,445	144,396	41,049
2006	7,528,106	5,550,125	1,977,981	189,441	149,545	39,895
2007	7,496,820	5,582,530	1,914,290	189,412	150,960	38,452
2008	6,713,436	4,901,893	1,811,543	172,487	135,239	37,248
2009	6,420,448	4,672,001	1,748,447	165,082	129,100	35,983
2010	6,916,894	4,957,352	1,959,542	177,949	136,407	41,542
2011	7,174,397	5,127,291	2,047,106	185,824	142,027	43,797
2012	7,867,143	5,403,025	2,464,118	201,267	148,887	52,380
2013	8,003,474	5,405,300	2,598,174	202,876	149,213	53,663
2014	8,196,342	5,486,059	2,710,283	206,217	151,076	55,141
2015	8,563,018	5,782,140	2,780,878	213,934	156,026	57,908
2016	8,821,802	5,968,779	2,853,023	217,675	157,953	59,723

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

**Table 7.04-- OVERNIGHT AND LONGER VISITORS TO HAWAII:
2015 AND 2016**

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States. International includes passengers from all flights originating from U.S. territories and other countries]

Resides in Major Market Areas (MMA) 1/	2015			2016		
	Total	Domestic	Inter-national	Total	Domestic	Inter-national
All visitors	8,563,018	5,782,140	2,780,878	8,821,802	5,968,779	2,853,023
US West MMA 2/	3,507,652	3,410,437	97,215	3,664,150	3,577,224	86,926
US East MMA 3/	1,803,670	1,706,781	96,889	1,892,768	1,797,746	95,022
Japan MMA	1,482,304	9,618	1,472,686	1,487,979	8,431	1,479,548
Canada MMA	512,323	163,277	349,046	469,314	119,621	349,693
Other Asia MMA 4/	393,833	66,211	327,622	448,414	56,519	391,895
China	173,520	50,682	122,838	164,326	42,823	121,503
Hong Kong	4,437	2,681	1,756	4,511	2,619	1,892
Korea	193,658	9,447	184,211	257,189	8,063	249,126
Singapore	4,693	1,518	3,175	4,280	1,292	2,988
Taiwan	17,525	1,883	15,642	18,107	1,721	16,386
Oceania MMA 5/	399,619	73,638	325,981	390,364	63,361	327,003
Australia	335,842	61,491	274,351	325,600	53,080	272,520
New Zealand	63,777	12,147	51,630	64,764	10,281	54,483
Europe MMA 6/	145,019	116,098	28,921	143,922	111,897	32,025
United Kingdom	51,073	41,495	9,578	53,165	40,723	12,442
France	21,620	12,689	8,931	21,014	11,724	9,290
Germany	43,788	37,623	6,165	41,420	34,772	6,648
Italy	11,448	9,859	1,589	11,068	9,496	1,572
Switzerland	17,089	14,431	2,658	17,255	15,182	2,073
Latin America MMA 7/	27,978	25,980	1,998	26,075	24,396	1,679
Argentina	5,042	4,717	325	6,328	6,101	227
Brazil	12,959	12,122	837	10,194	9,478	716
Mexico	9,977	9,141	836	9,554	8,818	736
Other MMA 8/	290,621	210,101	80,520	298,817	209,585	89,232

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**Table 7.04-- OVERNIGHT AND LONGER VISITORS TO HAWAII:
2015 AND 2016 -- Con.**

- 1/ MMA's are geographical areas defined by the Hawaii Tourism Authority for marketing purposes.
- 2/ Pacific and Mountain States of the United States.
- 3/ All other States in the continental United States not included in U.S. West.
- 4/ Includes China, Hong Kong, Korea (South), Singapore, and Taiwan.
- 5/ Includes Australia and New Zealand.
- 6/ Includes United Kingdom, Germany, France, Italy, and Switzerland.
- 7/ Includes Argentina, Brazil, and Mexico.
- 8/ Includes all countries and districts not listed in other MMAs, including Guam, Puerto Rico, U.S. Virgin Islands, and other U.S. territories.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

Table 7.05-- VISITOR DAYS, BY POINT OF ORIGIN: 1993 TO 2016

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States. International includes passengers from all flights originating from U.S. territories and other countries]

Year	Total	Domestic	International
1993	53,836,611	36,656,820	17,179,791
1994	57,169,825	39,384,934	17,784,891
1995	57,340,911	38,561,739	18,779,172
1996	57,936,622	38,944,059	18,992,563
1997	57,373,493	39,427,198	17,946,295
1998	57,446,913	40,904,938	16,541,975
1999	60,020,237	43,069,177	16,951,060
2000	61,721,150	45,179,587	16,541,563
2001	57,760,242	43,108,798	14,651,444
2002	58,471,088	44,175,694	14,295,394
2003	58,782,699	45,036,982	13,745,717
2004	62,761,989	48,441,764	14,320,225
2005	67,687,479	52,704,668	14,982,811
2006	69,145,854	54,584,048	14,561,806
2007	69,135,310	55,100,441	14,034,869
2008	63,130,133	49,497,350	13,632,783
2009	60,255,061	47,121,337	13,133,724
2010	64,951,433	49,788,583	15,162,850
2011	67,825,871	51,839,799	15,986,073
2012	73,663,903	54,492,680	19,171,224
2013	74,049,772	54,462,717	19,587,054
2014	75,269,197	55,142,678	20,126,519
2015	78,086,081	56,949,633	21,136,447
2016	79,669,135	57,810,695	21,858,441

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

**Table 7.06-- AVERAGE DAILY VISITOR CENSUS, BY COUNTY AND ISLAND:
2015 AND 2016**

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States. International includes passengers from all flights originating from U.S. territories and other countries]

County or island	2015			2016		
	Total	Domestic	Inter-national	Total	Domestic	Inter-national
State total	213,934	156,026	57,908	217,675	157,953	59,723
Oahu	99,782	57,638	42,144	101,006	57,552	43,454
Hawaii	31,408	26,794	4,614	31,845	27,082	4,763
Kauai	24,533	22,419	2,114	24,842	22,755	2,088
Maui County	58,211	49,174	9,037	59,982	50,564	9,418
Maui	56,981	48,089	8,893	58,599	49,365	9,234
Molokai	784	699	84	779	667	112
Lanai	446	386	60	604	533	71

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

Table 7.07-- VISITOR ARRIVALS, DOMESTIC AND INTERNATIONAL, BY AREA VISITED: 2015 AND 2016

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States. International includes passengers from all flights originating from U.S. territories and other countries]

Area visited	2015			2016		
	Total	Domestic	Inter-national	Total	Domestic	Inter-national
State total 1/	8,563,018	5,782,140	2,780,878	8,821,802	5,968,779	2,853,023
Oahu	5,339,912	2,868,749	2,471,163	5,447,229	2,913,562	2,533,667
Kauai	1,173,752	1,028,294	145,458	1,187,269	1,050,577	136,691
Maui County 1/	2,579,311	2,115,934	463,377	2,678,089	2,207,858	470,232
Maui	2,540,162	2,083,999	456,163	2,634,237	2,171,914	462,323
Molokai	64,767	49,843	14,924	58,932	44,203	14,728
Lanai	58,390	44,334	14,057	63,024	49,299	13,725
Hawaii County 1/	1,514,973	1,154,201	360,772	1,549,943	1,187,740	362,203
Hilo	551,764	389,408	162,356	550,524	396,360	154,164
Kona	1,288,021	1,003,389	284,632	1,325,981	1,035,424	290,558
One island only	7,008,566	4,743,052	2,265,514	7,245,100	4,910,626	2,334,475
Oahu only	4,038,993	2,061,135	1,977,858	4,139,493	2,098,751	2,040,743

1/ Because many visitors planned to visit more than one area, detail sums to more than the totals and subtotals shown here.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

Table 7.08-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS, BY POINT OF ORIGIN: 2015 AND 2016

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States. International includes passengers from all flights originating from U.S. territories and other countries]

Subject	Total	Domestic	International
2015			
Residence (percent)			
United States	62.0	88.5	7.0
Pacific and Mountain States	41.0	59.0	3.5
California	23.8	34.4	1.9
Average age	45.3	46.5	43.0
Average party size	2.15	1.98	2.51
Average number of trips to Hawaii	5.07	5.81	3.52
Repeat visitors (percent)	65.6	71.1	54.1
Pleasure trip (percent)	83.1	82.4	84.8
In hotel only (percent)	54.4	45.5	72.8
One island only (percent)	81.8	82.0	81.5
2016			
Residence (percent)			
United States	63.0	90.1	6.4
Pacific and Mountain States	41.5	59.9	3.0
California	24.2	35.1	1.3
Average age	45.2	46.3	43.3
Average party size	2.20	2.08	2.53
Average number of trips to Hawaii	5.06	5.80	3.50
Repeat visitors (percent)	65.5	71.0	54.0
Pleasure trip (percent)	83.2	82.3	84.9
In hotel only (percent)	54.4	45.9	72.2
One island only (percent)	82.1	82.3	81.8

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

**Table 7.09-- DOMESTIC VISITORS, BY STATE AND REGION:
2015 AND 2016**

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States]

Residence	2015	2016
United States	5,117,218	5,374,969
Pacific	2,769,433	2,910,610
Alaska	79,812	81,644
California	1,987,085	2,095,908
Oregon	212,730	223,210
Washington	489,806	509,849
Mountain	641,004	666,614
Arizona	166,966	175,945
Colorado	148,652	154,498
Idaho	46,744	49,040
Montana	25,633	26,037
Nevada	95,280	99,633
New Mexico	25,200	25,700
Utah	122,793	126,416
Wyoming	9,734	9,344
West North Central	203,733	213,548
Iowa	25,489	25,266
Kansas	24,891	25,007
Minnesota	75,412	81,029
Missouri	44,378	46,433
Nebraska	17,375	19,122
North Dakota	8,149	8,041
South Dakota	8,040	8,650
West South Central	314,922	323,807
Arkansas	13,168	14,120
Louisiana	18,876	18,227
Oklahoma	26,847	27,554
Texas	256,030	263,905
East North Central	349,602	366,129
Illinois	133,442	136,783
Indiana	39,851	41,097
Michigan	64,979	67,845
Ohio	65,863	69,642
Wisconsin	45,467	50,762

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**Table 7.09-- DOMESTIC VISITORS, BY STATE AND REGION:
2015 AND 2016 -- Con.**

Residence	2015	2016
East South Central	78,607	84,941
Alabama	18,419	21,021
Kentucky	18,519	19,431
Mississippi	8,177	8,433
Tennessee	33,492	36,055
New England	106,903	115,114
Connecticut	24,539	26,756
Maine	7,605	8,123
Massachusetts	53,975	58,487
New Hampshire	9,543	10,142
Rhode Island	6,057	6,361
Vermont	5,185	5,245
Middle Atlantic	266,373	281,153
New Jersey	70,002	72,318
New York	126,932	137,307
Pennsylvania	69,438	71,528
South Atlantic	386,641	413,054
Delaware	5,670	5,269
Washington, D.C.	9,871	10,571
Florida	107,362	114,345
Georgia	59,702	65,628
Maryland	48,906	50,995
North Carolina	48,519	52,078
South Carolina	20,931	22,743
Virginia	80,040	85,562
West Virginia	5,640	5,863

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

Table 7.10-- TRIP CHARACTERISTICS OF VISITORS, BY POINT OF ORIGIN: 2015 AND 2016

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States. International includes passengers from all flights originating from U.S. territories and other countries]

Subject	Domestic		International	
	2015	2016	2015	2016
All visitors 1/	5,782,140	5,968,779	2,780,878	2,853,023
Purpose of visit 1/				
Pleasure (net)	4,762,556	4,914,524	2,357,505	2,423,536
Vacation	4,541,287	4,689,088	1,994,776	2,050,012
Honeymoon	228,711	228,554	359,525	371,186
Wedding	55,991	53,484	53,930	49,892
Meetings, conventions, incentive 1/	322,721	305,460	176,050	179,734
Convention/conference	198,049	182,861	65,507	48,332
Corporate meeting	71,360	72,414	10,404	8,138
Incentive	67,181	63,072	103,907	125,675
Other business	239,163	237,903	17,934	18,017
Visit friends or relatives	638,926	637,769	78,485	84,912
Government or military	78,121	80,886	12,392	13,219
Attend school	16,451	13,842	11,186	14,249
Sport event	57,937	65,021	32,540	24,723
Traveler method				
Group tour	191,485	192,172	473,533	433,289
Package	1,189,600	1,201,825	1,486,756	1,457,948
True independent	4,529,639	4,702,415	1,222,802	1,310,177
Accommodations				
Hotel	3,138,003	3,258,527	2,184,567	2,244,420
Hotel only	2,633,121	2,742,043	2,023,344	2,061,302
Condo	1,102,907	1,108,225	402,861	411,937
Condo only	871,308	876,142	308,805	305,435
Timeshare	662,035	650,132	145,909	148,371
Timeshare only	515,224	506,232	111,132	115,584
Rental house	548,826	586,710	87,020	92,774
Hostel	42,955	43,991	20,792	18,275
Camp Site	42,247	41,079	10,163	9,560
Bed & breakfast	72,821	71,697	22,988	21,653
Cruise ship	112,068	100,478	25,997	20,390
Friends, relatives	679,457	697,641	84,508	87,244

1/ Because of multiple responses, detail may add to more than the indicated total.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

Table 7.11-- ACTIVITY PARTICIPATION BY VISITORS FROM THE U.S. TOTAL, U.S. WEST, U.S. EAST, AND JAPAN: 2016

[Covers visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Percent of visitors. Percentages sum to more than 100 percent due to multiple island visitation and multiple activities participated in by visitors]

Activity	U.S. total	U.S. West 1/	U.S. East 2/	Japan
Sightseeing	97.4	96.9	98.3	90.2
Self-guided, drive around island	87.8	88.7	86.2	54.6
Helicopter, airplane tour	9.2	6.7	13.9	1.8
Boat, submarine tour, whale watching	30.8	28.0	36.2	12.7
Visit communities	42.1	41.5	43.3	31.7
Limo, van, bus tour	14.2	9.9	22.4	35.8
Scenic views, natural landmarks	78.2	75.4	83.5	29.5
Movie, TV film location	6.4	5.2	8.9	5.6
Recreation	97.3	97.1	97.5	84.0
Beach, sunbathing	88.1	88.1	88.1	65.7
Surfing, bodyboarding, paddleboarding	26.4	28.5	22.3	7.3
Canoeing, kayaking	10.8	10.6	11.1	2.6
Swimming in the ocean, snorkeling	73.9	75.4	71.0	30.9
Windsurfing, kitesurfing	1.3	1.2	1.5	0.4
Jet skiing, parasailing, SCUBA diving	5.2	5.0	5.7	4.3
Fishing	4.1	4.0	4.4	0.7
Golf	9.1	8.8	9.5	7.1
Running, jogging, fitness walking	40.4	41.0	39.4	21.3
Spa	9.9	9.4	11.0	6.5
Backpacking, hiking, camping	30.7	28.8	34.5	7.3
Agritourism	14.5	13.5	16.6	3.7
Sports event, tournament	3.2	3.1	3.3	2.3
State parks, botanical gardens	57.4	53.5	65.0	14.4
Entertainment	99.3	99.5	99.1	93.8
Lunch, sunset, dinner, evening cruise	32.9	31.0	36.6	54.9
Live music, stage show	39.7	36.4	46.2	24.9
Nightclub, dancing, bar, karaoke	12.8	12.6	13.3	5.2
Fine dining	59.1	57.4	62.4	39.0
Family restaurant, diner	76.4	77.8	73.6	34.0
Fast food	42.9	42.2	44.2	52.3
Cafe, coffee house	50.5	51.7	48.2	49.6
Ethnic dining	38.6	38.2	39.3	8.7
Prepared own meal	55.0	59.2	46.7	17.9

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Table 7.11-- ACTIVITY PARTICIPATION BY VISITORS FROM THE U.S. TOTAL, U.S. WEST, U.S. EAST, AND JAPAN: 2016 -- Con.

Activity	U.S. total	U.S. West 1/	U.S. East 2/	Japan
Shopping	98.2	98.4	97.8	96.6
Mall, department stores	53.6	53.5	53.7	80.3
Designer boutiques	31.1	30.3	32.8	37.3
Hotel stores	44.6	42.2	49.3	45.2
Swap meet, flea market	25.2	26.0	23.6	13.2
Discount, outlet stores	24.9	24.7	25.2	36.2
Supermarkets	67.4	70.2	61.9	63.5
Farmers market	36.7	39.0	32.3	20.9
Convenience stores	54.9	54.8	55.0	65.2
Duty Free stores	4.2	4.3	4.0	48.6
Local shops, artisans	70.6	70.0	71.8	17.4
Culture	77.9	74.4	84.5	47.8
Historic military site	31.7	25.5	43.9	13.6
Other historic site	39.3	36.8	44.2	11.8
Museum, art gallery	26.1	26.2	25.8	7.5
Luau	34.1	29.1	43.9	3.1
Polynesian show, hula show	23.8	20.9	29.2	22.9
Lessons: hula, canoeing, etc.	5.1	4.5	6.2	4.0
Ukulele lessons	2.3	2.2	2.5	1.3
Play, concert, theatre	5.8	6.0	5.4	2.7
Art, craft fair	15.0	15.8	13.6	1.3
Festivals	2.7	2.5	3.1	2.5
Transportation	93.5	93.4	93.7	95.8
Airport shuttle	24.8	23.4	27.6	28.7
Trolley	4.5	3.9	5.6	58.5
Public bus	6.8	6.2	8.0	19.7
Tour bus, tour van	15.4	10.9	24.1	39.1
Taxi, limousine	13.7	11.1	18.7	36.3
Rental car	80.9	82.6	77.6	21.3

1/ Pacific and Mountain States of the United States.

2/ All other states in the Continental United States not included in U.S. West.

Source: Hawaii Tourism Authority, Tourism Research, *2016 Visitor Satisfaction and Activity Report*

<<https://www.hawaiitourismauthority.org/research/visitor-satisfaction-and-activity/>> accessed June 22, 2018.

Table 7.12-- OVERALL RATING BY LIFESTAGE AND BY VISITATION STATUS BY VISITORS FROM THE U.S. TOTAL: 2016

[Covers visitors from United States staying overnight or longer. Percent of visitors]

Category	Excellent	Above average	Below average	Poor
Total	88.9	10.0	0.9	0.1
Lifestyle / lifestage segments				
Wedding / honeymoon	91.6	8.4	0.0	0.0
Family (traveling with child under 18)	89.0	10.4	0.6	0.1
Young (18-34)	89.9	8.7	1.2	0.1
Middle age (35-54)	88.3	10.6	1.0	0.1
Seniors (55+)	88.8	10.0	1.1	0.2
Visitation status				
First timers	85.0	13.9	0.9	0.2
Repeat visitors	86.6	12.3	1.0	0.1

Source: Hawaii Tourism Authority, Tourism Research, records. See also *2016 Visitor Satisfaction and Activity Report* <<https://www.hawaiiitourismauthority.org/research/visitor-satisfaction-and-activity/>> accessed June 22, 2018.

Table 7.13-- OVERALL RATING BY LIFESTAGE AND BY VISITATION STATUS BY VISITORS FROM THE U.S. WEST: 2016

[Covers visitors from Pacific and Mountain States of the United States staying overnight or longer. Percent of visitors]

Category	Excellent	Above average	Below average	Poor
Total	88.2	10.6	1.0	0.1
Lifestyle / lifestage segments				
Wedding / honeymoon	91.0	9.0	0.0	0.0
Family (traveling with child under 18)	87.6	11.6	0.8	0.1
Young (18-34)	90.5	8.1	1.2	0.2
Middle age (35-54)	87.4	11.6	0.9	0.1
Seniors (55+)	88.3	10.2	1.3	0.2
Visitation status				
First timers	86.9	11.7	1.3	0.1
Repeat visitors	88.5	10.3	1.0	0.1

Source: Hawaii Tourism Authority, Tourism Research, *2016 Visitor Satisfaction and Activity Report*
 <<https://www.hawaiitourismauthority.org/research/visitor-satisfaction-and-activity/>> accessed June 22, 2018.

Table 7.14-- OVERALL RATING BY LIFESTAGE AND BY VISITATION STATUS BY VISITORS FROM THE U.S. EAST: 2016

[Covers visitors from all other states in the continental United States not included in U.S. West staying overnight or longer. Percent of visitors]

Category	Excellent	Above average	Below average	Poor
Total	90.3	8.9	0.7	0.1
Lifestyle / lifestage segments				
Wedding / honeymoon	92.4	7.6	0.0	0.0
Family (traveling with child under 18)	92.6	7.2	0.0	0.1
Young (18-34)	89.0	9.7	1.3	0.0
Middle age (35-54)	89.7	9.0	1.1	0.2
Seniors (55+)	89.7	9.5	0.7	0.1
Visitation status				
First timers	89.7	9.7	0.6	0.1
Repeat visitors	90.7	8.4	0.8	0.1

Source: Hawaii Tourism Authority, Tourism Research, *2016 Visitor Satisfaction and Activity Report*
 <<https://www.hawaii-tourism-authority.org/research/visitor-satisfaction-and-activity/>> accessed June 22, 2018.

Table 7.15-- OVERALL RATING BY LIFESTAGE AND BY VISITATION STATUS BY VISITORS FROM JAPAN: 2016

[Visitors staying overnight or longer. Percent of visitors]

Category	Excellent	Above average	Below average	Poor
Total	77.9	20.9	0.9	0.3
Lifestyle / lifestage segments				
Wedding / honeymoon	88.1	11.1	0.0	0.7
Family (traveling with child under 18)	77.1	21.9	0.9	0.0
Young (18-34)	84.1	14.3	0.2	1.4
Middle age (35-54)	80.2	19.4	0.5	0.0
Seniors (55+)	71.1	27.2	1.7	0.0
Visitation status				
First timers	80.7	18.0	0.6	0.6
Repeat visitors	76.1	22.6	1.1	0.1

Source: Hawaii Tourism Authority, Tourism Research, *2016 Visitor Satisfaction and Activity Report*
 <<https://www.hawaiitourismauthority.org/research/visitor-satisfaction-and-activity/>> accessed June 22, 2018.

Table 7.16-- OVERALL ISLAND EXPERIENCE BY VISITORS FROM THE U.S. TOTAL, U.S. WEST, U.S. EAST, AND JAPAN: 2016

[Covers visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Percent of visitors]

Location and rating	U.S. total	U.S. West 1/	U.S. East 2/	Japan
Oahu				
Excellent	78.5	79.1	77.6	76.5
Above average	18.6	17.9	19.6	22.1
Below average	2.4	2.4	2.4	1.0
Poor	0.5	0.6	0.4	0.4
Maui				
Excellent	88.8	87.4	91.1	75.1
Above average	9.7	10.6	8.2	20.2
Below average	1.2	1.5	0.7	2.7
Poor	0.3	0.5	0.1	2.1
Molokai				
Excellent	81.0	77.8	84.2	66.0
Above average	14.0	16.7	11.3	28.5
Below average	3.1	4.1	2.2	2.8
Poor	1.9	1.5	2.3	2.8
Lanai				
Excellent	74.3	69.7	79.8	60.3
Above average	17.8	22.2	12.7	26.2
Below average	2.9	3.4	2.3	10.6
Poor	5.0	4.7	5.2	2.8
Hilo				
Excellent	78.8	77.9	80.0	69.6
Above average	16.8	17.6	15.8	26.0
Below average	3.2	3.2	3.2	3.2
Poor	1.2	1.3	1.0	1.2
Kona				
Excellent	85.8	84.5	87.8	79.5
Above average	11.9	13.0	10.1	17.4
Below average	1.8	1.9	1.6	1.3
Poor	0.6	0.6	0.5	1.8

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**Table 7.16-- OVERALL ISLAND EXPERIENCE BY VISITORS FROM THE
U.S. TOTAL, U.S. WEST, U.S. EAST, AND JAPAN: 2016 -- Con.**

Location and rating	U.S. total	U.S. West 1/	U.S. East 2/	Japan
Kauai				
Excellent	92.8	92.9	92.6	70.4
Above average	6.2	6.0	6.4	25.0
Below average	0.6	0.5	0.8	2.4
Poor	0.4	0.5	0.2	2.2

1/ Pacific and Mountain States of the United States.

2/ All other states in the Continental United States not included in U.S. West.

Source: Hawaii Tourism Authority, Tourism Research, *2016 Visitor Satisfaction and Activity Report*

<<https://www.hawaiiourismauthority.org/research/visitor-satisfaction-and-activity/>> accessed July 2, 2018.

Table 7.17-- SOURCES OF INFORMATION FOR TRIP PLANNING BY VISITORS FROM THE U.S. WEST, U.S. EAST, JAPAN, AND CANADA: 2016

[Covers visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Percent of visitors, sources used before trip. Percentages do not sum to 100 percent due to multiple sources used]

Information source	U.S. West 1/	U.S. East 2/	Japan	Canada
Travel agents / package tour companies	18.9	27.8	58.9	20.7
Social network site	26.5	30.5	26.3	34.5
Friends, family	49.9	52.3	34.9	49.7
Hotel, resort front desk, concierge, tour desk	16.6	17.8	20.7	14.6
Mobile apps relevant to trip	35.1	35.5	34.4	33.3
Airline/commercial carrier	36.5	35.5	20.9	34.1
Personal experience	60.7	49.5	34.5	55.2
Online travel booking site/travel agent	31.9	31.4	32.3	39.9
Webpage, blog covering Hawaii	30.6	36.0	42.4	41.7
GoHawaii.com	20.2	27.5	20.0	28.9
Magazine	10.8	12.4	49.9	12.6
Guidebook	23.8	28.8	43.7	31.0
Television	3.7	4.2	28.5	3.8

1/ Pacific and Mountain States of the United States.

2/ All other states in the Continental United States not included in U.S. West.

Source: Hawaii Tourism Authority, *Tourism Research, 2016 Visitor Satisfaction and Activity Report*
 <<http://www.hawaiitourismauthority.org/research/reports/visitor-satisfaction/>> accessed May 1, 2018.

Table 7.18-- SOCIAL MEDIA AND MOBILE APP USAGE FOR TRIP PLANNING BY VISITORS FROM THE U.S. WEST, U.S. EAST, JAPAN, AND CANADA: 2016

[Covers visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Percent of respondents who used social media and mobile applications. Percentages do not sum to 100 percent due to multiple answers chosen]

How social media and mobile apps were used	U.S. West 1/	U.S. East 2/	Japan	Canada
Social Media				
Deciding on vacation destination	31.9	30.5	37.5	33.5
Planning activities	55.7	56.8	43.8	58.5
Airline reservations	18.0	14.5	26.9	18.5
Hotel / lodging reservations	22.6	18.0	27.9	30.2
Car rental reservations	16.0	13.4	17.5	21.3
Tours / attractions / activities	27.6	29.3	29.3	28.1
Restaurant / dining reservations	54.2	52.7	43.7	50.3
Finding places to shop	35.6	30.3	60.3	32.9
Access maps / directions	23.7	20.1	50.6	24.0
Other	1.1	0.7	1.5	1.3
Mobile Apps				
Deciding on vacation destination	29.2	28.4	23.1	30.8
Planning activities	49.1	51.9	29.2	52.0
Airline reservations	57.5	51.9	17.9	59.6
Hotel / lodging reservations	44.9	40.2	17.1	51.4
Car rental reservations	49.5	43.6	10.5	54.4
Tours / attractions / activities	34.7	39.5	18.3	35.9
Restaurant / dining reservations	58.1	56.8	33.5	53.4
Finding places to shop	44.1	42.4	63.7	41.9
Access maps / directions	83.8	82.8	68.8	77.2
Other	2.0	1.2	2.9	1.7

1/ Pacific and Mountain States of the United States.

2/ All other states in the Continental United States not included in U.S. West.

Source: Hawaii Tourism Authority, Tourism Research, *2016 Visitor Satisfaction and Activity Report*

<<https://www.hawaii-tourism-authority.org/research/visitor-satisfaction-and-activity/>> accessed July 9, 2018.

Table 7.19-- SAFETY ISSUES AND OTHER NUISANCE ENCOUNTERED BY VISITORS FROM THE U.S. TOTAL, U.S. WEST, U.S. EAST, AND JAPAN: 2015 AND 2016

[Covers visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Percent of visitors. Percentages do not sum to 100 percent due to multiple answers chosen]

Safety issues or nuisance	U.S. total	U.S. West 1/	U.S. East 2/	Japan
2015				
No negatives	48.0	48.9	46.3	51.3
Safety issues				
Solicited by drug dealers	1.3	1.5	1.1	0.4
Verbal harassment	2.0	2.0	2.1	1.3
Car vandalized / robbed	0.7	0.9	0.4	0.5
Wallet/ purse / valuables stolen	0.9	1.1	0.6	1.2
Solicited by prostitutes	0.8	0.7	0.9	0.6
Physical violence / harm	0.2	0.3	0.2	0.2
Room vandalized / robbed	0.2	0.3	0.1	0.2
Other nuisance				
Severe weather	10.2	10.7	9.3	6.8
Other	9.0	9.4	8.1	7.0
Service problems	3.1	3.2	2.8	6.5
Parking / auto violations	1.3	1.3	1.3	2.5
2016				
No negatives	52.7	53.8	50.5	62.0
Safety issues				
Solicited by drug dealers	1.4	1.3	1.6	0.3
Verbal harassment	2.6	2.6	2.7	1.2
Car vandalized / robbed	0.4	0.4	0.4	0.1
Wallet / purse / valuables stolen	0.8	0.8	0.7	1.1
Solicited by prostitutes	0.4	0.3	0.6	0.6
Physical violence / harm / harrassment	0.3	0.3	0.3	0.2
Room vandalized / robbed	0.1	0.1	0.1	0.1
Other nuisance				
Seeing homeless people	35.9	33.7	40.0	25.6
Severe weather	9.5	10.0	8.5	3.9
Service problems	3.0	3.1	2.8	4.2
Parking / auto violations	1.1	1.0	1.5	0.8
Other	5.0	5.7	4.8	6.9

1/ Pacific and Mountain States of the United States.

2/ All other states in the Continental United States not included in U.S. West.

Source: Hawaii Tourism Authority, Tourism Research, 2016 Visitor Satisfaction and Activity Report

<<https://www.hawaiitourismauthority.org/research/visitor-satisfaction-and-activity/>> accessed July 9, 2018 and records.

**Table 7.20-- VISITOR PROFILE AND TRIP CHARACTERISTICS OF VISITORS
FROM THE U.S. TOTAL, U.S. WEST, U.S. EAST, AND JAPAN: 2016**

[Covers visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Percent of visitor respondents]

Characteristic	U.S. total	U.S. West 1/	U.S. East 2/	Japan
Visitation status				
First timers	26.7	19.0	41.5	38.2
Repeat visitors	73.3	81.0	58.5	61.8
Gender				
Male	45.5	44.7	46.9	50.5
Female	54.5	55.3	53.1	49.5
Age				
Median (years)	51	51	51	50
Lifestyle / lifestage segments				
Wedding / honeymoon	4.4	3.8	5.8	14.0
Family (traveling with child under 18)	22.7	25.2	17.9	16.9
Young (under 35)	11.9	11.5	12.6	11.4
Middle age (35-54)	22.1	20.9	24.5	19.5
Seniors (55+)	38.8	38.6	39.2	38.1
Primary purpose of trip				
Vacation	59.1	60.6	56.1	64.5
Visit friends or relatives	9.2	8.9	9.9	1.7
Anniversary / birthday	8.8	8.6	9.3	2.0
Attend a business meeting or conduct business	4.5	4.2	5.1	1.4
Attend/participate in a wedding	2.9	2.8	3.1	9.4
Honeymoon	2.7	2.2	3.8	9.6
Attend a convention, conference or seminar	2.5	2.3	2.8	0.8
Family gathering/reunion	2.1	2.4	1.5	1.4
Attend / participate in a sporting event	1.3	1.6	0.8	1.8
Incentive / reward	1.2	1.0	1.5	1.5
Attend / participate in a cultural / historical / music event	0.9	0.6	1.4	0.5
Real estate purchase or viewing	0.8	0.7	1.0	0.2
Get married / vow renewal	0.8	0.7	0.9	2.1
Education / visit schools	0.5	0.6	0.5	0.5
Attend funeral	0.4	0.5	0.2	0.0
Vacation home/timeshare	0.3	0.4	0.3	0.0
Attend graduation	0.2	0.2	0.2	0.0
Layover / break up long flight	0.2	0.2	0.2	0.0
Military	0.2	0.1	0.2	0.0
Graduation celebration	0.1	0.2	0.1	0.0
Shopping / fashion	0.1	0.1	0.1	1.3
Surf / scuba / snorkel / windsurf / other	0.1	0.1	0.0	0.1
Other	0.3	0.3	0.2	0.7

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Table 7.20-- VISITOR PROFILE AND TRIP CHARACTERISTICS OF VISITORS FROM THE U.S. TOTAL, U.S. WEST, U.S. EAST, AND JAPAN: 2016 -- Con.

Characteristic	U.S. total	U.S. West 1/	U.S. East 2/	Japan
Highest level of school				
No / some high school	0.5	0.4	0.6	1.4
High school graduate	5.2	5.3	4.8	24.6
Some college	14.8	15.9	12.7	5.8
Vocational / technical	4.4	4.8	3.6	10.7
2-year degree	9.5	9.8	8.8	9.9
4-year degree	35.2	35.1	35.3	41.0
Post grad degree	30.6	28.7	34.2	6.5
Employment status				
Self-employed	13.2	14.1	11.4	12.3
Employed, working for someone else	56.6	55.3	59.2	37.9
Retired	22.8	23.0	22.5	14.0
Student	2.0	1.9	2.1	3.6
Homemaker	3.5	3.7	3.0	15.3
Other	1.9	2.0	1.8	17.0
U.S. visitors' income				
Up to \$40,000	8.0	8.0	6.9	(X)
\$40,000 to \$59,999	8.6	8.6	9.3	(X)
\$60,000 to \$79,999	11.1	11.1	11.7	(X)
\$80,000 to \$99,999	12.6	12.6	12.4	(X)
\$100,000 to \$124,999	16.1	16.1	16.4	(X)
\$125,000 to \$149,999	10.8	10.8	10.2	(X)
\$150,000 to \$174,999	8.6	8.6	7.6	(X)
\$175,000 to \$199,999	6.1	6.1	5.6	(X)
\$200,000 to \$249,999	7.1	7.1	7.6	(X)
\$250,000 or more	11.0	11.0	12.3	(X)
Japan visitors' income				
Less than 3.5 million yen	(X)	(X)	(X)	15.8
3.5 million to 4.5 million yen	(X)	(X)	(X)	14.3
4.5 million to 5.5 million yen	(X)	(X)	(X)	10.4
5.5 million to 6.5 million yen	(X)	(X)	(X)	10.2
6.5 million to 7.5 million yen	(X)	(X)	(X)	8.3
7.5 million to 8.5 million yen	(X)	(X)	(X)	8.3
8.5 million to 10 million yen	(X)	(X)	(X)	10.0
10 million yen or more	(X)	(X)	(X)	22.6

X Not applicable.

1/ Pacific and Mountain States of the United States.

2/ All other states in the Continental United States not included in U.S. West.

Source: Hawaii Tourism Authority, Tourism Research, *2016 Visitor Satisfaction and Activity Report*

<<https://www.hawaiitourismauthority.org/research/visitor-satisfaction-and-activity/>> accessed June 22, 2018.

Table 7.21-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY POINT OF ORIGIN: 2015 AND 2016

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Domestic includes passengers from all flights originating from the mainland United States. International includes passengers from all flights originating from U.S. territories and other countries]

Length of stay	2015			2016		
	Total	Domestic	International	Total	Domestic	International
All visitors	8,563,018	5,782,140	2,780,878	8,821,802	5,968,779	2,853,023
1 to 6 days	2,927,830	1,336,940	1,590,889	3,035,187	1,421,303	1,613,883
7 to 12 days	4,348,798	3,464,132	884,666	4,521,015	3,583,881	937,134
13 to 30 days	1,193,344	905,782	287,562	1,171,164	890,578	280,586
31 to 365 days	93,046	75,285	17,761	94,437	73,018	21,419
Median (days)	7.27	8.00	6.00	7.23	8.00	6.00
Mean (days)	9.12	9.85	7.60	9.03	9.69	7.66

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

**Table 7.22-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES:
2011 TO 2016**

[Visitor arrivals by air. Covers visitors staying overnight or longer anywhere in the state,
and any overnight or non-overnight interisland trips reported by these visitors]

Subject	2011	2012	2013	2014	2015	2016
Arrivals (1,000)	1,242	1,466	1,519	1,512	1,482	1,488
Average stay (days)	6.03	6.02	5.94	5.80	5.86	5.86
Expenditures (mil. dol.)	2,164	2,735	2,486	2,397	2,053	2,096

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

Table 7.23-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1960-1961 TO 2016

[Visitor arrivals by air. Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. Dollars. Unweighted averages for mainlanders before 1988 and for Japanese before 1990]

Year	Mainlanders	Japanese	Year	Mainlanders	Japanese
1960-1961	32.00	(NA)	1999	148.91	207.46
1965-1966 1/	37.23	(NA)	2000	154.92	214.20
1974	46.20	123.00	2001	142.75	227.05
1977	54.62	146.85	2002	150.39	233.13
1980	71.24	185.00	2003	157.18	240.09
1983	85.88	227.32	2004	157.95	251.47
1986	95.40	299.00	2005	160.79	255.42
1987	102.49	324.00	2006	166.28	266.47
1988	121.44	350.00	2007	170.29	268.83
1989	126.57	322.00	2008	161.01	288.33
1990	136.30	294.04	2009	145.70	268.33
1991	140.54	344.29	2010	151.62	261.10
1992	117.14	344.68	2011	157.81	289.10
1993	116.15	306.54	2012	167.09	310.10
1994	133.79	340.88	2013	172.07	275.74
1995	132.73	356.15	2014	176.58	273.39
1996	137.04	286.89	2015	175.01	236.33
1997	157.07	279.58	2016	180.25	240.30
1998	147.37	235.25			

NA Not available.

1/ Oahu only.

Source: Hawaii Visitors Bureau, *1983 Visitor Expenditure Survey* (1985), p. 31; *1989 Expenditures, Westbound Visitors to Hawaii* (1990), pp. 29 and 30; *1991 Visitor Expenditure Report* (1992), pp. 6 and 68; *1992 Visitor Expenditure Report* (1993), p. 61; Hawaii Visitors & Convention Bureau, *Hawaii Visitors & Convention Bureau 1995 & 1996 Research Report*, pp.109-110, Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

Table 7.24-- AVERAGE EXPENDITURE PER VISITOR DAY IN CONSTANT DOLLARS, FOR VISITORS FROM THE MAINLAND: 1960-1961 TO 2016

[Visitor expenditure for visitor arrivals by air. Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors]

Year	U.S. CPI (1982-84=100)	Average expend. per vis. day 1/	Year	U.S. CPI (1982-84=100)	Average expend. per vis. day 1/
1960-1961	29.8	107	1999	166.6	89
1965-1966 2/	32.0	116	2000	172.2	90
1974	49.3	94	2001	177.1	81
1977	60.6	90	2002	179.9	84
1980	82.4	86	2003	184.0	85
1983	99.6	86	2004	188.9	84
1986	109.6	87	2005	195.3	82
1987	113.6	90	2006	201.6	82
1988	118.3	103	2007	207.3	82
1989	124.0	102	2008	215.3	75
1990	130.7	104	2009	214.5	68
1991	136.2	103	2010	218.1	70
1992	140.3	83	2011	224.9	70
1993	144.5	80	2012	229.6	73
1994	148.2	90	2013	233.0	74
1995	152.4	87	2014	236.7	75
1996	156.9	87	2015	237.0	74
1997	160.5	98	2016	240.0	75
1998	163.0	90			

1/ In constant (1982-84) dollars.

2/ Oahu only.

Source: Preceding table; U.S. Bureau of Labor Statistics, *CPI Detailed Report*

<<http://www.bls.gov/cpi/home.htm>> accessed on July 21, 2015 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 7.25-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM
SELECTED GEOGRAPHIC AREA, BY EXPENDITURE TYPE: 2015 AND 2016**

[For visitor arrivals by air. Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. In dollars for visitors who stayed in hotels, condominiums, and bed & breakfasts]

Expenditure type	Visitors from U.S. West 1/		Visitors from U.S. East 2/		Visitors from Japan		Visitors from Canada	
	2015	2016	2015	2016	2015	2016	2015	2016
All items	162.0	167.9	197.8	201.7	236.3	240.3	161.5	161.1
Total food and beverage	34.5	36.2	40.0	40.7	49.9	50.4	33.0	33.8
Restaurant food	21.8	22.9	27.3	27.7	37.3	37.6	18.7	19.4
Dinner shows & cruises	3.4	3.6	4.5	4.8	3.9	4.0	3.0	3.0
Groceries and snacks	9.3	9.6	8.2	8.3	8.7	8.9	11.3	11.3
Entertainment & recreation	14.1	14.7	19.5	20.3	18.7	19.0	12.4	11.8
Total transportation	16.3	18.1	20.1	22.0	12.0	12.3	17.1	16.8
Interisland airfare	1.8	2.5	3.8	4.9	2.0	2.0	1.7	1.7
Ground transportation	0.7	0.7	1.0	1.1	5.8	6.0	0.9	0.9
Rental vehicles	12.7	13.9	13.9	14.7	3.9	4.0	13.1	13.0
Gasoline, parking, etc.	1.2	1.1	1.4	1.3	0.4	0.3	1.4	1.2
Total shopping	16.3	16.2	18.6	18.5	65.5	68.0	14.9	13.5
Fashion and clothing	6.1	6.2	6.7	6.7	18.2	18.1	7.8	6.9
Jewelry and watches	2.9	2.6	3.2	3.1	5.8	6.7	1.8	1.6
Cosmetics, perfume	0.4	0.3	0.4	0.4	3.5	3.8	0.3	0.2
Leather goods	0.8	0.8	0.5	0.7	17.6	18.5	0.5	0.5
Hawaii food products	2.5	2.5	2.7	2.7	13.6	13.9	1.7	1.7
Souvenirs	3.6	3.7	5.1	4.8	6.9	7.1	2.7	2.6
Lodging	76.3	78.4	87.4	89.6	79.3	80.1	78.2	79.3
All other expenses 3/	4.5	4.3	12.1	10.6	10.8	10.4	5.8	5.9

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Table 7.25-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM SELECTED GEOGRAPHIC AREA, BY EXPENDITURE TYPE: 2015 AND 2016 -- Con.

Expenditure type	Visitors from Canada		Visitors from China		Visitors from Korea		Visitors from other Asia 4/	
	2015	2016	2015	2016	2015	2016	2015	2016
All items	161.5	161.1	392.0	384.7	293.9	316.4	340.3	340.7
Total food and beverage	33.0	33.8	55.6	62.9	66.5	74.5	60.7	68.0
Restaurant food	18.7	19.4	42.3	52.8	52.9	62.2	47.3	56.7
Dinner shows and cruises	3.0	3.0	5.5	4.3	5.8	4.8	5.6	4.5
Groceries and snacks	11.3	11.3	7.7	5.8	7.8	7.6	7.8	6.8
Entertainment & recreation	12.4	11.8	35.0	42.1	26.3	28.1	30.4	33.5
Total transportation	17.1	16.8	33.0	44.7	25.7	28.2	29.2	34.5
Interisland airfare	1.7	1.7	12.8	13.9	7.1	6.2	9.9	9.4
Ground transportation	0.9	0.9	6.4	14.8	2.5	2.4	4.4	7.1
Rental vehicles	13.1	13.0	12.4	14.7	15.0	18.4	13.6	16.8
Gasoline, parking, etc.	1.4	1.2	1.3	1.3	1.1	1.1	1.2	1.2
Total shopping	14.9	13.5	160.0	115.8	77.2	69.9	116.9	88.0
Fashion and clothing	7.8	6.9	54.6	46.0	25.2	24.3	39.6	32.6
Jewelry and watches	1.8	1.6	31.6	20.3	3.7	3.7	16.5	9.8
Cosmetics, perfume	0.3	0.2	22.4	12.6	5.9	4.1	13.4	7.5
Leather goods	0.5	0.5	38.0	24.8	30.4	25.6	34.1	26.1
Hawaii food products	1.7	1.7	8.0	7.2	6.6	7.2	7.6	7.1
Souvenirs	2.7	2.6	5.3	4.9	5.5	5.0	5.7	5.0
Lodging	78.2	79.3	86.3	108.5	93.5	112.9	89.8	110.3
All other expenses 3/	5.8	5.9	22.1	10.6	4.7	2.8	13.2	6.4

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Table 7.25-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM SELECTED GEOGRAPHIC AREA, BY EXPENDITURE TYPE: 2015 AND 2016 -- Con.

Expenditure type	Visitors from Oceania 5/		Visitors from Europe 6/		Visitors from Latin America 7/		Visitors from other markets 8/	
	2015	2016	2015	2016	2015	2016	2015	2016
All items	262.8	286.5	177.7	189.9	247.4	186.7	183.6	199.5
Total food and beverage	50.4	54.9	35.4	36.9	49.2	33.5	38.3	41.1
Restaurant food	36.6	39.8	22.0	27.3	30.3	22.4	27.1	30.6
Dinner shows and cruises	4.9	5.3	3.3	2.6	7.1	5.0	3.6	4.2
Groceries and snacks	8.9	9.8	10.2	7.0	11.7	6.1	7.7	6.4
Entertainment & recreation	24.2	24.8	16.2	14.8	25.7	16.7	15.9	16.7
Total transportation	16.6	17.2	26.6	26.1	29.2	22.8	19.7	22.4
Interisland airfare	4.5	4.5	7.7	7.3	8.7	4.7	4.6	5.0
Ground transportation	4.0	3.8	2.7	3.3	2.3	1.1	2.0	2.5
Rental vehicles	7.3	8.2	15.1	14.3	17.1	15.4	11.3	13.8
Gasoline, parking, etc.	0.8	0.7	1.2	1.2	1.1	1.6	1.8	1.1
Total shopping	54.1	56.4	16.2	18.2	29.7	34.1	32.2	39.6
Fashion and clothing	34.2	35.9	7.7	10.5	17.5	13.4	17.5	18.1
Jewelry and watches	5.0	4.8	2.2	4.2	1.9	11.2	1.4	2.4
Cosmetics, perfume	5.1	4.8	0.9	0.5	1.9	1.3	1.7	2.2
Leather goods	4.7	5.1	0.8	0.2	0.6	0.2	4.1	4.3
Hawaii food products	1.3	1.3	1.3	1.0	2.3	2.0	3.6	6.3
Souvenirs	3.9	4.3	3.2	1.8	5.5	5.9	4.0	6.3
Lodging	104.2	118.3	77.2	88.2	96.2	66.2	72.5	72.6
All other expenses 3/	13.2	14.8	6.0	5.8	17.4	13.5	4.9	7.0

1/ Pacific and Mountain States of the United States.

2/ All other States in the continental United States not included in U.S. West.

3/ Includes cruise package and on-ship spending on U.S. flagged Hawaii home-ported ships.

4/ Includes China, Hong Kong, Korea (South), Singapore, and Taiwan.

5/ Includes Australia and New Zealand.

6/ Includes United Kingdom, Germany, France, Italy, and Switzerland.

7/ Includes Argentina, Brazil, and Mexico.

8/ Includes all countries and districts not listed in other MMAs, including Guam, Puerto Rico, U.S. Virgin Islands, and other U.S. territories.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research, *Annual Visitor Research Report* (annual) and records.

**Table 7.26-- TOTAL VISITOR EXPENDITURES BY EXPENDITURE TYPE:
2015 AND 2016**

[Total air and cruise visitor expenditures. Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. In millions of dollars for visitors who stayed in hotels, condominiums, and bed & breakfasts]

Expenditure type	2015	2016	Percent change
All items	15,110.9	15,911.2	5.3
Total food and beverage	3,075.3	3,271.2	6.4
Restaurant food	2,063.1	2,230.8	8.1
Dinner shows and cruises	298.1	319.9	7.3
Groceries and snacks	714.1	720.5	0.9
Entertainment & recreation	1,337.1	1,414.5	5.8
Total transportation	1,385.0	1,543.2	11.4
Interisland airfare	227.6	282.6	24.2
Ground transportation	136.1	155.9	14.5
Rental vehicles	932.0	1,020.4	9.5
Gasoline, parking, etc.	89.3	84.2	-5.7
Total shopping	2,211.9	2,244.8	1.5
Fashion and clothing	844.3	860.5	1.9
Jewelry and watches	293.3	286.8	-2.2
Cosmetics, perfume	113.5	103.6	-8.7
Leather goods	310.5	320.6	3.2
Hawaii food products	301.9	318.0	5.3
Souvenirs	348.4	355.4	2.0
Lodging	6,343.7	6,731.1	6.1
All other expenses 1/	623.9	588.3	-5.7
Supplemental business	134.1	118.1	-11.9

1/ Includes cruise package and on-ship spending on U.S. flagged Hawaii home-ported ships.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research, *Annual Visitor Research Report* (annual) and records.

Table 7.27-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM U.S. WEST, U.S. EAST, AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS: 2015 AND 2016

[Visitor arrivals by air. Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. In dollars]

Visitor or trip characteristics	Visitors from US West 1/		Visitors from US East 2/		Visitors from Japan	
	2015	2016	2015	2016	2015	2016
All visitors	162.0	167.9	197.8	201.7	236.3	240.3
Group tour status 3/						
Organized group tour	230.8	231.1	253.2	236.8	248.3	253.5
Individually arranged	160.1	166.2	188.3	193.6	233.2	238.2
Arrived on package tour 3/						
Yes	183.4	186.3	229.0	226.6	260.0	268.9
No	155.6	161.8	180.5	186.1	186.3	187.9
Accommodations						
Hotel	205.3	212.1	243.5	242.5	257.8	263.8
Condo	161.3	166.0	183.2	190.0	174.2	169.8
Guests of friends and relatives	72.9	79.0	75.0	77.7	100.3	89.1
Timeshare	128.8	127.8	148.8	150.6	127.7	134.1
Previous visits 3/						
First trip	169.5	175.6	207.3	209.9	259.7	267.6
Repeat visitors	160.6	169.8	190.3	194.2	223.4	225.8
Purpose of trip						
Pleasure	163.1	169.1	192.8	195.4	217.2	220.9
Business, meetings, conventions, incentive	204.8	208.4	237.9	235.1	250.7	249.6
On honeymoon	211.2	231.2	280.1	283.5	323.0	330.1

1/ Pacific and Mountain States of the United States.

2/ All other states in the continental United States not included in U.S. West.

3/ U.S. West and U.S. East figures may not be comparable to figures in *2007 Data Book* or earlier, due to a change in methodology in a subsequent year.

Source: Hawaii Tourism Authority, Tourism Research and records.

Table 7.28-- ESTIMATED VISITOR EXPENDITURES: 1961 TO 2016

[Total air and cruise visitor expenditures. Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. In millions of dollars]

Year	Personal expenditures	Additional business expenditures 1/	Year	Personal expenditures	Additional business expenditures 1/
1961	137	(NA)	1989	8,371	113
1962	154	(NA)	1990	8,707	119
1963	186	(NA)	1991	9,004	138
1964	205	(NA)	1992	8,614	141
1965	225	(NA)	1993	7,808	120
1966	280	(NA)	1994	9,544	133
1967	380	(NA)	1995	10,067	141
1968	440	(NA)	1996	9,569	140
1969	550	(NA)	1997	10,102	147
1970	595	(NA)	1998	9,910	149
1971	705	(NA)	1999	9,844	161
1972	836	(NA)	2000	10,396	194
1973	1,017	(NA)	2001	8,916	145
1974	1,233	(NA)	2002	9,465	144
1975	1,355	(NA)	2003	9,889	165
1976	1,637	(NA)	2004	10,702	160
1977	1,834	(NA)	2005	11,696	208
1978	2,150	(NA)	2006	12,301	191
1979	2,541	(NA)	2007	12,626	185
1980	2,871	(NA)	2008	11,220	178
1981	3,195	(NA)	2009	9,819	174
1982	3,687	(NA)	2010	10,889	177
1983	3,847	(NA)	2011	12,048	110
1984	4,442	(NA)	2012	14,250	115
1985	4,780	92	2013	14,413	108
1986	5,567	103	2014	14,851	122
1987	6,281	120	2015	14,977	134
1988	7,813	125	2016	15,793	118

NA Not available.

1/ By MCI (meetings, conventions, and incentive) visitors. Not available before 1985.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

**Table 7.29-- VISITOR EXPENDITURES, BY COUNTRY OF RESIDENCE:
1999 TO 2016**

[Total air and cruise visitor expenditures. Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors. In millions of dollars]

Year	Total expenditures	Personal expenditures					Additional business (MCI) expenditures
		All countries 1/	United States	Japan	Canada	Other countries 1/	
1999	10,005	9,844	5,776	2,359	480	1,229	161
2000	10,590	10,396	6,453	2,370	451	1,121	194
2001	9,061	8,916	5,708	2,089	309	810	145
2002	9,609	9,465	6,133	2,041	270	1,021	144
2003	10,054	9,889	6,608	1,902	335	1,044	165
2004	10,862	10,702	7,095	2,163	364	1,081	160
2005	11,904	11,696	7,841	2,214	451	1,190	208
2006	12,492	12,301	8,385	2,037	508	1,371	191
2007	12,811	12,626	8,537	1,982	634	1,473	185
2008	11,398	11,220	7,122	1,944	711	1,443	178
2009	9,993	9,819	6,163	1,826	629	1,202	174
2010	11,066	10,889	6,790	1,900	746	1,454	177
2011	12,158	12,048	7,251	2,164	906	1,727	110
2012	14,365	14,250	8,074	2,735	1,023	2,418	115
2013	14,521	14,413	8,351	2,486	1,083	2,493	108
2014	14,973	14,851	8,586	2,397	1,073	2,796	122
2015	15,111	14,977	8,950	2,053	1,053	2,921	134
2016	15,911	15,793	9,524	2,096	955	3,219	118

1/ Includes cruise ship data.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Branch and records.

**Table 7.30-- CRUISE SHIP ARRIVAL AND PASSENGER COUNT:
2012 TO 2016**

Subject	2012	2013	2014	2015	2016
Number of tours 1/	125	141	138	125	106
Number of passengers	246,236	286,530	291,078	247,815	230,602
Out of state visitors	244,081	283,109	287,424	243,390	226,939
Arrived by air	119,431	121,509	116,437	118,947	114,464
Arrived by ship	124,650	161,600	170,987	124,443	112,475
Hawaii residents	2,155	3,421	3,654	4,425	3,663

1/ A tour starts when a ship first calls a Hawaiian port or when all new passengers embark at a Hawaii port. One ship may make several tours around the Hawaiian Islands with a stop at Fanning Island or Christmas Island during the trip.

Source: Hawaii Tourism Authority, Tourism Research and records.

**Table 7.31-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES:
1997 TO 2016**

[In millions of dollars]

Year	Total	Visitors	Overseas airlines	Cruise lines
1997	11,520.4	10,249.3	1,242.6	28.4
1998	11,379.9	10,058.8	1,256.6	64.5
1999	11,380.9	10,005.1	1,315.8	60.1
2000	12,017.7	10,590.1	1,360.8	66.8
2001	10,412.2	9,061.3	1,280.6	70.3
2002	11,045.5	9,608.9	1,340.0	96.6
2003	11,468.3	10,054.5	1,313.4	100.3
2004	12,406.8	10,861.8	1,405.4	139.6
2005	13,554.6	11,904.0	1,519.7	130.9
2006	14,198.4	12,491.6	1,559.0	147.8
2007	14,568.0	12,811.1	1,563.3	193.6
2008	13,090.4	11,398.5	1,530.4	161.6
2009	11,587.5	9,993.2	1,463.6	130.7
2010	12,618.1	11,066.4	1,425.8	125.9
2011	13,793.0	12,158.2	1,485.4	149.4
2012	16,201.5	14,364.8	1,648.9	187.8
2013	16,493.6	14,520.5	1,784.8	188.3
2014	17,013.0	14,973.3	1,880.2	159.5
2015	17,244.0	15,110.9	1,989.4	143.7
2016	18,071.3	15,911.2	2,028.4	131.6

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

Table 7.32-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 2012 TO 2016

[Direct and indirect impact]

Year	Visitor-related expenditures (million dollars)	Gross domestic product (million dollars)	Household income (million dollars)	State tax revenues (million dollars)	Jobs (1,000)
2012	16,201.5	12,475.1	7,080.0	1,522.9	163.6
2013	16,493.6	12,700.1	7,207.7	1,550.4	161.6
2014	17,013.0	13,100.0	7,434.7	1,599.2	161.6
2015	17,244.0	13,277.9	7,535.6	1,620.9	158.6
2016	18,071.3	13,914.9	7,897.2	1,698.7	160.8

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

Table 7.33-- WAIKIKI'S SHARE OF TOURISM: 2016

Measure of tourism	Statewide visitor industry	Waikiki	
		Number	Percent of statewide tourism
Visitors	8,821,802	1/ 5,447,229	(2/)
Average daily visitor census	217,675	82,508	37.9
Visitors units	79,092	29,981	37.9
Occupied units (average)	62,562	25,724	41.1
Total visitor expenditures (\$millions) 3/	18,071	7,228	40.0

1/ Oahu visitors.

2/ Because many visitors tour more than one island, percent is not applicable.

3/ Includes a portion of the overseas airfare supporting Hawaii-based airline services and spending by cruise lines on supplies and maintenance.

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

Table 7.34-- CONTRIBUTION TO THE STATE'S ECONOMY BY STATEWIDE VISITOR INDUSTRY AND BY WAIKIKI: 2016

Measure of tourism	Statewide tourism		Waikiki tourism	
	Number	Percent	Number	Percent
Direct impact 1/ Gross domestic product 2/ Civilian jobs 3/ State taxes (\$millions)	(X) 119,451 1,307	(X) 13.9 18.0	(X) 47,778 523	(X) 5.6 7.2
Direct and indirect impact 4/ Gross domestic product (\$millions) 4/ Civilian jobs 3/ State taxes (\$millions)	13,915 160,835 1,699	16.6 18.7 23.4	5,566 64,331 679	6.6 7.5 9.4

X Not applicable.

1/ Measures the impact of visitor expenditures on only those firms that sell directly to visitors.

2/ In this Input-Output analysis, direct and indirect GDP are not readily separated.

3/ Civilian jobs include wage and salary jobs plus self-employed but exclude non-civilian military jobs.

4/ Measures the impact of visitor expenditures through all firms that contributed to goods and services sold to visitors.

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

Table 7.35-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES: 1991 TO 2017

Year	Implicit price deflator 1/ (2009=100)	Average daily room rate 2/ (dollars)	1-way air fares (dollars)		Honolulu Consumer Price Index 5/ (1982-84=100)		
			San Francisco-Honolulu 3/	Honolulu-Kahului 4/	Food away from home	Apparel	All items
1991	(NA)	101.89	642.00	65.95	133.6	110.5	148.0
1992	(NA)	105.59	400.00	69.95	137.8	114.2	155.1
1993	(NA)	103.26	566.00	74.00	141.9	116.5	160.1
1994	(NA)	105.46	566.00	74.00	146.4	118.7	164.5
1995	(NA)	109.39	596.00	74.00	149.2	117.5	168.1
1996	(NA)	116.79	530.00	85.00	150.8	118.5	170.7
1997	70.9	124.96	521.00	80.00	152.6	117.3	171.9
1998	72.7	129.66	521.00	88.00	153.3	112.2	171.5
1999	74.7	131.66	536.00	94.75	158.3	105.4	173.3
2000	77.2	140.63	576.00	94.50	160.0	103.5	176.3
2001	80.3	144.88	692.00	95.25	164.0	101.0	178.4
2002	82.3	140.89	692.00	99.00	166.0	102.6	180.3
2003	84.6	144.16	714.00	119.00	167.1	98.5	184.5
2004	87.3	152.17	714.00	139.60	171.0	101.2	190.6
2005	90.4	166.16	829.00	144.70	176.4	102.5	197.8
2006	93.6	187.19	(NA)	167.80	186.0	104.4	209.4
2007	96.7	199.96	(NA)	182.90	195.1	104.1	219.5
2008	98.5	201.85	(NA)	170.00	202.3	105.3	228.9
2009	100.0	177.10	(NA)	218.10	210.8	112.8	230.0
2010	101.2	174.84	(NA)	191.20	213.6	116.4	234.9
2011	103.0	189.83	(NA)	191.20	219.1	118.4	243.6
2012	105.3	204.93	(NA)	191.30	230.3	121.5	249.5
2013	107.1	229.90	(NA)	191.40	241.2	119.0	253.9
2014 6/	109.6	234.85	(NA)	185.00	247.7	111.1	257.6
2015 6/	112.5	244.64	(NA)	187.00	263.0	108.9	260.2
2016 7/	114.4	254.03	(NA)	182.40	273.0	111.7	265.3
2017	116.8	264.43	(NA)	189.40	277.6	115.8	272.0

Continued on next page.

Table 7.35-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES: 1991 TO 2017 -- Con.

NA Not available.

1/ Source: U.S. Bureau of Economic Analysis, Gross Domestic Product by Industry (May 4, 2018) <http://www.bea.gov/iTable/index_regional.cfm> accessed July 17, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

2/ For 1980-1994 Pannell Kerr Forster, *Trends in the Hotel Industry, Hawaii* (monthly). For 1995-2016 Smith Travel Research, Hospitality Advisors LLC, *Hawaii Hotel Flash Report* (December/Year-End Highlights). For 2017, Hawaii Tourism Authority, *Hawaii Hotel Performance Report* (December).

3/ Unrestricted coach or economy weekday fare, including taxes as of July 1, by United Airlines. From chronology in *Data Book*, (1998 figure as of July 27, 2004 figure as of May 3, and 2005 figure as of June 2).

4/ Regular fare, including taxes, as of July 1, by Hawaiian Airlines. From chronology in *Data Book* and Hawaiian Airlines, records.

5/ Honolulu CPI for All Urban Consumers, from U.S. Bureau of Labor Statistics <<http://data.bls.gov/cgi-bin/dsrv?cu>> accessed June 15, 2018.

6/ 'Implicit price deflator' revised from previous *Data Book*.

7/ 'Implicit price deflator' and 'Average daily room rate' revised from previous *Data Book*.

Source: See above footnotes.

**Table 7.36-- RETURNING RESIDENTS AND AVERAGE NUMBER ABSENT,
BY POINT OF ORIGIN: 1993 TO 2016**

Year	Number returning			Average number absent		
	Total	Domestic	Inter-national	Total	Domestic	Inter-national
1993	832,592	716,100	116,492	52,487	44,890	7,597
1994	858,075	738,540	119,535	54,362	46,150	8,212
1995	878,599	755,970	122,629	55,856	47,864	7,992
1996	889,496	764,790	124,706	58,137	50,108	8,029
1997	925,812	796,650	129,162	40,898	35,467	5,431
1998	931,068	796,967	134,101	38,495	34,791	3,704
1999	939,622	805,318	134,304	42,297	36,339	5,958
2000	1,001,174	839,772	161,402	46,151	37,307	8,844
2001	982,508	815,293	167,215	46,566	36,029	10,537
2002	991,557	850,786	140,771	46,757	35,810	10,947
2003	1,057,615	930,265	127,350	53,447	44,682	8,764
2004	1,140,779	976,976	163,803	57,481	47,436	10,044
2005	1,252,012	1,078,468	173,544	65,674	53,789	11,884
2006	1,362,507	1,175,635	186,872	68,656	56,964	11,691
2007	1,364,505	1,160,029	204,476	71,626	57,906	13,719
2008	1,262,237	1,057,133	205,104	72,080	57,386	14,694
2009	1,244,534	1,032,158	212,376	69,243	56,366	12,877
2010	1,291,983	1,079,120	212,863	73,217	57,544	15,673
2011	1,292,290	1,088,058	204,232	73,863	59,486	14,377
2012	1,305,370	1,104,116	201,254	75,985	60,218	15,767
2013	1,239,061	1,081,195	157,866	68,946	57,979	10,966
2014	1,220,813	1,120,230	100,583	64,898	58,385	6,513
2015	1,294,904	1,184,982	109,922	62,389	56,695	5,693
2016	1,358,083	1,210,099	147,984	63,093	56,240	6,853

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual); Hawaii Tourism Authority, Tourism Research and records.

**Table 7.37-- PASSPORTS ISSUED BY THE HONOLULU PASSPORT AGENCY:
2012 TO 2017**

[The area served by the Honolulu Passport Agency includes Hawaii, American Samoa, Western Samoa, Guam, the Northern Mariana Islands, Palau, the Federated States of Micronesia, and the Republic of the Marshall Islands]

Mailing address	2012	2013	2014	2015	2016	2017
Issued by Honolulu Office	61,859	62,304	62,999	67,866	72,333	80,702
Mailed to Hawaii addresses	43,047	43,778	44,304	49,313	51,300	57,124
Mailed outside the state	18,812	18,526	18,695	18,553	21,033	23,578

Source: U.S. Department of State, Honolulu Passport Agency, records.

Table 7.38-- PERFORMING ARTS, FOR OAHU: 2016-2017 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	105	1,018	278,249
Department of Enterprise Services, total	57	90	94,032
Dance	6	11	17,669
Classical concerts	22	33	23,053
Operas	4	16	11,930
Pop/rock shows	18	19	27,034
Stage shows	7	11	14,346
Brigham Young University	(NA)	(NA)	(NA)
Diamond Head Theatre	6	107	48,668
Hawaii Pacific University (Theater)	6	18	1,000
Hawaii Pacific University (Music)	(NA)	20	8,000
Honolulu Theatre for Youth	8	509	92,313
Kennedy Theatre, total	16	74	8,629
Dance	7	19	3,340
Theatre	9	55	5,289
Manoa Valley Theatre	7	95	16,904
Kumu Kahua Theater	5	105	8,703

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism mail and telephone survey.

**Table 7.39-- SYMPHONY ORCHESTRA ACTIVITIES:
1992-1993 TO 2016-2017**

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
HONOLULU SYMPHONY ORCHESTRA				
1992-1993	80	127	194,866	5,983,729
1993-1994 1/	-	-	-	1,380,547
HAWAII SYMPHONY ORCHESTRA				
1994-1995 2/	62	115	120,000	4,700,000
HONOLULU SYMPHONY ORCHESTRA				
1995-1996 3/	80	45	65,000	2,343,305
1996-1997 4/	80	47	73,596	3,919,708
1997-1998	80	48	79,605	5,044,888
1998-1999	80	56	111,682	5,470,100
1999-2000	80	61	106,942	6,691,900
2000-2001 5/	80	53	98,831	5,797,900
2001-2002	80	58	97,906	6,058,458
2002-2003	80	52	94,064	6,331,577
2003-2004	80	58	123,666	6,938,881
2004-2005	80	47	90,985	6,311,037
2005-2006	80	47	89,851	7,279,713
2006-2007	80	48	45,894	7,216,559
2007-2008	80	37	52,953	8,813,767
2008-2009	80	37	64,775	8,310,431
2009-2010 6/	80	8	12,758	2,125,968
2010-2011 7/	-	-	-	310,629
HAWAII SYMPHONY ORCHESTRA				
2011-2012 8/	80	21	20,652	2,434,179
2012-2013 9/	80	1	2,057	215,449
2013-2014	80	20	24,564	10/ 3,486,554
2014-2015	80	23	30,089	11/ 3,553,965
2015-2016	80	37	36,971	4,477,458
2016-2017	80	31	32,111	4,223,764

Continued on next page.

**Table 7.39-- SYMPHONY ORCHESTRA ACTIVITIES:
1992-1993 TO 2016-2017 -- Con.**

- 1/ Concert season cancelled.
 - 2/ First season in operation. The attendance total is estimated.
 - 3/ The Honolulu Symphony Society and the Musicians' Union reached a collective bargaining agreement on December 15, 1995 for a 14-week season, a shorter season than prior years.
 - 4/ Recording of expenses in compliance with FASB 116 & 117 pertaining to not-for-profit corporations, for 18-week season.
 - 5/ Cancelled Shell series and Ohana series due to expense.
 - 6/ Cancelled season in October 2009. Filed Chapter 11 in December 2009.
 - 7/ Converted to Chapter 7 in December 2010.
 - 8/ First season in operation.
 - 9/ No season presented, except 4th of July concert.
 - 10/ Expense includes \$556,431 in contracted revenue for Hawaii Opera and Ballet Hawaii.
 - 11/ Expense reflects \$57,500 in contracted revenue from Ballet Hawaii and addition of first Pops series.
- Source: Honolulu Symphony Society, records; Hawaii Symphony Orchestra, records.

**Table 7.40-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 2014 TO 2017**

[Calendar year data unless otherwise specified]

Island and cultural attraction	2014	2015	2016	2017
OAHU				
Atlantis Submarines	263,910	245,838	232,443	255,558
Atlantis Cruises	87,732	95,100	69,235	56,348
Battleship Missouri Memorial	561,634	599,349	646,643	654,929
Bernice P. Bishop Museum	240,000	(NA)	(NA)	(NA)
Diamond Head State Monument 1/ 2/	892,400	904,000	938,162	1,115,636
Foster Botanical Garden	47,628	45,598	42,989	45,391
Harold L. Lyon Arboretum	42,108	43,252	44,826	45,468
Hawaii Maritime Center 1/	(3/)	(3/)	(3/)	(3/)
Hawaii's Plantation Village	32,497	22,419	18,717	19,853
Hawaii State Art Museum 1/	4/ 31,932	28,115	52,025	68,759
Honolulu Museum of Art on Beretania	277,564	290,193	266,314	(NA)
Honolulu Museum of Art at First Hawaiian Center	(NA)	(NA)	(NA)	(NA)
Honolulu Museum of Art at Spalding House	27,564	28,174	27,660	(NA)
Honolulu Police Department Museum	(NA)	4/ 1,836	4/ 1,472	1,329
Honolulu Zoo	606,566	592,780	564,114	560,479
Ho'omaluhia Botanical Garden	167,843	193,996	218,299	226,601
Iolani Palace State Monument	103,851	115,967	119,810	131,254
King Kamehameha V Judiciary History Center 1/	57,110	58,565	58,568	129,000
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center)	127,884	134,513	193,194	270,180
Pacific Aviation Museum	(NA)	(NA)	(NA)	(NA)
Polynesian Cultural Center	664,634	646,176	4/ 663,484	670,798
Puu O Mahuka Heiau State Historic Site	(5/)	(5/)	(5/)	(5/)
Queen Emma Summer Palace	15,960	12,956	12,800	11,387
Royal Mausoleum State Monument	(5/)	(5/)	(5/)	(5/)
Sea Life Park Hawaii 6/	197,348	188,802	203,889	391,140
Tropic Lightning Museum, Schofield Barracks 6/	13,821	17,423	16,560	11,164
Ulupo Heiau State Historical Park	(5/)	(5/)	(5/)	(5/)
U.S. Army Museum, Ft. DeRussy 6/	78,958	91,888	84,082	95,023
U.S.S. Bowfin Submarine Museum	334,484	365,602	391,218	417,724
University of Hawaii Art Gallery 7/	52,000	52,000	52,000	52,000
Waikiki Aquarium 1/	299,943	286,319	261,704	323,007
WWII Valor in the Pacific National Monument 8/	1,620,814	1,574,156	1,819,020	1,947,495

Continued on next page.

**Table 7.40-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 2014 TO 2017 -- Con.**

Island and cultural attraction	2014	2015	2016	2017
HAWAII				
Amy B. H. Greenwell Ethnobotanical Garden	22,122	(NA)	(9/)	(9/)
Astronaut Ellison S. Onizuka Space Center	14,256	15,947	(10/)	(10/)
H.N. Greenwell Store	1,784	(NA)	(NA)	(NA)
Hawaii Tropical Botanical Garden	90,330	99,540	102,581	(NA)
Hawaii Volcanoes National Park 11/	1,693,005	1,832,660	1,887,580	2,016,702
Hulihe'e Palace	23,291	25,546	26,049	26,674
Kaloko-Honokohau National Historical Park	154,206	170,683	185,041	196,857
Kona Coffee Living History Farm	6,511	(NA)	(NA)	(NA)
Lyman House Memorial Museum	13,421	11,825	4/ 11,698	10,400
Nani Mau Gardens	(NA)	(NA)	(NA)	(5/)
Pacific Tsunami Museum	17,786	17,415	15,274	18,079
Pana'ewa Rainforest Zoo and Gardens 1/	199,801	214,249	251,436	264,415
Pu'u'honua O Honaunau National Historical Park	401,808	437,286	421,027	505,735
Pu'ukohola Heiau National Historic Site	134,734	139,586	138,565	147,259
Volcano Art Center Gallery	(NA)	(NA)	325,000	380,000
Volcano Art Center Campus	(NA)	6,200	7,400	9,300
MAUI				
Alexander & Baldwin Sugar Museum	34,899	34,370	41,235	36,621
Aquarium Maui/Maui Ocean Center	284,514	300,964	313,989	340,107
Haleakala National Park	1,142,040	1,216,772	1,263,558	1,112,390
Halekii-Pihana Heiau State Historical Site	(5/)	(5/)	(5/)	(5/)
Hana Cultural Center	(NA)	(NA)	(NA)	385
Iao Valley State Monument	(5/)	(5/)	(5/)	(5/)
Kula Botanical Garden	20,200	20,400	22,300	23,500
Lahaina Restoration Foundation	23,098	20,648	21,822	25,152
Baldwin Missionary Home Museum	13,390	11,170	14,538	14,340
Hale Pai Printing House	490	479	282	228
Wo Hing Temple Museum	9,218	8,999	7,002	10,584
Maui Historical Society Bailey House Museum	10,860	11,807	12,049	11,884
The Whale Center of Hawaii 12/	184,700	203,595	(12/)	(NA)

Continued on next page.

**Table 7.40-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 2014 TO 2017 -- Con.**

Island and cultural attraction	2014	2015	2016	2017
KAUAI				
Grove Farm Homestead	2,976	2,750	2,633	3,829
Kauai Museum	(NA)	(NA)	25,100	42,050
Kilauea Point National Wildlife Refuge 13/	180,528	189,275	177,124	203,598
Kokee Natural History Museum	95,413	93,511	92,234	94,268
Waioli Mission House	393	513	321	366
MOLOKAI				
Kalaupapa National Historical Park 14/	67,210	67,891	71,527	76,512

NA Not available.

1/ Fiscal year ending June 30.

2/ Diamond Head State Monument is the only State Park where an entry fee is charged to all visitors. The estimated attendance is based on revenues received from entrance fees paid by walk-ins, drive-ins, and commercial vehicles.

3/ The Bishop Museum ceased public operations at its Hawaii Maritime Center, effective May 1, 2009.

4/ Revised from previous *Data Book*.

5/ No visitor counts are conducted.

6/ Fiscal year ending September 30.

7/ Data are estimates.

8/ Counts include visitors to U.S.S. Arizona Memorial.

9/ Closed January 31, 2016.

10/ Closed March 31, 2016.

11/ Kilauea Visitor Center and Jagger Museum are included in the total attendance at Hawaii Volcanoes National Park.

12/ The Whalers Village Museum was not open to the public in 2016. It was slated to be reopened in June 2017 as The Whale Center of Hawaii.

13/ Visitor count is for the Point only and do not include counts for the overlook on Kilauea Road. Beginning in 2014, the Refuge was open 5 days a week. Visitation was estimated between January 2016-April 2016 due to Refuge closure for trail stabilization.

14/ Includes Kalaupapa Settlement.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual mail and telephone survey of attractions.

Table 7.41-- NATIONAL PARKS: 1993 TO 2017

Year and area	Acreage, Dec. 31			Visits
	Total	Federal	Non-federal	
1993	247,349	235,885	11,464	5,828,583
1994	247,349	235,885	11,464	6,077,475
1995	247,349	235,885	11,464	6,213,924
1996	247,349	235,885	11,464	6,192,178
1997	247,349	235,885	11,464	6,738,001
1998	247,349	235,885	11,464	6,274,424
1999	249,001	237,731	11,270	7,469,412
2000	249,001	237,731	11,270	6,517,693
2001	249,001	237,731	11,270	6,215,669
2002	249,042	237,503	11,539	6,025,991
2003	365,830	354,291	11,539	5,935,099
2004	365,830	354,291	11,539	6,700,980
2005	365,830	354,291	11,539	5,415,722
2006	364,999	353,673	11,326	5,323,425
2007	374,666	363,349	11,317	5,122,855
2008	369,110	357,784	11,326	4,536,505
2009	369,111	357,784	11,326	4,312,818
2010	369,112	357,783	11,329	4,493,123
2011	369,160	357,829	11,331	4,784,285
2012	369,202	357,871	11,331	5,119,035
2013	369,202	357,871	11,331	4,902,696
2014	369,202	357,871	11,331	5,213,817
2015	369,202	357,871	11,331	5,439,034
2016	369,160	357,832	11,328	5,786,318
2017	369,161	357,832	11,329	6,002,950
AREAS: 2017				
Haleakala National Park	33,265	33,264	(1/)	1,112,390
Hawaii Volcanoes National Park	323,431	323,431	-	2,016,702
Kalaupapa National Historical Park	10,779	23	10,756	76,512
Kaloko-Honokohau National Historical Park	1,163	616	547	196,857
Pu'uuhonua o Honaunau National Historical Park	420	420	-	505,735
Pu'ukohola Heiau National Historic Site	86	61	25	147,259
U.S.S. Arizona Memorial	17	17	-	1,947,495

1/ Figure rounds to 0 but is included in total.

Source: U.S. Department of the Interior, National Park Service, Natural Resource Stewardship and Science "Annual Visitation By Park (1979 - Last Calendar Year)" and "Park Acreage Reports (1997 - Last Calendar/Fiscal Year)" <<https://irma.nps.gov/Stats/Reports/National>> accessed July 25, 2018, and records.

Table 7.42-- STATE PARKS AND HISTORIC SITES: 1992 TO 2017

Year and island	Number of areas, June 30	Acreage, June 30	
		Total	Developed
1992 1/	63	25,080.0	745.6
1993	63	25,080.0	745.6
1994	63	25,099.0	745.6
1995	64	26,742.0	750.6
1996	64	26,742.0	750.6
1997	64	26,742.0	750.6
1998	65	26,762.0	750.6
1999	65	26,762.0	750.6
2000	65	26,762.0	750.6
2001	66	31,444.0	750.6
2002	67	31,764.0	750.6
2003	68	31,788.0	750.6
2004	69	31,788.0	750.6
2005	70	32,550.0	750.6
2006	70	32,550.0	750.6
2007	71	33,654.0	750.6
2008	71	33,555.0	745.6
2009	69	33,522.0	712.6
2010	69	33,522.0	712.6
2011	69	33,522.0	712.6
2012	69	33,522.0	712.6
2013	69	33,522.0	712.6
2014	65	32,896.0	707.6
2015	65	32,883.0	707.6
2016	67	32,890.0	707.6
2017	63	33,467.6	725.2
ISLAND: 2017			
Hawaii	16	7,371.6	249.9
Maui	9	326.5	37.9
Molokai	1	233.7	10.0
Oahu	27	11,271.2	296.8
Kauai	10	14,264.6	130.6

1/ In 1992, 9 areas were transferred to the neighbor island counties and 5 were transferred to the City and County of Honolulu. A Big Island park was transferred to the State park system from Hawaii County and one from the City and County of Honolulu.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, records.

Table 7.43-- MAJOR STATE PARKS: 2015 TO 2017

[Parks having at least 1,000 acres]

Park	Acreage, June 30	
	Total	Developed
2015		
Napali Coast State Wilderness Park	6,175.0	4.0
Ahupuaa O Kahana State Park	5,249.0	26.0
Kokee State Park	4,345.0	55.0
Waimea Canyon State Park	1,837.4	10.0
Kekaha Kai State Park	1,745.5	5.0
Wailua River State Park	1,466.3	37.4
2016		
Napali Coast State Wilderness Park	6,175.0	4.0
Ahupuaa O Kahana State Park	5,249.0	26.0
Kokee State Park	4,345.0	55.0
Waimea Canyon State Park	1,837.4	10.0
Kekaha Kai State Park	1,745.5	5.0
Wailua River State Park	1,092.6	37.4
2017		
Napali Coast State Wilderness Park	6,175.0	4.0
Ahupuaa O Kahana State Park	5,249.0	26.0
Kokee State Park	4,345.0	55.0
Waimea Canyon State Park	1,837.4	10.0
Kekaha Kai State Park	1,745.5	5.0
Wailua River State Park	1,466.3	37.4

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, records.

Table 7.44-- NATIONAL AND STATE HISTORIC SITES, STATE TOTAL AND BY ISLAND: 2016 AND 2017

[As of July 1. Categories are not exclusive. A site may be listed on both Hawaii Register and National Register]

State and island	2016		2017		
	Listed Hawaii Register	Listed National Register	Listed Hawaii Register	Nominated Hawaii Register	Listed National Register
State total	910	348	939	19	352
Hawaii	156	80	165	-	80
Kahoolawe	1	-	1	-	-
Kauai	76	38	77	1	38
Maui	75	68	75	-	68
Molokai	101	1	101	-	1
Northwestern Hawaiian Islands	-	-	1	-	1
Oahu	501	161	519	18	164

Source: Hawaii State Department of Land and Natural Resources, State Historic Preservation Division, "Nominated and Listed Properties on the Hawaii and National Registers of Historic Places" (July 11, 2017) <<https://dlnr.hawaii.gov/shpd/files/2015/05/HistoricRegister.Updated-7-11-2017.xls>> accessed July 14, 2017, and records.

Table 7.45-- ZOOS: 2010 TO 2017

Subject and Zoo	2010	2011	2012	2013	2014	2015	2016	2017
Species 1/ 2/ Honolulu Zoo	207	204	204	208	205	203	200	193
Panaewa Rainforest Zoo and Gardens (Hilo)	98	92	93	93	87	87	91	87
Individuals 1/ 2/ Honolulu Zoo	808	852	857	886	890	869	913	813
Panaewa Rainforest Zoo and Gardens (Hilo)	194	195	201	192	180	180	195	179
Attendance 3/ Honolulu Zoo	580,265	603,677	667,981	663,699	606,566	592,780	564,114	560,479
Panaewa Rainforest Zoo and Gardens (Hilo)	172,737	172,677	213,537	244,533	220,323	214,249	251,436	262,275

1/ Animal and bird inventory, December 31.

2/ Species and individuals that are owned and on-site including on loan.

3/ Fiscal year ending June 30.

Source: City and County of Honolulu, Department of Enterprise Services, Honolulu Zoo and County of Hawaii, Department of Parks and Recreation, records.

Table 7.46-- AQUATIC COLLECTIONS: 2017

[As of June 30. For annual attendance, see table 7.40]

Phylum or class	Sea Life Park		Waikiki Aquarium	
	Species	Individuals	Species	Individuals
Total	85	676	369	2,235
Fishes	31	475	168	1,065
Reptiles	1	47	-	-
Mammals	5	24	1	2
Invertebrates	38	112	200	1,168
Birds	10	18	-	-

Source: Sea Life Park, records; and Waikiki Aquarium, records.

Table 7.47-- COUNTY PARKS, BY ISLAND: 2015 TO 2017

[As of December 31]

Island	Number			Acreage		
	2015	2016	2017	2015	2016	2017
State total	712	717	730	10,697	11,039	11,166
Hawaii	206	209	209	2,869	2,906	2,906
Maui	129	132	133	2,074	2,389	2,403
Lanai	5	5	5	24	24	24
Molokai	12	12	12	79	79	79
Oahu	286	285	297	5,164	5,154	5,267
Kauai	74	74	74	487	487	487

Source: County parks and recreation departments.

Table 7.48-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 2017

Beach park	Estimated attendance 1/	Rescues	Drownings	Surfing accidents
All parks	23,866,335	3,340	16	92
Ala Moana	3,403,274	66	-	1
Alii/Haleiwa	470,010	106	-	5
Bellows	97,758	16	-	-
Chuns Reef	325,556	140	-	17
Ehukai	588,817	133	-	3
Hanauma	1,569,756	978	9	-
Kailua	799,199	21	-	-
Keauwaula	348,204	14	-	-
KeWaena	356,778	45	-	1
Kualoa	239,616	29	-	-
Laniakea	385,961	104	-	10
Mali	564,909	40	-	-
Makaha	577,923	32	1	-
Makapuu	191,251	195	-	1
Nanakuli	480,865	235	-	-
Pokai Bay	284,367	14	-	-
Sandy	531,672	492	1	11
Sunset	428,817	48	-	3
Waikiki	10,968,557	376	4	30
Waimanalo	627,562	145	1	-
Waimea	625,483	111	-	10

1/ Attendance is based on headcounts taken 3 times by Water Safety Officers over an 8-hour work day.

Source: City and County of Honolulu, Emergency Services Department, Ocean Safety & Lifeguard Services Division, records.

Table 7.49-- SWIMMING AND SURFING SITES, BY ISLAND

Subject	State total 1/	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Miles of sandy shoreline 2/	184.9	19.4	32.6	18.2	23.2	50.3	41.2
Primary 3/	24.4	1.2	7.9	-	-	12.5	2.8
Other	160.5	18.2	24.7	18.2	23.2	37.8	38.4
Number of surfing sites 4/	1,600	185	212	99	180	594	330

1/ Excludes Kahoolawe.

2/ Surveyed in 1962.

3/ Safe, clean, accessible, and generally suitable for swimming.

4/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Shoreline* (1965), p.7; and Surfing Education Association, *The 1971 Statewide Surfing Site Survey*, Vol. 1, p. 93.

Table 7.50-- COUNTY TENNIS FACILITIES: 2001 TO 2017

[As of December 31]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Locations							
2001	88	19	12	2	1	45	9
2002	88	19	12	2	1	45	9
2003	91	19	12	2	1	48	9
2004	91	19	12	2	1	48	9
2005	91	19	12	2	1	48	9
2006	91	19	13	2	1	47	9
2007	91	19	13	2	1	47	9
2008	91	19	13	2	1	47	9
2009	92	19	13	2	1	48	9
2010	93	19	13	2	1	48	10
2011	93	19	13	2	1	48	10
2012	94	19	13	2	1	49	10
2013	95	19	13	2	1	50	10
2014	95	19	13	2	1	50	10
2015	96	19	13	2	1	51	10
2016	96	19	13	2	1	51	10
2017	96	19	13	2	1	51	10
Courts							
2001	289	43	39	4	2	179	22
2002	289	43	39	4	2	179	22
2003	309	43	39	4	2	199	22
2004	309	43	39	4	2	199	22
2005	309	43	39	4	2	199	22
2006	310	43	39	4	2	200	22
2007	310	43	39	4	2	200	22
2008	314	43	43	4	2	200	22
2009	318	43	46	4	2	201	22
2010	323	43	49	4	2	201	24
2011	323	43	49	4	2	201	24
2012	326	42	49	4	2	205	24
2013	326	42	47	4	2	207	24
2014	325	42	46	4	2	207	24
2015	326	42	46	4	2	208	24
2016	328	44	46	4	2	208	24
2017	328	44	46	4	2	208	24

Source: County parks and recreation departments.

Table 7.51-- GOLF COURSES, BY NUMBER OF HOLES, TYPE, AND ISLAND: 2018

Island and course type 1/	Number of golf courses					Number of holes
	Total	9-hole	18-hole	27-hole	36-hole	
State total	87	9	74	3	1	1,530
Military	7	1	6	-	-	117
Municipal	9	1	8	-	-	153
Private	17	3	14	-	-	279
Public	54	4	46	3	1	981
Hawaii	19	2	16	-	1	342
Municipal	1	-	1	-	-	18
Private	7	1	6	-	-	117
Public	11	1	9	-	1	207
Maui	16	1	15	-	-	279
Municipal	1	-	1	-	-	18
Private	3	1	2	-	-	45
Public	12	-	12	-	-	216
Lanai	3	1	2	-	-	45
Public 2/	3	1	2	-	-	45
Molokai	1	1	-	-	-	9
Public	1	1	-	-	-	9
Oahu	38	3	34	1	-	666
Military	7	1	6	-	-	117
Municipal	6	1	5	-	-	99
Private	6	1	5	-	-	99
Public	19	-	18	1	-	351
Kauai	10	1	7	2	-	189
Municipal	1	-	1	-	-	18
Private	1	-	1	-	-	18
Public	8	1	5	2	-	153

1/ Course type 'Private' includes Semi-Private and Private-Resort, and 'Public' includes Resort.

2/ Includes Keole Golf Course currently closed for renovations.

Source: Hawaii State Golf Association <<http://www.hawaiiistategolf.org/>> accessed May 4, 2018, and calculations by Hawaii State Department of Business, Economic Development and Tourism.

Table 7.52-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1991 TO 2017

Year	Public golf courses 1/			Camping permits issued 2/
	Courses	Holes	Rounds played	
1991	5	81	580,888	9,633
1992	5	81	654,726	9,938
1993	5	81	638,972	10,251
1994	5	81	580,120	8,778
1995	6	99	650,934	10,514
1996	6	99	685,191	10,622
1997	6	99	686,188	15,804
1998	6	99	747,379	16,929
1999	(NA)	(NA)	(NA)	16,884
2000	6	99	663,710	16,947
2001	6	99	638,817	16,375
2002	6	99	607,823	12,045
2003	6	99	602,123	12,045
2004	6	99	560,921	11,128
2005	6	99	530,606	14,847
2006	6	99	538,051	9,179
2007	6	99	556,197	8,469
2008	6	99	578,082	7,622
2009	6	99	563,589	7,636
2010	6	99	534,508	8,815
2011	6	99	465,472	8,960
2012	6	99	464,708	10,773
2013	6	99	442,362	8,460
2014	6	99	416,356	8,599
2015	6	99	400,869	7,461
2016	6	99	375,710	7,548
2017	6	99	371,744	9,809

NA Not available.

1/ County public golf courses are categorized as Municipal golf courses in Table 7.51.

2/ By the City and County of Honolulu, camping permits issued reflect cumulative family and group camping permits.

Source: City and County of Honolulu, Department of Parks and Recreation, records and Department of Enterprise Services, records.

Table 7.53-- SONY OPEN SCORES AND PURSES: 1992 TO 2018

[The Sony Open is held at the Waialae Country Club golf course. Distance is 7,044 yards par is 70/280. Distance changed from 7,060 yards in 2007. Up until 1998, event known as the Hawaiian Open, which was held at the Waialae Country Club golf course. Distance was 6,975 yards; par was 72/288]

Year	Holes	Winning score		Purse (dollars)	
		Total	Below par	Total	Winner
1992	72	265	23	1,200,000	216,000
1993	72	269	19	1,200,000	216,000
1994	72	269	19	1,200,000	216,000
1995	72	269	19	1,200,000	216,000
1996	72	277	11	1,200,000	216,000
1997	72	271	17	1,200,000	216,000
1998	72	260	28	1,800,000	324,000
1999	72	271	9	2,600,000	468,000
2000	72	261	19	2,900,000	522,000
2001	72	260	20	4,000,000	720,000
2002	72	266	14	4,000,000	720,000
2003	72	264	16	4,500,000	810,000
2004	72	262	18	4,800,000	864,000
2005	72	269	11	4,800,000	864,000
2006	72	261	19	5,100,000	918,000
2007	72	266	14	5,200,000	936,000
2008	72	266	14	5,300,000	954,000
2009	72	265	15	5,400,000	972,000
2010	72	265	15	5,500,000	990,000
2011	72	264	16	5,500,000	990,000
2012	72	267	13	5,500,000	990,000
2013	72	256	24	5,500,000	990,000
2014	72	263	17	5,600,000	1,008,000
2015	72	257	23	5,600,000	1,008,000
2016	72	260	20	5,800,000	1,044,000
2017	72	253	27	6,000,000	1,080,000
2018	1/ 72	263	17	6,200,000	1,116,000

1/ An additional 6 holes were played in a Sudden Death Playoff.

Source: *Honolulu Star-Bulletin*, *The Honolulu Advertiser*, and *The Honolulu Star-Advertiser*; ESPN Golf Leaderboard, Sony Open in Hawaii <<https://www.golfchannel.com/tours/pga-tour/2018/sony-open-hawaii/>> accessed May 4, 2018.

Table 7.54-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLAND: OCTOBER 30, 2017

Island	Public hunting areas		Other wildlife sanctuaries and refuges 1/	
	Number	Acreage (1,000) 2/	Number	Acreage (1,000)
State total	122	939.1	50	40.0
Hawaii	62	686.0	5	28.0
Maui	18	68.0	12	0.3
Lanai	3	33.0	4	(3/)
Molokai	5	13.5	6	(3/)
Oahu	14	25.0	19	1.4
Kauai	20	113.6	4	10.3

1/ State managed sanctuaries, refuges and preserves.

2/ In previous *Data Book*, public hunting areas inadvertently reported in acres but labeled as '1,000 acres.'

3/ Less than 50 acres.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 7.55-- FISHING AND HUNTING LICENSES ISSUED: 2009 TO 2017

[Fiscal years ending June 30]

Year	Freshwater fishing licenses	Hunting licenses
2009	8,279	9,653
2010	5,678	10,427
2011	2,688	10,535
2012	2,759	10,738
2013	1,177	9,476
2014	4,648	10,673
2015	3,552	11,958
2016	4,707	11,929
2017	4,687	11,813

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources and Division of Forestry and Wildlife, records.

Table 7.56-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1992 TO 2017

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1992	30,905	23,515	2:14:19	2:32:13
1993	29,514	23,640	2:13:16	2:32:20
1994	32,771	25,833	2:15:04	2:37:06
1995	34,434	27,022	2:16:08	2:37:29
1996	30,864	24,414	2:13:23	2:34:28
1997	33,682	26,495	2:12:17	2:33:14
1998	27,704	22,112	2:14:53	2:33:27
1999	26,724	21,211	2:16:45	2:32:36
2000	26,465	22,636	2:15:19	2:28:33
2001	23,513	19,236	2:15:09	2:29:54
2002	30,428	26,477	2:12:29	2:29:08
2003	25,283	22,161	2:12:59	2:31:56
2004	25,671	22,407	2:11:12	2:27:33
2005	28,048	24,295	2:12:00	2:30:24
2006	28,637	24,575	2:13:42	2:27:19
2007	27,829	23,299	2:18:53	2:33:07
2008	23,231	20,062	2:14:35	2:32:36
2009	23,469	20,323	2:12:14	2:28:34
2010	20,417	20,181	2:15:18	2:32:13
2011	22,615	19,078	2:14:55	2:31:41
2012	24,413	24,156	2:12:31	2:31:23
2013	30,291	22,077	2:18:47	2:36:02
2014	30,434	21,827	2:15:35	2:30:23
2015	30,797	21,563	2:11:43	2:28:34
2016	28,664	20,235	2:09:37	2:31:10
2017	26,345	20,390	2:08:27	2:22:15

Source: Honolulu Marathon Association, records; Honolulu Marathon Champions & Entrants/Finishers <<http://www.honolulumarathon.org/?s=stats>> accessed May 12, 2017 and records.

Table 7.57-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP PARTICIPANTS, FINISHERS AND WINNING TIMES: 1992 TO 2017

Year	Number of participants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1992	1,379	1,298	8:09:08	8:55:29
1993	1,438	1,353	8:07:45	8:58:23
1994	1,405	1,290	8:20:27	9:20:14
1995	1,444	1,325	8:20:34	9:16:46
1996	1,421	1,288	8:04:08	9:06:49
1997	1,478	1,365	8:33:01	9:31:43
1998	1,487	1,379	8:24:20	9:24:16
1999	1,463	1,411	8:17:17	9:13:02
2000	1,525	1,426	8:21:01	9:26:17
2001	1,468	1,368	8:31:18	9:28:37
2002	1,541	1,455	8:29:56	9:07:54
2003	1,645	1,569	8:22:35	9:11:55
2004	1,728	1,579	8:33:29	9:33:25
2005	1,743	1,688	8:14:17	9:09:30
2006	1,689	1,624	8:11:56	9:18:31
2007	1,787	1,685	8:15:34	9:08:45
2008	1,731	1,634	8:17:45	9:06:23
2009	1,778	1,650	8:20:21	8:54:02
2010	1,849	1,770	8:10:37	8:58:36
2011	1,859	1,773	8:03:56	8:55:08
2012	1,984	1,886	8:18:37	9:15:54
2013	2,134	1,959	8:12:29	8:52:14
2014	2,187	1,985	8:14:18	9:00:55
2015	2,308	2,144	8:14:40	8:57:57
2016	2,316	2,207	8:06:30	8:46:46
2017	2,455	2,235	8:01:40	8:50:47

Source: Ironman Triathlon World Championship, records; 1995-1998 race results from JTL Timing Systems Hawaii at <<http://www.ironmantri.com>>; 1999-2009 race results from <<http://www.ironmanlive.com>>; 2010-2017 <<http://www.ironman.com/triathlon/events/americas/ironman/world-championship/results.aspx#axzz5Eb18tzPL>> accessed on May 4, 2018.

Table 7.58-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND WINNING TIMES: 1985 TO 2017

[Sponsored by the Transpacific Yacht Club of Los Angeles. Run biennially between San Pedro, California and Diamond Head Lighthouse, a great circle distance of 2,255 nautical miles]

Year	Boats entered	Winning times (days, hours, minutes, seconds)	
		Elapsed	Corrected
1985	65	13:06:31:19	9:14:07:40
1987	55	8:12:00:40	8:00:56:41
1989	45	8:12:50:35	8:02:54:08
1991	42	10:08:59:35	9:22:34:13
1993	42	9:09:11:17	8:28:09:06
1995	35	9:01:32:02	8:22:41:48
1997	39	8:06:31:00	7:01:46:11
1999	33	8:02:52:27	7:08:40:10
2001	34	10:17:49:19	8:01:01:08
2003	57	8:17:01:25	7:12:20:29
2005	76	8:16:25:04	6:08:45:05
2007	73	10:11:51:35	6:14:39:33
2009	86	7:08:17:11	5:07:52:20
2011	64	8:16:59:23	6:05:00:55
2013	58	12:05:23:18	5:12:20:55
2015	60	8:15:56:16	5:15:47:00
2017	49	7:01:20:10	8:03:01:28

Source: Transpac website <<http://www.transpacrace.com>> accessed May 17, 2018.

**Table 7.59-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:
2009-2010 TO 2017-2018 SEASONS**

Bowl and season	Tickets sold	Turnstile count
Hawaii Bowl		
2009-2010	32,650	20,217
2010-2011	43,661	41,089
2011-2012	32,630	19,411
2012-2013	30,024	19,712
2013-2014	28,941	22,324
2014-2015	25,365	13,922
2015-2016	22,793	14,537
2016-2017	23,175	20,327
2017-2018	20,546	12,187
Pro Bowl		
2009-2010	1/ 70,697	(NA)
2010-2011	49,338	(NA)
2011-2012	48,423	(NA)
2012-2013	47,134	(NA)
2013-2014	47,270	(NA)
2014-2015	2/ 63,225	(NA)
2015-2016	50,000	(NA)
2016-2017	3/ 60,834	(NA)
2017-2018	3/ 51,019	(NA)

NA Not available.

1/ Held in Miami, FL.

2/ Held in Phoenix, AZ.

3/ Held in Orlando, FL.

Source: ESPN, "Hawai'i Bowl Summary" <<http://espnsponsorrecaps.com/events/hawaii-bowl>> accessed January 24, 2017; ESPN, "San Diego State beats Cincinnati 42-7 in Hawaii Bowl" <<http://www.espn.com/college-football/recap?gameId=400852714>> accessed January 24, 2017; Hawaii Athletics, "Hawai'i Bowl Post-Game Notes" <<http://hawaiiathletics.com/sports/2016/12/24/hawaii-bowl-post-game-notes.aspx>> accessed January 24, 2017; Sports Pool, "Pro Bowl Venues and Attendance" <http://www.sportspool.com/football/pro_bowl/venues.php> accessed January 24, 2017; ESPN, "NFL Scoreboard" <http://www.espn.com/nfl/scoreboard/_/year/2016/seasontype/3/week/4> accessed January 25, 2017; "2017 Hawai'i Bowl Post Game Notes" <<https://www.thehawaiibowl.com/2017-hawaii-bowl-post-game-notes/>> accessed May 17, 2018; ESPN, "Pro Bowl" <<http://www.espn.com/nfl/game?gameId=400999088>> accessed May 17, 2018; and Hawai'i Bowl records.

**Table 7.60-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF HAWAII
AT MANOA: 2013-2014 TO 2016-2017**

[Includes only games played against four-year collegiate teams]

Sports	Games played 1/				Home games	
	Total	Won	Lost	Tied	Home dates	Attendance
2013-2014						
Baseball	53	22	31	-	35	109,924
Basketball (men's)	31	20	11	-	19	121,915
Basketball (women's)	31	17	14	-	14	23,456
Football	12	1	11	-	6	185,931
Volleyball (men's)	27	15	12	-	15	44,342
Volleyball (women's)	30	25	5	-	19	144,235
2014-2015						
Baseball	53	21	32	-	30	97,979
Basketball (men's)	35	22	13	-	18	115,816
Basketball (women's)	32	23	9	-	17	34,766
Football	13	4	9	-	7	192,159
Volleyball (men's)	31	24	7	-	17	62,399
Volleyball (women's)	29	22	7	-	19	126,389
2015-2016						
Baseball	53	23	30	-	35	105,724
Basketball (men's)	34	28	6	-	20	141,637
Basketball (women's)	32	21	11	-	14	35,660
Football	13	3	10	-	7	164,031
Volleyball (men's)	28	16	12	-	17	61,180
Volleyball (women's)	31	29	2	-	19	131,187
2016-2017						
Baseball	51	28	23	-	35	105,743
Basketball (men's)	30	14	16	-	19	118,444
Basketball (women's)	30	12	18	-	16	60,432
Football	14	7	7	-	7	170,299
Volleyball (men's)	33	27	6	-	18	68,283
Volleyball (women's)	29	23	6	-	19	128,414

1/ Volleyball data refer to matches.

Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Media Relations, records.

See also <<http://www.ncaa.org/stats/>>.

**Table 7.61-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:
2009-2010 TO 2015-2016 SEASONS**

[Data are for Oahu only (OIA)]

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
2009-2010				
Baseball	Boys	(NA)	(NA)	42,917
Basketball	Boys and girls	505	18,255	157,027
Football	Boys	166	88,253	170,410
2010-2011				
Baseball	Boys	(NA)	(NA)	26,765
Basketball	Boys and girls	545	18,764	149,476
Football	Boys	162	83,530	165,566
2011-2012				
Baseball	Boys	(NA)	(NA)	27,500
Basketball	Boys and girls	524	28,383	131,945
Football	Boys	185	126,270	167,600
2012-2013				
Baseball	Boys	(NA)	(NA)	39,623
Basketball	Boys and girls	548	26,478	115,903
Football	Boys	185	119,320	208,820
2013-2014				
Baseball	Boys	(NA)	(NA)	34,325
Basketball	Boys and girls	526	27,663	117,430
Football	Boys	192	116,662	220,279
2014-2015				
Baseball	Boys	(NA)	(NA)	23,432
Basketball	Boys and girls	515	29,003	119,338
Football	Boys	193	118,528	237,173
2015-2016				
Baseball	Boys	(NA)	(NA)	25,917
Basketball	Boys and girls	582	27,515	121,588
Football	Boys	191	116,820	239,731

NA Not available.

1/ Junior varsity and varsity games, based on published schedules from public school leagues. Data exclude pre-season and post-season games.

2/ Data on expenditures reflect figures from the general and school trust funds.

Source: Hawaii State Department of Education, Office of Curriculum, Instruction and Student Support, records.

**Table 7.62-- PROFESSIONAL BOXING
AND MIXED MARTIAL ARTS: 1993 TO 2017**

Subject	Number of promoters	Number of shows	Paid attendance	Gross receipts (dollars)
Pro boxing				
1993	1	1	472	12,385
1994	3	6	8,022	191,150
1995	2	4	2,636	48,280
1996	3	3	2,653	64,781
1997	2	3	1,967	44,645
1998	2	3	2,059	52,510
1999	1	1	479	10,120
2000	3	5	3,106	77,155
2001	3	6	3,489	141,235
2002	3	3	4,477	106,295
2003	1	2	2,623	79,875
2004	1	-	-	-
2005	1	2	877	30,528
2006	-	-	-	-
2007	2	-	-	-
2008	2	3	450	16,000
2009	3	4	3,599	227,150
2010	2	1	(NA)	(NA)
2011	1	1	2,277	126,075
2012-2016 1/	-	-	-	-
2017	1	1	(NA)	(NA)
MMA				
2009	1	1	(NA)	(NA)
2010	7	17	(NA)	(NA)
2011	8	27	(NA)	(NA)
2012	9	24	(NA)	(NA)
2013	8	26	(NA)	(NA)
2014	7	23	(NA)	(NA)
2015	7	19	(NA)	(NA)
2016	9	20	(NA)	(NA)
2017	8	25	(NA)	(NA)

NA Not available.

1/ Pro boxing discontinued in 2011 and renewed in 2017.

Source: Hawaii State Department of Commerce and Consumer Affairs, Boxing Commission, records.

Table 7.63-- DOG LICENSES ISSUED, BY ISLAND: 1993 TO 2017

[Dogs are licensed on a biennial basis]

Year	State total	Hawaii	Maui 1/	Lanai	Molokai	Oahu	Kauai
1993	27,586	4,006	2,427	26	46	20,081	1,000
1994	29,010	4,099	3,171	26	57	19,485	2,172
1995	28,442	4,911	1,446	82	48	20,030	1,925
1996	30,376	5,381	699	32	58	21,245	2,961
1997	28,395	5,871	1,378	33	80	19,713	1,320
1998	28,645	5,777	649	35	83	19,861	2,240
1999	32,137	6,311	4,473	29	84	20,039	1,201
2000	31,147	5,627	4,587	57	25	20,066	785
2001	31,068	5,919	4,285	(NA)	(NA)	18,761	2,103
2002	30,909	6,809	4,420	50	30	17,752	1,848
2003	29,519	6,786	2,901	12	47	16,673	3,100
2004	50,180	8,085	3,977	25	30	2/ 36,121	1,942
2005	53,415	10,454	4,621	24	30	2/ 35,638	2,648
2006	50,440	8,836	4,282	17	27	2/ 35,163	2,115
2007	50,403	6,504	4,997	9	27	2/ 34,966	3,900
2008	50,919	6,186	7,009	16	32	2/ 35,129	2,547
2009	52,623	7,881	5,039	25	36	2/ 35,129	4,513
2010	51,072	7,353	4,683	65	61	2/ 34,797	4,113
2011	49,763	6,647	4,880	22	24	2/ 33,736	4,454
2012	(NA)	6,205	3/ 4,042	(NA)	(NA)	2/ 32,892	2,664
2013	42,904	2,167	3/ 3,978	54	26	32,970	4/ 3,709
2014	(NA)	6,504	3/ 4,034	(NA)	(NA)	32,474	1,595
2015	(NA)	4,609	3/ 3,701	(NA)	(NA)	30,983	3,345
2016	(NA)	8,203	3/ 3,520	(NA)	(NA)	30,560	5/ 1,370
2017	(NA)	7,804	(NA)	(NA)	(NA)	30,692	2,893

NA Not available.

1/ For the years 1995-1998, the number of registrations issued by the animal shelter (Maui Humane Society) was not included in the count. From year 2000 Maui County reported data in fiscal year, in 2001 Maui County reported 674 licenses which included Lanai and Molokai totals.

2/ Fiscal year ending June 30, figures are estimates.

3/ Figure includes only issued by Maui Humane Society.

4/ Figure includes only issued by Kauai County. As of October 1, 2013, the Kauai Humane Society began issuing dog tags.

5/ Revised from previous *Data Book*.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the county Departments of Finance; Hawaiian Humane Society (for Oahu, 1995-2003); Maui Humane Society (for Maui in 1999-2017); and Kauai Humane Society (for Kauai in 2014-2017).

Section 8

ELECTIONS

This section presents data on election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative activity.

The official results of the primary, general, and special elections are published by the Hawaii State Office of Elections. Additional information is often available from the various county clerks. Earlier figures for Hawaii appear in *Historical Statistics of Hawaii*, Section 24. National statistics appear in the *Statistical Abstract of the United States: 2012*, Section 7.

Table
Number **Table Name**

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Narrative

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**Table 8.01-- POPULATION OF VOTING AGE, REGISTERED VOTERS, AND
VOTES CAST IN GENERAL ELECTIONS: 2006 TO 2016**

Subject	2006	2008	2010	2012 1/	2014 1/	2016 1/
Voting age population (1,000) 2/	975	1,004	1,060	1,086	1,111	1,121
Registered voters (1,000)	663	691	691	706	707	750
Percent	68.0	68.8	65.4	65.0	63.6	66.9
Votes cast (1,000)	349	456	385	437	370	438
Percent	52.7	66.0	55.8	61.9	52.3	58.4

1/ Census Bureau Annual Estimate of selected age groups used for the resident voting age population.

2/ Resident population 18 years and over, including Armed Forces stationed in Hawaii, aliens, and institutional population. November estimates for 2006 and 2008; July estimates for others.

Source: U.S. Census Bureau, <<http://www.census.gov/population/www/socdemo/voting.html>>; U.S. Census Bureau, Population Division, "Annual Estimates of the Resident Population for Selected Age Groups by Sex for the United States, States, Counties, and Puerto Rico Commonwealth and Municipios: April 1, 2010 to July 1, 2015 - Hawaii" (PEPAGESEX) (June 2016) <<http://factfinder.census.gov>> accessed April 19, 2017; U.S. Census Bureau, Population Division, "Estimates of the Total Resident Population and Resident Population Age 18 Years and Older for the United States, States, and Puerto Rico: July 1, 2016" (December 2016) <<https://www.census.gov/data/datasets/2016/demo/popest/nation-detail.html>>; and State of Hawaii, Office of Elections, Registration & Turnout Statistics <<http://elections.hawaii.gov/resources/registration-voter-turnout-statistics/>> accessed March 10, 2017.

**Table 8.02-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND
GENERAL ELECTIONS, BY COUNTY: 2016**

Election, date and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of registered voters
PRIMARY ELECTION August 13, 2016					
State Total	726,940	346,603	380,337	252,725	34.8
Hawaii	109,690	52,154	57,536	40,928	37.3
Maui	91,138	43,228	47,910	26,993	29.6
Honolulu	483,076	230,606	252,470	169,531	35.1
Kauai	43,036	20,615	22,421	15,273	35.5
GENERAL ELECTION November 8, 2016					
State Total	749,917	357,498	392,419	437,664	58.4
Hawaii	113,083	53,762	59,321	66,021	58.4
Maui	93,912	44,514	49,398	52,972	56.4
Honolulu	498,590	238,047	260,543	291,446	58.5
Kauai	44,332	21,175	23,157	27,225	61.4

Source: State of Hawaii, Office of Elections, records.

Table 8.03-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS: 1984 TO 2016

Type and date of election	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of registered voters
PRIMARY ELECTIONS					
1984: Sept. 22	398,858	190,525	208,333	221,957	55.6
1986: Sept. 20	398,197	189,655	208,542	281,352	70.6
1988: Sept. 17 1/	419,441	199,440	220,001	275,673	65.7
1990: Sept. 22	436,323	207,897	228,426	276,407	63.3
1992: Sept. 19	432,723	206,642	226,081	251,576	58.1
1994: Sept. 17	468,739	225,986	242,753	309,700	66.1
1996: Sept. 21	531,892	257,616	274,276	275,548	51.8
1998: Sept. 19	582,558	282,773	299,785	291,069	50.0
2000: Sept. 23	629,162	306,090	323,072	250,848	39.9
2002: Sept. 21	667,679	324,162	343,517	274,517	41.1
2004: Sept. 18	626,120	301,268	324,852	248,731	39.7
2006: Sept. 23	655,741	315,410	340,331	277,251	42.3
2008: Sept. 20	667,647	319,910	347,737	246,299	36.9
2010: Sept. 18	684,481	327,545	356,936	293,016	42.8
2012: Aug. 11	687,500	328,447	359,053	290,766	42.3
2014: Aug. 9	697,033	332,447	364,586	289,398	41.5
2016: Aug. 13	726,940	346,603	380,337	252,725	34.8
GENERAL ELECTIONS					
1984: Nov. 6	418,904	200,424	218,480	349,253	83.3
1986: Nov. 4	419,794	200,233	219,561	344,387	82.0
1988: Nov. 8	443,742	211,539	232,203	368,567	83.0
1990: Nov. 6	453,389	216,433	236,956	354,144	78.1
1992: Nov. 3	464,495	222,721	241,774	382,882	82.4
1994: Nov. 8	488,889	236,251	252,638	377,011	77.1
1996: Nov. 5	544,916	264,084	280,832	370,230	67.9
1998: Nov. 3	601,404	292,307	309,097	412,520	68.6
2000: Nov. 7	637,349	309,709	327,640	371,033	58.2
2002: Nov. 5	676,242	328,310	347,932	385,462	57.0
2004: Nov. 2	647,238	311,309	335,929	431,662	66.7
2006: Nov. 7	662,728	318,816	343,912	348,988	52.7
2008: Nov. 4	691,356	331,115	360,241	456,064	66.0
2010: Nov. 2	690,748	330,551	360,197	385,464	55.8
2012: Nov. 6	705,668	336,938	368,730	437,159	61.9
2014: Nov. 4	706,890	337,293	369,597	369,642	52.3
2016: Nov. 8	749,917	357,498	392,419	437,664	58.4

1/ Distribution by gender as of September 1, 1988.

Source: State of Hawaii, Office of Elections, records.

**Table 8.04-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, AUGUST 13, 2016**

Office, party, and candidate	Votes 1/	Office, party, and candidate	Votes 1/
U.S. SENATOR		U.S. HOUSE, DISTRICT 2	
Democrat		Democrat	
Schatz, Brian	162,905	Gabbard, Tulsi	80,026
Christensen, Makani	11,899	Chan Hodges, Shay	14,643
Shiratori, Miles	8,620		
Reyes, Arturo	3,820	Republican	
Honeychurch, Tutz	1,815	Kaaihue, Angela Aulani	7,449
		Hafner, Eric	5,876
Republican		Nonpartisan	
Carroll, John	26,749	Turner, Richard L.	697
Roco, John P.	3,956		
Gottschalk, Karla (Bart)	3,045		
Pirkowski, Eddie	2,115	MAYOR, COUNTY OF HAWAII	
American Shopping		Kim, Harry	20,636
Giuffre, John M. (Raghu)	111	Lau, Wally	9,965
Constitution		Hoffmann, Peter S. (Pete)	4,235
Allison, Joy J.	217	Hapai, Marlene (Nachbar)	2,508
Libertarian		McCandless, Shannon K.K.	840
Kokoski, Michael A.	909	Ka'ehu'ae'a, Wendell	391
		Weinert, Eric, Jr. (Drake)	295
U.S. HOUSE, DISTRICT 1		Akina, Alvin A., Jr.	243
Democrat		Tamashiro, Gene	235
Hanabusa, Colleen Wakako	74,022	Luta, Helen O. (Ole)	203
Ahu Isa, Lei (Leinaala)	11,518	Waugh, Timothy R. (Timmy)	165
Kim, Howard	2,750	Bryant, Paul (Amaury)	134
Ocasio, Javier	1,117	Cunningham, Daniel H.	129
Puletasi, Sam	1,036		
Sharsh-Davis, Lei	915	MAYOR, CITY & COUNTY OF HONOLULU	
Tataii, Steve	737	Caldwell, Kirk	74,062
Republican		Djou, Charles K.	72,532
Ostrov, Shirlene D. (Shirl)	13,645	Carlisle, Peter B.	15,539
Nonpartisan		Hong, Lillian Lai Lam Wang	1,140
Griffin, Calvin (G)	552	Carvalho, Ernest	781
Libertarian		Hochuli, Ronald E.	635
Yim, Alan J.K.	446	Baker, Kurt	360
		Friedman, Lawrence (Larry)	346
		Powers, Mike	317
		Garry, Tim	210

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**Table 8.04-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, AUGUST 13, 2016 -- Con.**

Office, party, and candidate	Votes 1/	Office, party, and candidate	Votes 1/
MAYOR, CITY & COUNTY OF HONOLULU (Con.)			
Burd, Zachary B.	97		

1/ Excludes blank and overvotes.

Source: State of Hawaii, Office of Elections, records and <<http://hawaii.gov/elections/results>> accessed January 19, 2017.

**Table 8.05-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTIONS:
1988 TO 2016**

Year	Total party ballots cast	Democratic	Republican	Other parties 1/	Nonpartisan	Invalid, blank, multiparty
1988	275,673	221,340	50,924	563	1,340	1,180
1990	276,407	221,839	48,563	963	3,847	1,195
1992	251,576	194,945	49,379	4,290	1,815	1,147
1994	309,700	212,270	58,316	35,355	2,045	1,714
1996	275,548	213,512	54,644	3,273	2,443	1,676
1998	291,069	122,977	159,126	752	197	8,017
2000	250,848	177,269	61,178	2,987	72	9,342
2002	274,517	188,781	79,871	1,392	322	4,151
2004	248,731	176,453	60,222	928	1,567	9,561
2006	281,924	238,040	32,698	5,727	228	5,231
2008	246,299	194,605	42,499	7,120	2,075	250
2010	293,016	240,120	45,733	5,590	1,305	268
2012	290,766	237,036	49,044	2,531	1,944	211
2014	289,398	237,915	44,142	5,955	1,115	271
2016	252,725	202,283	43,365	1,938	2,338	190

1/ Includes special and overseas votes.

Source: State of Hawaii, Office of Elections, records.

**Table 8.06-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTION,
BY COUNTY: AUGUST 13, 2016**

Party	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
Total votes cast 1/	250,114	40,588	26,779	167,601	15,146
Libertarian	1,021	193	123	663	42
Green	523	117	114	267	25
Democratic	202,283	34,905	23,332	130,704	13,342
Nonpartisan	2,338	546	244	1,422	126
Republican	43,365	4,720	2,908	34,163	1,574
American Shopping	149	18	9	113	9
Constitution	245	53	30	143	19
Invalid, blank, multiparty	190	36	19	126	9

1/ Exclude special and overseas votes.

Source: State of Hawaii, Office of Elections, records.

Table 8.07-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES CAST IN GENERAL ELECTION, BY ISLAND: NOVEMBER 8, 2016

Island	Number of precincts	Registered voters	Votes cast 1/	Percent voting
State total	233	749,917	203,328	27.1
Hawaii	42	113,083	26,470	23.4
Maui	29	87,744	24,775	28.2
Lanai	1	1,782	594	33.3
Molokai: Molokai District	4	4,352	1,127	25.9
Kalawao District (Kalaupapa)	1	34	-	0.0
Oahu 2/	142	498,590	138,358	27.7
Kauai	15	44,249	12,004	27.1
Niihau	1	83	-	0.0

1/ Election day precinct turnout; does not include absentee mail-in and absentee walk-in voting figures.

2/ Includes the Northwestern Hawaiian Islands as part of the 51st Representative District.

Source: State of Hawaii, Office of Elections, records.

**Table 8.08-- AGE AND SEX OF REGISTERED VOTERS IN
GENERAL ELECTION: NOVEMBER 8, 2016**

Age	Both sexes	Male	Female
All ages (except 16 or 17 years)	749,917	357,498	392,419
16 or 17 years 1/	1,361	638	723
18 or 19 years	10,446	4,797	5,649
20 to 29 years	97,326	44,807	52,519
30 to 39 years	120,714	57,825	62,889
40 to 49 years	116,396	57,204	59,192
50 to 64 years	209,286	101,822	107,464
65 years and over	195,749	91,043	104,706

1/ These registered individuals will become eligible to vote upon their 18th birthday.
Source: State of Hawaii, Office of Elections, records.

**Table 8.09-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1988 TO 2016**

Office and election year	Total votes cast 1/	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1988	354,461	Dukakis, M.	192,364	Bush G.	158,625	3,472
1992	372,842	Clinton, W.	179,310	Bush, G.	136,822	56,710
1996	360,120	Clinton, W.	205,012	Dole, R.	113,943	41,165
2000	367,951	Gore, A.	205,286	Bush, G.W.	137,845	24,820
2004	429,013	Kerry, J.F.	231,708	Bush, G.W.	194,191	3,114
2008	453,568	Obama, B.	325,871	McCain, J.	120,566	7,131
2012	434,697	Obama, B.	306,658	Romney, M	121,015	7,024
2016	428,937	Clinton, H.	266,891	Trump, D.	128,847	33,199
U.S. SENATOR						
1988	323,876	Matsunaga, S.	247,941	Hustace, M.	66,987	8,948
1990	349,666	Akaka, D. 2/	188,901	Saiki, P.	155,978	4,787
1992	363,662	Inouye, D.	208,266	Reed, R.	97,928	57,468
1994	356,902	Akaka, D.	256,189	Hustace, M.	86,320	14,393
1998	398,124	Inouye, D.	315,252	Young, C.	70,964	11,908
2000	345,623	Akaka, D.	251,215	Carroll, J.	84,701	9,707
2004	415,347	Inouye, D.	313,629	Cavasso, C.	87,172	14,546
2006	342,842	Akaka, D.	210,330	Thielen, C.	126,097	6,415
2010	370,583	Inouye, D.	277,228	Cavasso, C.	79,939	13,416
2012	430,483	Hirono, M.	269,489	Lingle, L.	160,994	-
2014	353,774	Schatz, B. 3/	246,827	Cavasso, C.	98,006	8,941
2016	416,562	Schatz, B.	306,604	Carroll, J.	92,653	17,305
U.S. REPRESENTATIVE, DISTRICT 1						
1988	177,020	Bitterman, M.	76,394	Saiki, P.	96,848	3,778
1990	162,711	Abercrombie, N.	97,622	Liu, M.	62,982	2,107
1992	177,476	Abercrombie, N.	129,332	Sutton, W.	41,575	6,569
1994	176,706	Abercrombie, N.	94,754	Swindle, O.	76,623	5,329
1996	172,206	Abercrombie, N.	86,732	Swindle, O.	80,053	5,421
1998	189,571	Abercrombie, N.	116,693	Ward, G.	68,905	3,973
2000	157,194	Abercrombie, N.	108,517	Meyers, P.	44,989	3,688
2002	180,733	Abercrombie, N.	131,673	Terry, M.	45,032	4,028
2004	204,181	Abercrombie, N.	128,567	Tanonaka, D.	69,371	6,243

Continued on next page.

**Table 8.09-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1988 TO 2016 -- Con.**

Office and election year	Total votes cast 1/	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
U.S. REPRESENTATIVE, DISTRICT 1						
2006	162,794	Abercrombie, N.	112,904	Hough, R.	49,890	-
2008	199,917	Abercrombie, N.	154,208	Tataii, S.	38,115	7,594
2010	176,863	Hanubusa, C.	94,140	Djou, C.	82,723	-
2012	213,329	Hanubusa, C.	116,505	Djou, C.	96,824	-
2014	179,844	Takai, M.	93,390	Djou, C.	86,454	-
2016	202,357	Hanabusa, C. 4/	145,417	Ostrov, S.	45,958	10,982
U.S. REPRESENTATIVE, DISTRICT 2						
1988	162,808	Akaka, D.	144,802	None	-	18,006
1990	178,288	Mink, P.	118,155	Poepoe, A.	54,625	5,508
1992	180,955	Mink, P.	131,454	Price, K.	40,070	9,431
1994	177,396	Mink, P.	124,431	Garner, R.	42,891	10,074
1996	180,963	Mink, P.	109,178	Pico, T.	55,729	16,056
1998	207,871	Mink, P.	144,254	Douglass, C.	50,423	13,194
2000	183,230	Mink, P.	112,856	Francis, R.	65,906	4,468
2002	179,251	Mink, P. 5/	100,671	McDermott, B.	71,661	6,919
2004	212,389	Case, E.	133,317	Gabbard, M.	79,072	-
2006	175,150	Hirono, M.	106,906	Hogue, B.	68,244	-
2008	217,914	Hirono, M.	165,748	Evans, R.	44,425	7,741
2010	183,258	Hirono, M.	132,290	Willoughby, J.	46,404	4,564
2012	209,210	Gabbard, T.	168,503	Crowley, K.	40,707	-
2014	180,333	Gabbard, T.	142,010	Crowley, K.	33,630	4,693
2016	210,516	Gabbard, T.	170,848	Kaaihue A.	39,668	-
GOVERNOR						
1990	340,132	Waihee, J.	203,491	Hemmings, F.	131,310	5,331
1994	369,013	Cayetano, B.	134,978	Saiki, P.	107,908	6/ 126,127
1998	407,556	Cayetano, B.	204,206	Lingle, L.	198,952	4,398
2002	382,110	Hirono, M.	179,647	Lingle, L.	197,009	5,454
2006	344,315	Iwase, R.	121,717	Lingle, L.	215,313	7,285
2010	382,563	Abercrombie, N.	222,724	Aiona, D.	157,311	2,528
2014	366,210	Ige, D.	181,106	Aiona, D.	135,775	49,329

Continued on next page.

**Table 8.09-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1988 TO 2016 -- Con.**

1/ Excludes over votes and blank votes.

2/ D. Akaka was appointed by the Governor to fill the seat made vacant by the death of S. Matsunaga. He was sworn in on May 16, 1990 and elected on Nov. 8, 1990.

3/ Due to D. Inouye's death on December 17, 2012, a special election was held August 9, 2014 to fill his existing term. B. Shatz (D) won with 246,827 votes.

4/ Due to M. Takai's death on July 20, 2016, a special election was held during the general election on November 8, 2016 to fill his existing term until January 3, 2017. votes. C. Hanabusa (D) won with 129,083 votes. C. Hanabusa (D) also won the general election for the next full term with 145,417 votes.

5/ Due to P. Mink's death on September 28, 2002, a special election was held on November 30, 2002 to fill her existing term. E. Case (D) won with 23,576 votes. A special election for the next full term was held on January 4, 2003. E. Case (D) won with 33,002 votes.

6/ 113,158 votes for F. Fasi (Best) and 12,969 votes for K. Dudley (Green).

Source: State of Hawaii, Office of Elections, records and <<http://elections.hawaii.gov/election-results/>> accessed January 31, 2017; calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 8.10-- VOTES CAST FOR THE OFFICE OF MAYOR:
GENERAL ELECTIONS, 1994 TO 2016**

Election year	Total votes cast 1/	Top candidates				Other candidates: votes
		Winner		Runner-up		
		Candidate 2/	Votes	Candidate 2/	Votes	
CITY & COUNTY OF HONOLULU						
1994 3/						
1996 4/	254,780	Harris, J.	146,034	Morgado, A.	108,746	-
2000 5/						
2004 4/	294,544	Hannemann, M.	147,949	Bainum, D.	146,595	-
2008 4/	298,795	Hannemann, M.	172,997	Kobayashi, A.	125,798	-
2010 6/						
2012 4/	292,454	Caldwell, K.	157,714	Cayetano, B.	134,740	-
2016 4/	283,651	Caldwell, K.	147,941	Djou, C. K.	135,710	-
COUNTY OF HAWAII						
1996	48,974	Yamashiro, S.(D)	19,807	Bonk, K. (G)	16,659	12,508
2000	50,282	Kim, H. (R)	25,289	Holschuh, F.(D)	14,989	10,004
2004 7/						
2008 4/	64,878	Kenoi, B.	37,368	Pilago, K. A.	27,510	-
2012 4/	62,174	Kenoi, B.	31,806	Kim, H.	30,368	-
2016 8/						
COUNTY OF MAUI						
1994	35,373	Lingle, L. (R)	18,188	Hokama, G.(D)	15,304	1,881
1998	42,451	Apana, J. (D)	22,350	Arakawa, A.(R)	20,101	-
2002	40,671	Arakawa, A. (R)	20,887	Apana, J. (D)	19,784	-
2006	38,179	Tavares, C.	19,964	Arakawa, A.(R)	18,215	-
2010 4/	41,139	Arakawa, A.	24,195	Tavares, C.	16,944	-
2014 4/	43,597	Arakawa, A.	25,435	Paltin, T.	18,162	-

Continued on next page.

**Table 8.10-- VOTES CAST FOR THE OFFICE OF MAYOR:
GENERAL ELECTIONS, 1994 TO 2016 -- Con.**

Election year	Total votes cast 1/	Top candidates				Other candidates: votes
		Winner		Runner-up		
		Candidate 2/	Votes	Candidate 2/	Votes	
COUNTY OF KAUAI						
1994	21,309	Kusaka, M. (R)	11,321	Tehada, J. (D)	9,988	-
1998	23,679	Kusaka, M. (R)	14,115	Thronas, M. (D)	9,564	-
2002 4/	22,691	Baptiste, B.	12,174	Kouchi, R.	10,517	-
2006 9/						
2008 4/	26,556	Carvalho, B.	15,861	Yukimura, J	10,695	-
2010 4/	21,422	Carvalho, B.	17,744	LaBedz, D.	3,678	-
2014 4/	22,883	Carvalho, B.	14,688	Barca, D.	8,195	-

1/ Excludes over votes and blank votes.

2/ D, Democrat; G, Green; R, Republican.

3/ In 1994, Mayor Fasi resigned to run for governor, creating the need for a special election to choose his successor. This special election was held in conjunction with the 1994 primary election, with all 14 candidates running on a nonpartisan, winner-take-all basis. J. Harris, A. Morgado and other candidates received 67,670, 58,018 and 87,928 votes, respectively.

4/ Nonpartisan election.

5/ In the nonpartisan primary election, Jeremy Harris won with over 50% of the votes, therefore, a runoff in the general election was not necessary. J. Harris, M. Hannemann and F. Fasi received 94,067, 65,652 and 23,293 votes, respectively.

6/ In 2010, Mayor Hannemann resigned to run for governor, creating the need for a special election to choose his successor. This special election was held in conjunction with the 2010 primary election, with all 8 candidates running on a nonpartisan, winner-take-all basis. P. Carlisle, K. Caldwell and other candidates received 80,553, 71,815 and 43,851 votes, respectively.

7/ Contest was decided in the Primary Election, Harry Kim won with 20,521 votes.

8/ Contest was decided in the Primary Election, Harry Kim won with 20,636 votes.

9/ Contest was decided in the Primary Election, Bryan Baptiste won with 8,173 votes.

Source: State of Hawaii, Office of Elections, records and <<http://hawaii.gov/elections/results>> accessed January 20, 2017.

**Table 8.11-- VOTES CAST FOR MAJOR OFFICES, BY COUNTY:
GENERAL ELECTION, NOVEMBER 8, 2016**

[Excludes blank and overvotes]

Office, candidate and party 1/	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
PRESIDENT				
Clinton, Hilary (D)	41,259	33,480	175,696	16,456
Trump, Donald J. (R)	17,501	13,446	90,326	7,574
Stein, Jill (G)	2,852	2,390	6,476	1,019
Johnson, Gary (L)	2,470	2,035	10,467	982
Castle, Darrell L. (C)	785	594	2,825	304
U.S. SENATOR				
Schatz, Brian (D)	47,003	37,214	203,372	19,015
Carroll, John (R)	12,766	10,203	64,939	4,745
Allison, Joy J. (C)	1,695	1,302	5,402	704
Kokoski, Michael A. (L)	1,276	1,008	4,072	453
Giuffre, John M. (A)	275	188	871	59
U.S. HOUSE, DISTRICT 1				
Hanabusa, Colleen Wakako (D) 2/	(X)	(X)	145,417	(X)
Ostrov, Shirlene D. (R)	(X)	(X)	45,958	(X)
Yim, Alan J.K. (L)	(X)	(X)	6,601	(X)
Griffin, Calvin (G)	(X)	(X)	4,381	(X)
U.S. HOUSE, DISTRICT 2				
Gabbard, Tulsi (D)	51,047	41,046	57,922	20,833
Kaaihue, Angela Aulani (R)	11,453	8,713	15,205	4,297

X Not applicable.

1/ A, American Shopping; C, Constitution; D, Democrat; G, Green; L, Libertarian; and R, Republican.

2/ Due to M. Takai's death on July 20, 2016, a special election was held during the general election on November 8, 2016 to fill his existing term until January 3, 2017. C. Hanabusa (D) won with 129,083 votes. C. Hanabusa (D) also won the general election for the next full term with 145,417 votes.

Source: State of Hawaii, Office of Elections, records and <<http://elections.hawaii.gov/election-results/>> accessed February 15, 2017.

**Table 8.12-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU:
1989 TO 2017**

Year	Number of boards, Dec. 31 1/	Board seats elected	Ballots mailed 2/ 3/	Voters (ballots cast)
1989	30	438	273,954	91,285
1991	30	438	260,923	85,457
1993	30	444	279,392	97,476
1995	31	447	281,437	85,597
1997	32	456	273,768	83,278
1999	32	408	299,799	82,574
2001	32	454	223,636	69,134
2003	32	444	159,917	42,841
2005	32	444	194,282	48,487
2007	32	444	231,135	44,256
2009	33	445	115,000	7,289
2011	33	439	156,600	13,264
2013	33	439	177,882	15,318
2015	33	439	194,080	19,722
2017	33	437	226,433	21,283

1/ 1986 rules provide for all board elections to be held at the same time, rather than staggered throughout the year.

2/ 2000 rules provide for uncontested candidates to be declared elected, thus no ballots are mailed for uncontested candidates.

3/ In 2009, 2011, 2013 and 2015 ballots were cast online or via an automated phone system. In 2017 ballots were cast online or by mail. Passcodes were mailed out to eligible voters.

Source: City and County of Honolulu, Neighborhood Commission, records.

**Table 8.13-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE:
1987 TO 2018**

Regular session	House of Representatives				Senate			
	Total	Democrats	Republicans	Other	Total	Democrats	Republicans	Other
1987	51	40	11	-	25	20	5	-
1989	51	45	6	-	25	22	3	-
1991	51	45	6	-	25	22	3	-
1993	51	47	4	-	25	22	3	-
1995	51	44	7	-	25	23	2	-
1997	51	39	12	-	25	23	2	-
1999	51	39	12	-	25	23	2	-
2000	51	32	19	-	25	22	3	-
2001	51	32	19	-	25	22	3	-
2002	51	36	15	-	25	20	5	-
2003	51	36	15	-	25	20	5	-
2004	51	36	15	-	25	20	5	-
2005	51	41	10	-	25	20	5	-
2006	51	41	10	-	25	20	5	-
2007	51	43	8	-	25	20	5	-
2008	51	44	7	-	25	21	4	-
2009	51	45	6	-	25	23	2	-
2010	51	45	6	-	25	23	2	-
2011	51	43	8	-	25	24	1	-
2012	51	43	8	-	25	24	1	-
2013	51	44	7	-	25	24	1	-
2014	51	44	7	-	25	24	1	-
2015	51	44	7	-	25	24	1	-
2016	51	44	7	-	25	24	1	-
2017	51	45	6	-	25	25	-	-
2018	51	46	5	-	25	25	-	-

Source: Hawaii State Office of Elections, records; Hawaii State Legislature, <<http://www.capitol.hawaii.gov/members/legislators.aspx?chamber=H>> and <<http://www.capitol.hawaii.gov/members/legislators.aspx?chamber=S>> accessed June 16, 2018.

Table 8.14-- LENGTH OF LEGISLATIVE SESSIONS: 1992 TO 2018

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1992	Jan. 15	2/ 107	None	-
1993	Jan. 20	104	Aug. 23	22
1994	Jan. 19	104	None	-
1995	Jan. 18	104	3/ June 5	4/ 7
1996	Jan. 17	104	None	-
1997	Jan. 15	5/ 107	None	-
1998	Jan. 21	6/ 114	None	-
1999	Jan. 20	105	None	-
2000	Jan. 19	105	7/ Aug. 3	8/ 18
2001	Jan. 17	107	9/ June 4	10/ 18
2002	Jan. 16	107	None	-
2003	Jan. 15	107	July 8	1
2004	Jan. 21	107	None	-
2005	Jan. 19	107	July 12	1
2006	Jan. 18	107	None	-
2007	Jan. 17	107	11/ Jul 10	12/ 11
2008	Jan. 16	107	13/ July 8	14/ 5
2009	Jan. 21	15/ 108	16/ July 15	17/ 5
2010	Jan. 20	100	18/ Aug. 5	19/ 4
2011	Jan. 19	107	Aug.31	2
2012	Jan. 18	107	June 28	2
2013	Jan. 16	107	20/ Aug. 5	21/ 18
2014	Jan. 15	107	Oct. 22	2
2015	Jan. 21	107	Nov. 5	2
2016	Jan. 20	107	22/ June 23	23/ 5
2017	Jan. 18	107	24/ Aug. 28	25/ 9
2018	Jan. 17	107	July 9	2

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Table 8.14-- LENGTH OF LEGISLATIVE SESSIONS: 1992 TO 2018 -- Con.

1/ Calendar days, including Saturdays, Sundays, holidays, and recess days, including mandatory five-day recess required by Art. III, sec. 10, of the Hawaii Constitution.

2/ Session extended 2 days by the legislature and 5 hours (at one hour intervals) by Governor Waihee.

3/ The Second Special Session of 1995 convened on September 20.

4/ Combined length for First Special Session (5 days) and Second Special Session (2 days).

5/ Session extended 1 day by the legislature.

6/ Session extended by Governor Cayetano from May 6 to May 14.

7/ The Second Special Session of 2000 convened on August 7.

8/ Combined length for the First Special Session (2 days) and Second Session (16 days).

9/ The Second Special Session of 2001 convened on July 10 and the Third Special Session of 2001 convened on October 22.

10/ Combined length for the First Special Session (5 days), Second Special Session (1 day), and Third Special Session (12 days).

11/ The Second Special Session of 2007 convened on October 24 and the Third Special Session of 2007 convened on November 19.

12/ Combined length for the First Special Session (1 day), Second Special Session (8 days), and Third Special Session (2 days).

13/ The Second Special Session of 2008 convened on July 30 and the Third Special Session of 2008 convened on November 17.

14/ Combined length for the First Special Session (1 day), Second Special Session (2 days), and Third Special Session (2 days).

15/ Session extended 2 days by the legislature.

16/ The Second Special Session of 2009 convened on August 18 and the Third Special Session of 2009 convened on November 19.

17/ Combined length for the First Special Session (1 day), Second Special Session (2 days), and Third Special Session (2 days).

18/ The Second Special Session of 2010 convened on September 1.

19/ Combined length for the First Special Session (2 days) and Second Special Session (2 days).

20/ The Second Special Session of 2013 convened on October 28.

21/ Combined length for the First Special Session (2 days) and Second Special Session (16 days).

22/ The Second Special Session of 2016 convened on July 12.

23/ Combined length for the First Special Session (2 days) and Second Special Session (3 days).

24/ The Second Special Session of 2017 convened on September 25 and the Third Special Session of 2017 convened on November 14.

25/ Combine length for the First Special Session (5 days), Second Special Session (2 days), and Third Special Session (2 days).

Source: Legislative Reference Bureau, records.

**Table 8.15-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
2016 AND 2017**

Action	Session							
	2016				2017			
	Regular	1st Special	2nd Special	3rd Special	Regular	1st Special	2nd Special	3rd Special
House bills								
Carried over from previous year	1,398	(X)	(X)	(X)	-	(X)	(X)	(X)
Introduced	1,260	-	-	-	1,601	-	-	-
Passed	149	-	-	-	133	-	-	-
Vetoed	5	-	-	-	6	-	-	-
Became law 1/	144	-	-	-	127	-	-	-
Senate bills								
Carried over from previous year	1,244	(X)	(X)	(X)	-	(X)	(X)	(X)
Introduced	1,127	-	-	-	1,317	4	-	-
Passed 2/	123	-	-	-	97	3	-	-
Vetoed	3	-	-	-	7	-	-	-
Became law 3/	119	-	1	-	90	3	-	-
House resolutions								
Offered	177	-	3	-	164	10	-	-
Adopted	73	-	3	-	67	7	-	-
House concurrent resolutions								
Offered	207	-	2	-	209	-	-	-
Adopted	34	-	2	-	33	-	-	-

Continued on next page.

**Table 8.15-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
2016 AND 2017 -- Con.**

Action	Session							
	2016				2017			
	Regular	1st Special	2nd Special	3rd Special	Regular	1st Special	2nd Special	3rd Special
Senate resolutions								
Offered	130	1	2	1	97	3	1	1
Adopted	51	1	2	1	30	3	1	1
Senate concurrent resolutions								
Offered	165	-	-	-	178	-	-	-
Adopted	26	-	-	-	29	-	-	-

X Not applicable

1/ The 2016 total includes H.B. 2561 and H.B. 2604 which became law without the Governor's signature. The 2017 total includes H.B. 83, 115, 116, 375, 471, 475, 523, 575, 591, 839, and 1258 which became law without the Governor's signature.

2/ The 2016 total includes S.B. 2554 which proposes a constitutional amendment.

3/ The 2016 total includes S.B. 2542 and S.B. 2559 which became law without the Governor's signature. The 2016 Second Special Session total includes S.B. 2077 which was vetoed then overridden. The 2017 total includes S.B. 376 and 724 which became law without the Governor's signature.

Source: Legislative Reference Bureau, records.

**Table 8.16-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
2018**

Action	Session	
	Regular	Special
House bills		
Carried over from previous year	1,468	(X)
Introduced	1,153	-
Passed	134	-
Vetoed	1	-
Became law 1/	133	-
Senate bills		
Carried over from previous year	1,220	(X)
Introduced	1,107	-
Passed 2/	95	-
Vetoed	7	-
Became law 3/	87	-
House resolutions		
Offered	230	-
Adopted	65	-
House concurrent resolutions		
Offered	245	-
Adopted	25	-
Senate resolutions		
Offered	146	1
Adopted	58	1
Senate concurrent resolutions		
Offered	194	-
Adopted	30	-

X Not applicable.

1/ The 2018 total includes H.B. 1614, 1646, 1876, 2071, 2589, and 2601 which became law without the Governor's signature.

2/ The 2018 total includes S.B. 2922 which proposes a constitutional amendment.

3/ The 2018 total includes S.B. 2027 and S.B. 2461 which became law without the Governor's signature.

Source: Legislative Reference Bureau, records.

Section 9

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and county governments in Hawaii. Additional information appears in Sections 10 and 12.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the Hawaii State Department of Health. Separate municipal governments do not exist.

Important sources for statistics on government in Hawaii include the quinquennial U.S. Census of Governments and various annual publications of the U.S. Census Bureau, reports of the U.S. Internal Revenue Service, Hawaii State Department of Accounting and General Services, Hawaii State Department of Budget and Finance, Hawaii State Department of Taxation, the County auditors and finance directors, and annual compilation by the Tax Foundation of Hawaii, most recently published as *Government in Hawaii: A Handbook of Financial Statistics*. Data extending back to the middle of the 19th century are summarized in *Historical Statistics of Hawaii*, Section 25. Comparable national statistics appear in the *Statistical Abstract of the United States: 2012*, Sections 8 and 9.

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**Table 9.01-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1980 TO 2017**

[In thousands of dollars. For fiscal year ending September 30 for federal, June 30 for others]

Year	All levels	Federal	State and counties		
			Total	State	Counties
1980	2,966,128	1,670,459	1,295,669	1,255,622	40,047
1981	3,245,507	1,826,363	1,419,144	1,371,490	47,655
1982	3,314,106	1,876,628	1,437,478	1,132,699	304,779
1983	3,451,664	1,897,858	1,553,806	1,225,010	328,796
1984	3,655,283	1,980,467	1,674,816	1,331,551	343,265
1985	3,922,942	2,116,773	1,806,169	1,440,553	365,616
1986	4,296,653	2,337,028	1,959,625	1,562,195	397,429
1987	4,997,831	2,809,135	2,188,696	1,776,430	412,266
1988	5,765,935	3,310,750	2,455,185	2,033,181	422,004
1989	6,464,598	3,731,845	2,732,753	2,283,891	448,862
1990	7,212,998	4,264,127	2,948,871	2,441,273	507,598
1991	7,904,148	4,570,534	3,333,614	2,753,562	580,052
1992	7,975,929	4,542,943	3,432,986	2,772,325	660,662
1993	8,033,353	4,489,142	3,544,211	2,829,710	714,501
1994	8,346,551	4,613,645	3,732,906	2,991,811	741,096
1995	8,211,146	4,461,739	3,749,407	3,012,835	736,572
1996	8,571,030	4,573,256	3,997,774	3,257,099	740,675
1997	(NA)	(1/)	4,040,110	3,301,030	739,081
1998	8,748,424	4,690,970	4,057,454	3,324,827	732,627
1999	9,628,577	5,566,221	4,062,356	3,334,087	728,269
2000	10,483,283	6,236,857	4,246,426	3,496,500	749,926
2001	(NA)	6,689,385	(NA)	(NA)	(NA)
2002	9,930,343	5,559,960	4,370,383	3,564,850	805,533
2003	9,836,631	5,262,429	4,574,202	3,723,126	851,076
2004 2/	13,206,833	8,394,777	4,812,056	3,849,135	962,921
2005 2/	12,204,228	6,680,481	5,523,747	4,434,356	1,089,391
2006 2/	13,321,730	7,122,326	6,199,404	4,918,655	1,280,749
2007 2/	14,227,076	7,666,494	6,560,582	5,090,499	1,470,083
2008 2/	15,244,258	8,489,937	6,754,321	5,147,569	1,606,752
2009 2/	13,316,025	6,747,592	6,568,433	4,712,651	1,855,782
2010 2/	13,037,803	6,280,828	6,756,975	4,837,862	1,919,113
2011 2/	12,879,583	6,127,725	6,751,858	4,857,729	1,894,129
2012 2/	13,959,224	6,511,578	7,447,646	5,516,146	1,931,500
2013 2/	15,183,048	7,139,728	8,043,320	6,092,893	1,950,427
2014 2/	15,825,790	7,722,840	8,102,950	6,033,331	2,069,619
2015 2/	16,930,818	8,221,290	8,709,528	6,485,563	2,223,965
2016 2/	(NA)	8,811,882	(NA)	6,919,035	(NA)
2017 2/	(NA)	9,415,214	(NA)	7,029,026	(NA)

Continued on next page.

**Table 9.01-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1980 TO 2017 -- Con.**

NA Not available.

1/ *IRS Data Book 1997* contains data for the Pacific-Northwest of which Hawaii is a part. No Hawaii detail.

2/ State and county compilation by the U.S. Census Bureau is generally based on the same source documents as the Tax Foundation of Hawaii but may not be strictly comparable in the treatment of specific categories.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual) and unpublished compilations of Hawaii State Department of Accounting and General Services, Annual Report of the Comptroller (annual) and of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports); and U.S. Department of the Treasury, Internal Revenue Service, *Annual Report of the Commissioner* (annual through 1992); *Internal Revenue Service Data Book* (annual, beginning 1992); and for 2001 to 2017 <<http://www.irs.gov/uac/SOI-Tax-Stats-IRS-Data-Book>> accessed April 2, 2018; U.S. Census Bureau, "State & Local Summary Tables by Level of Government - Hawaii" (annual from 2004) <<http://www.census.gov/govs/index.html>> accessed June 20, 2018; *Ibid.* "Annual Survey of State Government Tax Collections" (annual) <<http://www.census.gov/govs/statetax/>> accessed March 22, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.02-- FEDERAL TAX COLLECTIONS, BY SOURCE: 2013 TO 2017

[In thousands of dollars. For fiscal year ending September 30. Receipts shown for the State of Hawaii does not necessarily indicate the Federal tax burden, since, in many instances, taxes are collected in one state from residents of, or operations in, another. Also, taxes of corporations may be paid from the principal office, although the operations of these corporations may be located in one or more state(s). Collections are gross, i.e. not net of refunds. Collections relate to the given fiscal year for the most part. However, in a given fiscal year, refunds may be issued for a tax paid in a prior year, and therefore, the total refund may exceed the collection amount. Through an improved location methodology, entities are now more accurately distributed by State. Beginning with FY 2005, the ZIP Code on the tax return is used to classify returns by State. In prior years, the location of the IRS District Office associated with the taxpayer's account was used to determine State distribution]

Source	2013	2014	2015	2016	2017
Federal collections	7,139,728	7,722,840	8,221,290	8,811,882	9,415,214
Business income 1/	383,103	376,857	476,171	581,689	700,144
Individual income and employment	6,528,499	7,090,806	7,468,136	7,864,419	8,442,127
Income tax payments & SECA 2/	1,491,985	1,659,610	1,875,437	1,957,572	2,096,762
Estate and trust income tax	55,782	94,686	73,858	72,686	71,168
Income tax withheld & FICA 3/	4,964,710	5,320,158	5,501,597	5,816,881	6,255,294
Railroad retirement	-	-	-	-	-
Unemployment insurance	16,021	16,352	17,244	17,281	18,903
Estate	41,803	31,992	35,687	120,717	62,846
Gift	22,571	1,636	985	14,151	-543
Excise 4/	163,752	221,549	240,311	230,906	210,640

1/ Includes taxes on corporation income and unrelated business income from tax-exempt organizations.

2/ SECA Self-Employment Insurance Contributions Act, includes Old-Age, Survivors, Disability, and Hospital Insurance taxes on self-employment income. Included estate and trust income tax collections through 2008 but which is shown separately beginning in 2009. Previously 'Income tax not withheld & SECA'.

3/ FICA Federal Insurance Contributions Act, includes Old-Age, Survivors, Disability, and Hospital Insurance taxes on wages and salaries.

4/ Excludes excise taxes collected by the Customs Service and the Alcohol and Tobacco Tax and Trade Bureau.

Source: U.S. Department of the Treasury, Internal Revenue Service, *Internal Revenue Service Data Book* (annual) <<http://www.irs.gov/uac/SOI-Tax-Stats-IRS-Data-Book>> accessed April 2, 2018.

Table 9.03-- STATE AND LOCAL GOVERNMENT REVENUES: 1992 TO 2016

[Data rounded to thousands of dollars. For fiscal year ending June 30. Duplicative intergovernmental transactions are excluded]

Year	State & local	State	Local
1992	6,521,997	5,298,548	1,363,460
1993	6,860,466	5,543,158	1,500,924
1994	7,075,297	5,697,740	1,558,721
1995	7,179,570	5,777,523	1,599,500
1996	7,820,751	6,383,347	1,619,347
1997	8,144,623	6,700,545	1,620,451
1998	8,259,443	6,760,740	1,666,552
1999	8,093,565	6,646,380	1,607,842
2000	8,488,284	6,940,637	1,703,365
2001	(1/)	(1/)	(1/)
2002	7,451,684	5,868,714	1,739,130
2003	(1/)	(1/)	(1/)
2004	10,174,146	8,420,828	1,937,147
2005	11,000,269	9,091,681	2,107,119
2006	11,998,548	9,856,552	2,378,623
2007	13,592,500	11,100,927	2,649,538
2008	11,968,775	9,298,617	2,909,935
2009	9,920,831	6,945,777	3,250,884
2010	14,665,662	11,609,211	3,285,202
2011	15,945,159	12,807,096	3,382,139
2012	13,889,393	10,600,634	3,532,607
2013	16,386,970	12,944,952	3,684,114
2014 2/	18,613,655	15,055,561	3,795,610
2015	16,817,069	13,065,465	3,978,687
2016 3/	(NA)	13,417,567	(NA)

NA Not available.

1/ There are no state-by-state statistics available.

2/ Revised from previous *Data Book*.

3/ "State Government Finances" is released separately in advance of State and Local Government Finances (1992 to 2015) and is shown here as preliminary.

Source: U.S. Census Bureau, "State and Local Government Finances by Level of Government and by State" (annual) <<https://www.census.gov/govs/local/>> accessed June 20, 2018; and "State Government Finances: 2016" (March 22, 2018) <<http://www.census.gov/govs/state/>> accessed June 17, 2018.

Table 9.04-- STATE GOVERNMENT TAX COLLECTIONS: 2013 TO 2017

[Data rounded to thousands of dollars. For fiscal year ending June 30]

Source	2013	2014	2015	2016	2017
Total taxes	6,111,278	6,052,795	6,485,563	6,919,035	7,029,026
Sales and gross receipts	3,932,220	3,847,662	4,082,196	4,315,902	4,365,856
General sales & gross receipts	2,944,487	2,825,041	2,992,707	3,206,154	3,239,225
Selective sales taxes	987,733	1,022,621	1,089,489	1,109,748	1,126,631
Alcoholic beverages	48,962	48,305	50,281	92,591	51,167
Insurance premiums	136,542	142,051	150,872	50,590	170,118
Motor fuels	92,516	93,598	93,066	152,760	87,026
Public utilities	163,930	166,179	163,481	157,900	122,159
Tobacco products	112,104	107,685	129,659	124,890	124,160
Other selective sales	433,679	464,803	502,130	531,017	572,001
Licenses	248,574	243,007	252,431	263,130	269,224
Corporation	1,606	1,691	1,647	20,804	1,723
Hunting & fishing	488	536	514	186,742	567
Motor vehicle	175,341	168,980	178,663	349	187,986
Motor vehicle operators	389	360	272	1,765	316
Public utility	20,241	21,329	20,755	599	17,352
Occupation & business, NEC	38,607	38,023	39,372	41,566	48,633
Other licenses	11,902	12,088	11,208	11,305	12,647
Income taxes	1,859,379	1,871,506	2,060,164	2,224,299	2,280,441
Individual income	1,735,718	1,745,461	1,987,915	2,116,130	2,095,601
Corporation net income	123,661	126,045	72,249	108,169	184,840
Other taxes	71,105	90,620	90,772	115,704	113,505
Death and gift	14,886	14,789	12,071	49,613	18,968
Documentary & stock transfer	56,219	75,831	78,701	66,091	94,537

Source: U.S. Census Bureau, "Annual Survey of State Government Tax Collections" (annual)
 <<https://www.census.gov/programs-surveys/stc.html>> accessed June 27, 2018.

**Table 9.05-- STATE GOVERNMENT TAX COLLECTIONS FOR
HAWAII AND THE UNITED STATES: 2015**

[For fiscal year ending June 30 except for New York (March 31), Texas (August 31),
Alabama and Michigan (September 30). Taxes are net of refunds. Amounts in
thousands of dollars. United States revised from previous *Data Book*]

Item	Hawaii	United States
Total taxes	6,485,563	918,361,771
Property taxes	(X)	17,534,537
Sales and gross receipts	4,082,196	432,460,913
General sales and gross receipts	2,992,707	287,338,745
Selective sales taxes	1,089,489	145,122,168
Alcoholic beverages	50,281	6,430,964
Amusements	(X)	7,448,559
Insurance premiums	150,872	19,109,304
Motor fuels	93,066	42,525,011
Pari-mutuels	(X)	121,505
Public utilities	163,481	13,635,800
Tobacco products	129,659	17,743,883
Other selective sales	502,130	38,107,142
Licenses	252,431	52,232,278
Alcoholic beverages	(X)	600,725
Amusements	(X)	677,846
Corporation	1,647	5,731,389
Hunting and fishing	514	1,568,264
Motor vehicle	178,663	24,448,391
Motor vehicle operators	272	2,612,982
Public utility	20,755	1,078,130
Occupation and business, NEC	39,372	14,186,982
Other licenses	11,208	1,327,569
Income taxes	2,060,164	387,487,181
Individual income	1,987,915	338,426,933
Corporation net income	72,249	49,060,248
Other taxes	90,772	28,646,862
Death and gift	12,071	4,670,089
Documentary and stock transfer	78,701	8,187,150
Severance	(X)	13,121,979
Taxes, NEC	-	2,667,644

X Not applicable.

Source: U.S. Census Bureau, "State Government Tax Collections: 2015" (TC1500A1) (released May 24, 2018) <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 13, 2018.

**Table 9.06-- STATE GOVERNMENT TAX COLLECTIONS FOR
HAWAII AND THE UNITED STATES: 2016**

[For fiscal year ending June 30 except for New York (March 31), Texas (August 31), Alabama and Michigan (September 30). Taxes are net of refunds. In thousands of dollars. United States revised from previous *Data Book*]

Item	Hawaii	United States
Total taxes	6,919,035	929,891,144
Property taxes	(X)	18,291,411
Sales and gross receipts	4,315,902	441,289,331
General sales and gross receipts	3,206,154	292,411,243
Selective sales taxes	1,109,748	148,878,088
Alcoholic beverages	50,590	6,612,056
Amusements	(X)	7,588,813
Insurance premiums	157,900	20,448,622
Motor fuels	92,591	43,855,057
Pari-mutuels	(X)	121,148
Public utilities	152,760	13,291,415
Tobacco products	124,890	18,009,890
Other selective sales	531,017	38,951,087
Licenses	263,130	53,903,812
Alcoholic beverages	(X)	638,031
Amusements	(X)	549,250
Corporation	1,765	5,608,277
Hunting and fishing	599	1,595,245
Motor vehicle	186,742	25,548,818
Motor vehicle operators	349	2,596,698
Public utility	20,804	1,249,473
Occupation and business, NEC	41,566	14,702,043
Other licenses	11,305	1,415,977
Income taxes	2,224,299	391,758,772
Individual income	2,116,130	344,732,255
Corporation net income	108,169	47,026,517
Other taxes	115,704	24,647,818
Death and gift	49,613	5,133,756
Documentary and stock transfer	66,091	9,169,576
Severance	(X)	7,720,876
Taxes, NEC	-	2,623,610

X Not applicable.

Source: U.S. Census Bureau, "State Government Tax Collections: 2016" (revised May 24, 2018) <<https://factfinder.census.gov/bkmk/table/1.0/en/STC/2016/00A1>> accessed July 13, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 9.07-- STATE GOVERNMENT TAX COLLECTIONS FOR
HAWAII AND THE UNITED STATES: 2017**

[For fiscal year ending June 30 except for New York (March 31), Texas (August 31), Alabama and Michigan (September 30). Taxes are net of refunds. Amounts in thousands of dollars]

Item	Hawaii	United States
Total taxes	7,029,026	950,532,820
Property taxes	(X)	19,031,950
Sales and gross receipts	4,365,856	452,815,231
General sales and gross receipts	3,239,225	301,195,952
Selective sales taxes	1,126,631	151,619,279
Alcoholic beverages	51,167	6,626,430
Amusements	(X)	7,723,624
Insurance premiums	170,118	21,001,801
Motor fuels	87,026	45,060,523
Pari-mutuels	(X)	118,408
Public utilities	122,159	12,570,975
Tobacco products	124,160	18,673,887
Other selective sales	572,001	39,843,631
Licenses	269,224	55,139,430
Alcoholic beverages	(X)	667,800
Amusements	(X)	542,068
Corporation	1,723	5,861,711
Hunting and fishing	567	1,598,545
Motor vehicle	187,986	26,138,877
Motor vehicle operators	316	2,586,102
Public utility	17,352	1,369,494
Occupation and business, NEC	48,633	14,904,482
Other licenses	12,647	1,470,351
Income taxes	2,280,441	398,016,380
Individual income	2,095,601	352,834,534
Corporation net income	184,840	45,181,846
Other taxes	113,505	25,529,829
Death and gift	18,968	4,754,312
Documentary and stock transfer	94,537	9,383,413
Severance	(X)	8,859,122
Taxes, NEC	-	2,532,982

X Not applicable.

Source: U.S. Census Bureau, "Table 1. State Tax Collections by State: 2016-17" (March 29, 2018)
<<https://www.census.gov/data/tables/2017/econ/stc/2017-annual.html>> accessed July 13, 2018.

Table 9.08-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF THREE, FOR HONOLULU AND THE MEDIAN AND AVERAGE OF 51 MAJOR CITIES: 2013 TO 2016

[Largest city in each state and the District of Columbia. For the listing of cities, see source]

Gross family income level (dollars)	Honolulu			51-city median		51-city average 1/	
	Taxes (dollars)	Percent of income	Rank 2/	Taxes (dollars)	Percent of income	Taxes (dollars)	Percent of income
2013							
25,000	4,111	16.4	2	2,552	10.2	2,512	10.0
50,000	2,931	5.9	46	4,331	8.7	4,669	9.3
75,000	5,445	7.3	43	7,298	9.7	7,719	10.3
100,000	7,766	7.8	41	10,095	10.1	10,489	10.5
150,000	12,032	8.0	40	15,520	10.3	16,083	10.7
2014							
25,000	3,744	15.0	4	2,763	11.1	2,747	11.0
50,000	3,083	6.2	43	4,109	8.2	4,205	8.4
75,000	4,866	6.5	43	6,364	8.5	6,436	8.6
100,000	7,184	7.2	40	9,068	9.1	8,903	8.9
150,000	10,863	7.2	39	13,612	9.1	13,469	9.0
2015							
25,000	4,427	17.7	2	2,800	11.2	2,772	11.1
50,000	3,059	6.1	46	4,279	8.6	4,315	8.6
75,000	5,160	6.9	43	6,732	9.0	6,822	9.1
100,000	7,332	7.3	41	9,474	9.5	9,409	9.4
150,000	11,263	7.5	40	14,318	9.5	14,297	9.5
2016							
25,000	3,970	15.9	2	2,382	9.5	2,411	9.6
50,000	3,498	7.0	42	4,368	8.7	4,439	8.9
75,000	5,804	7.7	41	6,802	9.1	7,099	9.5
100,000	8,154	8.2	39	9,179	9.2	9,553	9.6
150,000	12,547	8.4	39	14,393	9.6	14,670	9.8

1/ Based on cities actually levying tax.

2/ The lower the rank, the higher the percentage of income paid in taxes. For a breakdown of taxes, see source.

Source: Government of the District of Columbia, *Tax Rates and Tax Burdens in the District of Columbia - A Nationwide Comparison* (annual), table 1 <<http://cfo.dc.gov/node/215912>> accessed February 23, 2018.

Table 9.09-- TAX FREEDOM DAY FOR THE UNITED STATES, EACH OF THE 50 STATES AND THE DISTRICT OF COLUMBIA: 2018

[Tax Freedom Day is the day when the nation as a whole has earned enough money to pay off its total tax bill for the year. See source for details]

Area	Tax Freedom Day	Rank 1/	Area	Tax Freedom Day	Rank 1/
United States	April 19	(X)			
Alabama	April 5	3	Nebraska	April 12	17
Alaska	April 4	1	Nevada	April 16	27
Arizona	April 9	8	New Hampshire	April 18	32
Arkansas	April 7	6	New Jersey	May 3	48
California	April 23	41	New Mexico	April 10	12
Colorado	April 16	27	New York	May 14	50
Connecticut	May 3	48	North Carolina	April 12	17
Delaware	April 12	17	North Dakota	April 24	43
Florida	April 13	21	Ohio	April 15	26
Georgia	April 9	8	Oklahoma	April 5	3
Hawaii	April 20	38	Oregon	April 17	30
Idaho	April 7	6	Pennsylvania	April 19	34
Illinois	April 29	47	Rhode Island	April 24	43
Indiana	April 10	12	South Carolina	April 9	8
Iowa	April 18	32	South Dakota	April 10	12
Kansas	April 17	30	Tennessee	April 5	3
Kentucky	April 13	21	Texas	April 14	24
Louisiana	April 4	1	Utah	April 11	15
Maine	April 20	38	Vermont	April 23	41
Maryland	April 19	34	Virginia	April 16	27
Massachusetts	April 26	45	Washington	April 19	34
Michigan	April 14	24	West Virginia	April 13	21
Minnesota	April 27	46	Wisconsin	April 19	34
Mississippi	April 9	8	Wyoming	April 21	40
Missouri	April 12	17	District of Columbia	May 3	(2/)
Montana	April 11	15			

X Not applicable.

1/ Rank is among the 50 states where 50 indicates the earliest Tax Freedom Day in the year 2018.

2/ The District of Columbia is ranked 48 as if it were a state but it does not affect other state ranks.

Source: Tax Foundation, "Tax Freedom Day 2018 Is April 19th" (April 11, 2018)

<<https://taxfoundation.org/publications/tax-freedom-day/>> accessed April 11, 2018.

**Table 9.10-- TAX FREEDOM DAY FOR HAWAII AND THE UNITED STATES:
1994 TO 2018**

[Tax Freedom Day is the day when the nation as a whole has earned enough money to pay off its total tax bill for the year. Leap Day is omitted. The Tax Freedom Day for the U.S. was revised in the the 2013 publication from 1992 onward, and in the 2013 from 2010 to 2012 but not since. Revisions for the states have not yet been released and, therefore, data may not be comparable year-to-year]

Year	Hawaii	United States	Hawaii rank 1/
1994	April 24	April 22	12
1995	April 22	April 23	24
1996	April 24	April 25	20
1997	April 23	April 27	30
1998	April 24	April 29	34
1999	April 24	April 29	33
2000	April 27	May 1	28
2001	April 24	April 27	24
2002	April 17	April 17	18
2003	April 15	April 14	12
2004	April 14	April 15	20
2005	April 21	April 21	17
2006	April 23	April 24	19
2007	April 24	April 24	16
2008	April 21	April 18	15
2009	April 13	April 10	14
2010	April 9	April 11	19
2011	April 6	April 11	30
2012	April 6	April 13	43
2013	April 14	April 18	24
2014	April 15	April 21	25
2015	April 19	April 24	25
2016	April 19	April 24	26
2017	April 19	April 23	26
2018	April 20	April 19	38

1/ Rank is among the 50 states where 1 indicates the earliest Tax Freedom Day in each year. The District of Columbia is ranked as if it were a state but it does not affect other state ranks.

Source: Tax Foundation, "Tax Freedom Day by State, 1970-2009" <<http://www.taxfoundation.org/taxdata/show/22328.html>> accessed March 31, 2009; Special Report No. 177, "April 9th Is Tax Freedom Day", table 2 (March 2010) <<http://www.taxfoundation.org/files/sr177.pdf>> accessed March 31, 2010; Special Report No. 190, table 2 (March 2011) <<http://www.taxfoundation.org/files/sr190.pdf>> accessed March 30, 2011; "Tax Freedom Day Arrives on April 17", Tax Freedom Day By State (April 2, 2012) <<http://taxfoundation.org/tax-topics/tax-freedom-day>> accessed June 12, 2012; "Tax Freedom Day 2013 is April 18, Five Days Later Than Last Year " (April 2, 2013) <<http://taxfoundation.org/tax-topics/tax-freedom-day>> accessed April 16, 2013; "Tax Freedom Day 2014 is April 21, 3 Days Later than Last Year" (April 7, 2014) <<http://taxfoundation.org/tax-topics/tax-freedom-day>> accessed June 26, 2014; "Tax Freedom Day 2015 is April 24th" <http://taxfoundation.org/sites/taxfoundation.org/files/docs/TaxFoundation_TFD_Report.pdf> accessed April 10, 2015; "Tax Freedom Day 2016 Arrives April 24th" <<http://taxfoundation.org/tax-topics/tax-freedom-day>> accessed April 6, 2016; "Tax Freedom Day 2017 Is April 23" (April 18, 2017) <<https://files.taxfoundation.org/20170418101758/Tax-Foundation-TFD-2017.pdf>> accessed (April 18, 2017); "Tax Freedom Day 2018 is April 19th" <<https://files.taxfoundation.org/20180411105322/Tax-Foundation-TFD-2018.pdf>> accessed April 11, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.11-- STATE-LOCAL TAX BURDEN PER CAPITA IN NOMINAL AND CONSTANT DOLLARS: 1977 TO 2012

[In percent and dollars. Fiscal year ending June 30]

Year	Burden rate (in percent)	Per capita (in nominal dollars)			
		Income	Total taxes paid	Taxes paid to own state	Taxes paid to other states
1977	10.6	8,550.01	905.78	609.43	296.35
1978	10.6	9,091.68	965.63	652.99	312.64
1979	10.5	10,115.15	1,060.15	732.03	328.12
1980	10.4	11,167.01	1,161.44	811.28	350.16
1981	10.0	12,475.05	1,249.72	869.55	380.17
1982	9.7	12,720.11	1,233.79	844.45	389.34
1983	9.8	13,532.55	1,331.82	925.10	406.72
1984	9.9	14,505.11	1,432.42	984.85	447.57
1985	9.9	15,444.17	1,527.66	1,054.65	473.01
1986	10.0	16,448.49	1,638.13	1,142.65	495.48
1987	10.2	17,493.99	1,789.27	1,265.45	523.82
1988	10.9	18,850.69	2,057.45	1,504.89	552.56
1989	10.7	20,767.45	2,225.41	1,630.14	595.27
1990	10.2	22,618.68	2,316.01	1,678.74	637.27
1991	10.8	23,663.33	2,549.69	1,886.31	663.38
1992	10.9	24,269.98	2,640.21	1,956.23	683.98
1993	10.7	25,166.63	2,703.31	1,993.06	710.25
1994	11.2	25,426.96	2,851.15	2,147.28	703.87
1995	10.7	25,900.48	2,763.02	2,065.61	697.41
1996	10.9	26,205.84	2,864.57	2,201.23	663.34
1997	10.7	26,863.32	2,862.48	2,201.83	660.65
1998	10.5	27,862.24	2,924.04	2,258.57	665.47
1999	10.1	28,674.24	2,893.03	2,227.73	665.30
2000	9.8	30,553.21	2,996.54	2,295.65	700.89
2001	10.0	31,118.41	3,113.11	2,391.69	721.42
2002	10.0	30,818.12	3,089.04	2,357.02	732.02
2003	10.0	31,931.54	3,199.93	2,415.17	784.76
2004	9.9	34,209.29	3,376.20	2,546.32	829.88
2005	9.9	37,579.15	3,714.27	2,700.06	1,014.21
2006	10.4	40,406.59	4,186.64	3,043.30	1,143.34
2007	10.4	42,479.29	4,429.85	3,272.04	1,157.81
2008	10.5	43,035.42	4,507.17	3,312.15	1,195.02
2009	10.3	41,546.25	4,259.18	3,142.98	1,116.20
2010	10.6	41,344.33	4,386.65	3,294.89	1,091.76
2011	9.9	42,970.19	4,231.32	3,136.81	1,094.51
2012	10.2	44,920.02	4,576.00	3,480.16	1,095.84

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Table 9.11-- STATE-LOCAL TAX BURDEN PER CAPITA IN NOMINAL AND CONSTANT DOLLARS: 1977 TO 2012 -- Con.

Year	Burden rate (in percent)	Per capita (in constant dollars)			
		Income	Total taxes paid	Taxes paid to own state	Taxes paid to other states
1977	10.6	32,398.70	3,432.29	2,309.32	1,122.96
1978	10.6	32,000.53	3,398.79	2,298.37	1,100.42
1979	10.5	32,000.03	3,353.86	2,315.83	1,038.03
1980	10.4	31,119.26	3,236.60	2,260.81	975.80
1981	10.0	31,497.26	3,155.32	2,195.46	959.86
1982	9.7	30,260.79	2,935.15	2,008.92	926.23
1983	9.8	31,190.21	3,069.62	2,132.20	937.42
1984	9.9	32,067.02	3,166.71	2,177.25	989.46
1985	9.9	32,966.78	3,260.91	2,251.23	1,009.68
1986	10.0	34,447.72	3,430.70	2,393.03	1,037.67
1987	10.2	35,345.72	3,615.13	2,556.78	1,058.35
1988	10.9	36,592.63	3,993.89	2,921.27	1,072.62
1989	10.7	38,467.66	4,122.14	3,019.52	1,102.62
1990	10.2	39,745.14	4,069.65	2,949.85	1,119.80
1991	10.8	39,889.01	4,297.98	3,179.73	1,118.25
1992	10.9	39,714.36	4,320.33	3,201.09	1,119.24
1993	10.7	40,001.45	4,296.81	3,167.90	1,128.92
1994	11.2	39,386.65	4,416.46	3,326.16	1,090.30
1995	10.7	39,021.56	4,162.75	3,112.04	1,050.72
1996	10.9	38,355.72	4,192.68	3,221.79	970.89
1997	10.7	38,426.67	4,094.64	3,149.61	945.03
1998	10.5	39,243.42	4,118.45	3,181.15	937.30
1999	10.1	39,521.09	3,987.40	3,070.43	916.97
2000	9.8	40,739.25	3,995.55	3,060.99	934.56
2001	10.0	40,350.73	4,036.72	3,101.27	935.45
2002	10.0	39,338.35	3,943.06	3,008.66	934.40
2003	10.0	39,849.88	3,993.44	3,014.08	979.36
2004	9.9	41,583.27	4,103.96	3,095.19	1,008.76
2005	9.9	44,180.30	4,366.72	3,174.35	1,192.37
2006	10.4	46,017.68	4,768.02	3,465.91	1,302.11
2007	10.4	47,038.02	4,905.25	3,623.18	1,282.06
2008	10.5	45,891.99	4,806.34	3,532.00	1,274.34
2009	10.3	44,462.05	4,558.10	3,363.56	1,194.54
2010	10.6	43,532.00	4,618.76	3,469.23	1,149.53
2011	9.9	43,859.35	4,318.88	3,201.72	1,117.16
2012	10.2	44,920.02	4,576.00	3,480.16	1,095.84

Source: Tax Foundation, "State and Local Tax Burdens: All Years, One State, 1977 - 2012: Hawaii, Real and Nominal" (January 20, 2016)
 <<http://taxfoundation.org/article/state-and-local-tax-burdens-1977-2012>> accessed July 19, 2016.

Table 9.12-- STATE-LOCAL TAX BURDEN PER CAPITA AND RANK FOR THE 50 STATES, THE DISTRICT OF COLUMBIA AND THE UNITED STATES AVERAGE: 2012

[In percent, number and dollars. Fiscal year ending June 30]

State	State-local tax burden as a percent of state income	Rank 1/	Per capita			
			State-local tax burden	Taxes paid to own state	Taxes paid to other states	Income
U.S. average 2/	9.9	(X)	4,420	3,238	1,213	44,481
Alabama	8.7	39	3,067	2,142	925	35,337
Alaska	6.5	50	3,229	1,986	1,242	49,780
Arizona	8.8	36	3,276	2,283	992	37,012
Arkansas	10.1	17	3,519	2,552	967	34,862
California	11.0	6	5,237	4,126	1,111	47,808
Colorado	8.9	35	4,304	2,968	1,336	48,313
Connecticut	12.6	2	7,869	5,516	2,354	62,374
Delaware	10.2	16	4,412	2,610	1,802	43,437
Florida	8.9	34	3,738	2,499	1,240	41,848
Georgia	9.1	32	3,426	2,446	980	37,478
Hawaii	10.2	14	4,576	3,480	1,096	44,920
Idaho	9.3	26	3,318	2,255	1,063	35,496
Illinois	11.0	5	5,235	4,015	1,220	47,656
Indiana	9.5	22	3,585	2,592	993	37,580
Iowa	9.2	31	4,037	2,877	1,161	43,878
Kansas	9.5	23	4,131	2,808	1,323	43,490
Kentucky	9.5	24	3,298	2,410	888	34,782
Louisiana	7.6	45	2,950	1,953	997	38,906
Maine	10.2	13	3,997	2,895	1,102	39,062
Maryland	10.9	7	5,920	4,387	1,533	54,266
Massachusetts	10.3	12	5,872	4,220	1,651	57,180
Michigan	9.4	25	3,631	2,704	926	38,636
Minnesota	10.8	8	5,185	3,980	1,205	47,806
Mississippi	8.6	41	2,742	1,910	832	31,847
Missouri	9.3	29	3,591	2,483	1,108	38,825
Montana	8.7	38	3,389	2,172	1,216	38,980
Nebraska	9.2	30	4,197	2,930	1,267	45,485
Nevada	8.1	43	3,349	2,051	1,298	41,297
New Hampshire	7.9	44	3,961	2,173	1,789	50,288
New Jersey	12.2	3	6,926	4,876	2,050	56,731
New Mexico	8.7	37	3,141	2,170	971	36,051
New York	12.7	1	6,993	5,588	1,406	55,047
North Carolina	9.8	20	3,659	2,707	952	37,523
North Dakota	9.0	33	4,867	3,349	1,518	53,953

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Table 9.12-- STATE-LOCAL TAX BURDEN PER CAPITA AND RANK FOR THE 50 STATES, THE DISTRICT OF COLUMBIA AND THE UNITED STATES AVERAGE: 2012 -- Con.

State	State-local tax burden as a percent of state income	Per capita				
		Rank 1/	State-local tax burden	Taxes paid to own state	Taxes paid to other states	Income
Ohio	9.8	19	3,924	2,986	938	40,111
Oklahoma	8.6	40	3,515	2,420	1,095	40,762
Oregon	10.3	10	4,095	3,063	1,032	39,578
Pennsylvania	10.2	15	4,589	3,385	1,204	45,046
Rhode Island	10.8	9	4,998	3,476	1,522	46,359
South Carolina	8.4	42	2,936	1,999	937	34,821
South Dakota	7.1	49	3,318	1,911	1,407	46,781
Tennessee	7.3	47	2,805	1,861	944	38,178
Texas	7.6	46	3,340	2,332	1,008	44,081
Utah	9.6	21	3,556	2,505	1,051	36,989
Vermont	10.3	11	4,557	3,129	1,428	44,337
Virginia	9.3	27	4,623	3,258	1,365	49,541
Washington	9.3	28	4,541	3,241	1,301	48,999
West Virginia	9.8	18	3,331	2,455	876	34,016
Wisconsin	11.0	4	4,734	3,602	1,132	42,990
Wyoming	7.1	48	4,407	2,056	2,351	61,708
District of Columbia	10.6	3/ 10	7,541	5,231	2,310	70,837

X Not applicable.

1/ Rank of 1 indicates the highest tax burden among the 50 states.

2/ The U.S. average is a population-weighted average. The District of Columbia is excluded from population-weighted averages.

3/ The District of Columbia's rank does not affect other states' rankings, but would rank 10th if it were included.

Source: Tax Foundation, "State and Local Tax Burdens: All Years, One State, 1977 - 2012", Table 2: State-Local Tax Burdens by State (with Detailed Breakdown), Fiscal Year 2012 (January 20, 2016) <<http://taxfoundation.org/article/state-and-local-tax-burdens-1977-2012>> accessed July 19, 2016.

**Table 9.13-- STATE BUSINESS TAX CLIMATE INDEX RANK, OVERALL
AND BY COMPONENT: 2018**

[A rank of 1 is more favorable for business than a rank of 50. Rankings do not average to total. States without a given tax rank equally as number 1 and states with identical scores rank equally. Report shows tax systems as of July 1, 2017, the beginning of Fiscal Year 2018]

State	Overall rank	Tax index rank				
		Corporate	Individual Income	Sales	Unemployment Insurance	Property
Alabama	35	22	22	49	11	12
Alaska	3	26	1	5	25	38
Arizona	21	13	18	47	15	6
Arkansas	39	39	30	44	32	22
California	48	32	50	41	13	13
Colorado	18	18	15	39	35	14
Connecticut	44	31	37	27	19	49
Delaware	15	50	34	1	3	20
Florida	4	19	1	29	2	10
Georgia	36	10	42	28	38	23
Hawaii	27	14	31	23	27	16
Idaho	20	25	23	26	46	3
Illinois	29	36	16	35	42	45
Indiana	9	23	10	9	10	4
Iowa	40	48	33	19	34	39
Kansas	23	38	19	31	12	19
Kentucky	33	27	29	14	47	36
Louisiana	42	40	27	50	4	30
Maine	28	41	26	8	44	41
Maryland	43	20	46	18	24	42
Massachusetts	22	35	12	12	49	46
Michigan	12	8	14	11	48	21
Minnesota	46	43	45	25	37	28
Mississippi	24	11	20	38	5	35
Missouri	16	5	28	24	7	7
Montana	6	12	21	3	20	9
Nebraska	25	28	24	13	9	40
Nevada	5	33	1	42	45	8
New Hampshire	7	45	9	2	43	44
New Jersey	50	42	48	46	36	50
New Mexico	34	24	35	40	16	1
New York	49	7	49	43	30	47

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**Table 9.13-- STATE BUSINESS TAX CLIMATE INDEX RANK, OVERALL
AND BY COMPONENT: 2018 -- Con.**

State	Overall rank	Tax index rank				
		Corporate	Individual Income	Sales	Unemployment Insurance	Property
North Carolina	11	3	13	20	6	32
North Dakota	30	16	36	34	14	2
Ohio	45	47	47	30	8	11
Oklahoma	32	9	38	36	1	15
Oregon	10	34	32	4	31	18
Pennsylvania	26	44	17	21	50	33
Rhode Island	41	30	39	22	23	43
South Carolina	37	15	41	32	29	24
South Dakota	2	1	1	33	39	25
Tennessee	14	21	8	45	22	29
Texas	13	49	6	37	26	37
Utah	8	4	11	17	21	5
Vermont	47	37	44	16	18	48
Virginia	31	6	40	10	41	31
Washington	17	46	6	48	17	27
West Virginia	19	17	25	15	28	17
Wisconsin	38	29	43	7	40	26
Wyoming	1	1	1	6	33	34
Dist. of Columbia 1/	47	26	43	34	30	45

1/ Score and rank do not affect other areas.

Source: Tax Foundation, *2018 State Business Tax Climate Index*, Table 1 (October 17, 2017)
<<https://taxfoundation.org/state-business-tax-climate-index-2018/>> accessed October 17, 2017.

**Table 9.14-- STATE BUSINESS TAX CLIMATE SCORE AND INDEX:
2015 TO 2018**

[For fiscal year ending June 30. The higher the score, the lower the rank, and therefore, the more favorable the state's tax system is for business. See source for details. Rank is among the 50 states. 2015 to 2017 data may differ from previous year due to enactment of retroactive statutes, backcasting of methodical changes or corrections]

Location	2015		2016		2017		2018	
	Index rank	Total score	Index rank	Total score	Index rank	Total score	Index rank	Total score
Alabama	36	4.79	35	4.75	35	4.83	35	4.79
Alaska	4	7.27	3	7.39	3	7.31	3	7.21
Arizona	24	5.14	22	5.20	21	5.22	21	5.21
Arkansas	40	4.60	41	4.50	38	4.59	39	4.59
California	48	3.75	48	3.75	48	3.75	48	3.71
Colorado	18	5.33	17	5.39	18	5.38	18	5.41
Connecticut	43	4.44	43	4.34	43	4.32	44	4.32
Delaware	11	5.63	11	5.68	15	5.51	15	5.51
Florida	5	6.84	4	6.89	4	6.85	4	6.86
Georgia	38	4.69	39	4.60	36	4.66	36	4.69
Hawaii	32	4.92	31	4.92	27	5.12	27	5.08
Idaho	20	5.24	21	5.21	22	5.21	20	5.22
Illinois	35	4.86	26	5.10	28	5.12	29	4.99
Indiana	10	5.80	10	5.81	9	5.96	9	5.98
Iowa	41	4.57	40	4.54	40	4.52	40	4.53
Kansas	21	5.20	20	5.22	20	5.22	23	5.15
Kentucky	31	4.92	32	4.92	33	4.88	33	4.91
Louisiana	34	4.86	36	4.72	42	4.35	42	4.37
Maine	28	4.97	30	4.93	29	4.97	28	5.00
Maryland	42	4.47	42	4.39	41	4.35	43	4.36
Massachusetts	25	5.11	24	5.14	25	5.13	22	5.20
Michigan	13	5.59	13	5.60	12	5.64	12	5.64
Minnesota	47	4.16	46	4.19	46	4.19	46	4.21
Mississippi	22	5.17	25	5.12	26	5.12	24	5.13
Missouri	16	5.44	18	5.38	16	5.44	16	5.44
Montana	6	6.33	6	6.31	6	6.28	6	6.28
Nebraska	23	5.16	23	5.15	24	5.14	25	5.10
Nevada	3	7.42	5	6.45	5	6.45	5	6.46
New Hampshire	7	6.10	7	6.15	7	6.14	7	6.16
New Jersey	50	3.49	50	3.42	50	3.42	50	3.35
New Mexico	33	4.87	34	4.87	34	4.85	34	4.86
New York	49	3.55	49	3.58	49	3.59	49	3.60
North Carolina	12	5.59	12	5.67	11	5.72	11	5.76
North Dakota	26	4.99	27	4.98	30	4.97	30	4.97

Continued on next page.

**Table 9.14-- STATE BUSINESS TAX CLIMATE SCORE AND INDEX:
2015 TO 2018 -- Con.**

Location	2015		2016		2017		2018	
	Index rank	Total score	Index rank	Total score	Index rank	Total score	Index rank	Total score
Ohio	44	4.25	45	4.23	45	4.27	45	4.24
Oklahoma	29	4.96	33	4.91	31	4.94	32	4.91
Oregon	9	5.86	9	5.91	10	5.79	10	5.80
Pennsylvania	30	4.96	28	4.97	23	5.15	26	5.08
Rhode Island	45	4.19	44	4.33	44	4.29	41	4.48
South Carolina	37	4.71	37	4.68	37	4.66	37	4.67
South Dakota	2	7.54	2	7.45	2	7.46	2	7.47
Tennessee	15	5.45	15	5.43	14	5.57	14	5.58
Texas	14	5.52	14	5.60	13	5.62	13	5.61
Utah	8	5.98	8	5.97	8	5.97	8	5.98
Vermont	46	4.19	47	4.16	47	4.14	47	4.16
Virginia	27	4.98	29	4.93	32	4.92	31	4.92
Washington	17	5.37	16	5.43	17	5.43	17	5.42
West Virginia	19	5.30	19	5.35	19	5.34	19	5.33
Wisconsin	39	4.67	38	4.63	39	4.59	38	4.63
Wyoming	1	7.77	1	7.74	1	7.76	1	7.82
Dist. of Col. 1/	44	4.43	41	4.54	47	4.19	47	4.20

1/ Score and rank do not affect other areas.

Source: Tax Foundation, *2018 State Business Tax Climate Index*, Table 2 (October 17, 2017)
<<https://taxfoundation.org/state-business-tax-climate-index-2018/>> accessed October 17, 2017.

Table 9.15-- ESTIMATED TAX BURDEN FOR THE FOUR-PERSON ALOHA FAMILY ON OAHU: 1970, 1988, 1999 AND 2006

[In dollars and percent. For 1970 and 1988, based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii. For 1999, salary income is estimated at \$81,000 for Alfie (a full- and a part-time jobs) and Anita (a full-time job) plus \$1,840 other family income from rental of a condominium unit, dividends from stocks, and interest on bank certificates of deposit. For 2006, salary income is estimated at \$100,100 for Alfie and Anita, net rental income of -\$3,720, and \$4,220 interest income and dividends. Other assumptions are the same as in 1999. For other underlying assumptions, see sources]

Subject	1970 (dollars)	1988 (dollars)	1999 (dollars)	2006 (dollars)	2006 as percent of total	
					Tax burden	Gross family income
Total tax burden	5,559	25,610	31,107	42,788	100.0	38.7
Federal income	2,130	8,096	6,623	6,934	16.2	6.3
State income	693	3,693	3,477	4,560	10.7	4.1
Social security 1/	1,247	7,758	12,394	16,845	39.4	15.2
General excise	304	1,207	3,580	6,041	14.1	5.5
Real property	366	1,006	1,099	1,650	3.9	1.5
Employment 2/	527	3,301	3,112	5,710	13.3	5.2
Specific excise 3/	67	161	200	280	0.7	0.3
Automobile	225	388	622	768	1.8	0.7
Direct tax bill	4,342	18,432	19,288	26,360	61.6	23.8
Indirect tax bill	1,217	7,178	11,819	16,429	38.4	14.9
Gross family income	16,408	62,716	82,840	110,600	(X)	100.0
After taxes	10,898	37,106	51,733	67,812	(X)	61.3

X Not applicable.

1/ The sum of the amount the Alohas paid for retirement benefits and Medicare and the equal amount paid by their employers on their behalf.

2/ Unemployment compensation, temporary disability insurance, and workers' compensation.

3/ Alcohol, tobacco, telephone and cell.

Source: Hawaii State Department of Business, Economic Development & Tourism, records; and Tax Foundation of Hawaii, "The Tax Burden of the Arnie Aloha Family" (November 1989) and "The Tax Burden of the Aloha Family" (June 2001).

**Table 9.16-- HAWAII STATE AND LOCAL GOVERNMENT FINANCES,
BY LEVEL OF GOVERNMENT: 2014**

[In thousands of dollars. For fiscal year ending June 30. Detail may not sum to subtotals due to rounding and categories not shown separately]

Category	State & local	State	Local
Revenue 1/ 2/	18,613,655	15,055,561	3,795,610
General revenue 1/ 2/	14,474,237	11,304,424	3,407,329
Intergovernmental revenue 1/ 2/	3,124,302	2,810,537	551,281
General revenue from own sources 2/	11,349,935	8,493,887	2,856,048
Taxes	8,102,950	6,033,331	2,069,619
Property	1,391,717	-	1,391,717
Sales and gross receipts	4,300,286	3,847,662	452,624
Individual income	1,745,461	1,745,461	-
Corporate income	126,045	126,045	-
Motor vehicle license	345,828	168,980	176,848
Other taxes	193,613	145,183	48,430
Charges & misc. general revenue 2/	3,246,985	2,460,556	786,429
Current charges 2/ 3/	2,335,919	1,664,748	671,171
Education	409,828	409,828	-
Hospitals	621,720	621,720	-
Air transportation (airports)	374,591	374,591	-
Sewerage	456,106	-	456,106
Miscellaneous general revenue	911,066	795,808	115,258
Utility revenue	388,281	-	388,281
Insurance trust revenue	3,751,137	3,751,137	-
Expenditure 1/ 2/ 4/	15,973,360	12,591,633	3,637,226
Intergovernmental expenditure 1/	386	255,885	-
Direct expenditure by function 2/ 4/	15,972,974	12,335,748	3,637,226
Direct general expenditure	13,681,594	10,958,915	2,722,679
Capital outlay	1,453,513	849,543	603,970
Other direct general expenditure	12,228,081	10,109,372	2,118,709
Education services 5/	3,431,514	3,431,463	51
Education	3,388,604	3,388,553	51
Libraries	42,910	42,910	-
Social services & income maint. 5/	3,987,968	3,927,241	60,727
Public welfare	2,619,061	2,584,894	34,167
Hospitals	821,973	821,973	-
Health	541,995	515,435	26,560
Employment security administration	4,939	4,939	-
Veterans' services	-	-	-
Transportation 5/	1,144,596	848,927	295,669
Highways	717,381	422,348	295,033
Air transportation (airports)	355,178	355,178	-

Continued on next page.

**Table 9.16-- HAWAII STATE AND LOCAL GOVERNMENT FINANCES,
BY LEVEL OF GOVERNMENT: 2014 -- Con.**

Category	State & local	State	Local
Public safety 5/	904,677	291,903	612,774
Police protection	452,670	36,941	415,729
Fire protection	192,267	-	192,267
Correction	216,708	216,708	-
Protective inspection & regulation	43,032	38,254	4,778
Environment and housing 5/	1,272,299	388,877	883,422
Natural resources	120,298	114,638	5,660
Parks and recreation	280,132	92,808	187,324
Housing & community development	280,345	181,411	98,934
Sewerage	358,771	20	358,751
Solid waste management	232,753	-	232,753
Governmental administration	814,250	496,246	318,004
Interest on general debt	585,813	383,224	202,589
Gen. expend., not elsewhere classified	1,540,477	1,191,034	349,443
Utility expenditure 2/ 5/	919,698	5,151	914,547
Water supply 2/	314,572	5,151	309,421
Transit	605,126	-	605,126
Insurance trust expenditure 4/	1,371,682	1,371,682	-
Debt outstanding	14,296,400	8,426,573	5,869,827
Short-term	85,517	-	85,517
Long-term	14,210,883	8,426,573	5,784,310
Public debt for private purposes	432,612	389,339	43,273
Long-term debt issued	1,050,212	946,198	104,014
Long-term debt retired	1,109,026	838,028	270,998
Cash and security holdings 2/	22,025,930	19,176,589	2,849,341
Insurance trust funds	13,019,218	13,019,218	-
Unemployment compensation	358,556	358,556	-
Employee retirement	12,660,662	12,660,662	-
Workers' compensation & misc.	-	-	-
Other than insurance trust funds 2/	9,006,712	6,157,371	2,849,341
Offsets to debt 2/	901,911	804,125	97,786
Bond funds	374,041	189,496	184,545
Other	7,730,760	5,163,750	2,567,010

1/ Duplicative intergovernmental transactions are excluded.

2/ Local and State and local revised from previous *Data Book*.

3/ Charges include highways, parking facilities, sea and inland port facilities, natural resources, parks and recreation, housing and community development, solid waste management, and other charges.

4/ State and State and local revised from previous *Data Book*.

5/ Includes capital outlay.

Source: U.S. Census Bureau, "Table 1. State & Local Government Finances by Level of Government & by State: 2013-14" (revised August 28, 2017) <<http://www.census.gov/govs/local/>> accessed June 20, 2018.

**Table 9.17-- HAWAII STATE AND LOCAL GOVERNMENT FINANCES,
BY LEVEL OF GOVERNMENT: 2015**

[In thousands of dollars. For fiscal year ending June 30. Detail may not sum to subtotals due to rounding and categories not shown separately]

Category	State & local	State	Local
Revenue 1/	16,817,069	13,065,465	3,978,687
General revenue 1/	15,147,664	11,813,718	3,561,029
Intergovernmental revenue 1/	3,041,158	2,697,519	570,722
General revenue from own sources	12,106,506	9,116,199	2,990,307
Taxes	8,709,528	6,485,563	2,223,965
Property	1,531,270	-	1,531,270
Sales and gross receipts	4,538,142	4,082,196	455,946
Individual income	1,987,915	1,987,915	-
Corporate income	72,249	72,249	-
Motor vehicle license	362,672	178,663	184,009
Other taxes	217,280	164,540	52,740
Charges & misc. general revenue	3,396,978	2,630,636	766,342
Current charges 2/	2,392,811	1,715,453	677,358
Education	429,246	429,246	-
Hospitals	669,184	669,184	-
Air transportation (airports)	357,018	357,018	-
Sewerage	460,776	-	460,776
Miscellaneous general revenue	1,004,167	915,183	88,984
Utility revenue	417,658	-	417,658
Insurance trust revenue	1,251,747	1,251,747	-
Expenditure 1/	16,027,481	12,414,891	3,880,071
Intergovernmental expenditure 1/	382	267,863	-
Direct expenditure by function	16,027,099	12,147,028	3,880,071
Direct general expenditure	13,523,799	10,779,913	2,743,886
Capital outlay	1,585,642	999,997	585,645
Other direct general expenditure	11,938,157	9,779,916	2,158,241
Education services 3/	3,271,803	3,271,727	76
Education	3,232,559	3,232,483	76
Libraries	39,244	39,244	-
Social services & income maint. 3/	3,949,667	3,881,299	68,368
Public welfare	2,521,330	2,479,637	41,693
Hospitals	870,397	870,397	-
Health	553,329	526,654	26,675
Employment security administration	4,611	4,611	-
Veterans' services	-	-	-
Transportation 3/	1,327,349	1,036,921	290,428
Highways	839,332	549,795	289,537
Air transportation (airports)	417,823	417,823	-

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**Table 9.17-- HAWAII STATE AND LOCAL GOVERNMENT FINANCES,
BY LEVEL OF GOVERNMENT: 2015 -- Con.**

Category	State & local	State	Local
Public safety 3/	941,141	295,247	645,894
Police protection	457,226	37,958	419,268
Fire protection	221,498	-	221,498
Correction	217,301	217,301	-
Protective inspection and regulation	45,116	39,988	5,128
Environment and housing 3/	1,319,172	412,349	906,823
Natural resources	137,718	136,013	1,705
Parks and recreation	287,546	98,882	188,664
Housing and community development	270,523	177,437	93,086
Sewerage	370,127	17	370,110
Solid waste management	253,258	-	253,258
Governmental administration	790,822	481,448	309,374
Interest on general debt	527,556	343,513	184,043
Gen. expend., not elsewhere classified	1,396,289	1,057,409	338,880
Utility expenditure 3/	1,143,708	7,523	1,136,185
Water supply	323,306	7,523	315,783
Transit	820,402	-	820,402
Insurance trust expenditure	1,359,592	1,359,592	-
Debt outstanding	14,823,819	8,757,730	6,066,089
Short-term	87,660	-	87,660
Long-term	14,736,159	8,757,730	5,978,429
Public debt for private purposes	398,214	347,799	50,415
Long-term debt issued	2,520,933	1,377,681	1,143,252
Long-term debt retired	1,995,659	1,046,524	949,135
Cash and security holdings	23,529,687	20,516,627	3,013,060
Insurance trust funds	13,780,519	13,780,519	-
Unemployment compensation	435,459	435,459	-
Employee retirement	13,345,060	13,345,060	-
Workers' compensation & misc.	-	-	-
Other than insurance trust funds	9,749,168	6,736,108	3,013,060
Offsets to debt	905,426	798,831	106,595
Bond funds	562,661	297,924	264,737
Other	8,281,081	5,639,353	2,641,728

1/ Duplicative intergovernmental transactions are excluded.

2/ Charges include highways, parking facilities, sea and inland port facilities, natural resources, parks and recreation, housing and community development, solid waste management, and other charges.

3/ Includes capital outlay.

Source: U.S. Census Bureau, "Table 1. State and Local Government Finances by Level of Government and by State: 2014-15" (September 6, 2017) <<http://www.census.gov/govs/local/>> accessed June 20, 2018.

Table 9.18-- HAWAII STATE GOVERNMENT FINANCES: 2013 TO 2016

[Amount in thousands of dollars. For fiscal year ending June 30]

Category	2013	2014	2015	2016
Total revenue	12,963,337	15,075,025	13,065,465	13,417,567
General revenue	10,843,499	11,323,888	11,813,718	12,919,296
Intergovernmental revenue	2,331,449	2,810,537	2,697,519	2,943,334
Total taxes	6,111,278	6,052,795	6,485,563	6,919,035
General sales & gross rec.	2,944,487	2,825,041	2,992,707	3,206,154
Selective sales & gross rec.	987,733	1,022,621	1,089,489	1,109,748
License	248,574	243,007	252,431	263,130
Individual income	1,735,718	1,745,461	1,987,915	2,116,130
Corporate net income	123,661	126,045	72,249	108,169
Other taxes	71,105	90,620	90,772	115,704
Current charges	1,626,827	1,664,748	1,715,453	1,799,125
Misc. general revenue	773,945	795,808	915,183	1,257,802
Liquor stores revenue 1/	(X)	(X)	(X)	95
Insurance trust revenue	2,119,838	3,751,137	1,251,747	498,176
Total expenditure	11,506,877	12,548,539	12,337,211	12,190,221
General expenditure, by function	10,127,270	11,214,800	11,047,776	10,805,028
Education	3,404,040	3,388,553	3,232,483	3,386,370
Public welfare	2,098,924	2,585,280	2,480,019	2,758,485
Hospitals	799,790	821,973	870,397	627,076
Health	494,927	531,048	538,736	515,683
Highways	409,269	422,348	549,795	456,996
Police protection	34,307	37,362	38,254	38,801
Correction	200,984	216,708	217,301	266,716
Natural resources	113,135	115,926	136,924	176,518
Parks and recreation	95,856	92,890	99,041	71,879
Government administration	413,238	504,362	487,579	563,903
Interest on general debt	349,062	383,224	343,513	120,750
Other and unallocable	1,713,738	2,115,126	2,053,734	1,821,851
Utility expenditure	5,564	5,151	7,523	(X)
Insurance trust revenue	1,374,043	1,328,588	1,281,912	1,385,193
Exhibit: General expenditure	10,127,270	11,214,800	11,047,776	10,805,028
Intergovernment expenditure	250,010	255,885	267,863	134,933
Direct expenditure	9,877,260	10,958,915	10,779,913	10,670,095
Debt outstanding, long- & short-term	8,318,403	8,426,573	8,757,730	9,216,583
Cash and security holdings	16,242,691	19,176,589	20,516,627	22,382,636

X Not applicable.

1/ Hawaii has no state-operated liquor stores. Contacted Census Bureau for clarification.

Source: U.S. Census Bureau, "State Government Finances: 2013 (SG1300A1) (June 9, 2017); Ibid. 2014 (SG21400A1) (June 9, 2017); Ibid. 2015 (SG1500A1) (June 9, 2017); and Ibid. 2016 (SG1600A1) (March 22, 2018) <<http://www.census.gov/govs/state/>> accessed July 13, 2018.

Table 9.19-- STATE GOVERNMENT EXPENDITURES, GOVERNMENTAL FUNDS, BY FUNCTION: 2013 TO 2017

[In thousands of dollars. For fiscal year ending June 30. Table reflects changes in fund balances, governmental funds]

Function	2013	2014	2015	2016	2017
Total expenditures	9,103,240	9,829,887	10,254,158	10,628,399	11,362,828
Current	8,415,591	9,092,589	9,519,843	9,868,287	10,582,072
General government	408,538	543,129	573,820	673,236	701,083
Public safety	432,024	519,954	484,960	479,047	531,545
Highways	418,991	403,559	455,563	389,744	461,523
Conservation of nat'l resources	92,601	108,703	145,516	181,563	180,697
Health	779,755	828,088	855,797	876,820	873,703
Welfare	2,773,241	2,945,370	3,192,807	3,349,414	3,442,279
Lower education	2,358,763	2,603,774	2,619,156	2,828,013	2,973,583
Higher education	654,611	693,292	761,837	673,217	899,199
Other education	20,086	21,766	21,664	23,379	27,248
Culture and recreation	107,940	107,846	96,676	101,351	104,655
Urban redev. & housing 1/	66,243	65,228	71,384	54,446	63,807
Econ. devel. & assistance	157,468	158,379	176,919	159,483	179,127
Housing 1/	112,614	63,683	48,565	58,381	133,010
Other 1/	32,716	29,818	15,179	20,193	10,613
Debt service	687,649	737,298	734,315	760,112	780,756
Principal	399,382	458,983	444,791	444,791	484,274
Interest and others	288,267	278,315	289,524	315,321	296,482

1/ 'Housing' was a new category in 2013 with the amount reallocated from 'Other' in 2010 and 2012 and 'Urban redevelopment & housing' in 2011.

Source: Hawaii State Department of Accounting and General Services, *Comprehensive Annual Financial Report For The Fiscal Year Ended June 30, 2017* (p. 156)

<<https://ags.hawaii.gov/wp-content/uploads/2018/01/SOHCAFRFY2017Final.pdf>>
accessed January 29, 2018.

Table 9.20-- STATE GOVERNMENT REVENUES, GOVERNMENTAL FUNDS: 2013 TO 2017

[In thousands of dollars. For fiscal year ending June 30. Table reflects changes in fund balances, governmental funds]

Function	2013	2014	2015	2016	2017
Total revenues	9,024,984	9,125,004	9,737,152	10,309,851	10,516,019
Total taxes	5,805,273	5,698,633	6,109,130	6,450,508	6,610,703
General excise	2,991,792	2,816,346	3,021,418	3,192,469	3,189,599
Net income - corp. & personal	1,804,409	1,840,963	2,047,327	2,157,879	2,286,017
Public service companies	163,930	166,179	163,481	152,760	122,159
Transient accommodations	186,377	188,721	202,345	233,082	299,712
Tobacco and liquor	161,066	155,990	165,137	161,239	160,906
Liquid fuel	87,645	88,707	88,449	89,702	84,933
Insurance companies' premiums	133,585	139,074	147,767	154,690	166,836
Vehicle weight and registration	121,605	124,686	125,113	130,051	132,974
Rental motor/tour vehicle surcharge	52,112	42,853	51,941	54,873	53,189
Franchise	22,673	38,983	19,930	14,691	11,174
Other	80,079	96,131	76,222	109,072	103,204
Non-taxes	3,219,711	3,426,371	3,628,022	3,859,343	3,905,316
Interest and investment (loss) income	25,502	13,163	16,024	22,564	30,676
Charges for current services	369,269	363,791	384,380	431,181	460,211
Intergovernmental	2,372,480	2,650,876	2,803,989	2,995,768	2,938,557
Rentals	28,633	31,846	31,127	32,371	35,530
Fines, forfeitures, and penalties	36,802	33,087	37,201	35,738	39,203
Licenses and fees	46,839	47,209	42,463	45,738	46,893
Revenues from private sources	104,670	112,916	121,366	126,450	105,857
Other	235,516	173,483	191,472	169,533	248,389

Source: Hawaii State Department of Accounting and General Services, *Comprehensive Annual Financial Report For The Fiscal Year Ended June 30, 2017* (p. 156)
 <<https://ags.hawaii.gov/wp-content/uploads/2018/01/SOHCAFRFY2017Final.pdf>>
 accessed January 29, 2018.

Table 9.21-- LOCAL GOVERNMENT REVENUES: 2012

[Data rounded to thousands of dollars. For fiscal year ending June 30. Based on sample]

Subject	Total	City & County of Honolulu	Other counties	Special district 1/
Revenue	3,533,454	2,412,211	1,083,084	38,159
General revenue	3,193,742	2,195,211	960,372	38,159
Intergovernmental revenue	538,734	314,318	205,926	18,490
From Federal gov't	299,649	218,849	80,784	16
From State gov't	238,238	95,055	125,142	18,041
From local gov'ts	847	414	-	433
Gen. rev. from own sources	2,655,008	1,880,893	754,446	19,669
Taxes	1,931,500	1,316,440	615,060	-
Property	1,310,590	813,319	497,271	-
Sales & gross receipts	414,034	341,519	72,515	-
General sales tax	190,665	190,665	-	-
Selective sales	223,369	150,854	72,515	-
Motor fuel	71,905	49,225	22,680	-
Public utilities	151,464	101,629	49,835	-
Motor vehicle license	167,918	139,322	28,596	-
Other taxes	38,958	22,280	16,678	-
Charges & misc. gen. rev.	723,508	564,453	139,386	19,669
Current charges	647,766	525,888	120,990	888
Highways	25,231	4,364	20,867	-
Parking facilities	8,521	8,459	62	-
Natural resources	12	-	-	12
Parks & recreation	30,848	28,426	2,422	-
Housing & comm. dev.	1,728	1,154	574	-
Sewerage	424,245	363,594	60,651	-
Solid waste mgt.	143,129	116,154	26,975	-
Other charges	14,052	3,737	9,439	876
Misc. general rev.	75,742	38,565	18,396	18,781
Interest earnings	7,769	4,718	2,972	79
Special assessments	17,159	15,214	1,945	-
Sale of property	350	183	167	-
Other gen. revenue	50,464	18,450	13,312	18,702
Utility revenue	339,712	217,000	122,712	-
Water supply	280,595	159,508	121,087	-
Transit	59,117	57,492	1,625	-

1/ Hawaii statutes allow creation thereof but only Office of Hawaiian Affairs and soil and water conservation districts are counted as governments. See also *Individual State Descriptions: 2012* <<http://www2.census.gov/govs/cog/2012isd.pdf>>.

Source: U.S. Census Bureau, "Table 2. Local Government Finances by Type of Government and State: 2011 - 12" (revised December 9, 2016) <<http://www2.census.gov/govs/local/12slsstab2a.xls>> accessed January 3, 2017.

Table 9.22--LOCAL GOVERNMENT EXPENDITURES: 2012

[Data are rounded to thousands of dollars. For fiscal year ending June 30. Based on sample]

Subject	Total	City & County of Honolulu	Other counties	Special district 1/
Expenditure	3,400,148	2,324,071	1,032,822	43,255
Intergov't expenditure	11	-	-	11
Direct expenditure	3,400,137	2,324,071	1,032,822	43,244
Current operations	2,237,075	1,380,219	814,137	42,719
Capital outlay	953,812	768,394	184,893	525
Construction	840,592	685,570	155,017	5
Other capital outlay	113,220	82,824	29,876	520
Interest on debt	209,250	175,458	33,792	-
Exhibit: Salaries and wages	820,618	464,555	346,051	10,012
Direct expenditure by function	3,400,137	2,324,071	1,032,822	43,244
Direct general expenditure	2,474,797	1,553,966	877,587	43,244
Capital outlay	515,429	367,467	147,437	525
Other direct general exp.	1,959,368	1,186,499	730,150	42,719
Education services	-	-	-	-
Education	-	-	-	-
Elem. & secondary	-	-	-	-
Libraries	-	-	-	-
Social serv. & inc. maint.	58,028	24,340	33,688	-
Public welfare	33,688	-	33,688	-
Vendor payments	8,658	-	8,658	-
Other public welfare	25,030	-	25,030	-
Health	24,340	24,340	-	-
Transportation	255,270	125,559	129,711	-
Highways	254,708	124,997	129,711	-
Capital outlay	135,321	83,730	51,591	-
Parking facilities	562	562	-	-
Public safety	559,882	347,810	212,072	-
Police protection	358,771	242,433	116,338	-
Fire protection	194,866	105,377	89,489	-
Prot. insp. & regulation	6,245	-	6,245	-

Continued on next page.

Table 9.22-- LOCAL GOVERNMENT EXPENDITURES: 2012 -- Con.

Subject	Total	City & County of Honolulu	Other counties	Special district 1/
Environment and housing	831,336	644,071	186,710	555
Natural resources	792	229	8	555
Capital outlay	229	229	-	-
Parks and recreation	173,645	118,723	54,922	-
Capital outlay	31,216	25,354	5,862	-
Housing & comm. dev.	90,437	57,942	32,495	-
Sewerage	267,601	224,214	43,387	-
Capital outlay	123,137	117,585	5,552	-
Solid waste mgt'ment	298,861	242,963	55,898	-
Capital outlay	101,002	98,191	2,811	-
Gov't admin.	327,065	124,093	202,972	-
Financial admin.	64,242	34,225	30,017	-
Judicial and legal	64,265	23,540	40,725	-
General public bldngs	91,625	35,435	56,190	-
Other gov't admin.	106,933	30,893	76,040	-
Interest on general debt	196,717	166,786	29,931	-
General expenditure, n.e.c.	246,499	121,307	82,503	42,689
Misc. comm. activities	1,129	-	1,129	-
Other and unallocable	245,370	121,307	81,374	42,689
Utility expenditure	925,340	770,105	155,235	-
Capital outlay	438,383	400,927	37,456	-
Water supply	278,233	137,522	140,711	-
Transit	647,107	632,583	14,524	-
Debt outstanding	5,626,998	4,701,881	925,117	-
Short-term	33,000	-	33,000	-
Long-term	5,593,998	4,701,881	892,117	-
Public debt for private purposes	29,052	-	29,052	-
Long-term debt issued	616,293	598,089	18,204	-
Long-term debt retired	483,636	410,961	72,675	-
Cash and security holdings	2,951,351	1,849,902	743,069	358,380
Other than insurance trust funds	2,951,351	1,849,902	743,069	358,380
Offsets to debt	71,593	40,789	30,804	-
Bond funds	171,577	47,323	124,254	-
Other	2,708,181	1,761,790	588,011	358,380

1/ Hawaii statutes allow creation thereof but only Office of Hawaiian Affairs and soil and water conservation districts are counted as governments. See also *Individual State Descriptions: 2012* <<http://www2.census.gov/govs/cog/2012isd.pdf>>.

Source: U.S. Census Bureau, "Table 2. Local Government Finances by Type of Government and State: 2011 - 12" (revised December 9, 2016) <<http://www2.census.gov/govs/local/12slsstab2a.xls>> accessed January 3, 2017.

Table 9.23-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1990 TO 2015

Tax year	Number of returns	Number of exemptions 1/	Adjusted gross income (less deficit)		
			Total (\$1,000)	Per return (dollars)	Per exemption 1/ (dollars)
1990	555,488	1,145,166	17,462,616	31,437	15,249
1991	567,412	1,173,631	17,778,657	31,333	15,148
1992	569,334	1,179,166	18,398,690	32,316	15,603
1993	556,041	1,173,229	18,519,252	33,306	15,785
1994	554,077	1,172,855	18,507,502	33,402	15,780
1995	549,519	1,171,533	19,057,384	34,680	16,267
1996	549,619	1,066,834	19,537,774	35,548	18,314
1997	552,105	1,197,378	20,367,085	36,890	17,010
1998	553,525	1,090,735	20,874,106	37,711	19,138
1999	558,612	1,093,731	22,327,292	39,969	20,414
2000	572,178	1,110,699	23,929,238	41,821	21,544
2001	577,693	(2/)	23,882,640	41,341	(2/)
2002	584,605	1,138,413	24,160,873	41,329	21,223
2003	591,084	1,149,652	25,718,250	43,510	22,370
2004	606,129	1,172,464	28,113,640	46,382	23,978
2005	621,014	1,194,091	31,284,219	50,376	26,199
2006	638,212	1,198,076	33,030,898	51,755	27,570
2007 3/	694,035	1,277,961	35,510,051	51,165	27,786
2008	656,452	1,232,329	33,877,950	51,608	27,491
2009	648,846	1,241,352	33,438,301	51,535	26,937
2010	653,371	1,257,443	33,362,224	51,062	26,532
2011	661,948	1,270,737	34,372,459	51,926	27,049
2012	665,320	1,272,430	36,814,360	55,333	28,932
2013	675,280	1,282,860	37,478,298	55,500	29,215
2014	681,840	1,289,380	39,689,089	58,209	30,782
2015	688,570	1,291,950	41,845,278	60,771	32,389

1/ Exemptions for age or blindness included since 1981. "Number of exemptions" also includes responses of taxpayers who checked the boxes on their tax returns for age 65 or over or for blindness, partly to justify the additional standard deductions for age or blindness. This allows comparability across the period except these responses were not included in the 1996 statistics, so data for that year are not altogether comparable with those for 1997 and years preceding 1996.

2/ Number of exemptions unavailable for all income classes.

3/ Includes returns that were filed by individuals only to receive the economic stimulus payment and who had no other reason to file.

Source: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income. Individual Income Tax Returns* (annual); *SOI Bulletin, Winter 1990-91, p. 58; Spring 1993, p. 148; Fall 1994, p. 148;* and thereafter *Spring 1995 through Spring 2003* and thence Tax Year "Individual Income and Tax Data, by State and Size of Adjusted Gross Income" (annual) <<http://www.irs.gov/uac/SOI-Tax-Stats-Historic-Table-2>> accessed February 26, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.24-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 2014 AND 2015

Tax year and size of adj. gross income 1/	Number of returns	Adjusted gross income less deficit (\$1,000)	Total income tax liability		
			Number of returns	Amount (\$1,000)	Average (dollars)
2014					
All returns	681,840	39,689,089	2/ 515,820	4,942,671	9,582
Under \$1 3/	12,090	-767,007	1,940	4,907	2,529
\$1 under \$50,000	405,440	9,233,106	256,920	498,951	1,942
\$50,000 under \$75,000	98,040	6,024,620	92,730	524,990	5,661
\$75,000 under \$100,000	62,840	5,446,912	61,500	540,239	8,784
\$100,000 under \$200,000	82,710	11,050,437	82,030	1,405,795	17,138
\$200,000 under \$500,000	17,750	4,957,020	17,720	975,630	55,058
\$500,000 or more	2,970	3,744,001	2,970	992,159	334,060
2015					
All returns	4/ 688,570	41,845,278	2/ 526,240	5,362,397	10,190
Under \$1 3/	11,920	-792,777	1,840	4,241	2,305
\$1 under \$50,000	400,390	9,212,581	255,260	510,441	2,000
\$50,000 under \$75,000	99,590	6,114,326	94,480	542,280	5,740
\$75,000 under \$100,000	64,480	5,585,833	63,140	563,479	8,924
\$100,000 under \$200,000	89,260	11,973,355	88,600	1,530,870	17,278
\$200,000 under \$500,000	19,600	5,466,263	19,580	1,068,642	54,578
\$500,000 or more	3,340	4,285,697	3,330	1,142,444	343,076

1/ Filed in following year.

2/ Published sum is 10 higher than sum of components.

3/ Includes returns with adjusted gross deficit. Beginning with 2011 shown explicitly in 'Under \$1'.

4/ Published sum is 10 lower than sum of components.

Source: U.S. Treasury Department, Internal Revenue Service, "Individual Income and Tax Data, by State and Size of Adjusted Gross Income" (annual) <<http://www.irs.gov/uac/SOI-Tax-Stats-Historic-Table-2>> accessed February 26, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 9.25-- FEDERAL INDIVIDUAL INCOME TAX RETURNS, SELECTED INCOME AND TAX ITEMS:
TAX YEAR 2014 AND 2015**

[Money amounts in thousands of dollars unless otherwise noted. State totals do not include deleted ZIP code totals]

Adjusted gross income size (dollars)	No. of returns	No. of exemptions	Adjusted gross income	Salaries and wages		Taxable interest		Total tax liability	
				No. of returns	Amount	No. of returns	Amount	No. of returns	Amount
Total - 2014	669,610	1,272,140	40,295,816	553,300	27,531,633	222,190	236,890	513,720	4,891,386
1 under 25,000	229,860	313,110	2,853,927	175,250	2,228,262	38,770	17,941	111,090	100,451
25,000 under 50,000	175,510	324,850	6,377,676	154,040	5,316,040	41,350	21,877	145,740	398,367
50,000 under 75,000	98,030	207,290	6,024,014	82,570	4,557,976	39,540	26,644	92,720	524,908
75,000 under 100,000	62,830	152,370	5,446,019	53,140	3,977,735	32,230	24,083	61,490	540,097
100,000 under 200,000	82,790	220,850	11,081,669	71,360	7,714,540	53,360	53,856	82,110	1,412,437
200,000 or more	20,590	53,670	8,512,511	16,940	3,737,080	16,940	92,489	20,570	1,915,126
Total - 2015	676,540	1,274,850	42,272,793	556,470	28,943,946	220,320	242,304	524,260	5,249,139
1 under 25,000	222,830	296,700	2,748,939	167,910	2,141,285	37,240	17,733	106,790	98,430
25,000 under 50,000	177,500	321,920	6,462,197	155,450	5,401,576	39,590	21,399	148,390	411,883
50,000 under 75,000	99,580	205,850	6,113,868	83,670	4,653,968	38,130	24,151	94,470	542,210
75,000 under 100,000	64,470	153,530	5,585,066	54,080	4,082,686	31,480	24,290	63,130	563,347
100,000 under 200,000	89,310	237,020	11,991,735	76,490	8,467,161	55,320	53,544	88,650	1,534,721
200,000 or more	22,850	59,830	9,370,988	18,870	4,197,270	18,560	101,187	22,830	2,098,548

Source: U.S. Internal Revenue Service, Statistics of Income, records, "Hawaii Individual Income Tax Returns: Selected Income and Tax Items by State, ZIP Code and Size of Adjusted Gross Income, Tax Year 2014"; and Ibid. "Tax Year 2015"

<<https://www.irs.gov/statistics/soi-tax-stats-individual-income-tax-statistics-zip-code-data-soi>> accessed February 15, 2017 and February 26, 2018.

**Table 9.26-- FEDERAL INDIVIDUAL INCOME TAX RETURNS, SELECTED INCOME AND TAX ITEMS,
BY SELECTED ZIP CODES: TAX YEAR 2015**

[Money amounts in thousands of dollars. State total does not include deleted ZIP code totals, such as those ZIP Codes with fewer than 100 returns, a single building or identified as nonresidential. ZIP codes were selected on basis of highest tax liability]

Zip code	No. of returns	Number of		Adj. gross income	Salaries and wages		Taxable interest		Total tax liability	
		Exemp-tions	Depen-dents		No. of returns	Amount	No. of returns	Amount	No. of returns	Amount
State total	676,540	1,274,850	381,730	42,272,793	556,470	28,943,946	220,320	242,304	524,260	5,249,139
96816	26,450	44,080	10,390	2,070,480	20,130	1,217,181	11,680	18,715	21,610	313,968
96734	23,580	45,960	12,820	2,055,486	18,970	1,303,775	9,930	12,681	19,310	300,685
96744	28,100	51,750	14,310	2,004,568	22,580	1,359,659	11,350	8,945	22,900	252,901
96822	21,810	34,870	7,400	1,660,899	16,950	1,011,492	9,440	12,702	18,090	251,300
96821	9,840	17,550	4,070	1,316,549	6,930	676,219	5,760	17,247	8,220	247,582
96825	15,180	28,460	7,150	1,545,337	11,330	915,819	8,170	12,204	12,980	239,565
96789	26,760	53,420	16,320	1,981,915	22,590	1,470,465	11,570	6,787	22,220	230,211
96817	28,620	50,520	14,110	1,536,089	23,030	1,041,900	8,920	8,646	21,150	192,369
96701	21,480	38,430	10,050	1,460,940	17,200	989,988	9,200	7,261	17,520	181,677
96797	36,590	71,650	23,410	1,897,057	32,550	1,541,498	9,830	4,129	27,690	180,926
96706	31,330	66,720	23,620	1,861,035	28,520	1,585,142	7,810	2,852	24,190	174,336
96815	15,600	23,440	3,860	1,142,030	12,160	683,849	5,700	10,337	13,050	173,431
96813	13,080	21,220	4,790	1,048,835	10,360	637,257	4,960	10,126	10,530	166,920
96814	11,320	17,700	3,450	863,324	8,810	520,155	4,290	6,474	9,270	143,677
96707	19,540	40,730	13,950	1,313,544	17,650	1,065,409	5,380	2,483	15,610	142,905
96720	22,350	42,660	13,390	1,190,805	17,680	779,728	7,820	6,737	16,040	135,484
96818	23,230	52,130	18,430	1,321,581	20,620	1,080,030	7,420	3,834	17,620	125,797
96782	18,570	34,470	9,590	1,075,815	14,460	732,173	7,300	4,557	14,840	111,387
96819	24,310	47,060	16,100	1,108,134	21,200	853,528	5,450	4,110	17,080	108,342
96740	13,470	25,230	7,200	824,027	10,600	487,610	4,030	9,288	10,500	102,734

Source: U.S. Internal Revenue Service, Statistics of Income, "Hawaii Individual Income Tax Returns: Selected Income and Tax Items by State, ZIP Code and Size of Adjusted Gross Income, Tax Year 2015" <<https://www.irs.gov/statistics/soi-tax-stats-individual-income-tax-statistics-zip-code-data-soi>> accessed February 26, 2018.

**Table 9.27-- SELECTED CHARACTERISTICS OF INDIVIDUAL FEDERAL
INCOME TAX RETURNS: TAX YEAR 2014 AND 2015**

Subject	2014		2015	
	Number of returns	Amount (\$1,000)	Number of returns	Amount (\$1,000)
All returns and adj. gross income (AGI) 1/	681,840	39,689,089	688,570	41,845,278
Salaries and wages	556,090	27,633,762	559,090	29,216,879
Taxable interest income	226,510	313,582	224,400	288,279
Ordinary dividends	138,740	821,822	137,680	834,221
Business or prof. net income (less loss)	104,930	1,655,270	106,720	1,749,553
Farm returns	5,590	(NA)	5,610	(NA)
Net capital gain (less loss)	114,860	2,103,983	115,420	2,146,273
Taxable indiv. retire. arrangements distrib.	62,180	973,785	64,300	1,046,096
Taxable pensions and annuities	139,450	3,781,588	140,490	3,940,056
Unemployment compensation	30,630	165,304	24,440	125,610
Taxable social security benefits	95,490	1,385,839	98,970	1,480,365
Self-employment (keogh) retirement plans	5,320	113,506	5,470	120,822
Exemptions	1,289,380	(NA)	1,291,950	(NA)
Itemized deductions	199,420	5,114,169	201,110	5,303,756
State and local income taxes	169,120	1,406,840	171,210	1,563,731
State and local general sales tax	24,020	24,324	23,490	23,265
Real estate taxes	151,360	322,346	154,930	354,775
Total taxes paid	198,410	1,788,953	200,040	1,981,499
Home mortgage interest paid	140,280	1,794,931	141,980	1,810,552
Charitable contributions	161,680	633,667	161,050	656,041
Taxable income	536,790	27,296,866	546,770	29,131,594
Total tax credits	217,770	321,550	217,710	329,144
Residential energy tax credit	15,520	54,568	15,050	59,409
Child tax credit	103,660	130,044	104,070	130,495
Child (and dependent) care credit	28,660	14,452	29,260	15,107
Earned income credit	114,020	246,619	110,700	239,484
Excess earned income credit (refundable)	96,730	219,429	92,900	211,803
Alternative minimum tax	13,590	88,327	14,750	98,433
Total tax payments	642,790	5,964,027	648,360	6,393,773
Income tax (before credits)	532,970	4,906,377	543,170	5,311,465
Tax liability	515,820	4,942,671	526,240	5,362,397
Tax due at time of filing	136,230	560,043	139,010	610,575
Overpayments (negative amount)	498,700	1,354,359	500,380	1,381,479

NA Not available.

1/ Adjusted gross income (AGI) includes deficit.

Source: U.S. Internal Revenue Service, Table 2.-- Individual Income and Tax Data, by State and Size of Adjusted Gross Income, Tax Year 2014 <<http://www.irs.gov/pub/irs-soi/14in12hi.xls>> accessed March 7, 2017; and Ibid. Tax Year 2015 <<https://www.irs.gov/pub/irs-soi/15in12hi.xlsx>> accessed February 26, 2018.

Table 9.28-- INTERNAL REVENUE SERVICE OPERATIONS: 2013 TO 2017

[In number or thousands of dollars. For fiscal years ending September 30. Numbers shown for the State of Hawaii do not necessarily indicate the Federal tax burden, since, in many instances, taxes are collected in one State from residents of, or operations in, another. Also, taxes of corporations may be paid from the principal office, although operations of these corporations may be located in one or more state(s). Refunds may be issued for a tax paid in a prior year]

Subject	2013	2014	2015	2016	2017
Total number of returns filed	1,109,435	1,108,736	1,123,626	1,123,282	1,126,627
Individual income tax	667,040	675,858	682,348	687,716	687,190
Estate and trust income tax	14,224	14,129	14,669	14,374	13,434
Partnership tax	12,181	12,239	12,641	12,883	13,026
Corporate income tax 1/	28,242	27,299	27,661	27,423	26,806
Estate tax	173	163	213	182	178
Gift tax	1,596	1,515	1,168	1,184	1,167
Employment taxes	121,027	120,548	119,688	120,176	119,965
Excise taxes	1,271	1,332	1,341	1,289	1,301
Other 2/	263,681	255,653	263,897	258,055	263,560
Total no. of returns filed electronically	602,823	632,712	660,297	683,631	698,448
Individual income tax	507,466	530,129	548,765	564,772	567,815
Estate and trust income tax	8,361	8,777	9,410	9,784	9,157
Partnership tax	5,583	6,400	7,055	7,930	8,364
Corporate income tax 1/	10,617	12,006	13,030	14,225	14,704
Employment taxes	26,436	27,695	30,947	33,798	38,118
Other 3/	44,360	47,705	51,090	53,122	60,290
Total number of refunds issued	549,605	536,883	541,056	546,574	545,207
Business income tax	2,502	2,097	2,182	1,952	1,931
Individual income tax 4/	539,181	528,732	532,548	538,437	537,273
Employment taxes	7,605	5,798	6,016	5,878	5,743
Estate tax	(D)	18	25	(D)	(D)
Gift tax	(D)	8	9	(D)	(D)
Excise taxes	293	230	276	283	229
Total amount of refunds issued (\$1,000)	1,474,782	1,452,114	1,443,955	1,512,841	1,462,267
Business income tax	112,278	87,680	110,568	107,204	65,289
Individual income tax 4/	1,350,194	1,354,430	1,324,862	1,397,640	1,379,735
Employment taxes	8,011	5,962	5,917	5,476	9,456
Estate tax	(D)	1,348	2,181	(D)	(D)
Gift tax	(D)	10	75	(D)	(D)
Excise taxes	1,347	2,685	351	715	964

D Not shown to avoid disclosure of information about specific taxpayers. However, the data are included in the appropriate totals.

1/ Includes S corporations and C or other corporations income tax.

2/ Includes Individual estimated income tax, Estate and trust estimated income tax, Tax-exempt organizations, and supplemental documents.

3/ Tax-exempt organizations; for 2011 and beyond also includes supplemental documents; 2014 and beyond also includes excise taxes.

4/ For 2011 to 2016, includes individual income tax and estate and trust income tax.

Source: U.S. Internal Revenue Service, *Internal Revenue Service Data Book* (annual)

<<http://www.irs.gov/uac/SOI-Tax-Stats-IRS-Data-Book>> accessed April 2, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 9.29-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1980 TO 2005 AND 2012 TO 2015**

Year income was received	Number of resident returns	Adjusted gross income 1/ (\$1,000)	Taxable income (\$1,000)	Tax liability (\$1,000)
1980	403,311	6,382,375	4,207,796	317,134
1981	429,100	6,759,002	4,416,316	332,288
1982	422,535	6,912,014	4,469,031	339,108
1983	424,194	7,088,769	4,695,499	360,551
1984	422,245	7,604,199	4,980,484	387,300
1985	427,572	8,060,406	5,284,942	415,544
1986	426,532	8,370,257	5,493,138	437,263
1987	468,363	10,147,149	7,170,035	556,135
1988	483,913	11,504,190	8,387,106	658,879
1989	510,512	13,091,785	9,540,367	729,649
1990	520,785	13,958,079	10,260,825	794,478
1991	527,993	14,648,266	10,745,622	840,485
1992	531,758	15,284,606	11,117,647	877,623
1993	532,533	15,307,960	11,178,223	884,048
1994	545,715	15,951,730	11,617,978	923,601
1995	521,194	15,307,772	11,115,466	883,119
1996	523,967	15,966,451	11,510,879	917,117
1997	514,563	16,651,182	12,245,720	983,677
1998	516,582	17,212,238	12,734,546	1,027,478
1999	517,178	18,276,952	13,760,031	949,346
2000	522,132	19,086,936	14,281,311	996,891
2001	522,741	18,815,637	14,056,450	938,328
2002	523,103	19,014,458	14,349,573	904,879
2003	526,516	19,886,764	15,082,448	959,014
2004	544,202	22,819,751	17,706,606	1,149,431
2005	554,563	24,910,803	19,370,582	1,274,707
2012	601,420	29,790,461	24,368,125	1,652,885
2013	613,603	30,138,474	24,231,837	1,631,874
2014	618,366	30,854,325	26,194,790	1,785,873
2015	624,765	34,006,946	28,137,078	1,937,065

1/ Beginning in 1998, includes returns with negative AGI. Prior to 1998, the category was footnoted as 'exclusive of losses' to indicate returns with negative AGI were excluded.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals* (annual), Table 1 (1980 - 2004) and Table A-1 (2005 and 2012 to 2015) and for 1994 to 2005 and 2012 to 2015 <http://tax.hawaii.gov/stats/a5_1annual/a5_5ind_inc/> accessed March 13, 2018.

**Table 9.30-- NONRESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1980 TO 2005 AND 2012 TO 2015**

Year income was received	Number of nonresident returns	Hawaii adjusted gross income 1/ (\$1,000)	Taxable income (\$1,000)	Tax liability (\$1,000)
1980	20,547	124,382	68,021	4,604
1981	19,220	125,460	63,493	4,209
1982	18,734	117,704	59,774	4,206
1983	18,269	141,569	76,856	5,397
1984	18,253	146,749	76,531	5,253
1985	19,761	152,493	83,007	5,958
1986	19,750	158,694	85,946	6,023
1987	24,019	248,057	153,184	10,587
1988	27,942	359,460	246,336	17,677
1989	28,335	348,697	235,916	15,939
1990	34,842	620,995	465,934	33,863
1991	37,192	487,673	330,025	22,703
1992	38,309	414,858	244,432	24,294
1993	37,657	472,539	323,031	22,373
1994	38,986	514,754	362,145	26,152
1995	34,651	420,322	293,600	20,302
1996	32,407	408,173	287,062	20,695
1997	48,183	526,607	(2/)	49,166
1998	48,815	494,790	(2/)	53,546
1999	49,545	564,958	685,077	44,132
2000	52,742	1,041,679	1,109,114	61,339
2001	52,429	744,438	789,217	49,897
2002	55,189	747,868	854,137	51,918
2003	58,416	977,389	1,077,268	67,263
2004	61,860	1,375,671	1,429,947	92,175
2005	67,586	2,033,074	2,013,637	134,034
2012	77,650	907,688	1,576,147	105,730
2013	83,707	1,075,191	1,690,886	112,450
2014	85,182	937,171	1,757,436	116,197
2015	92,301	1,261,341	2,024,110	137,201

1/ Beginning in 1998, includes returns with negative AGI. Prior to 1998, the category was footnoted as 'exclusive of losses' to indicate returns with negative AGI were excluded.

2/ Hawaii Taxable Income not on N-15 Return.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals* (annual)
<http://tax.hawaii.gov/stats/a5_1annual/a5_5ind_inc/> accessed March 13, 2018.

Table 9.31-- SELECTED DATA ON RESIDENT TAX RETURNS WITH AT LEAST ONE AGE EXEMPTION: TAX YEAR 2013 TO 2015

[In millions of dollars unless otherwise indicated. Elderly taxpayers, 65 years of age or older, may claim an extra exemption. There was no *Hawaii Income Patterns: Individuals* report for 2006 to 2011 and the resumed series does not include all the detailed data in the 2005 and earlier reports]

Item	Total	Taxable returns	Nontaxable returns
2013			
Number of tax returns	129,080	63,373	65,707
Hawaii adjusted gross income (AGI)	4,356	4,440	-84
Standard deductions	153	62	91
Itemized deductions	1,336	745	591
Taxable income	3,419	3,419	(X)
Tax liability before credits	244	244	(X)
Tax liability after credits	192	203	-11
Number of taxpayers over 65	124,862	60,003	64,859
Number of taxpayers' spouses over 65	46,700	23,656	23,044
2014			
Number of tax returns	133,783	68,460	65,323
Hawaii adjusted gross income (AGI)	4,669	5,198	-529
Standard deductions	160	67	93
Itemized deductions	1,390	800	590
Taxable income	4,102	4,102	(X)
Tax liability before credits	294	294	(X)
Tax liability after credits	1/ 248	256	-8
Number of taxpayers over 65	129,328	64,843	64,485
Number of taxpayers' spouses over 65	48,548	25,753	22,795
2015			
Number of tax returns	138,354	71,561	66,793
Total age exemptions	184,026	94,893	89,133
Total age exemptions cost	203	102	102
Hawaii adjusted gross income (AGI)	5,446	5,718	-272
Standard deductions	148	67	81
Itemized deductions	1,515	882	632
Taxable income	4,528	4,528	(X)
Tax liability before credits	329	329	(X)
Tax liability after credits	282	290	-8
Number of taxpayers over 65	133,668	67,743	65,925
Number of taxpayers' spouses over 65	50,358	27,150	23,208

X Not applicable.

1/ Unpublished Hawaii State Department of Taxation correction.

Source: Hawaii State Department of Taxation, *Hawaii Individual Income Tax Statistics Tax Year* (annual) table 7 <http://tax.hawaii.gov/stats/a5_1annual/a5_5ind_inc/> accessed March 13, 2018 and records; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 9.32-- SOURCES OF INCOME REPORTED BY NONRESIDENT
TAXPAYERS: TAX YEARS 1999 TO 2005 AND 2015**

[In thousands of dollars. There were no *Hawaii Income Patterns: Individuals* reports for 2006 to 2011 and the detailed data in the 2005 and earlier reports were not available in the 2012 to 2014 reports to update this table]

Year	Total	Salaries and wages	Interest	Ordinary dividends	Capital assets/ other property	Rents, royalties, partnerships, S corp., estates & trusts 1/	All other sources 2/
1999	585,507	465,300	22,253	6,484	180,086	65,494	-154,110
2000	1,068,694	537,628	26,650	10,642	303,511	229,352	-39,089
2001	768,756	560,450	20,456	6,727	231,958	41,672	-92,507
2002	776,935	574,547	23,657	5,846	224,685	60,020	-111,820
2003	1,009,463	609,472	26,659	7,310	381,082	80,640	-95,700
2004	1,407,217	651,388	37,757	8,774	712,124	81,568	-84,394
2005	2,071,899	744,285	39,257	10,301	1,101,584	104,315	72,157
2015	1,317,815	976,614	3,898	12,886	70,271	17,156	236,991

1/ For 2015, category (in \$1,000) is 'Partnerships, S Corporations' of \$15,128; and 'Estates and Trusts' of \$2,028.

2/ For 2015, category (in \$1,000) includes 'Business income' of \$23,090; and 'Unemployment Compensation' of \$4,332; 'Pensions and Annuities' of \$14,744; and 'All Other Sources' of \$194,825.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals* (annual) and <http://tax.hawaii.gov/stats/a5_1annual/a5_5ind_inc/> accessed March 13, 2018.

Table 9.33-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 2015, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (\$1,000)	Taxable income (\$1,000)	Tax liability (\$1,000)
All resident returns	624,765	34,006,946	28,137,078	1,937,065
Taxable resident returns	518,656	34,535,740	28,137,078	1,937,065
Under \$5,000	14,952	53,466	16,493	242
\$5,000 under \$10,000	36,193	273,916	137,773	3,254
\$10,000 under \$20,000	74,249	1,110,867	717,090	27,893
\$20,000 under \$30,000	71,914	1,793,431	1,329,739	65,495
\$30,000 under \$40,000	62,582	2,180,417	1,695,211	93,603
\$40,000 under \$50,000	49,474	2,213,940	1,747,076	102,892
\$50,000 under \$75,000	76,488	4,681,686	3,696,856	230,257
\$75,000 under \$100,000	47,833	4,142,354	3,277,765	214,546
\$100,000 under \$150,000	48,601	5,875,716	4,717,778	323,982
\$150,000 under \$200,000	18,142	3,101,612	2,542,763	183,592
\$200,000 under \$300,000	10,454	2,485,462	2,233,585	169,595
\$300,000 and over	7,774	6,622,873	6,024,948	521,712
Nontaxable resident returns	106,108	-528,794	(X)	(X)
Loss	13,103	-935,903	(X)	(X)
Under \$5,000	70,436	78,904	(X)	(X)
\$5,000, under \$10,000	11,062	78,490	(X)	(X)
\$10,000 and over	11,507	249,715	(X)	(X)

X Not applicable.

1/ Includes returns with negative adjusted gross income.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, Tax Year 2015* (December 2017), table A-1 <http://tax.hawaii.gov/stats/a5_1annual/a5_5ind_inc/> accessed March 13, 2018.

Table 9.34-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN, 1982 TO 2005, AND BY COUNTY, 2005

[In dollars. There were no *Hawaii Income Patterns: Individuals* reports for 2006 to 2011 and the detailed data in the 2005 and earlier reports were not available in the 2012 to 2015 reports to update this table]

Year income was received	Taxable and nontaxable returns 1/			Taxable returns only		
	All returns	Joint	Other 2/	All returns	Joint	Other 2/
1982	11,178	23,737	6,080	15,466	27,285	9,636
1983	11,297	25,047	6,432	15,937	29,076	10,009
1984	12,035	25,290	6,858	16,565	28,935	10,540
1985	12,488	25,838	7,087	17,124	29,870	10,710
1986	12,941	26,576	7,768	17,747	31,755	11,557
1987	13,252	29,036	7,709	17,977	34,063	11,131
1988	14,749	31,787	8,910	18,956	36,706	12,452
1989	15,614	34,581	9,382	20,502	39,305	13,748
1990	16,297	35,355	10,351	21,250	40,924	14,286
1991	17,737	37,709	11,607	22,502	43,322	15,321
1992	18,042	38,707	11,909	23,462	45,138	16,389
1993	18,504	39,838	11,913	24,196	46,222	17,296
1994	18,827	39,782	12,070	25,265	46,778	17,922
1995	19,602	39,147	13,401	25,277	46,714	18,439
1996	19,834	39,079	13,217	25,393	47,505	18,294
1997	20,866	41,750	13,671	26,475	48,865	18,475
1998	21,065	42,534	13,944	26,838	50,147	18,615
1999	21,662	44,656	14,596	27,445	52,085	18,969
2000	22,157	46,636	14,764	27,948	54,353	19,352
2001	22,626	46,012	15,649	28,159	53,899	19,809
2002	22,757	46,853	15,707	28,881	55,554	20,219
2003	23,533	47,966	16,483	29,920	58,011	21,140
2004	24,704	51,351	17,116	31,064	60,776	21,719
2005	25,826	53,304	17,829	32,371	63,439	22,949
COUNTY: 2005						
Oahu	25,992	54,562	17,635	32,838	64,936	22,926
Maui	27,435	54,962	20,149	32,730	62,932	24,066
Hawaii	23,770	47,115	16,750	29,977	58,318	22,109
Kauai	24,675	49,913	17,729	31,947	59,233	21,841

1/ Includes returns with adjusted gross income losses.

2/ Includes single, married filing separately, heads of households, and qualifying surviving spouses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals* (annual) and <http://hawaii.gov/tax/a5_5ind_inc.htm> accessed March 13, 2008.

Table 9.35-- TAX CREDITS CLAIMED, BY TYPE OF CREDIT AND BY TYPE OF TAXPAYER: 2015

[In thousands of dollars]

Type of credit	Total	Individuals	Corporations	Financial corporations	Insurance underwriters	Fiduciaries	Exempt organizations
Total	303,921	163,154	101,398	15,083	18,620	5,195	416
Active tax credits							
Promote social welfare							
Refundable food/excise	26,854	26,854	-	-	-	-	-
Low-income household renters	3,321	3,321	-	-	-	-	-
Child and dependent care expenses	9,530	9,530	-	-	-	-	-
Child passenger restraint systems	74	74	-	-	-	-	-
Employment of vocational rehabilitation referrals	10	(D)	(D)	-	-	-	-
Low-income housing	19,501	273	793	9,444	8,992	-	-
School repair & maintenance	(D)	(D)	-	-	-	-	-
Lifeline telephone service	54	(X)	(X)	(X)	(X)	(X)	(X)
Encourage certain industries or econ. activities							
Fuel credit for commercial fishers	295	209	86	-	-	-	-
Motion picture, digital media & film production	39,920	1,082	38,838	-	-	-	-
Renewable energy technologies 1/	98,566	62,879	31,715	3,550	-	239	184
Enterprise zone	890	715	175	-	-	-	-
Ethanol facility	-	-	-	-	-	-	-
Important agricultural lands	388	(D)	(D)	-	-	(D)	-
Research activities	2,909	263	2,646	-	-	-	-
Capital infrastructure	1,113	980	130	-	-	3	-
Avoid double taxation or pyramiding of taxes							
Capital goods excise	30,201	5,653	21,782	2,089	-	446	232
Income tax paid to another state or foreign country	45,001	40,552	-	-	-	4,449	-
Expired tax credits							
Promote social welfare							
Individual development account contribution	-	-	-	-	-	-	-
Encourage certain industries or econ. activities							
High technology business investment	24,154	10,699	3,767	-	9,629	60	-
Energy conservation	(1/)	(1/)	(1/)	-	-	(1/)	-
Hotel construction & remodeling	248	(D)	(D)	-	-	-	-
Technology infrastructure renovation	(D)	(D)	-	-	-	-	-
Residential construction & remodeling	826	39	787	-	-	-	-

D Data in the cell were suppressed to prevent potential disclosure of confidential taxpayer information but are included in the total.

X Not applicable.

1/ Data for the energy conservation tax credit are included in the renewable energy tax credit.

Source: Hawaii State Department of Taxation, *Tax Credits Claimed by Hawaii Taxpayers: 2015* (December 2017), p. 27

<<http://files.hawaii.gov/tax/stats/stats/credits/2015credit.pdf>> accessed March 13, 2018.

**Table 9.36-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:
2016 AND 2017**

[In thousands of dollars. Data are on a cash basis accounting and may be distorted on a monthly basis, primarily due to cutoffs and out-of-period adjustments]

Source of revenue	Tax base		Tax collections	
	2016	2017	2016	2017
All sources	89,778,547	100,048,177	3,205,733	3,349,822
Sources taxed at 4 percent	67,168,419	74,878,617	2,686,737	2,995,145
Retailing	29,039,437	32,727,278	1,161,577	1,309,091
Services	13,551,064	15,097,644	542,043	603,906
Contracting	8,288,207	8,384,358	331,528	335,374
Theater, amusement, radio, etc.	397,992	460,606	15,920	18,424
Interest & all others 1/	3,099,605	3,444,984	123,984	137,799
Interest 1/	(NA)	(NA)	(NA)	(NA)
All others 1/	(NA)	(NA)	(NA)	(NA)
Commissions	1,110,624	1,331,517	44,425	53,261
Hotel rentals	4,502,385	5,186,494	180,095	207,460
All other rentals	6,320,222	7,276,281	252,809	291,051
Use	858,883	969,456	34,355	38,778
Sources taxed at other rates 2/	22,610,128	25,169,559	111,400	123,987
Insurance solicitors	471,475	531,747	707	798
Sugar processing	-	-	-	-
Pineapple canning	-	-	-	-
Producing	283,553	346,653	1,418	1,733
Manufacturing	689,126	733,105	3,446	3,666
Wholesaling	13,484,817	15,729,763	67,424	78,649
Services (intermediary)	735,140	949,174	3,676	4,746
Use	6,946,017	6,879,118	34,730	34,396
Unallocated net collections	(3/)	(3/)	407,596	230,691

NA Not available.

1/ Beginning with the 2016, categories were combined.

2/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

3/ This report reflects the tax bases for only allocated collections. The base for the unallocated net collections cannot be determined due to differing tax rates which may be applicable.

Source: Hawaii State Department of Taxation, "General Excise And Use Tax Collections - Calendar Year Summary December 31, 2017" (Monthly 03-20-18) <http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed April 26, 2018.

Table 9.37-- TOBACCO TAX COLLECTIONS: 1994 TO 2017

[In dollars. Definitions and rates are as specified in Hawaii Revised Statutes Chapter 245 and §245-3 Taxes and as amended and "Outline of the Hawaii Tax System as of July 1, 2017" issued by the Department of Taxation <<http://files.hawaii.gov/tax/news/pubs/17outline.pdf>>]

Year	Cigarettes	Tax rate per cigarette	Other tobacco products 1/
1994	33,424,978	\$0.03 as of July 1, 1993	2,802,993
1995	34,683,672	\$0.03 as of July 1, 1993	2,765,172
1996	35,836,158	\$0.03 as of July 1, 1993	1,805,131
1997	32,878,288	\$0.04 as of Sept. 30, 1997	2,677,839
1998	35,694,448	\$0.05 as of July 1, 1998	3,804,475
1999	39,697,383	\$0.05 as of July 1, 1998	1,996,928
2000	40,777,139	\$0.05 as of July 1, 1998	2,941,355
2001	61,282,238	\$0.05 as of July 1, 1998	3,226,138
2002	64,892,154	\$0.06 as of Sept. 30, 2002	1,863,028
2003	75,760,904	\$0.065 as of June 30, 2003	1,715,058
2004	81,615,862	\$0.07 as of June 30, 2004	1,768,561
2005	83,630,255	\$0.07 as of June 30, 2004	2,328,665
2006	85,006,267	\$0.08 as of Sept. 30, 2006	5,403,122
2007	97,087,696	\$0.09 as of Sept. 30, 2007	2,972,626
2008	102,480,449	\$0.10 as of Sept. 30, 2008	3,470,170
2009	112,715,186	\$0.13 as of July 1, 2009	2,611,359
2010	128,909,763	\$0.15 as of July 1, 2010	6,171,466
2011	134,678,544	\$0.16 as of July 1, 2011	8,200,288
2012	126,334,359	\$0.16 as of July 1, 2011	7,560,663
2013	114,677,229	\$0.16 as of July 1, 2011	7,684,824
2014	119,603,479	\$0.16 as of July 1, 2011	7,729,105
2015	117,526,565	\$0.16 as of July 1, 2011	8,557,398
2016	114,328,717	\$0.16 as of July 1, 2011	8,760,847
2017	113,751,773	\$0.16 as of July 1, 2011	9,495,673

1/ Other [than cigarettes] tobacco products are now taxed at 70 percent and large cigars at 50 percent of the wholesale value. The tax rate on 'little cigars' changed on October 1, 2009 to \$0.11; on July 1, 2010 to equal the \$0.15 on cigarettes; and on July 1, 2011 to equal the \$0.16 on cigarettes.

Source: Hawaii State Department of Taxation, "Tobacco Tax Collections and Licenses" (annual calendar year summary) <http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed June 26, 2018.

Table 9.38-- LIQUOR TAX COLLECTIONS: 1990 TO 2017

[In thousands of dollars. Includes penalties and interest and permit fees. Definitions and rates are as specified in Hawaii Revised Statutes Chapter 244D, and as amended and "Outline of the Hawaii Tax System as of July 1, 2016" issued by the Department of Taxation <<http://files.hawaii.gov/tax/news/pubs/17outline.pdf>>]

Year	Total	Year	Total
1990	42,094	2004	43,426
1991	40,125	2005	43,594
1992	40,983	2006	47,001
1993	38,286	2007	44,705
1994	38,753	2008	47,568
1995	37,486	2009	45,332
1996	38,624	2010	44,961
1997	38,624	2011	48,433
1998 1/	38,361	2012	48,612
1999	37,139	2013	49,197
2000	39,887	2014	49,451
2001	39,379	2015	50,509
2002	38,497	2016	51,245
2003	42,149	2017	51,107

1/ Beginning July 1, 1998, tax rates per wine gallon are \$5.98 on distilled spirits, \$2.12 on sparkling wine, \$1.38 on still wine, \$0.85 on cooler beverages, \$0.93 on beer other than draft beer, and \$0.54 on draft beer.

Source: Hawaii State Department of Taxation, "Liquor Tax Collections and Permits" (annual calendar year summary) and, beginning with the 1997, <http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed June 26, 2018.

Table 9.39-- STATE AND LOCAL SALES AND USE TAX REVENUE LOSSES FROM E-COMMERCE FOR HAWAII AND THE UNITED STATES: 2007 TO 2012

[In millions of dollars unless otherwise specified. Estimates of losses due to jurisdiction's inability to collect taxes on sales via the Internet. See source for discussion of assumptions]

Category	Baseline			Optimistic 1/		
	Due	Collections	Losses	Due	Collections	Losses
2007						
Total state and local						
Hawaii	149.5	111.4	38.2	149.5	111.4	38.2
U.S. (including Dist.of Col.)	29,176.8	21,931.2	7,245.6	29,176.8	21,931.2	7,245.6
2008						
Total state and local						
Hawaii	159.4	118.7	40.7	159.8	119.0	40.8
U.S. (including Dist.of Col.)	31,112.6	23,386.3	7,726.3	31,190.6	23,444.9	7,745.7
2009						
Total state and local						
Hawaii	143.4	106.8	36.6	154.8	115.3	39.5
U.S. (including Dist.of Col.)	27,992.3	21,040.8	6,951.4	30,212.3	22,709.6	7,502.7
2010						
Total state and local						
Hawaii	177.9	132.5	45.4	204.7	152.4	52.2
U.S. (including Dist.of Col.)	34,713.2	26,092.7	8,620.4	39,945.1	30,025.4	9,919.7
2011						
Total state and local						
Hawaii	209.2	155.8	53.4	233.6	174.0	59.6
U.S. (including Dist.of Col.)	40,815.2	30,679.5	10,135.8	45,596.1	34,273.1	11,323.1
2012						
Total state and local						
Hawaii	235.1	175.1	60.0	261.0	194.4	66.6
U.S. (including Dist.of Col.)	45,876.6	34,483.9	11,392.7	50,937.9	38,288.3	12,649.6

1/ Forecasts a higher growth rate of the economy and of resulting internet sales.

Source: Donald Bruce, William F. Fox, William B. Stokely and LeAnn Luna, "State and Local Government Sales Tax Revenue Losses from Electronic Commerce" (April 13, 2009) Center for Business and Economic Research, College of Business Administration, University of Tennessee
 <<http://cber.bus.utk.edu/ecom/ecom0409.pdf>> accessed September 1, 2011; and calculations by Hawaii Department of Business, Economic Development & Tourism.

Table 9.40-- REAL PROPERTY TAX VALUATIONS: 1986 TO 2018

[In thousands of dollars. For fiscal year ending June 30. Government parcels assessed at \$1, 1985-1987, and at 100 percent thereafter]

Year	Assessor's gross valuation 1/			Valuation for tax rate purposes
	Total	Land	Improvement	
1986	51,231,020	25,507,708	25,723,312	43,581,421
1987	52,814,463	26,442,872	26,371,591	45,222,885
1988	54,655,038	27,396,477	27,258,561	46,629,959
1989	67,628,063	36,730,370	30,897,693	50,219,249
1990	76,926,745	42,778,927	34,147,818	57,526,564
1991	99,942,540	61,554,968	38,387,572	71,080,524
1992	132,952,299	88,359,248	44,593,051	95,943,417
1993	130,733,131	84,299,686	46,433,445	111,593,106
1994	136,239,310	87,785,946	48,453,364	115,954,097
1995	137,202,083	86,552,575	50,649,508	116,389,670
1996	136,153,769	84,102,966	52,050,803	115,115,001
1997	135,073,354	82,035,301	53,038,053	114,303,125
1998	131,536,224	78,049,699	53,486,525	110,955,447
1999	125,412,154	72,253,741	53,158,413	105,184,585
2000	120,687,029	67,673,347	53,013,682	100,906,373
2001	118,929,005	65,241,123	53,687,882	98,984,387
2002	123,394,937	66,563,433	56,831,504	103,313,817
2003	131,562,028	69,116,128	62,445,900	110,384,134
2004	141,029,581	73,014,576	68,015,005	119,254,215
2005	162,787,538	(2/)	(2/)	138,383,238
2006	199,525,855	(2/)	(2/)	171,105,210
2007	254,954,333	(2/)	(2/)	220,731,778
2008	292,830,383	(2/)	(2/)	253,358,852
2009	297,908,333	(2/)	(2/)	257,714,285
2010	298,084,580	(2/)	(2/)	255,749,570
2011	274,149,769	(2/)	(2/)	232,482,952
2012	267,181,978	(2/)	(2/)	226,552,118
2013	265,105,539	(2/)	(2/)	226,611,749
2014	270,900,638	(2/)	(2/)	231,756,610
2015	293,088,510	(2/)	(2/)	251,793,531
2016	314,906,372	(2/)	(2/)	272,081,895
2017	335,175,378	(2/)	(2/)	290,790,922
2018	352,857,297	(2/)	(2/)	306,934,602

1/ Beginning in 1992, values shown for gross valuation exclude nontaxable properties.

2/ As of the 2004-2005, Statewide detail no longer available separately as the City and County of Honolulu consolidated 'Land' and 'Improvement' into the single category 'Property'.

Source: City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions by Year, "Statewide Real Property Tax Valuation for Fiscal Year 2017-2018" <<https://www.realpropertyhonolulu.com/rpa-report/>> accessed October 16, 2017; and earlier reports; and reports as the Department of Finance.

**Table 9.41-- REAL PROPERTY TAX VALUATION FOR THE STATE,
2015 TO 2018, AND BY COUNTY, 2018**

[In thousands of dollars. For fiscal year ending June 30. Gross valuations exclude nontaxable (government) properties]

Subject	2015	2016	2017	2018
Assessor's gross valuation 1/ 2/	293,088,510	314,906,372	335,175,378	352,857,297
Land	(3/)	(3/)	(3/)	(3/)
Improvement	(3/)	(3/)	(3/)	(3/)
Exemptions 1/	39,744,628	41,157,593	42,524,978	44,360,747
Assessor's net taxable valuation	253,343,881	273,748,781	292,650,400	308,496,548
Half of valuation on appeal	1,550,351	1,666,887	1,859,478	1,561,946
Number of appeals	3,141	3,991	4,569	3,398
Valuation for tax rate purposes	251,793,531	272,081,895	290,790,922	306,934,602
Land	(3/)	(3/)	(3/)	(3/)
Improvement	(3/)	(3/)	(3/)	(3/)
Amount to be raised by taxation	1,506,478	1,615,518	1,737,349	1,888,035
2018, by county	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/ 2/	241,332,136	52,729,762	36,597,222	22,198,177
Land	(3/)	21,711,958	14,394,564	(4/)
Improvement	(3/)	31,017,804	22,202,658	(4/)
Exemptions 1/	28,759,630	6,414,588	6,093,843	3,092,685
Assessor's net taxable valuation	212,572,506	46,315,171	30,503,379	19,105,492
Half of valuation on appeal	1,002,589	420,744	48,345	90,268
Number of appeals	2,429	635	177	157
Valuation for tax rate purposes	211,569,917	45,894,427	30,455,034	19,015,224
Land	(3/)	20,365,507	13,471,793	(4/)
Improvement	(3/)	25,528,920	16,983,241	(4/)
Amount to be raised by taxation	1,166,383	299,842	296,393	125,417

1/ Beginning in 1993, data exclude nontaxable properties.

2/ Assessed value for 2015 as of January 31, 2014 for Honolulu; February 20, 2014 for Kauai; April 19, 2014, for Maui; and April 21, 2014 for Hawaii County. Assessed value for 2016 as of January 29, 2015 for Honolulu; February 13, 2015 for Kauai; April 19, 2015, for Maui; and April 21, 2015 for Hawaii County. Assessed value for 2017 as of January 28, 2016 for Honolulu; February 18, 2016 for Kauai; April 19, 2016, for Maui; and April 21, 2015 for Hawaii County. Assessed value for 2018 as of January 27, 2017 for Honolulu; February 22, 2017 for Kauai; April 19, 2017 for Hawaii; and May 16, 2017 for Maui County.

3/ As of the 2004 - 2005 report, Statewide detail no longer available separately as the City and County of Honolulu consolidated 'Land' and 'Improvement' into the single category 'Property'.

4/ Single rate for each class.

Source: City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions by Year, "Statewide Real Property Tax Valuation for Fiscal Year 2017-2018" and individual county valuations

<<https://www.realpropertyhonolulu.com/portal/rpadcms/Reports?parent=REPORTS>> accessed October 16, 2017; and earlier reports; and reports as the Department of Finance.

Table 9.42-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 2017 AND 2018

[For fiscal year ending June 30]

Type of exemption	2017		2018	
	Number	Amount 1/ (\$1,000)	Number	Amount 1/ (\$1,000)
All exemptions, Statewide	264,756	78,433,812	275,380	81,374,164
Federal government	618	7,675,122	651	8,338,540
State government	8,537	18,490,413	8,258	18,720,102
County government	3,980	6,869,295	3,998	7,206,843
Government leases - total	138	131,899	136	103,407
Government leases - portion	131	75,526	134	156,265
Hawaiian Homes Commission	1,887	1,161,349	1,861	1,235,282
Hawaiian Homes Land - basic	1,892	354,564	1,950	374,442
Hawaiian Homes Land - multiple	141	23,197	125	21,020
Hawaiian Homes Land - total land	6,178	2,070,057	6,406	2,410,675
Hawaiian Homes Land - vacant land	243	25	243	25
Hawaiian Homes - 7 year	495	228,615	300	128,386
Homes - fee (basic)	177,114	20,095,426	182,230	21,365,518
Homes - fee (multiple)	35,683	5,018,883	3,449	382,906
Homes - leasehold (basic)	3,426	369,357	41,821	4,645,684
Homes - leasehold (multiple)	1,323	204,316	1,175	183,566
In lieu of home ex - fee	1,205	212,018	888	160,902
In lieu of home ex - lease	54	9,532	55	10,117
Additional home exemption	1,418	162,768	1,343	155,029
Blind	344	9,827	338	9,916
Deaf	140	3,936	134	3,999
Leprosy	4	100	3	75
Totally disabled	4,818	154,042	4,685	160,491
Totally disabled veterans	2,166	1,199,105	2,319	1,345,313
Cemeteries	111	58,607	110	61,994
Charitable organizations	1,536	2,886,465	1,558	3,018,423
Childcare	17	850	20	1,000
Child care center, non-profit	5	23,851	6	40,029
Child care center, for-profit	11	20,071	10	18,766
Churches	1,559	2,730,925	1,570	2,841,794
Civil - condemnation	23	26,034	24	31,051
Credit unions	124	258,900	120	238,723
Crop shelters	31	3,862	29	3,579
Enterprise Zone	1	530	3	1,067
Foreign consulates	31	48,717	31	45,825

Continued on next page.

**Table 9.42-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE:
2017 AND 2018 -- Con.**

Type of exemption	2017		2018	
	Number	Amount 1/ (\$1,000)	Number	Amount 1/ (\$1,000)
Forest reserve	5	6,644	5	6,578
Historic residential properties	336	537,530	361	609,231
Historic commercial properties	7	22,047	8	23,456
Kuleana	144	85,158	143	86,233
Hospitals	133	954,642	136	1,006,414
Landscaping, open-space	24	20,265	24	18,955
Low-moderate income housing	326	2,337,672	343	2,822,770
Public utilities	782	2,040,199	788	1,472,728
Roadways and waterways	7,222	44,379	7,199	45,094
Safe room	58	2,280	61	2,440
Schools	239	1,413,273	234	1,456,197
Setbacks	1	407	1	456
Slaughterhouse	1	2,610	1	2,608
Taro	57	212	53	92
Tree farm	15	22,539	17	32,270
Miscellaneous	9	5,197	10	7,639
Alternate energy	8	348,729	8	348,740
Commercial alternative energy	4	10,829	4	10,484
Commercial alter. energy - in lieu	1	1,016	1	1,025
Mult. bldg. pcl. income exemption	-	-	-	-

1/ Includes government parcels at actual value and exemptions on federal leases, if any.

Source: City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions by Tax Year "State of Hawaii - Number & Amount of Exemptions by Type & County" (annual)
<<https://www.realpropertyhonolulu.com/portal/rpadcms/Reports?parent=REPORTS>> accessed October 16, 2017.

Table 9.43-- REAL PROPERTY TAX VALUATION, BY LAND USE CLASS: 2018

[In thousands of dollars. For fiscal year ending June 30. Assessed value for 2018 as of January 27, 2017 for Honolulu; February 22, 2017 for Kauai; April 19, 2017 for Hawaii; and May 16, 2017 for Maui County. All counties use the land use class unless footnoted]

Land use class	Gross valuation 1/	Net valuation	Valuation for tax rate	To be raised by taxation
All classes	352,857,297	308,496,548	306,934,602	1,888,035
Affordable rental 2/	262,093	260,488	260,488	1,602
Residential	196,354,721	172,375,351	172,127,748	697,376
Residential A 3/	18,343,976	17,584,914	17,461,143	110,242
Apartment 2/ 4/	11,346,723	11,135,132	11,117,287	95,407
Commercial	28,457,145	24,937,142	24,485,529	279,401
Industrial	14,299,511	13,321,210	13,060,911	148,634
Agricultural/native forest	12,569,418	11,479,547	11,397,567	87,427
Vacant agricultural 3/	50,959	50,959	50,802	432
Conservation/preservation	1,616,084	1,459,172	1,371,044	10,122
Hotel and resort	26,985,362	26,905,884	26,671,045	302,260
Homeowner 2/ 4/	27,206,803	17,322,912	17,315,655	71,523
Homestead 5/	6,495,727	4,349,444	4,347,977	13,261
Public service 3/	1,022,039	30	30	-
Commercialized residential 4/	172,475	172,475	172,475	786
Vacation rental 5/	2,984,309	2,977,607	2,974,258	26,322
Time share 4/	1,982,492	1,982,492	1,943,561	29,989
Residential investor 5/	1,274,850	1,132,498	1,128,010	7,952
Commercialized home use 5/	1,432,610	1,049,291	1,049,072	5,298

1/ Excludes nontaxable properties.

2/ Hawaii County category.

3/ City and County of Honolulu category. Residential A combines Tier 1 (tax rate \$4.50) and Tier 2 (\$9.00).

4/ Maui County category.

5/ Kauai County category.

Source: City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, "Real Property Tax Valuations, Tax Rates & Exemptions Tax Year, State of Hawaii" (annual) and <<https://www.realpropertyhonolulu.com/portal/rpadcms/Reports?parent=REPORTS>> accessed October 16, 2017.

Table 9.44-- MAJOR REAL PROPERTY TAXPAYERS, FOR THE CITY AND COUNTY OF HONOLULU: 2012

[For fiscal year ending June 30]

Rank	Taxpayer	Original debit 1/ (dollars)	Land area (acres)	Gross assessed value 2/ (dollars)
	Top 20 real property taxpayers	112,299,603	52,289.12	11,665,147,300
1	Kyo-Ya Company	12,703,336	23.64	1,007,129,300
2	Bishop Estate	12,437,203	39,967.02	1,339,214,700
3	Hilton Hawaiian Village	11,076,557	20.14	908,020,100
4	Outrigger Hotels Hawaii	7,243,937	9.22	593,277,800
5	First Hawaiian Bank	5,841,875	48.02	472,437,400
6	Ko Olina Hotel	5,609,593	407.48	449,340,300
7	Irongate	5,078,491	0.00	401,600
8	United States of America	5,050,302	7,302.72	2,837,089,800
9	DEG, LLC	4,834,423	59.67	537,956,600
10	Reynolds/Shidler	4,696,132	44.68	415,607,500
11	General Growth Properties	4,685,639	37.36	385,412,400
12	Weinberg, Harry & Jeanette Foundation, Inc.	4,613,637	1,817.53	407,263,500
13	Marriott Ownership Resorts	4,324,131	33.85	348,699,500
14	Hawaii MMGD, LLC	3,886,633	154.73	264,858,700
15	James Campbell Estate	3,855,500	2,124.48	354,719,500
16	Bank of Hawaii	3,519,072	111.36	302,667,300
17	Wal-Mart	3,394,548	73.18	273,681,700
18	W2007 WKH Owner, LLC	3,375,022	4.02	272,179,200
19	Watercress Associates	3,084,690	44.63	253,405,300
20	Halekulani Corp.	2,988,883	5.39	241,785,100

1/ Original debit as of July, 2011.

2/ Land and improvements. Assessed valuation as of October 1, 2010. Valuation at 100 percent of market value.

Source: City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, Administration & Technical Branch, records.

Table 9.45-- RESIDENTIAL PROPERTY TAX RATES IN HONOLULU AND THE MEDIAN OF 51 MAJOR CITIES: 1985 TO 2016

Year	Effective tax rate per \$100 1/			Nominal tax rate per \$100	Assessment level (percent)
	Median 2/	Honolulu	Rank 3/		
1985	(NA)	0.61	50	1.06	61.2
1986	(NA)	0.60	51	0.66	90.8
1987	(NA)	0.59	51	0.66	89.0
1988	(NA)	0.59	51	0.66	89.0
1989	(NA)	0.64	48	0.64	100.0
1990	(NA)	0.48	51	0.48	100.0
1991	(NA)	0.37	51	0.37	100.0
1992	1.49	0.30	51	0.35	84.3
1993	(4/)	(4/)	(4/)	(4/)	(4/)
1994	1.60	0.33	51	0.35	93.4
1995	1.59	0.33	51	0.35	93.4
1996	1.54	0.33	51	0.35	95.0
1997	1.42	0.39	51	0.39	100.0
1998	1.41	0.46	51	0.46	100.0
1999	1.55	0.37	51	0.37	100.0
2000	1.52	0.37	51	0.37	100.0
2001	1.50	0.37	51	0.37	100.0
2002	1.54	0.37	51	0.37	100.0
2003	1.50	0.38	51	0.38	100.0
2004	1.54	0.38	51	0.38	100.0
2005	1.50	0.38	51	0.38	100.0
2006	1.50	0.36	51	0.36	100.0
2007	1.39	0.33	51	0.33	100.0
2008	1.32	0.33	51	0.33	100.0
2009	1.40	0.34	51	0.34	100.0
2010	1.67	0.34	51	0.34	100.0
2011	1.71	0.35	51	0.35	100.0
2012	1.56	0.35	50	0.35	100.0
2013	1.40	0.35	48	0.35	100.0
2014	1.40	0.35	50	0.35	100.0
2015	1.34	0.35	50	0.35	100.0
2016	1.40	0.35	50	0.35	100.0

NA Not available.

1/ Adjusted to 100-percent assessment level.

2/ Largest city in each state, and the District of Columbia. For the listing of cities, see source.

3/ The lower the rank, the higher the percentage of income paid in taxes. For a breakdown of taxes, see source.

4/ Both *Statistical Abstract 1994* and *1995* contained data for 1992 and none contained 1993 data.

Source: U. S. Census Bureau, *Statistical Abstract of the United States* (annual); and Government of the District of Columbia, Office of the Chief Financial Officer, *Tax Rates and Tax Burdens in the District of Columbia - A Nationwide Comparison* (annual) and <<http://cfo.dc.gov/node/215912>> accessed February 23, 2018.

Table 9.46-- REAL PROPERTY TAX RATES, BY COUNTY: 2018

[In dollars per \$1,000 net taxable value. For fiscal year ending June 30]

Class	Honolulu	Kauai
Property 1/ Residential	3.50	6.05
Vacation rental	(X)	8.85
Commercial	12.40	8.10
Industrial	12.40	8.10
Agricultural 2/ Preservation	5.70	6.75
Conservation	(X)	(X)
Hotel and resort	12.90	10.85
Public service	0.00	(X)
Vacant agricultural	8.50	(X)
Homestead	(X)	3.05
Residential A Tier 1	4.50	(X)
Tier 2	9.00	(X)
Residential investor	(X)	7.05
Commercialized home use	(X)	5.05
Class	Maui	Hawaii
Building and land		
Residential	5.54	11.10
Apartment	6.32	11.70
Commercial	7.28	10.70
Industrial	7.49	10.70
Agricultural 2/ Conservation	6.01	9.35
Hotel and resort	6.37	11.55
Homeowner	9.37	11.55
Time share	2.86	6.15
Commercialized residential	15.43	(X)
Affordable rental housing	4.56	(X)
	(X)	6.15

X Not applicable.

1/ As of 2005, the City and County of Honolulu consolidated the 'Land' and 'Improvement' into the single rate for 'Property' value for each class, and Kauai consolidated classes as of July 1, 2014.

2/ 'Agricultural or Native Forests' in County of Hawaii.

Source: City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions by Year, "Real Property Tax Rates in Hawaii Fiscal Year July 1, 2017 to June 30, 2018"

<<https://www.realpropertyhonolulu.com/portal/rpadcms/Reports?parent=REPORTS>> accessed October 16, 2017.

Table 9.47-- FEDERAL EXPENDITURES IN HAWAII: 1983 TO 2010

[For fiscal years ending September 30. In thousands of dollars and percent]

Year	Total direct expenditures or obligations	Percent change from previous year	Year	Total direct expenditures or obligations	Percent change from previous year
1983	4,013,543	(NA)	1997	8,159,285	2.1
1984	4,140,182	3.2	1998	8,449,229	3.6
1985	4,575,478	10.5	1999	8,659,684	2.5
1986	4,646,930	1.6	2000	9,036,388	4.4
1987	4,811,882	3.5	2001	9,728,839	7.7
1988	5,064,944	5.3	2002	10,474,798	7.7
1989	5,570,896	10.0	2003	11,269,306	7.6
1990	5,633,927	1.1	2004	12,176,350	8.0
1991	6,198,142	10.0	2005	12,699,321	4.3
1992	6,636,322	7.1	2006	13,495,147	6.3
1993	7,283,475	9.8	2007	14,061,883	4.2
1994	7,643,718	4.9	2008	15,009,273	6.7
1995	7,449,512	-2.5	2009	18,985,405	26.5
1996	7,990,275	7.3	2010	20,855,223	9.8

NA Not available.

Source: U.S. Census Bureau, *Consolidated Federal Funds Report for Fiscal Year, State and County Areas* (annual); Ibid. On-Line Query System (1993-2010) <<http://www.census.gov/govs/cffr/index.html>> accessed July 13, 2011; and Ibid. Governments Division unpublished tabulation (January 11, 2005).

Table 9.48-- FEDERAL EXPENDITURES IN HAWAII, BY TYPE: 1983 TO 2010

[In millions of dollars. For fiscal year ending September 30]

Year	Total direct expenditures or obligations	Retirement & disability payments for individuals	Other direct payments for individuals	Direct payments for other than individuals	Grants - block, formula, project, & cooperative agreements	Procurement contracts	Salaries & wages
1983	4,013.5	961.2	291.8	14.9	475.1	534.5	1,735.9
1984	4,140.2	1,023.4	297.9	49.9	383.0	577.4	1,808.6
1985	4,575.5	1,108.1	336.1	48.4	468.0	672.4	1,942.4
1986	4,646.9	1,175.2	342.0	49.4	500.7	619.0	1,960.7
1987	4,811.9	1,260.0	357.5	55.8	540.6	525.0	2,073.1
1988	5,064.9	1,346.9	368.2	67.7	613.3	591.2	2,077.7
1989	5,570.9	1,453.3	431.1	70.1	707.3	624.3	2,284.9
1990	5,633.9	1,538.1	520.7	79.1	783.0	547.3	2,165.8
1991	6,198.1	1,660.2	589.8	83.2	786.2	760.9	2,317.9
1992	6,636.3	1,735.5	772.7	90.2	974.5	694.9	2,368.6
1993	7,283.5	1,842.6	825.3	130.9	1,357.2	742.5	2,385.0
1994	7,643.7	1,970.5	852.0	122.5	1,295.0	905.4	2,498.3
1995	7,449.5	2,043.3	1,069.2	57.4	1,192.1	777.3	2,310.2
1996	7,990.3	2,138.5	1,099.1	101.3	1,215.4	1,027.4	2,408.6
1997	8,159.3	2,261.9	1,127.6	105.8	1,256.1	1,077.3	2,330.5
1998	8,449.2	2,348.4	1,078.8	101.9	1,310.3	1,052.6	2,557.2
1999	8,659.7	2,430.5	1,077.7	122.4	1,451.7	1,141.4	2,436.1
2000	9,036.4	2,582.9	1,069.7	128.5	1,532.5	1,293.8	2,429.0
2001	9,728.8	2,798.7	1,132.5	142.1	1,663.7	1,466.9	2,525.0
2002	10,474.8	2,899.3	1,305.6	129.1	1,836.1	1,621.2	2,683.5
2003	11,269.3	3,014.1	1,344.9	157.3	1,911.0	1,978.4	2,863.7
2004	12,176.3	3,202.2	1,403.2	203.4	2,147.6	2,066.0	3,153.9
2005	12,699.3	3,318.7	1,474.1	178.1	2,167.9	2,322.3	3,238.4
2006	13,495.1	3,533.6	1,574.8	215.6	2,312.3	2,147.8	3,711.0
2007	14,061.9	3,752.4	1,590.7	321.5	2,452.4	2,327.7	3,617.3
2008	15,009.3	3,872.8	1,903.1	361.7	2,282.9	2,455.9	4,132.8
2009	18,985.4	4,221.6	2,341.5	275.1	3,261.1	2,729.8	6,156.3
2010	20,855.2	4,368.4	2,462.8	356.1	3,025.6	2,744.8	7,897.6

Source: U.S. Census Bureau, *Consolidated Federal Funds Report for Fiscal Year, State and County Areas* (annual); Ibid. On-Line Query System (1993-2010) <<http://www.census.gov/govs/cffr/index.html>> accessed September 27, 2011; and Ibid. Governments Division unpublished tabulation (January 11, 2005).

Table 9.49- PER CAPITA DIRECT FEDERAL EXPENDITURE IN HAWAII AND THE UNITED STATES, BY TYPE: 2008 TO 2010

[For fiscal year ending September 30. Direct expenditures exclude federal assistance such as loans and insurance]

Category	Hawaii (dollars)	United States (dollars)	Hawaii as percent of U.S.	Hawaii rank 1/
Total 2008 2/	11,651.37	9,041.50	128.87	6
Retirement and disability	3,006.35	2,667.33	112.71	16
Other direct payments	1,758.16	2,062.78	85.23	34
Grants	1,772.16	1,868.49	94.84	23
Procurement	1,906.50	1,619.90	117.69	11
Salaries and wages	3,208.20	823.01	389.81	2
Department of Defense	4,740.92	1,574.13	301.18	3
All other Federal agencies	6,910.45	7,467.38	92.54	35
Total 2009 2/ 3/	14,658.53	10,426.50	140.59	(4/)
Retirement and disability	3,259.44	2,869.99	113.57	(4/)
Other direct payments	2,020.29	2,573.03	78.52	(4/)
Grants	2,517.91	2,314.74	108.78	(4/)
Procurement	2,107.63	1,693.48	124.46	(4/)
Salaries and wages	4,753.25	975.27	487.38	(4/)
Department of Defense	6,423.57	(4/)	(4/)	(4/)
All other Federal agencies	8,234.96	(4/)	(4/)	(4/)
Total 2010 2/	15,331.33	10,459.69	146.58	5
Retirement and disability	3,211.37	2,935.25	109.41	21
Other direct payments	2,072.20	2,633.32	78.69	38
Grants	2,224.18	2,187.11	101.69	23
Procurement	2,017.80	1,604.73	125.74	10
Salaries and wages	5,805.78	1,099.28	528.14	1
Department of Defense	7,353.81	1,772.90	414.79	1
All other Federal agencies	7,977.52	8,686.78	91.84	35

1/ A rank of 1 indicates the highest per capita direct federal expenditure. Rank is among the 50 states. When the District of Columbia is included, Hawaii ranking drops one place in every category.

2/ Resident population is as of July 1 for 2008 and 2009. Hawaii at 1,288,198 and 1,295,178 and the United States at 304,059,724 and 307,006,550 respectively. Population as of April 1, 2010 for Hawaii at 1,360,301 and the U.S. at 308,745,538. Hawaii had 0.4 percent of the U. S. resident population 2008-2010.

3/ Revised in *Data Book 2011* to reflect September 27, 2011 revisions to the U.S. Department of Health and Human Services data. The revisions are not represented in the PDF version of the publication, but are available via the On-Line Query System and downloads.

4/ The Census Bureau did not revise Tables 10, 12 or 14 so revised rankings are not readily available.

Source: U.S. Census Bureau, *Consolidated Federal Funds Report for Fiscal Year, State and County Areas* (annual), tables 10, 12 and 14 and *Ibid.* On-Line Query System (1993-2010) <<http://www.census.gov/govs/cffr/index.html>> accessed June 15, 2012; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 9.50-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS,
BY COUNTY: 2010**

[In persons and thousands of dollars. For fiscal year ending September 30]

Category	State Total	City and County of Honolulu	Hawaii County	Maui County 1/	Kauai County	State undistri- buted
Resident population (as of July 1, 2010)	1,360,301	953,207	185,079	154,924	67,091	-
Total direct exp. or oblig.	20,855,223	17,392,945	1,258,859	772,374	523,662	907,383
Retirement/disability payments for individuals	4,368,434	3,218,457	581,408	374,912	193,579	78
Other direct payments for individuals	2,462,760	1,397,696	275,855	171,635	97,334	520,241
Direct payments other than for individuals	356,058	122,600	6,859	6,868	1,554	218,176
Grants (block, formula, project, & cooperative agreements)	3,025,551	2,409,312	242,374	129,200	77,935	166,731
Procurement contracts	2,744,816	2,568,145	47,551	22,960	106,161	-
Salaries and wages	7,897,604	7,676,736	104,812	66,800	47,099	2,157
Exhibit: Total direct expenditures or obligations	20,855,223	17,392,945	1,258,859	772,374	523,662	907,383
Defense	9,994,953	9,735,818	90,543	33,615	132,821	2,157
Non-defense	10,860,270	7,657,128	1,168,316	738,759	390,841	905,226
Addendum: Other federal assistance	13,444,838	8,484,937	1,078,552	2,619,264	1,095,133	166,952
Direct loans	200,495	121,044	27,774	44,850	3,827	3,000
Guaranteed/insured loans	1,370,455	904,052	128,339	154,021	144,775	39,268
Insurance	11,873,888	7,459,840	922,440	2,420,392	946,531	124,684

1/ Includes Kalawao County.

Source: U.S. Census Bureau, *Consolidated Federal Funds Report for Fiscal Year 2010, State and County Areas* (September 2011) <<http://www.census.gov/govs/cffr/>> and On-Line Query System <<http://harvester.census.gov/cffr/>> accessed September 23, 2011.

**Table 9.51-- FEDERAL SPENDING FOR HAWAII AND THE UNITED STATES,
TOTAL AND PER CAPITA, BY TYPE: 2015**

[For fiscal year ending September 30]

Category	Hawaii	United States	Hawaii as percent of U.S.
Total (in thousands of dollars)	20,099,041	3,390,935,577	0.6
Salaries and wages	5,928,346	310,492,000	1.9
Contracts	1,982,557	392,806,379	0.5
Grants	2,753,522	602,765,254	0.5
Nonretirement benefits	3,618,830	930,115,856	0.4
Retirement benefits	5,815,787	1,154,756,088	0.5
Federal spending relative to Gross Domestic Product (in percent)	24.9	18.9	131.7
Per capita 1/ (in dollars)	14,103	10,567	133.5
Salaries and wages	4,160	968	429.9
Contracts	1,391	1,224	113.6
Grants	1,932	1,878	102.9
Nonretirement benefits	2,539	2,898	87.6
Retirement benefits	4,081	3,599	113.4

1/ Based on July 1, 2015 population for the United States of 320,896,618 and for Hawaii 1,425,157. As released December 20, 2016 by the U.S. Census Bureau, Population Division, "Table 1. Annual Estimates of the Population for the United States, Regions, States, and Puerto Rico: April 1, 2010 to July 1, 2016" (NST-EST2016-01) <<https://www2.census.gov/programs-surveys/popest/tables/2010-2016/state/totals/nst-est2016-01.xlsx>> accessed July 29, 2017.

Source: The Council of State Governments, "Federal Spending in the States, 2005 to 2015" (May 2017) <<http://knowledgecenter.csg.org/kc/content/federal-spending-states-2015>> accessed June 7, 2017; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.52-- RECIPIENT REPORTED AWARDS OF THE AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) OF 2009, FOR EACH OF THE 50 STATES AND THE DISTRICT OF COLUMBIA: 2009-2013

[Cumulative data for awards and funds for February 17, 2009 to December 31, 2013 and for jobs October 1 to December 31, 2013 only. U.S. Census Bureau per capita data are as of July 1, 2010. In January 2014, Congress repealed the quarterly reporting requirement for recipients. All the recipient data was updated for the last time on May 1, 2014]

State/territory	Number of awards	Total funds awarded (\$1,000)	Funds awarded per capita	Total funds received (\$1,000)	Local amount (\$1,000)	Recipient reported jobs
Total of the 50 states & D.C.	277,461	271,025,053	60,079	242,684,440	270,994,437	59,849.98
Hawaii	1,281	1,434,958	1,104	1,273,426	1,452,661	726.89
Hawaii as % of total	0.5	0.5	1.8	0.5	0.5	1.2
Alabama	3,689	3,608,061	763	3,370,826	3,468,107	369.88
Alaska	3,348	2,313,871	3,264	2,055,099	2,318,989	328.40
Arizona	6,786	7,682,058	1,151	7,253,967	7,702,033	1,236.99
Arkansas	3,390	2,335,194	802	2,134,987	2,345,711	455.63
California	22,593	34,552,077	927	29,460,018	33,623,137	7,239.00
Colorado	4,842	5,614,993	1,102	4,790,282	5,682,486	4,441.42
Connecticut	3,214	2,531,886	718	2,376,273	2,517,266	237.81
Delaware	931	941,594	1,056	839,990	958,813	219.09
District of Columbia	2,730	5,976,936	9,789	4,907,042	5,580,550	1,538.86
Florida	9,148	11,023,983	590	10,063,849	11,339,575	3,659.03
Georgia	6,635	7,000,262	707	6,150,322	6,929,785	1,052.21
Hawaii	1,281	1,434,958	1,104	1,273,426	1,452,661	726.89
Idaho	2,279	1,699,828	1,090	1,632,463	1,740,900	218.01
Illinois	9,811	11,987,949	926	9,446,008	11,913,927	2,485.45
Indiana	4,877	4,496,611	698	4,217,812	4,437,005	544.03
Iowa	3,368	2,266,918	750	2,043,123	2,212,072	186.67
Kansas	3,208	2,320,457	817	2,097,105	2,362,115	151.57
Kentucky	4,033	3,573,839	824	3,278,380	3,605,339	1,229.80
Louisiana	3,210	3,307,791	730	3,027,881	3,326,891	735.35
Maine	2,285	1,452,393	1,106	1,408,756	1,508,109	143.88
Maryland	6,266	6,995,065	1,219	6,117,206	7,726,103	2,115.91
Massachusetts	8,458	7,619,533	1,149	6,767,731	7,778,124	1,653.02
Michigan	8,448	8,648,309	871	7,880,583	8,840,261	1,864.73
Minnesota	5,436	3,999,127	756	3,821,466	4,083,535	331.81
Mississippi	3,327	2,714,966	917	2,405,414	2,706,858	278.59
Missouri	6,243	4,931,750	820	4,661,760	4,942,597	718.51
Montana	2,911	1,522,681	1,554	1,390,035	1,522,488	421.09
Nebraska	2,545	1,332,925	736	1,285,001	1,352,120	190.79
Nevada	1,392	2,898,793	1,092	2,550,375	2,895,996	2,764.47
New Hampshire	1,460	978,083	739	916,371	991,045	130.35
New Jersey	5,357	5,438,389	623	5,003,149	5,511,653	1,015.45

Continued on next page.

Table 9.52-- RECIPIENT REPORTED AWARDS OF THE AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) OF 2009, FOR EACH OF THE 50 STATES AND THE DISTRICT OF COLUMBIA: 2009-2013 -- Con.

State/territory	Number of awards	Total funds awarded (\$1,000)	Funds awarded per capita	Total funds received (\$1,000)	Local amount (\$1,000)	Recipient reported jobs
New Mexico	3,606	2,718,625	1,337	2,562,742	2,692,055	690.74
New York	18,386	17,160,343	877	15,365,955	17,105,548	2,849.12
North Carolina	6,565	7,612,259	805	6,500,343	7,647,251	2,368.18
North Dakota	2,273	1,095,491	1,676	998,883	1,063,755	396.66
Ohio	9,476	8,751,796	759	8,070,775	8,676,196	2,444.99
Oklahoma	5,972	3,023,690	812	2,847,911	3,030,603	835.15
Oregon	5,066	3,246,874	842	3,105,497	3,310,119	574.53
Pennsylvania	8,415	9,301,835	736	8,724,121	9,318,904	1,180.08
Rhode Island	1,170	1,218,625	1,153	1,074,368	1,096,838	409.49
South Carolina	4,544	4,656,401	1,013	4,436,161	4,620,238	486.72
South Dakota	2,324	1,350,973	1,647	1,294,530	1,429,931	119.26
Tennessee	7,877	5,949,266	939	5,416,772	5,905,513	1,027.85
Texas	16,129	17,169,673	681	15,603,072	17,309,951	4,231.46
Utah	2,570	2,204,644	779	2,108,947	2,223,561	192.47
Vermont	2,434	1,041,248	1,673	916,693	1,048,257	170.91
Virginia	6,483	6,417,626	807	5,756,599	6,558,261	1,054.50
Washington	10,113	8,401,486	1,245	7,309,671	8,120,801	1,394.41
West Virginia	2,324	1,804,683	989	1,667,582	1,746,548	363.69
Wisconsin	6,963	4,037,047	712	3,674,634	4,051,690	356.05
Wyoming	1,270	661,188	1,207	622,484	662,169	19.03
Addendum:						
Total	279,459	274,704,879	(NA)	245,960,267	274,767,018	63,565.00
Total of the 50 states & D.C.	279,459	274,704,879	60,794	245,960,267	274,767,018	63,565.29
Territories	277,461	271,025,053	60,079	242,684,440	270,994,437	59,849.98
Not assigned	1,716	3,626,509	715	3,223,772	3,645,724	3,711.76
	282	53,316	(NA)	52,054	126,857	3.55

NA Not available.

Source: Recovery Accountability and Transparency Board, "Recipient Reported Data, State/Territory Totals by Agency" (Updated May 1, 2014)

<<http://www.recovery.gov/arra/Transparency/RecoveryData/Pages/RecipientDataStateTotalsByAgency.aspx>> accessed June 4, 2014.

Table 9.53-- RECIPIENT REPORTED AWARDS OF THE AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) OF 2009, FOR HAWAII AND THE UNITED STATES: 2009-2013

[Cumulative data for awards and funds for February 17, 2009 to December 31, 2013 and for jobs October 1 to December 31, 2013 only. U.S. Census Bureau per capita data are as of July 1, 2010. In January 2014, Congress repealed the quarterly reporting requirement for recipients. All the recipient data was updated for the last time on May 1, 2014]

U.S. department or agency	Number of awards	Total funds awarded (\$1,000)	Funds awarded per capita	Total funds received (\$1,000)	Local amount (\$1,000)	Recipient reported jobs
Total of the 50 states & D.C.	277,461	271,025,053	60,079	242,684,440	270,994,437	59,849.98
Hawaii	1,281	1,434,958	1,104	1,273,426	1,452,661	726.89
Army Corps of Engineers	2	700	1	700	882	-
Agriculture	19	47,920	37	16,214	48,019	104.41
Commerce	39	55,578	43	53,362	53,346	85.53
Defense (exc. mil. depts)	19	9,925	8	9,897	9,925	-
Air Force	111	60,771	47	46,759	60,355	39.32
Army	258	82,556	64	69,391	73,143	10.92
Navy	73	92,104	71	91,891	92,650	-
Education	31	359,807	277	335,058	359,807	164.85
Energy	48	67,484	52	60,346	66,172	15.38
Health & Human Serv.	164	87,786	68	83,518	92,832	16.02
Homeland Security	16	42,814	33	36,231	42,886	69.42
Housing & Urban Dev.	36	46,580	36	46,537	46,580	-
Interior	106	23,738	18	23,437	23,634	-
Justice	74	20,278	16	19,143	20,861	7.70
Labor	41	19,759	15	19,644	19,759	-
Transportation	54	214,035	165	205,181	214,103	108.00
Veterans Affairs	6	1,159	1	1,155	1,159	-
Envir. Prot. Agency (EPA)	25	53,278	41	53,138	53,278	1.40
Gen. Serv. Admin.	94	111,801	86	65,210	122,921	103.94
Nat'l Foundation on the Arts and the Humanities	4	393	-	343	419	-
Nat'l Science Foundation	56	35,205	27	35,145	48,642	-
Other indep. agencies	5	1,288	1	1,127	1,288	-

Source: Recovery Accountability and Transparency Board, "Recipient Reported Data, State/Territory Totals by Agency" (Updated May 1, 2014)
<http://www.recovery.gov/arra/Transparency/RecoveryData/Pages/RecipientDataStateTotalsByAgency.aspx>
 accessed June 4, 2014.

Table 9.54-- FEDERAL AID TO STATE AND LOCAL GOVERNMENT, BY SELECTED AGENCY AND PROGRAM FOR HAWAII AND THE UNITED STATES: 2009 AND 2010

[In thousands of dollars. For fiscal year ending September 30. All amounts represent actual expenditures of the federal government during the indicated fiscal year. Components may not sum to total as some of the smaller programs, as well as some of those with United States but no Hawaii expenditures, are not shown individually. Some components summed to subtotals]

Area	Hawaii		United States	
	2009	2010	2009	2010
Total	2,560,081	2,519,624	552,108,118	630,169,769
Department of Agriculture	124,030	125,369	30,774,582	32,793,230
Agricultural Marketing Service	3,813	4,876	1,278,689	1,677,321
Farm Service Agency	228	274	10,329	10,345
Food Safety & Inspection Service	-	-	51,320	47,490
Food & Nutrition Service	102,566	97,832	26,984,219	28,606,161
Forest Service	1,987	2,689	603,363	752,160
National Resources Conservation Service	1,638	3,392	173,898	163,145
Rural development activities	1,921	3,679	540,937	758,791
Department of Commerce	6,589	6,840	524,135	622,521
National Oceanic and Atmospheric Admin.	1,322	3,157	228,986	203,663
Corporation for National and Community Service	1,102	889	197,438	226,544
Corporation for Public Broadcasting	-	-	154,828	164,629
Department of Defense	-167	-	674,036	651,494
U.S. Army National Guard - construction	-167	-	663,792	640,603
Department of Education	279,629	318,986	45,168,154	73,209,088
Office of English Language Acquisition	2,719	2,369	665,484	676,470
Office of Special Educ. Research & Improvement	2,929	3,789	442,452	674,869
Office of Special Educ. & Rehabilitative Services	84,497	60,429	12,535,554	19,748,605
Office of Vocational and Adult Education	9,732	8,536	1,545,060	1,784,669
Office of Elementary and Secondary Education	151,911	212,094	27,504,980	47,159,446
Impact aid	63,208	38,057	1,183,498	1,135,862
Programs for American Indians, Alaska				
Natives and Native Hawaiians	14,320	14,111	128,042	132,970
No Child Left Behind Act	21,475	26,288	4,794,495	5,013,719
Title 1 programs	47,982	52,596	12,452,283	18,110,464
Other	1,494	76,933	7,751,070	21,521,221
Office of Postsecondary Education	22,638	26,317	1,332,734	1,645,800
Office of Student Financial Assistance	5,203	5,452	1,141,890	1,519,229
Election Assistance Commission	-	1,075	83,915	91,414
Department of Energy	3,563	11,814	1,044,228	3,527,222
Environmental Protection Agency	27,764	49,229	3,685,307	6,914,563
Equal Employment Opportunity Commission	115	165	31,283	27,674
Department of Health and Human Services	1,355,067	1,311,727	324,765,262	348,197,405
Administration for Children and Families	261,470	276,540	51,079,406	55,815,058
Administration on Aging	8,070	9,013	1,425,912	1,488,831
Centers for Disease Control & Prevention	-	16,366	1,415,149	2,268,365
Centers for Medicare and Medicaid Services	1,015,064	932,948	256,123,741	278,041,173
Health Resources and Services Administration	49,965	56,257	6,304,790	7,315,978
Substance Abuse & Mental Health Services Admin.	20,019	20,501	3,054,665	3,117,395

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Table 9.54-- FEDERAL AID TO STATE AND LOCAL GOVERNMENT, BY SELECTED AGENCY AND PROGRAM FOR HAWAII AND THE UNITED STATES: 2009 AND 2010 -- Con.

Area	Hawaii		United States	
	2009	2010	2009	2010
Department of Homeland Security	97,926	121,871	17,954,886	19,836,875
Coast Guard	478	1,220	124,227	132,603
Domestic preparedness & anti-terrorism prog.	90,708	116,357	11,645,600	14,732,653
Federal Emergency Management Agency	6,740	4,294	6,185,059	4,791,619
Department of Housing and Urban Development	210,903	238,759	47,065,091	55,271,896
Fair housing and equal opportunity	384	345	110,958	117,830
Community planning and development	28,002	34,177	8,153,253	9,453,322
Housing programs	182,517	204,237	38,800,880	45,700,744
College housing	828	-	53,132	2,749
Housing opportunities for persons with AIDS	1,356	1,576	317,122	294,269
Native American block grant	3,957	-2,870	827,042	1,044,397
Housing for special populations	10,717	6,302	979,217	960,294
Public housing programs	154,708	188,158	33,657,756	39,422,213
Home ownership assistance	10,902	10,515	1,983,007	2,927,515
Other	49	556	983,604	1,049,307
Department of the Interior	21,301	22,022	5,904,953	6,140,676
Fish and Wildlife Service	8,314	7,862	907,990	959,517
National Park Service	1,082	829	131,189	98,169
Office of Insular Affairs	11,581	13,005	432,410	458,816
Department of Justice	22,793	14,119	3,894,654	3,845,099
Office of Asset Forfeiture	1,113	724	397,931	389,249
Office of Justice Programs	21,680	13,395	3,468,360	3,441,208
Crime victims programs	2,946	2,594	575,941	597,954
Education, research and statistics programs	269	598	127,260	110,330
Juvenile justice programs	1,349	1,228	306,560	296,339
Law Enforcement Assistance	1,192	2,485	335,288	387,916
Community oriented policing prog. (COPS)	-	-	1,125	72
Violence against women and children	564	1,616	130,343	128,751
Weed and seed	271	162	36,919	28,797
Substance abuse programs	10,540	211	1,194,038	823,008
Department of Labor	48,312	47,808	9,827,625	11,361,543
Bureau of Labor Statistics	684	733	88,528	90,110
Employment and Training Admin.	43,700	45,123	9,334,312	10,943,584
Occupational Health and Safety Admin.	3,092	1,392	235,876	155,554
Veterans Employment & Training Admin.	836	560	159,564	162,276
National Foundation on Arts & Humanities	3,730	4,385	306,740	322,715
Neighborhood Reinvestment Corporation	741	1,422	277,492	229,410
Department of Transportation	354,690	239,190	57,048,476	63,882,491
Federal Aviation Administration	78,842	32,954	3,808,316	4,015,462
Federal Highway Administration	219,301	168,771	39,788,002	43,804,373
Federal Transit Administration	53,932	34,810	11,297,997	13,041,289
Department of the Treasury	438	799	575,479	516,743
Department of Veterans Affairs	1,448	3,150	824,892	978,121

Source: U.S. Bureau of the Census, *Federal Aid to States for Fiscal Year: 2009* (August 2010), table 1 <<http://www.census.gov/prod/2010pubs/fas-09.pdf>> accessed August 31, 2010; and *Ibid. 2010* (September 2010), table 1 <<http://www.census.gov/prod/2011pubs/fas-10.pdf>> accessed September 23, 2011.

**Table 9.55-- FEDERAL AWARD EXPENDITURES BY
HAWAII STATE GOVERNMENT: 2001 TO 2018**

[For fiscal year ending June 30. In thousands of dollars]

Year	Total	Year	Total	Year	Total
2001	1,234,481	2007	1,925,129	2013	2,311,719
2002	1,353,397	2008	2,018,873	2014	2,570,901
2003	1,532,304	2009	2,195,508	2015	2,650,112
2004	1,659,913	2010	2,732,260	2016	2,943,260
2005	1,828,619	2011	2,891,802	2017	2,922,787
2006	1,859,707	2012	2,297,802	2018	2,994,878

Source: State of Hawaii Financial Accounting Management and Information System (FAMIS).

Table 9.56-- FEDERAL PROCUREMENT, BY AGENCY: 2007

[In thousands of dollars. For fiscal year ending September 30. Per capita calculations were based on an April 1, 2000 Census count of Hawaii resident population of 1,211,537. Rank of 1 indicates highest procurement. In FY 2007, Hawaii procurement by place of performance was \$2,296,763,633. Per capita procurement was \$1,895.74, giving Hawaii a rank of 11 in FY 2007 and a rank of 12 in FY 2006]

Area	Total	Civilian agencies		Department of Defense	
		Small disadvantaged business	Other	Small disadvantaged business	Other
Total	2,272,369	41,345	100,708	409,220	1,721,097
Honolulu City & County	2,080,721	35,430	84,206	388,792	1,572,294
Hawaii County	27,848	4,419	5,528	12,735	5,167
Kauai County	144,023	777	7,295	6,112	129,839
Maui County	18,533	31	3,124	1,580	13,798
Kalawao County	1,244	689	556	-	-
Top five agencies with place of performance in Hawaii	Amount	Top five contracting offices located in Hawaii			Amount
Department of Defense	2,131,877	NavFac Engineering Command Hawaii			272,314
General Services Admin.	45,748	XU W2SN EnDIST Honolulu			245,053
Department of the Interior	36,090	FA5215 15 CONS LGC			211,021
Dept. of Homeland Security	28,192	U.S. Army W6QL ECC RCO Hawaii			206,259
Dept. of Veterans Affairs	19,910	NavFac Engineering Command Hawaii			194,704
Type of selected product or service	Total	Small business	Other than small bus.	State, local & tribal gov't	Non-profit JWOD & other
Total	2,294,574	861,008	1,355,700	5,326	72,540
Construction	763,105	225,195	535,372	5	2,533
Research and development	99,721	43,052	19,515	1,106	36,048
Services	1,029,386	421,294	572,133	4,159	31,800
Supplies and equipment	402,362	171,467	228,680	56	2,159

Source: GCE Global Computer Enterprises, Inc., Federal Procurement Data System - NG (New Generation), *Federal Procurement Report FY 2007, Section II, Geographic Views* <http://www.fpdsg.com/fpr_reports_fy_07.html> accessed October 12, 2009.

**Table 9.57-- FEDERAL GOVERNMENT PROCUREMENT CONTRACT
PRIME AND SUBAWARDS, 2008 TO 2016 AND TOP 10
RECIPIENTS: 2016**

[In thousands of dollars and number. Fiscal year ending September 30. For discussion of the USASpending.gov mandates, data sources and quality, and reporting requirements, see <<https://www.usaspending.gov/Pages/default.aspx>>]

Year	Prime awards 1/		Subawards 2/	
	Amount	Number	Amount	Number
2008	2,487,387	24,673	(3/)	(3/)
2009	2,660,769	18,792	(3/)	(3/)
2010	2,707,733	19,789	4,183	8
2011	3,114,130	19,103	161,681	207
2012	2,813,593	17,878	708,632	401
2013	1,904,173	15,393	592,697	658
2014	2,431,093	15,957	3,316,028	1,679
2015	1,982,566	28,739	815,485	737
2016	2,185,026	26,719	238,456	692

Rank and type	Recipient	Amount
Prime		
1	Hawaii Independent Energy, LLC	102,386
2	Caddell-Nan A Joint Venture	79,722
3	BAE Systems Hawaii Shipyards Inc.	67,557
4	Manu Kai, LLC	61,710
5	Absher Construction Co.	56,603
6	Road & Highway Builders, LLC	51,544
7	Bethel-Webcor JV-1	50,398
8	Contrack International, Inc.	44,180
9	University of Hawaii Systems	41,582
10	Hawaiian Dredging Construction Company, Inc.	39,492
Sub-awardees		
1	Arrowpoint	25,079
2	Brag Investments, Inc.	20,146
3	Sinclair Drywall, Inc.	11,697
4	HMS Construction Inc.	11,332
5	R.F. Stearns, Incorporated	10,530
6	HELIX Electric, Inc.	9,936
7	Pacific Coast Building Products, Inc.	8,268
8	International Marine and Industrial Applicators, LLC	7,964
9	Rees Scientific Corporation	7,533
10	Marisco, Ltd.	7,402

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**Table 9.57-- FEDERAL GOVERNMENT PROCUREMENT CONTRACT
PRIME AND SUBAWARDS: 2008 TO 2016 AND TOP 10
RECIPIENTS: 2016 -- Con.**

1/ Federal agencies are required to submit reports on their awards' transactions within 30 days after the implementation of the transaction. The exception is the Department of Defense which submits reports after 90 days to protect operations.

2/ As of October 1, 2010 (FY11), first-tier sub-recipient contract transaction data are required to be reported by the prime recipients for contract transactions of more than \$25,000.

3/ Query of USASpending for category for FY2008 and FY2009 returns "No Data Found".

Source: USASpending, "State Summary, Contracts Data: Hawaii (annual)"
<<https://www.usaspending.gov/Pages/Default.aspx>> accessed August 8, 2017.

Table 9.58-- ADJUSTED FEDERAL EXPENDITURES PER DOLLAR OF TAXES, BY STATE AND THE DISTRICT OF COLUMBIA: 1995 AND 2005

[Expenditures calculated by Tax Foundation based on federal expenditure data from the U.S. Bureau of the Census. Federal tax revenue is derived from the individual income tax, social insurance taxes (Social Security and Medicare), corporate income tax, excise taxes (on beer, wine, tobacco, gasoline and other products), and estate and gift taxes, customs duties and an adjustment for the federal deficit. Rank of 1 indicates highest expenditure per tax dollar. For fiscal year ending September 30]

Area	Expenditures per dollar of taxes			Ranking	
	1995	2005	10-year change in spending per dollar of tax	1995	2005
Alabama	1.31	1.66	0.35	8	7
Alaska	1.21	1.84	0.63	17	3
Arizona	1.13	1.19	0.06	21	21
Arkansas	1.22	1.41	0.19	16	14
California	0.94	0.78	-0.16	38	43
Colorado	0.95	0.81	-0.14	34	41
Connecticut	0.68	0.69	0.01	50	48
Delaware	0.85	0.77	-0.08	41	44
District of Columbia	5.39	5.55	0.16	(X)	(X)
Florida	1.07	0.97	-0.10	24	34
Georgia	0.96	1.01	0.05	33	32
Hawaii	1.26	1.44	0.18	15	12
Idaho	1.14	1.21	0.07	20	20
Illinois	0.74	0.75	0.01	47	45
Indiana	0.84	1.05	0.21	42	30
Iowa	1.06	1.10	0.04	26	24
Kansas	1.05	1.12	0.07	27	22
Kentucky	1.28	1.51	0.23	13	9
Louisiana	1.35	1.78	0.43	7	4
Maine	1.30	1.41	0.11	9	13
Maryland	1.27	1.30	0.03	14	18
Massachusetts	0.92	0.82	-0.10	39	40
Michigan	0.77	0.92	0.15	45	37
Minnesota	0.78	0.72	-0.06	44	46
Mississippi	1.54	2.02	0.48	3	2
Missouri	1.29	1.32	0.03	12	17
Montana	1.46	1.47	0.01	6	11
Nebraska	1.01	1.10	0.09	30	25
Nevada	0.73	0.65	-0.08	48	49
New Hampshire	0.75	0.71	-0.04	46	47
New Jersey	0.68	0.61	-0.07	49	50
New Mexico	1.85	2.03	0.18	1	1

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Table 9.58-- ADJUSTED FEDERAL EXPENDITURES PER DOLLAR OF TAXES, BY STATE AND THE DISTRICT OF COLUMBIA: 1995 AND 2005 -- Con.

Area	Expenditures per dollar of taxes			Ranking	
	1995	2005	10-year change in spending per dollar of tax	1995	2005
New York	0.87	0.79	-0.08	40	42
North Carolina	0.95	1.08	0.13	36	27
North Dakota	1.47	1.68	0.21	5	6
Ohio	0.97	1.05	0.08	32	31
Oklahoma	1.30	1.36	0.06	11	15
Oregon	0.95	0.93	-0.02	35	36
Pennsylvania	1.05	1.07	0.02	28	28
Rhode Island	1.14	1.00	-0.14	19	33
South Carolina	1.20	1.35	0.15	18	16
South Dakota	1.30	1.53	0.23	10	8
Tennessee	1.07	1.27	0.20	25	19
Texas	0.95	0.94	-0.01	37	35
Utah	1.08	1.07	-0.01	22	29
Vermont	1.03	1.08	0.05	29	26
Virginia	1.51	1.51	0.00	4	10
Washington	0.97	0.88	-0.09	31	38
West Virginia	1.59	1.76	0.17	2	5
Wisconsin	0.80	0.86	0.06	43	39
Wyoming	1.08	1.11	0.03	23	23

X Not applicable.

Source: Tax Foundation, "Federal Taxes Paid vs. Federal Spending Received by State, 1981-2005" (October 19, 2007) <<http://www.taxfoundation.org/publications/show/22685.html>> accessed October 22, 2007.

**Table 9.59-- ADJUSTED FEDERAL EXPENDITURES PER DOLLAR
OF TAXES: 1995 TO 2005**

[For fiscal year ending September 30]

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Alabama	1.31	1.33	1.37	1.39	1.43	1.50	1.54	1.58	1.65	1.67	1.66
Alaska	1.21	1.27	1.34	1.36	1.48	1.57	1.57	1.74	1.79	1.84	1.84
Arizona	1.13	1.11	1.08	1.10	1.16	1.17	1.14	1.20	1.22	1.23	1.19
Arkansas	1.22	1.24	1.29	1.31	1.33	1.39	1.46	1.51	1.43	1.45	1.41
California	0.94	0.93	0.92	0.90	0.87	0.81	0.82	0.82	0.79	0.80	0.78
Colorado	0.95	0.96	0.91	0.91	0.88	0.84	0.82	0.80	0.84	0.83	0.81
Connecticut	0.68	0.69	0.67	0.70	0.70	0.66	0.67	0.67	0.69	0.70	0.69
Delaware	0.85	0.85	0.84	0.85	0.89	0.88	0.85	0.83	0.79	0.77	0.77
Dist. of Col.	5.39	5.38	5.18	5.05	5.25	4.90	5.28	5.74	6.18	6.28	5.55
Florida	1.07	1.08	1.07	1.05	1.06	1.08	1.04	0.99	1.00	0.96	0.97
Georgia	0.96	0.97	0.97	0.97	0.98	1.00	1.02	1.02	0.98	0.98	1.01
Hawaii	1.26	1.38	1.41	1.47	1.48	1.46	1.49	1.50	1.49	1.51	1.44
Idaho	1.14	1.15	1.16	1.22	1.19	1.22	1.25	1.32	1.28	1.23	1.21
Illinois	0.74	0.75	0.77	0.78	0.79	0.81	0.80	0.77	0.73	0.74	0.75
Indiana	0.84	0.89	0.92	0.93	0.94	0.99	1.02	0.98	0.95	0.98	1.05
Iowa	1.06	1.08	1.06	1.12	1.18	1.11	1.20	1.21	1.04	1.11	1.10
Kansas	1.05	1.03	1.02	1.07	1.12	1.07	1.16	1.12	1.10	1.11	1.12
Kentucky	1.28	1.28	1.33	1.36	1.32	1.38	1.38	1.45	1.52	1.48	1.51
Louisiana	1.35	1.29	1.32	1.28	1.38	1.42	1.43	1.45	1.49	1.57	1.78
Maine	1.30	1.32	1.33	1.33	1.30	1.26	1.23	1.30	1.37	1.40	1.41
Maryland	1.27	1.25	1.24	1.30	1.28	1.27	1.24	1.28	1.30	1.37	1.30
Massachusetts	0.92	0.91	0.90	0.89	0.87	0.80	0.80	0.82	0.83	0.82	0.82
Michigan	0.77	0.78	0.82	0.83	0.84	0.87	0.90	0.88	0.85	0.87	0.92
Minnesota	0.78	0.76	0.80	0.81	0.83	0.83	0.80	0.77	0.68	0.68	0.72
Mississippi	1.54	1.61	1.56	1.54	1.60	1.73	1.82	1.83	1.82	1.82	2.02
Missouri	1.29	1.40	1.24	1.24	1.24	1.27	1.30	1.33	1.34	1.34	1.32
Montana	1.46	1.49	1.54	1.55	1.70	1.57	1.61	1.60	1.53	1.52	1.47
Nebraska	1.01	1.00	1.02	1.05	1.09	1.15	1.19	1.20	1.06	1.08	1.10
Nevada	0.73	0.78	0.73	0.75	0.74	0.77	0.75	0.71	0.66	0.62	0.65
New Hampshire	0.75	0.75	0.74	0.76	0.73	0.71	0.71	0.70	0.67	0.69	0.71
New Jersey	0.68	0.69	0.71	0.71	0.70	0.69	0.65	0.61	0.57	0.57	0.61
New Mexico	1.85	1.85	1.83	1.85	1.89	2.08	1.93	2.07	2.17	2.18	2.03
New York	0.87	0.86	0.86	0.87	0.87	0.88	0.81	0.82	0.82	0.82	0.79
North Carolina	0.95	1.01	1.01	1.01	1.02	1.07	1.07	1.06	1.06	1.06	1.08
North Dakota	1.47	1.37	1.58	1.52	1.62	1.77	1.90	1.96	1.66	1.65	1.68
Ohio	0.97	0.97	0.97	0.97	0.98	1.03	1.03	1.01	1.01	1.02	1.05
Oklahoma	1.30	1.32	1.33	1.36	1.41	1.44	1.43	1.46	1.45	1.41	1.36
Oregon	0.95	0.95	0.94	0.97	0.97	0.97	0.99	0.97	0.97	0.98	0.93
Pennsylvania	1.05	1.04	1.05	1.05	1.06	1.07	1.08	1.07	1.07	1.07	1.07

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**Table 9.59-- ADJUSTED FEDERAL EXPENDITURES PER DOLLAR
OF TAXES: 1995 TO 2005 -- Con.**

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Rhode Island	1.14	1.13	1.12	1.11	1.12	1.15	1.08	1.06	1.06	1.03	1.00
South Carolina	1.20	1.21	1.21	1.22	1.24	1.28	1.32	1.31	1.34	1.36	1.35
South Dakota	1.30	1.28	1.34	1.33	1.44	1.45	1.53	1.60	1.49	1.47	1.53
Tennessee	1.07	1.09	1.12	1.16	1.15	1.20	1.23	1.22	1.25	1.37	1.27
Texas	0.95	0.95	0.94	0.92	0.94	0.95	0.92	0.93	0.98	0.95	0.94
Utah	1.08	0.99	1.01	1.03	1.04	1.06	1.11	1.12	1.14	1.07	1.07
Vermont	1.03	1.04	1.01	1.03	1.07	1.09	1.11	1.11	1.15	1.16	1.08
Virginia	1.51	1.42	1.44	1.42	1.38	1.39	1.47	1.44	1.53	1.58	1.51
Washington	0.97	0.96	0.95	0.91	0.84	0.85	0.89	0.90	0.89	0.89	0.88
West Virginia	1.59	1.56	1.58	1.63	1.60	1.61	1.63	1.67	1.73	1.79	1.76
Wisconsin	0.80	0.81	0.84	0.86	0.87	0.90	0.89	0.86	0.82	0.83	0.86
Wyoming	1.08	1.03	1.03	1.06	1.06	1.08	1.09	1.07	1.16	1.13	1.11

Source: Tax Foundation, "Federal Taxes Paid vs. Federal Spending Received by State, 1981-2005"
(October 19, 2007) <<http://www.taxfoundation.org/research/topic/92.html>> accessed October 22, 2007.

**Table 9.60-- ADJUSTED FEDERAL EXPENDITURES PER DOLLAR
OF TAXES RANKING: 1995 TO 2005**

[For fiscal year ending September 30. Rank of 1 indicates highest ratio]

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Alabama	8	9	8	8	9	7	7	7	6	5	7
Alaska	17	15	10	11	6	5	6	3	3	2	3
Arizona	21	21	22	23	21	21	24	23	21	20	21
Arkansas	16	17	15	14	13	13	11	9	14	13	14
California	38	38	37	39	41	44	42	42	43	43	43
Colorado	34	35	39	37	38	42	41	44	39	40	41
Connecticut	50	49	50	50	49	50	49	49	46	46	48
Delaware	41	42	43	43	37	38	40	40	44	44	44
Dist. of Col.	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)	(X)
Florida	24	23	23	27	28	26	31	33	32	34	34
Georgia	33	32	32	33	33	33	33	31	34	33	32
Hawaii	15	7	7	6	7	8	9	10	12	10	12
Idaho	20	19	19	19	19	19	17	16	19	21	20
Illinois	47	48	46	46	46	45	46	46	45	45	45
Indiana	42	40	38	35	35	34	34	34	36	32	30
Iowa	26	24	24	21	20	24	21	21	30	25	24
Kansas	27	28	27	24	24	30	23	24	25	24	22
Kentucky	13	13	12	10	14	14	14	12	9	11	9
Louisiana	7	12	14	16	11	11	13	13	11	8	4
Maine	9	11	11	13	15	18	20	17	15	14	13
Maryland	14	16	16	15	16	16	18	19	18	16	18
Massachusetts	39	39	40	40	39	46	44	43	40	42	40
Michigan	45	44	44	44	44	40	37	38	38	38	37
Minnesota	44	46	45	45	45	43	45	45	47	48	46
Mississippi	3	2	4	4	4	3	3	3	2	3	2
Missouri	12	6	17	17	17	17	16	15	16	18	17
Montana	6	4	5	3	2	6	5	6	8	9	11
Nebraska	30	30	28	28	25	23	22	22	28	26	25
Nevada	48	45	48	48	47	47	47	47	49	49	49
New Hampshire	46	47	47	47	48	48	48	48	18	47	47
New Jersey	49	50	49	49	50	49	50	50	50	50	50
New Mexico	1	1	1	1	1	1	1	1	1	1	1
New York	40	41	41	41	42	39	43	41	42	41	42
North Carolina	36	29	30	31	31	28	30	28	27	19	27
North Dakota	5	8	3	5	3	2	2	2	5	6	6
Ohio	32	33	33	32	32	32	32	32	31	32	31
Oklahoma	11	10	13	9	10	10	12	11	13	15	15
Oregon	35	36	35	34	34	35	35	35	35	36	36
Pennsylvania	28	26	25	26	29	29	29	27	26	27	28

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**Table 9.60-- ADJUSTED FEDERAL EXPENDITURES PER DOLLAR
OF TAXES RANKING: 1995 TO 2005 -- Con.**

State	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005
Rhode Island	19	20	20	22	23	22	28	30	29	30	33
South Carolina	18	18	18	18	18	15	15	18	15	17	16
South Dakota	10	14	9	12	8	9	8	8	11	12	8
Tennessee	25	22	21	20	22	20	19	20	20	19	19
Texas	37	37	36	36	36	36	36	36	33	35	35
Utah	22	31	29	30	30	31	25	26	22	28	29
Vermont	29	25	31	29	26	25	26	25	24	22	26
Virginia	4	5	6	7	12	12	10	14	7	7	10
Washington	31	34	34	38	43	41	39	37	37	37	38
West Virginia	2	3	2	2	5	4	4	5	4	4	5
Wisconsin	43	43	42	42	40	37	38	39	39	39	39
Wyoming	23	27	26	25	27	27	27	29	23	23	23

X Not applicable.

Source: Tax Foundation, "Federal Taxes Paid vs. Federal Spending Received by State, 1981-2005"
(October 19, 2007) <<http://www.taxfoundation.org/research/topic/92.html>> accessed October 22, 2007.

**Table 9.61-- PUBLIC BONDED DEBT OF STATE AND COUNTY
GOVERNMENTS: 1994 TO 2015**

[In millions of dollars. 1994 to 1997 as of December 31 and as of June 30 for 1998 and beyond]

Year	Total bonded debt 1/	State debt	Total	County debt			
				Honolulu	Maui	Hawaii	Kauai
Tax Foundation of Hawaii and Hawaii state and county government							
1994	6,913.5	5,015.4	1,898.1	1,544.6	185.1	119.5	49.0
1995	7,078.1	5,126.1	1,952.0	1,604.0	188.4	114.1	45.5
1996	7,098.6	5,051.3	2,047.3	1,669.8	194.3	143.5	39.8
1997	7,239.3	5,258.1	1,981.2	1,616.2	188.2	139.0	37.8
1998	7,808.0	5,773.6	2,034.4	1,639.2	223.8	133.2	38.3
1999	7,768.4	5,582.6	2,185.8	1,788.6	235.1	126.4	35.7
2000	8,023.2	5,745.2	2,278.0	1,831.6	236.8	149.3	60.4
2001	7,855.2	5,471.6	2,383.6	1,932.7	234.9	141.2	74.8
2002	8,856.6	6,072.0	2,784.6	2,312.1	246.3	155.9	70.2
2003	8,861.0	5,793.8	3,067.2	2,592.3	243.0	165.6	66.2
U.S. Census Bureau: debt outstanding							
2000	7,909.0	5,592.2	2,316.8	(NA)	(NA)	(NA)	(NA)
2001	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
2002	8,448.3	5,656.3	2,791.9	(NA)	(NA)	(NA)	(NA)
2003	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)	(2/)
2004	9,106.5	5,746.2	3,360.3	(NA)	(NA)	(NA)	(NA)
2005	9,292.1	5,844.3	3,447.8	(NA)	(NA)	(NA)	(NA)
2006	9,504.0	5,791.8	3,712.2	(NA)	(NA)	(NA)	(NA)
2007	10,431.5	6,242.4	4,189.1	(NA)	(NA)	(NA)	(NA)
2008	10,733.6	6,296.5	4,437.1	(NA)	(NA)	(NA)	(NA)
2009	11,495.0	6,880.2	4,614.7	(NA)	(NA)	(NA)	(NA)
2010	12,634.4	7,700.7	4,933.8	(NA)	(NA)	(NA)	(NA)
2011	13,377.0	7,912.8	5,464.2	(NA)	(NA)	(NA)	(NA)
2012	14,025.0	8,398.0	5,627.0	(NA)	(NA)	(NA)	(NA)
2013	14,447.3	8,318.4	6,128.9	(NA)	(NA)	(NA)	(NA)
2014	14,296.4	8,426.6	5,869.8	(NA)	(NA)	(NA)	(NA)
2015	14,823.8	8,757.7	6,066.1	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Outstanding state and county bonds, both general obligation and revenue bonds. Gross debt exclusive of cash reserves. Excludes bonds not chargeable to public funds and short-term bond anticipation notes.

2/ There are no by-state statistics or state-area statistics available for 2000-01 nor 2002-03.

Source: Tax Foundation of Hawaii, *Government in Hawaii*, table 52 (annual) and Tax Foundation of Hawaii unpublished compilations of Hawaii State Department of Accounting and General Services, *Annual Report of the Comptroller* (annual) and of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports); and U.S. Census Bureau "State and Local Government Finances by Level of Government and by State" (annual) <<http://www.census.gov/govs/local/>> accessed June 26, 2018.

Table 9.62-- STATE GENERAL OBLIGATION BOND DEBT: 1990 TO 2017

[In thousands of dollars. For fiscal years ending June 30]

Year	Total bonded indebtedness	General long-term obligations account group	Enterprise funds	Component unit - University of Hawaii
1990	2,026,100	1,967,556	33,100	25,444
1991	2,274,846	2,222,324	27,700	24,822
1992	2,328,546	2,281,875	22,511	24,160
1993	2,767,691	2,726,654	17,577	23,460
1994	2,872,488	2,834,234	13,867	24,387
1995	2,934,965	2,901,651	9,948	23,366
1996	2,869,639	2,841,069	6,265	22,305
1997	3,102,288	3,075,862	5,231	21,195
1998	3,387,988	3,363,517	4,312	20,159
1999	3,189,298	3,166,880	3,468	18,950
2000	3,299,863	3,278,479	2,644	18,740
2001	3,244,857	3,225,635	1,799	17,423
2002	(NA)	3,568,001	(NA)	(NA)
2003	(NA)	3,634,738	(NA)	(NA)
2004	(NA)	3,954,192	(NA)	(NA)
2005	(NA)	4,256,633	(NA)	(NA)
2006	(NA)	4,322,964	(NA)	(NA)
2007	(NA)	4,079,714	(NA)	(NA)
2008	(NA)	4,408,572	(NA)	(NA)
2009	(NA)	4,779,666	(NA)	(NA)
2010	(NA)	5,157,198	(NA)	(NA)
2011	(NA)	4,987,544	(NA)	(NA)
2012	(NA)	5,475,348	(NA)	(NA)
2013	(NA)	5,534,921	(NA)	(NA)
2014	(NA)	5,784,139	(NA)	(NA)
2015	(NA)	6,503,281	(NA)	(NA)
2016	(NA)	6,953,431	(NA)	(NA)
2017	(NA)	7,635,827	(NA)	(NA)

NA Not available.

Source: Hawaii State Department of Accounting and General Services, *State of Hawaii, Comprehensive Annual Financial Report* (fiscal years 1990-2001), Schedule I-2, and for fiscal year 2000, Schedule K-3; and *Ibid. For the Fiscal Year Ended June 30* (fiscal years thereafter)

<<http://ags.hawaii.gov/accounting/annual-financial-reports/>> accessed January 29, 2018.

Table 9.63-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 2017

Year	Government jobs 1/				State civil service workers 2/	State retirement system members 3/
	All levels	Federal	Territory or State	County		
1940	22,136	11,139	6,245	4,752	2,616	8,352
1945	78,846	66,248	7,231	5,367	3,772	12,662
1950	33,140	18,891	7,955	6,294	5,280	16,120
1960	49,510	27,010	14,620	7,880	6,790	24,092
1970	73,640	33,380	30,600	9,660	10,166	38,912
1980	89,050	30,000	45,150	13,900	17,327	48,868
1990	105,600	34,200	57,100	14,400	20,654	53,509
1991	108,900	33,900	60,300	14,800	(NA)	55,604
1992	111,100	33,300	62,600	15,300	22,920	57,401
1993	111,500	31,800	64,200	15,500	24,267	59,518
1994	111,900	31,300	65,000	15,600	24,716	61,082
1995	111,400	31,100	63,900	4/ 16,400	24,138	60,687
1996	110,600	31,100	62,800	16,600	23,338	59,275
1997	111,700	30,700	64,300	16,800	23,133	59,500
1998	112,200	30,400	64,900	16,900	23,627	60,447
1999	112,800	30,300	65,800	16,700	23,927	61,164
2000	114,600	31,000	66,900	16,700	5/ 21,380	62,207
2001	114,450	30,100	67,300	17,100	(NA)	63,408
2002	117,950	30,650	70,150	17,150	(NA)	66,043
2003	119,150	31,650	70,550	16,950	(NA)	66,442
2004	120,050	31,450	71,500	17,100	24,038	67,074
2005	119,650	31,300	71,150	17,200	23,828	68,011
2006	121,250	31,850	71,950	17,450	26,013	69,233
2007	122,100	31,750	72,400	17,950	(NA)	70,805
2008	125,000	32,200	74,300	18,550	(NA)	72,436
2009	125,700	33,300	73,700	18,650	(NA)	73,928
2010	125,200	34,800	71,700	18,700	(NA)	72,785
2011	124,600	34,900	71,100	18,500	(NA)	71,959
2012	125,500	34,900	72,100	18,500	21,083	72,508
2013	124,500	33,900	71,900	18,700	23,183	73,538
2014 6/	126,200	33,200	74,200	18,800	23,282	75,311
2015 6/	126,400	33,100	74,500	18,900	23,182	74,723
2016 6/	126,000	33,200	73,900	19,000	23,046	75,118
2017 6/	125,600	33,400	73,200	19,000	21,699	75,152

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Table 9.63-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 2017 -- Con.

NA Not available.

1/ Data are annual averages and rounded to nearest 100 for 1990-2000 and 2010-2017, and to 50 for 2001-2009. Totals may not add due to rounding.

2/ December 31 through 1960 and June 30 thereafter. State or Territorial workers in civil service system. Data exclude county employees, also covered by civil service.

3/ June 30 through 1960 and March 31 1961 through 2011, June 30 thereafter. Includes State or Territorial employees, county employees, and inactive members (those no longer employed by the State, Territory, or counties who have remained in the System), but excludes pensioners.

4/ 1995 data not comparable to earlier years.

5/ Does not include Hawaii Health Systems Corp. (HHSC). HHSC is a separate personnel jurisdiction apart from the civil service historically reported with the Department of Health and, since December 1999, its workforce data are not available.

6/ 'Government jobs' benchmarked by Hawaii Department of Labor & Industrial Relations in March 2018. 'Total' revised for 2014 and 'Total and 'State' revised for 2016.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii*, pp. 616-617; *Data Book 1978*, p. 158; Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual) and for 1990-2017 "Job Count by Industry" <<https://www.hiwi.org/gsipub/index.asp?docid=421>> accessed June 29, 2018; Hawaii State Department of Human Resources Development, *Executive Branch Workforce Profile Reports Fiscal Year Ending June 30* (annual) <<http://dhrd.hawaii.gov/reports/workforce-reports/>> accessed June 29, 2018 and records; Employees' Retirement System of the State of Hawaii, *Comprehensive Annual Financial Report (annual)*, Ibid. *Report to Board of Trustees on the Annual Actuarial Valuation for the Year Ending June 30* (annual) <<http://ers.ehawaii.gov/resources/financials>> accessed July 14, 2018; and records.

Table 9.64-- FEDERAL GOVERNMENT EMPLOYMENT, BY AGENCY: 2012 TO 2017

[Fiscal year ending September 30. Excludes the U.S. Postal Service and individual state totals exclude the Federal Bureau of Investigation (FBI). Detail may not sum to department or agency total]

Agency	2012	2013	2014	2015 1/	2016 1/	2017 1/
TOTAL	25,671	24,574	24,377	24,968	25,334	22,248
Cabinet-level	25,379	24,298	24,105	24,702	25,047	21,993
Agriculture	781	756	773	755	755	738
Commerce	442	426	460	429	418	410
Defense	19,375	18,370	18,173	18,599	18,856	17,897
Air Force	1,806	1,770	1,806	1,779	1,790	1,616
Army	5,806	5,409	5,191	5,161	5,188	4,969
Other Defense	1,085	1,047	1,041	1,293	1,281	1,251
Navy/Marine Corps	10,678	10,144	10,135	10,366	10,597	10,061
Justice	294	291	284	517	519	(1/)
U.S. Marshall's Service	27	25	26	25	22	(1/)
Prisons	198	201	194	192	191	(1/)
U.S. Attorney	59	54	53	54	58	55
Labor	31	34	33	32	30	29
Energy	2	2	2	2	(1/)	(1/)
Education	-	-	-	-	(1/)	(1/)
Health & Human Services	175	166	169	168	161	153
Homeland Security 2/	1,971	1,976	1,914	1,900	1,909	(1/)
U.S. Coast Guard	147	139	126	125	126	108
Immig. & Customs Enf.	88	89	89	82	87	(1/)
Customs & Border Prot.	308	296	296	294	304	(1/)
Trans. Security Admin.	1,333	1,362	1,317	1,284	1,279	(1/)
FEMA	55	53	47	47	44	50
Housing & Urban Dev.	26	25	25	22	19	20
Interior	723	648	631	595	633	609
National Park Service	476	425	404	375	400	367
State	18	19	17	18	19	20
Transportation	413	398	407	381	400	394
Fed. Aviation Admin.	395	381	388	367	380	376
Fed. Highways Admin.	15	14	15	11	16	14
Treasury	143	119	120	102	92	(1/)
Internal Revenue Service	141	118	118	99	(1/)	(1/)
Veterans Affairs	985	1,068	1,097	1,200	1,236	1,247
Veterans Benefits Admin.	86	92	99	100	101	102
National Cemetery Admin.	26	26	24	27	27	26
Veterans Health Admin.	847	925	950	1,046	1,083	1,093
Independent agencies 3/	292	276	272	240	(1/)	(1/)
Large	285	270	267	237	250	250
General Services Admin.	44	42	41	36	40	40
Social Security Admin.	131	122	129	138	141	139
Medium	7	6	5	3	(1/)	(1/)
Small	-	-	-	-	(1/)	(1/)

1/ Some component counts reflect suppressed categories, such as counts fewer than 12.

2/ New agency as of November 25, 2002.

3/ Large is 1,000 or more; Medium is 100 to 999; and Small is fewer than 100 employees.

Source: U.S. Office of Personnel Management, FedScope <http://www.fedscope.opm.gov/employment_access.asp> accessed March 7, 2018, and records.

Table 9.65-- STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLL, BY FUNCTION: MARCH 2015

[In number of jobs and thousands of dollars]

Government function	Employment				Payroll			Part-time hours paid (March)
	Total	Full-time	Part-time	Full-time equivalent	Total March	Full-time employees	Part-time employees	
Total 1/	90,631	68,685	21,946	75,016	347,866	326,489	21,377	1,077,716
Financial administration 1/	1,794	1,767	27	1,776	7,597	7,563	34	1,574
Other government administration	2,300	1,922	378	2,025	9,504	9,065	439	18,302
Judicial and legal	3,220	3,149	71	3,177	15,781	15,580	201	5,166
Police protection 1/	4,167	4,007	160	4,035	25,684	25,613	70	5,105
Persons with powers of arrest	3,117	3,116	1	3,116	22,159	22,158	1	54
Other 1/	1,050	891	159	919	3,525	3,456	69	5,051
Fire protection	2,011	1,973	38	1,999	13,493	13,390	103	4,739
Firefighters	1,823	1,823	-	1,823	12,696	12,696	-	-
Other	188	150	38	176	798	694	103	4,739
Corrections	2,554	2,545	9	2,548	12,349	12,313	35	625
Highways	1,828	1,805	23	1,816	8,321	8,292	30	2,110
Air transportation	1,022	1,013	9	1,017	4,574	4,559	15	684
Water transport and terminals	230	228	2	231	1,009	1,007	2	460
Public welfare	644	519	125	554	2,404	2,319	85	6,116
Health	2,315	2,238	77	2,270	11,559	11,406	153	5,750
Hospitals 1/	5,093	4,254	839	4,622	24,838	22,584	2,254	64,996
Social insurance administration	229	215	14	223	1,002	965	37	1,378
Solid waste management	628	627	1	628	3,062	3,059	3	174
Sewerage	795	793	2	794	3,573	3,572	1	106
Parks and recreation	4,189	2,008	2,181	2,260	7,814	7,179	636	44,600
Housing and community dev't	299	286	13	292	1,092	1,083	10	1,040
Natural resources	1,114	1,024	90	1,070	4,666	4,505	161	8,076

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**Table 9.65-- STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLL, BY FUNCTION:
MARCH 2015 -- Con.**

Government function	Employment				Payroll			Part-time hours paid (March)
	Total	Full-time	Part-time	Full-time equivalent	Total March	Full-time employees	Part-time employees	
Water supply	1,009	1,009	-	1,009	4,498	4,498	-	-
Transit 2/	109	89	20	107	389	354	36	3,226
Education total	49,513	31,974	17,539	37,187	160,967	144,218	16,750	879,454
Elem. & secondary educ. total	34,374	22,217	12,157	26,149	107,718	95,423	12,295	652,718
Elem. & sec. instructional	27,634	17,044	10,590	20,577	89,693	78,733	10,960	586,430
Elem. & sec other	6,740	5,173	1,567	5,572	18,025	16,690	1,334	66,288
Higher education total	15,003	9,622	5,381	10,901	52,692	48,240	4,452	226,464
Higher educ. Instructional	4,635	3,748	887	3,955	26,417	25,300	1,117	36,668
Higher ed other	10,368	5,874	4,494	6,946	26,276	22,940	3,335	189,796
Other education	136	135	1	137	558	555	3	272
Libraries	695	450	245	551	1,892	1,679	212	17,904
All other and unallocable	4,873	4,790	83	4,825	21,798	21,687	111	6,131

1/ 'Full-Time Equivalent Employment', 'Total March Payroll', 'Part-Time Payroll', and 'Part-Time Hours' revised from previous *Data Book*.

2/ 'Part-Time Hours' revised from previous *Data Book*.

Source: U.S. Census Bureau, 2015 Annual Survey of Public Employment and Payroll "EP1500A4: State and Local Government Employment and Payroll Data: March 2015" (revised October 19, 2017) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed December 19, 2017.

Table 9.66-- STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLL, BY FUNCTION: MARCH 2016

[In number of jobs and thousands of dollars]

Government function	Employment				Payroll			Part-time hours paid (March)
	Total	Full-time	Part-time	Full-time equivalent	Total March	Full-time employees	Part-time employees	
Total	90,812	68,773	22,039	75,694	359,627	336,589	23,037	1,176,973
Financial administration	1,819	1,787	32	1,793	7,718	7,686	32	1,090
Other government administration	2,336	1,956	380	2,062	9,532	9,094	438	18,624
Judicial and legal	3,414	3,336	78	3,368	16,472	16,285	187	5,696
Police protection	4,182	4,047	135	4,076	28,449	28,378	71	5,158
Persons with powers of arrest	3,159	3,159	-	3,159	24,810	24,810	-	-
Other	1,023	888	135	917	3,639	3,568	71	5,158
Fire protection	2,031	2,010	21	2,022	14,194	14,123	71	2,196
Firefighters	1,853	1,853	-	1,853	13,443	13,443	-	-
Other	178	157	21	169	751	681	71	2,196
Corrections	2,361	2,352	9	2,356	12,110	12,064	46	660
Highways	1,885	1,855	30	1,865	8,584	8,556	28	1,790
Air transportation	1,010	1,004	6	1,007	4,613	4,606	6	456
Water transport and terminals	223	222	1	222	997	997	-	76
Public welfare	614	501	113	536	2,282	2,203	79	6,300
Health	2,317	2,239	78	2,276	11,703	11,538	165	6,512
Hospitals	4,678	3,903	775	4,308	24,889	22,367	2,522	71,893
Social insurance administration	213	201	12	206	951	919	33	960
Solid waste management	641	637	4	639	3,212	3,208	4	276
Sewerage	765	763	2	763	3,716	3,714	2	84
Parks and recreation	4,123	2,048	2,075	2,304	8,036	7,421	615	45,389
Housing and community dev't	313	299	14	303	1,130	1,122	8	626
Natural resources	1,113	1,006	107	1,057	4,758	4,572	186	9,221

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**Table 9.66-- STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLL, BY FUNCTION:
MARCH 2016 -- Con.**

Government function	Employment				Payroll			Part-time hours paid (March)
	Total	Full-time	Part-time	Full-time equivalent	Total March	Full-time employees	Part-time employees	
Water supply	1,007	1,007	-	1,007	5,111	5,111	-	-
Transit	116	93	23	103	433	393	40	1,858
Education total	50,223	32,398	17,825	38,196	167,602	149,379	18,223	977,166
Elem. & secondary educ. total	34,672	22,296	12,376	26,748	112,391	98,795	13,595	738,884
Elem. & sec. instructional	27,929	17,094	10,835	21,077	93,332	80,951	12,380	661,102
Elem. & sec other	6,743	5,202	1,541	5,671	19,059	17,844	1,215	77,782
Higher education total	15,417	9,970	5,447	11,315	54,656	50,032	4,624	238,122
Higher educ. Instructional	4,836	4,089	747	4,282	28,884	27,844	1,040	34,140
Higher ed other	10,581	5,881	4,700	7,033	25,772	22,188	3,584	203,982
Other education	134	132	2	133	556	552	4	160
Libraries	730	489	241	574	2,015	1,831	184	15,130
All other and unallocable	4,698	4,620	78	4,651	21,120	21,022	98	5,812

Source: U.S. Census Bureau, 2016 Annual Survey of Public Employment and Payroll "EP1600A4: State and Local Government Employment and Payroll Data: March 2016" (October 19, 2017) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed December 19, 2017.

Table 9.67-- STATE GOVERNMENT EMPLOYMENT AND PAYROLL, BY FUNCTION: MARCH 2015

[In number of jobs and thousands of dollars]

Government function	Employment				Payroll			Part-time hours paid (March)
	Total	Full-time	Part-time	Full-time equivalent	Total March	Full-time employees	Part-time employees	
Total 1/	72,043	52,499	19,544	58,415	263,345	243,114	20,231	1,004,129
Financial administration	694	694	-	694	3,056	3,056	-	-
Other government admin.	844	700	144	784	3,654	3,292	361	14,890
Judicial and legal	2,565	2,506	59	2,527	12,473	12,293	180	3,926
Corrections	2,554	2,545	9	2,548	12,349	12,313	35	625
Highways	879	870	9	878	4,244	4,229	15	1,482
Air transportation	1,022	1,013	9	1,017	4,574	4,559	15	684
Water transport & terminals	230	228	2	231	1,009	1,007	2	460
Public welfare	438	417	21	426	1,895	1,883	13	1,596
Health	1,964	1,930	34	1,947	9,868	9,767	101	3,068
Hospitals 1/	5,093	4,254	839	4,622	24,838	22,584	2,254	64,996
Social insurance admin.	229	215	14	223	1,002	965	37	1,378
Parks and recreation	695	144	551	182	695	581	115	6,746
Natural resources	833	812	21	829	3,820	3,752	68	2,976
Education total	49,513	31,974	17,539	37,187	160,967	144,218	16,750	879,454
Elem. & sec. total	34,374	22,217	12,157	26,149	107,718	95,423	12,295	652,718
Elem & sec instruct.	27,634	17,044	10,590	20,577	89,693	78,733	10,960	586,430
Elem & sec other	6,740	5,173	1,567	5,572	18,025	16,690	1,334	66,288
Higher educ. total	15,003	9,622	5,381	10,901	52,692	48,240	4,452	226,464
Higher educ. Instruct.	4,635	3,748	887	3,955	26,417	25,300	1,117	36,668
Higher educ. other	10,368	5,874	4,494	6,946	26,276	22,940	3,335	189,796
Other	136	135	1	137	558	555	3	272
Libraries	693	448	245	549	1,885	1,673	212	17,904
All other and unallocable	3,797	3,749	48	3,771	17,016	16,941	75	3,944

1/ 'Full-Time Equivalent Employment', 'Total March Payroll', 'Part-Time Payroll', and 'Part-Time Hours' revised from previous *Data Book*.

Source: U.S. Census Bureau, 2015 Annual Survey of Public Employment & Payroll, "EP1500A2: State Government Employment and Payroll Data: March 2015" (October 19, 2017) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed December 19, 2017.

Table 9.68-- STATE GOVERNMENT EMPLOYMENT AND PAYROLL, BY FUNCTION: MARCH 2016

[In number of jobs and thousands of dollars]

Government function	Employment				Payroll			Part-time hours paid (March)
	Total	Full-time	Part-time	Full-time equivalent	Total March	Full-time employees	Part-time employees	
Total	71,861	52,248	19,613	58,777	269,423	247,472	21,951	1,107,239
Financial administration	679	679	-	679	3,049	3,049	-	-
Other government admin.	866	727	139	817	3,642	3,267	375	15,808
Judicial and legal	2,701	2,639	62	2,663	13,112	12,951	161	4,280
Corrections	2,361	2,352	9	2,356	12,110	12,064	46	660
Highways	860	847	13	853	4,284	4,275	9	1,012
Air transportation	1,010	1,004	6	1,007	4,613	4,606	6	456
Water transport & terminals	223	222	1	222	997	997	-	76
Public welfare	415	398	17	405	1,776	1,764	12	1,296
Health	1,943	1,906	37	1,925	9,766	9,656	111	3,340
Hospitals	4,678	3,903	775	4,308	24,889	22,367	2,522	71,893
Social insurance admin.	213	201	12	206	951	919	33	960
Parks and recreation	547	139	408	188	693	566	127	8,727
Natural resources	814	790	24	805	3,814	3,735	79	2,812
Education total	50,223	32,398	17,825	38,196	167,602	149,379	18,223	977,166
Elem. & sec. total	34,672	22,296	12,376	26,748	112,391	98,795	13,595	738,884
Elem & sec instruct.	27,929	17,094	10,835	21,077	93,332	80,951	12,380	661,102
Elem & sec other	6,743	5,202	1,541	5,671	19,059	17,844	1,215	77,782
Higher educ. total	15,417	9,970	5,447	11,315	54,656	50,032	4,624	238,122
Higher educ. Instruct.	4,836	4,089	747	4,282	28,884	27,844	1,040	34,140
Higher educ. other	10,581	5,881	4,700	7,033	25,772	22,188	3,584	203,982
Other	134	132	2	133	556	552	4	160
Libraries	728	487	241	572	2,008	1,824	184	15,130
All other and unallocable	3,600	3,556	44	3,575	16,116	16,053	63	3,623

Source: U.S. Census Bureau, 2016 Annual Survey of Public Employment & Payroll, "EP1600A2: State Government Employment and Payroll Data: March 2016" (October 19, 2017) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed December 19, 2017.

Table 9.69-- LOCAL GOVERNMENT EMPLOYMENT AND PAYROLL, BY FUNCTION: MARCH 2015

[In number of jobs and thousands of dollars]

Government function	Employment				Payroll			Part-time hours paid (March)
	Total	Full-time	Part-time	Full-time equivalent	Total March	Full-time employees	Part-time employees	
Total 1/	18,588	16,186	2,402	16,601	84,521	83,375	1,146	73,587
Financial administration 1/	1,100	1,073	27	1,082	4,541	4,507	34	1,574
Other government administration	1,456	1,222	234	1,241	5,851	5,773	78	3,412
Judicial and legal	655	643	12	650	3,308	3,287	21	1,240
Police protection 1/	4,167	4,007	160	4,035	25,684	25,613	70	5,105
Persons with power of arrest	3,117	3,116	1	3,116	22,159	22,158	1	54
Other police protection 1/	1,050	891	159	919	3,525	3,456	69	5,051
Fire protection total	2,011	1,973	38	1,999	13,493	13,390	103	4,739
Firefighters	1,823	1,823	-	1,823	12,696	12,696	-	-
Other fire protection	188	150	38	176	798	694	103	4,739
Highways	949	935	14	938	4,077	4,062	15	628
Public welfare	206	102	104	128	508	436	72	4,520
Health	351	308	43	323	1,691	1,639	52	2,682
Solid waste management	628	627	1	628	3,062	3,059	3	174
Sewerage	795	793	2	794	3,573	3,572	1	106
Parks and recreation	3,494	1,864	1,630	2,078	7,119	6,598	521	37,854
Housing & community dev't	299	286	13	292	1,092	1,083	10	1,040
Natural resources	281	212	69	241	845	752	93	5,100
Water supply	1,009	1,009	-	1,009	4,498	4,498	-	-
Transit	109	89	20	107	389	354	36	3,226
Libraries	2	2	-	2	6	6	-	-
All other and unallocable	1,076	1,041	35	1,054	4,782	4,746	36	2,187

1/ 'Full-time equivalent employment', 'Total March' and 'Part-time employees payroll', and 'Part-time hours paid' revised from previous *Data Book*.

Source: U.S. Census Bureau, 2015 Annual Survey of Public Employment & Payroll, "EP1500A3: Local Government Employment and Payroll Data: March 2015" (October 19, 2017) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 21, 2018.

Table 9.70-- LOCAL GOVERNMENT EMPLOYMENT AND PAYROLL, BY FUNCTION: MARCH 2016

[In number of jobs and thousands of dollars]

Government function	Employment				Payroll			Part-time hours paid (March)
	Total	Full-time	Part-time	Full-time equivalent	Total March	Full-time employees	Part-time employees	
Total	18,951	16,525	2,426	16,917	90,204	89,117	1,087	69,734
Financial administration	1,140	1,108	32	1,114	4,669	4,638	32	1,090
Other government administration	1,470	1,229	241	1,245	5,889	5,826	63	2,816
Judicial and legal	713	697	16	705	3,360	3,334	26	1,416
Police protection	4,182	4,047	135	4,076	28,449	28,378	71	5,158
Persons with power of arrest	3,159	3,159	-	3,159	24,810	24,810	-	-
Other police protection	1,023	888	135	917	3,639	3,568	71	5,158
Fire protection total	2,031	2,010	21	2,022	14,194	14,123	71	2,196
Firefighters	1,853	1,853	-	1,853	13,443	13,443	-	-
Other fire protection	178	157	21	169	751	681	71	2,196
Highways	1,025	1,008	17	1,012	4,300	4,281	18	778
Public welfare	199	103	96	131	505	439	67	5,004
Health	374	333	41	351	1,937	1,882	55	3,172
Solid waste management	641	637	4	639	3,212	3,208	4	276
Sewerage	765	763	2	763	3,716	3,714	2	84
Parks and recreation	3,576	1,909	1,667	2,116	7,343	6,855	488	36,662
Housing & community dev't	313	299	14	303	1,130	1,122	8	626
Natural resources	299	216	83	252	944	836	107	6,409
Water supply	1,007	1,007	-	1,007	5,111	5,111	-	-
Transit	116	93	23	103	433	393	40	1,858
Libraries	2	2	-	2	7	7	-	-
All other and unallocable	1,098	1,064	34	1,076	5,005	4,969	35	2,189

Source: U.S. Census Bureau, 2016 Annual Survey of Public Employment & Payroll, "EP1600A3: Local Government Employment and Payroll Data: March 2016" (October 19, 2017) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 21, 2018.

Table 9.71-- PUBLIC EMPLOYEES INCLUDED IN COLLECTIVE BARGAINING UNITS: 2016

[As of December 31]

Bar- gaining unit	Job category	Total	State of Hawaii	City & County of Honolulu	County of Hawaii	County of Maui	County of Kauai	Dept. of Educ.	Judici- ary	Univer- sity of Hawaii	HHSC 1/
	Total	60,607	12,848	8,209	2,322	2,153	1,084	21,633	1,554	7,349	3,455
1	Blue-collar nonsupervisors	8,439	1,871	1,859	562	588	389	2,122	99	528	421
2	Blue-collar supervisors	767	176	208	49	42	13	246	1	13	19
3	White-collar nonsupervisors	12,819	3,488	1,509	577	522	210	4,449	785	683	596
4	White-collar supervisors	798	218	141	37	30	14	259	54	31	14
5	Teachers & other personnel 2/	12,629	-	-	-	-	-	12,629	-	-	-
6	Educational officers 3/	911	-	-	-	-	-	911	-	-	-
7	Faculty of the University of Hawaii and the community college system	3,713	-	-	-	-	-	-	-	3,713	-
8	Personnel of the University of Hawaii and the community college system, other than faculty	2,372	-	-	-	-	-	-	-	2,372	-
9	Registered prof. nurses	1,534	397	-	-	-	-	2	4	8	1,123
10	Institutional, health and correctional workers	2,914	1,635	244	-	-	-	30	57	1	947
11	Firefighters	1,943	176	1,020	334	277	136	-	-	-	-
12	Police officers	2,901	-	1,986	422	352	141	-	-	-	-
13	Prof. & scientific employees 4/	8,096	4,444	1,072	291	282	133	985	554	-	335
14	State law enforcement officers & state & county ocean safety & water safety officers	771	443	170	50	60	48	-	-	-	-

1/ Hawaii Health Systems Corporation.

2/ Includes teachers and other personnel of the Department of Education under same salary schedule and part-time employees working less than 20 hours a week who are equal to one-half of a full-time equivalent.

3/ Also includes other Department of Education personnel under same salary schedule.

4/ Professional & scientific employees, who cannot be included in any other bargaining units.

Source: State of Hawaii Labor Relations Board, *HLRB Informational Bulletin No. 55*, (April 12, 2017). See also <<http://labor.hawaii.gov/hlrp/find-a-report/>> accessed July 19, 2017.

**Table 9.72-- SALARIES OF SELECTED GOVERNMENT OFFICIALS:
2002 TO 2007**

[Annual rates, in dollars, as of January 1]

Government official	2002	2003	2004	2005	2006	2007
Governor	94,780	94,780	94,780	94,780	94,780	112,000
Lieutenant Governor	90,041	90,041	90,041	90,041	90,041	100,000
Mayor, Honolulu 1/	112,200	112,200	112,200	112,200	116,688	122,000
Mayor, Hawaii 2/	78,564	85,080	85,080	85,080	85,080	85,080
Mayor, Maui 3/	96,000	96,000	96,000	103,860	103,860	103,860
Mayor, Kauai	73,118	73,118	73,118	80,000	80,000	80,000
Chief Justice, Supreme Court 4/	116,779	116,779	116,779	116,779	116,779	116,779
Assoc. Justice, Supreme Court 4/	115,547	115,547	115,547	115,547	115,547	115,547
President, University of Hawaii 5/	442,000	442,000	442,000	325,000	360,000	360,000

1/ Increased to \$110,000 effective July 1, 2000; and a 2 percent increase to \$112,200 effective July 1, 2001. A resolution to reject the Salary Commission's recommendation to increase to \$115,566 was adopted by the City Council on May 29, 2002, subsequent increases to \$116,688 recommended on April 20, 2005 and to \$122,000 on April 27, 2006 were not rejected within the 60-day limit and therefore are effective on July 1 of that year. Similarly, the Mayor's salary increased by 5 percent to \$128,100 on July 1, 2007.

2/ The Mayor's salary of \$78,564 became effective on December 4, 2000. By Salary Commission recommendation of April 19, 2002, the Mayor's salary increased to \$85,080 effective June 30, 2002.

3/ On January 1, 2002 the Mayor's salary increased 7 percent from \$89,712 to \$96,000 and to \$103,860 effective July 1, 2004. 2005 and 2006 are revised from previous *Data Book*.

4/ On February 16, 2000, Governor Benjamin J. Cayetano signed a bill that rectifies a measure passed by the 1999 Legislature. This mandates an increase of 4 percent over two years which was retroactive to July 1, 1999.

5/ For 1996-2000, Kenneth J. Mortimer's contract, expiring June 30, 2003, reportedly included use of the residence at College Hill and of a car. The Board of Regents was not available to confirm the contract and salary specifics. The contracted salary for Evan S. Dobbelle of \$442,000 was effective July 2, 2001 and was to run to June 30, 2008 but was terminated by the Board of Regents on June 15, 2004. David McClain was named interim president by the Board of Regents effective August 15, 2004 through August 14, 2006. Terms of the contract include an annual salary of \$325,000 a year, residence at College Hill, a monthly car allowance of \$326, and a year of sabbatical leave upon successful completion of the two-year appointment with compensation set at \$190,000. The Board of Regents and David McClain agreed on March 7, 2006 on a March 1, 2006 - July 31, 2009 contract including \$360,000 annual salary plus free use of Manoa's College Hill mansion; \$326 monthly auto allowance and parking; an unspecified amount of expense account while on UH business for him and wife and post-contract a \$250,000 year's sabbatical; tenured professorship at \$250,000 per school year. It also provides a severance of one-year's pay if McClain involuntarily leaves the university before the contract expires.

Source: City & County of Honolulu, Hawaii, Maui, and Kauai County Mayor's offices, ordinances and Salary Commissions records; Hawaii State Department of Business, Economic Development & Tourism telephone surveys, various Honolulu Advertiser articles, and *Honolulu Star-Bulletin* "UH, McClain sign 3-year deal", March 8, 2006.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their family members, National Guard expenditures and strength, civilian employment in national defense, veterans, land controlled by the U.S. Department of Defense (DOD), military housing, and expenditures by the armed forces. Additional information appears in sections 1, 2, 9, 12, and 23.

The Hawaii State Department of Business, Economic Development & Tourism (DBEDT) has compiled periodic reports on military personnel and dependents since 1959. Other published sources include reports of the U.S. DOD, U.S. Census Bureau, U.S. Department of Veterans Affairs, the Hawaii State Department of Labor and Industrial Relations and the Hawaii State Department of Defense. Definitions used by these sources differ to some degree, and care is necessary in comparing data issued by two or more agencies. *Historical Statistics of Hawaii*, Section 26, includes series on the armed forces dating back to 1795. Section 10 of the *Statistical Abstract of the United States: 2012* presents data on national defense and veterans affairs for other states and the U.S. as a whole.

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**Table 10.01-- HAWAII RESIDENTS ON ACTIVE DUTY WITH THE
U.S. ARMED FORCES WORLDWIDE: 1950 TO 2002**

[As of June 30, unless otherwise specified. 1950-1979 based on pre-service residence;
1980-1995 and 2002, on home of record]

Year	Number	Year	Number	Year	Number
1950	7,699	1968	22,433	1986	10,882
1951	10,958	1969	15,856	1987	10,896
1952	16,594	1970	15,331	1988	10,548
1953	16,217	1971	13,600	1989 1/	10,501
1954	16,189	1972	11,600	1990	10,052
1955	15,175	1973	10,200	1991	10,076
1956	15,243	1974	10,810	1992	8,432
1957	14,687	1975	10,640	1993	7,621
1958	13,310	1976	10,600	1994	5,098
1959	12,596	1977	10,640	1995 2/	4,237
1960 3/	12,662	1978	10,715	1996	(NA)
1961	11,340	1979 3/	11,069	1997	(NA)
1962	13,464	1980	11,851	1998	(NA)
1963	14,944	1981	11,927	1999	(NA)
1964	15,000	1982	11,926	2000	(NA)
1965	15,109	1983	11,641	2001	(NA)
1966	15,875	1984	11,466	2002 4/	3,970
1967	18,048	1985	10,827		

NA Not available.

1/ U.S. military personnel stationed abroad as of December 31, 1989 included 3,782 whose home of record was Hawaii and 5,049 whose last duty station was Hawaii (data from U.S. Bureau of the Census, Press Clippings, CB90-28, July 23, 1990).

2/ For 1995, Defense Manpower Data Center does not include home-of-record for U.S. Air Force.

3/ As of March 31 or April 1.

4/ As of December 31.

Source: 1950-1969 estimates by U.S. Bureau of the Census, in Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1977* (Statistical Report 120, September 9, 1977), table 5; 1970-2002 from U.S. Department of Defense, Defense Manpower Data Center, records.

**Table 10.02-- ACTIVE DUTY BY LEGAL RESIDENCE
AND SELECTED RESERVES BY HOME OF RECORD: 2002**

[As of December 31, 2002]

Category	Selected reserves by home of record		Active duty by legal residence	
	Hawaii	United States	Hawaii	United States
Total	9,108	876,527	3,970	1,399,751
American Indian/Alaska Native	52	8,275	13	15,795
Asian/Pacific Islander	5,639	26,640	2,630	56,667
Black	436	143,672	173	275,205
White	2,122	611,482	710	897,514
Hispanic	374	70,333	149	127,900
Other/unknown	485	16,125	295	26,670
Other	(NA)	(NA)	95	13,869
Unknown	(NA)	(NA)	200	12,801
Total	9,108	876,527	3,970	1,399,751
Female	1,656	151,656	592	210,085
Male	7,452	724,871	3,378	1,189,666

NA Not available.

Source: U.S. Department of Defense, Directorate of Information, Operations and Reports unpublished compilation, September 10, 2003 based on Defense Manpower Data Center unpublished data.

Table 10.03-- ACTIVE DUTY PERSONNEL, BY SERVICE: 1953 TO 2015

[As of June 30 for 1953 to 1956; as of September 30 for 1957 and thereafter. Excludes Coast Guard]

Year	Total 1/	Army	Navy	Marine Corps	Air Force	Year	Total 1/	Army	Navy	Marine Corps	Air Force
1953	24,785	5,872	7,657	6,040	5,216	1985	46,875	18,262	12,722	9,192	6,699
1954	23,654	7,957	6,443	4,155	5,099	1986	46,122	18,153	12,938	8,752	6,279
1955	40,258	19,821	5,211	9,677	5,549	1987	47,262	18,905	12,975	9,263	6,119
1956	37,470	16,531	5,237	9,490	6,212	1988	45,843	18,170	12,479	9,365	5,829
1957	40,683	17,511	5,466	9,608	8,098	1989	45,935	18,788	12,403	9,179	5,565
1958	35,076	14,672	4,908	8,670	6,826	1990	41,887	18,590	12,289	5,618	5,390
1959	36,310	15,438	5,309	8,470	7,093	1991	44,092	18,173	12,040	8,571	5,308
1960	35,412	15,492	5,687	7,756	6,477	1992	44,864	18,666	12,321	8,945	4,932
1961	39,474	16,945	5,774	9,679	7,076	1993	42,958	18,831	11,272	8,147	4,708
1962	41,657	17,645	6,664	9,903	7,445	1994	42,161	19,485	11,510	6,484	4,682
1963	40,610	16,589	6,545	9,950	7,526	1995	38,172	16,672	10,738	6,198	4,564
1964	45,046	18,566	6,777	10,613	9,090	1996	36,392	15,225	10,643	5,953	4,571
1965	41,984	20,006	6,700	6,154	9,124	1997	34,826	15,249	9,840	6,123	3,614
1966	30,136	8,712	6,251	4,485	10,688	1998	34,643	15,133	7,882	7,081	4,547
1967	34,338	10,923	7,041	5,277	11,097	1999	32,708	14,692	7,397	6,136	4,483
1968	42,332	10,871	14,961	5,509	10,991	2000	33,930	15,483	7,998	5,960	4,489
1969	43,018	12,918	12,652	6,361	11,087	2001	34,322	15,709	8,349	5,821	4,443
1970	38,397	9,639	11,996	7,189	9,573	2002	34,608	15,985	8,654	5,680	4,289
1971	34,515	9,738	10,392	5,319	9,066	2003	34,203	15,985	8,381	5,161	4,676
1972	39,150	13,093	10,752	6,803	8,502	2/ 2004	35,061	17,068	7,694	5,541	4,758
1973	43,809	17,336	10,729	7,695	8,049	2/ 2005	32,629	15,458	6,524	5,796	4,851
1974	42,204	17,581	10,072	7,192	7,359	2/ 2006	34,935	18,687	6,080	5,050	5,118
1975	43,071	17,312	10,852	8,403	6,504	2/ 2007	34,838	19,867	5,595	4,483	4,893
1976	43,903	18,037	10,531	9,174	6,161	2/ 2008	37,847	21,554	5,320	6,306	4,667
1977	42,835	17,476	9,647	9,783	5,929	2/ 2009	36,890	21,267	5,472	5,574	4,577
1978	43,907	18,711	10,458	8,796	5,942	2/ 2010	38,755	22,186	5,402	6,532	4,635
1979	45,408	17,446	10,562	11,397	6,003	2/ 2011	42,371	22,895	8,630	5,905	4,941
1980	43,313	17,118	10,976	9,277	5,942	2/ 2012	49,110	22,546	15,066	6,385	5,113
1981	44,141	17,962	10,948	9,070	6,161	2/ 2013	49,023	21,718	14,647	7,371	5,287
1982	44,470	17,457	11,880	8,926	6,207	2/ 2014	51,045	22,194	15,730	7,817	5,304
1983	44,651	17,466	12,671	7,926	6,588	2/ 2015	46,764	17,832	16,024	7,777	5,131
1984	47,648	19,222	12,960	8,703	6,763						

1/ Exclude personnel afloat or temporary shore-based, but include deployed for Operations Iraqi Freedom, Enduring Freedom, and New Dawn.

2/ Confirmation of personnel count requested of Defense Manpower Data Center. See following table for personnel count by location.

Source: U.S. Department of Defense, Defense Manpower Data Center, Statistical Information Analysis Division, Historical Military Personnel and Active Duty Military Personnel by Service by Region/Country, Total DOD - September 30 (annual)
 <https://www.dmdc.osd.mil/appj/dwp/dwp_reports.jsp> accessed November 24, 2015.

**Table 10.04-- ACTIVE DUTY AND RESERVE PERSONNEL,
BY SERVICE: 2008 TO 2017**

[As of September 30. Personnel located in Hawaii, as personnel deployed are counted in the location country]

Year and component	All services	Department of Defense					Coast Guard
		Total	Army	Navy	Marine Corps	Air Force	
Active duty							
2008	37,584	36,300	15,349	12,459	4,088	4,404	1,284
2009	37,473	36,110	14,158	13,411	4,202	4,339	1,363
2010	42,167	40,831	17,277	13,668	5,519	4,367	1,336
2011	42,991	41,644	18,483	13,563	4,928	4,670	1,347
2012	46,736	45,394	19,799	14,345	6,364	4,886	1,342
2013	48,304	47,002	21,238	14,486	6,113	5,165	1,302
2014	49,836	48,565	21,857	15,273	6,264	5,171	1,271
2015	46,123	44,872	17,631	15,877	6,355	5,009	1,251
2016	38,284	37,057	16,937	8,359	6,784	4,977	1,227
2017	36,620	35,412	16,313	7,792	6,370	4,937	1,208
National Guard and reserve 1/							
2008	8,919	8,790	5,130	726	35	2,899	129
2009	9,002	8,880	5,191	793	78	2,818	122
2010	9,255	9,116	5,216	743	83	3,074	139
2011	9,402	9,266	5,475	736	96	2,959	136
2012	9,216	9,070	5,247	777	89	2,957	146
2013	9,145	8,992	5,229	726	75	2,962	153
2014	9,319	9,167	5,433	666	62	3,006	152
2015	9,124	9,124	5,556	631	68	2,869	(2/)
2016	9,142	9,005	5,369	615	56	2,965	137
2017	9,402	9,283	5,525	611	281	2,866	119

1/ All services have reserve units and the Army and the Air Force also have National Guard units.

2/ Indicated as '0' in Source for all states and areas. Clarification from DMDC awaited.

Source: U.S. Department of Defense, Defense Manpower Data Center, "Counts of Active Duty and Reserve Service Members and APF Civilians By Location Country, Personnel Category, Service and Component" (annually September 30) <https://www.dmdc.osd.mil/appj/dwp/dwp_reports.jsp> accessed November 27, 2017 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.05-- FEDERAL GOVERNMENT MILITARY AND
CIVILIAN PERSONNEL: 1969 TO 2016**

[Estimates of employment for 1969 to 1974 are based on the 1967 Standard Industrial Classification (SIC), for 1975 to 1987 on the 1972 SIC, and for 1988 to 1997 on the 1987 SIC. Estimates of employment for 1998 to 2006 are based on the 2002 North American Industry Classification System (NAICS), for 2007 to 2010 on the 2007 NAICS, and for 2011 forward on the 2012 NAICS]

Year	Federal government			Year	Federal government		
	Total	Military 1/	Civilian		Total	Military 1/	Civilian
1969	104,362	69,603	34,759	1993	94,628	63,070	31,558
1970	102,400	68,949	33,451	1994	92,326	61,218	31,108
1971	98,613	65,586	33,027	1995	89,174	58,638	30,536
1972	99,074	66,350	32,724	1996	87,289	56,441	30,848
1973	102,197	70,540	31,657	1997	85,743	55,452	30,291
1974	102,021	70,896	31,125	1998	84,942	54,859	30,083
1975	103,159	72,142	31,017	1999	82,854	53,079	29,775
1976	100,327	69,170	31,157	2000	82,668	52,496	30,172
1977	96,689	66,396	30,293	2001	82,943	53,652	29,291
1978	96,891	66,416	30,475	2002	83,629	52,919	30,710
1979	95,902	65,104	30,798	2003	84,507	52,791	31,716
1980	97,046	66,457	30,589	2004	85,313	53,758	31,555
1981	93,829	62,944	30,885	2005	84,395	53,019	31,376
1982	94,451	62,628	31,823	2006	86,221	54,363	31,858
1983	98,270	65,863	32,407	2007	86,321	54,515	31,806
1984	101,126	68,406	32,720	2008	88,324	56,047	32,277
1985	102,322	68,904	33,418	2009	89,073	55,663	33,410
1986	100,922	67,691	33,231	2010	91,112	56,237	34,875
1987	102,338	69,062	33,276	2011	92,022	57,087	34,935
1988	102,001	68,813	33,188	2012	92,406	57,456	34,950
1989	101,759	68,470	33,289	2013	91,272	57,362	33,910
1990	100,945	67,225	33,720	2014 2/	90,388	57,270	33,118
1991	100,557	67,484	33,073	2015 2/	91,455	58,287	33,168
1992	98,516	65,717	32,799	2016	89,739	56,456	33,283

1/ Includes active duty military personnel that are stationed in the state plus the number of military reserve unit members. Navy personnel assigned to ships and other mobile units and Marines assigned to Fleet Marine Force units are measured according to the units' home ports rather than their actual locations as of the reporting date. The measure of employment of the military reserves, including the National Guard, is confined to members of reserve units that meet regularly for training. The state estimates are based on fiscal year-ending September 30-tabulations of military reserve strength provided by the Department of Defense. See also *State Personal Income and Employment: Concepts, Data Sources, and Statistical Methods* (September 2017) <<https://www.bea.gov/regional/pdf/spi2016.pdf>>.

2/ 2014 'Civilian' and 'Total' and 2015 revised from previous *Data Book*.

Source: U.S. Bureau of Economic Analysis, State Annual Personal Income, "SA25 Total Full-Time and Part-Time Employment by SIC Industry" and "SA25N Total Full-Time and Part-Time Employment by NAICS Industry" (September 26, 2017) <<http://www.bea.gov/iTable/iTable.cfm?reqid=70&step=1>> accessed September 26, 2017 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL
AND DEPENDENTS: 1989 TO 2015**

[As of September 30. Includes personnel performing civil functions, primarily those associated with the Army Corps of Engineers. Excludes Coast Guard]

Year	Total	Active-duty shore-based military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel 3/
1989	120,905	45,935	54,724	20,246
1990	113,471	41,887	51,727	19,857
1991	113,076	44,092	50,006	18,978
1992	110,428	44,864	47,671	17,893
1993	105,911	42,958	45,612	17,341
1994	99,188	42,161	39,989	17,038
1995	114,139	38,172	58,788	17,179
1996	111,002	36,392	57,786	16,824
1997	109,762	34,826	57,720	17,216
1998	104,018	34,643	52,643	16,732
1999	100,084	32,708	51,063	16,313
2000	100,826	33,930	50,804	16,092
2001	98,895	34,322	48,617	15,956
2002	98,118	34,608	47,002	16,508
2003	96,925	34,203	46,120	16,602
2004	98,835	35,061	47,198	16,576
2005	102,200	32,629	53,264	16,307
2006	(4/)	34,935	(4/)	17,079
2007	(4/)	34,838	(4/)	16,403
2008	(4/)	37,847	(4/)	17,340
2009	(4/)	36,890	(4/)	18,400
2010	(4/)	38,755	(4/)	(4/)
2011	(4/)	42,371	(4/)	(4/)
2012 4/	133,037	49,110	64,207	19,720
2013 4/	131,295	49,023	63,617	18,655
2014 4/ 5/	133,703	51,045	64,315	18,343
2015 4/	129,680	46,764	64,119	18,797

1/ Excludes Navy personnel afloat or temporary shore-based, e.g., approximately 6,000 as of September 30, 2006. See elsewhere in Section 10 for personnel data which includes afloat Navy and Marine Corps. Confirmation of personnel count for 2004 to 2015 requested of Defense Manpower Data Center. See Table 10.04 for personnel count by location.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Confirmation of personnel count for 2004 to 2015 requested of Defense Manpower Data Center. Not strictly comparable to civilian personnel counts elsewhere in the section.

4/ The DOD report containing number of dependents had not been released beyond FY 2005. Estimates of military dependents by other sources are available in Section 1. The DOD report containing the number of civilians had not been issued since FY2009. As of June 30, 2012 DMDC data are available for similar reporting.

5/ Civilian personnel as of June 30, 2014.

Source: U.S. Department of Defense, Defense Manpower Data Center, Statistical Information Analysis Division, *Department of Defense Selected Manpower Statistics (annual through 1996)*; *Worldwide Manpower Distribution by Geographical Area, September 30* (annual 1997 to 2005); "Active Duty Military Personnel by Service by Region/Country, Total - DOD September 30" (annual); *Distribution of Personnel by State and by Selected Locations, September 30* (annual) <<http://siadapp.dmdc.osd.mil/personnel/Pubs.htm>> accessed July 13, 2010; "Total Military Personnel and Dependent End Strength By Service, Regional Area, and Country" and "Total Civilian Personnel and Dependent End Strength By Service, Regional Area, and Country" (annual, as of September 30) <<https://www.dmdc.osd.mil/>> accessed November 24, 2015.

**Table 10.07-- DEPARTMENT OF DEFENSE PERSONNEL, BY SELECTED LOCATION:
SEPTEMBER 30, 2009**

Installation or geographic area	Total personnel	Military personnel 1/					Civilian personnel				
		Total	Army	Navy	Marines	Air Force	Total	Army 2/	Navy/ Marine	Air Force	Other defense agencies
State total	59,274	40,874	22,435	7,616	6,026	4,797	18,400	5,532	9,605	2,188	1,075
Aiea	428	329	3	323	-	3	99	-	89	-	10
Barbers Point NAS	187	66	1	64	-	1	121	3	28	26	64
Camp H.M. Smith	1,457	1,080	-	-	853	227	377	-	343	27	7
Ford Island	486	314	19	295	-	-	172	1	101	-	70
Fort Shafter	1,302	36	32	-	-	4	1,266	1,248	-	1	17
Hickam AFB	6,369	4,262	1	9	35	4,217	2,107	2	99	1,880	126
Honolulu	22,768	21,738	21,627	70	-	41	1,030	194	720	14	102
Kaneohe	6,423	5,729	6	796	4,926	1	694	-	622	-	72
Kauai Island	217	73	-	73	-	-	144	1	141	-	2
Kunia	1,851	1,734	1	1,597	135	1	117	43	72	2	-
Oahu Island	237	37	-	37	-	-	200	194	6	-	-
Pearl City	366	9	6	2	-	1	357	38	319	-	-
Pearl Harbor	6,700	3,854	1	3,696	75	82	2,846	3	2,406	-	437
Schofield Barracks	1,838	591	591	-	-	-	1,247	1,109	-	-	138
Tripler Army Med. Ctr.	2,043	18	-	15	-	3	2,025	2,015	10	-	-
Wahiawa	796	663	28	635	-	-	133	11	108	-	14
Wheeler AFB/Army Fld	722	173	1	-	-	172	549	421	-	112	16
Other	5,084	168	118	4	2	44	4,916	249	4,541	126	-

1/ Active duty. In some instances, the military departments, Army, Navy, and Air Force, report personnel by parent installation rather than their operating location and personnel on temporary duty (TDY) may be reported at their assigned location. Navy/Marine Corps includes military shore-based personnel and temporary shore-based personnel and beginning with FY 2005 state locations also include those personnel in an afloat duty status. There are approximately 6,000 personnel afloat for Hawaii.

2/ Direct hire civilian personnel include employees involved in civil functions in the Army Corps of Engineers and Army cemetery employees.

Source: U.S. Department of Defense, Defense Manpower Data Center, Statistical Information Analysis Division, Distribution of Personnel by State and by Selected Locations (M2), September 30, 2009, "DoD Military and Civilian Personnel by State - September 30, 2009"

<<http://siadapp.dmdc.osd.mil/personnel/M02/fy09/09top.htm>> accessed October 5, 2010.

Table 10.08-- DEPARTMENT OF DEFENSE EXPENDITURES FOR THE UNITED STATES, BY STATE: 2009

[In thousands of dollars. For fiscal year ending September 30]

State	Total expenditures	Total payroll outlays	Civilian pay	Military active duty pay	Reserve & National Guard pay	Retired military pay	Total contracts 1/	Grants
U. S. total	527,824,146	195,170,178	49,735,662	84,459,939	22,758,996	38,215,581	327,461,911	5,192,057
Hawaii	8,800,669	6,344,467	1,163,627	4,529,364	315,642	335,834	2,377,271	78,931
Hawaii as % of U.S.	1.7	3.3	2.3	5.4	1.4	0.9	0.7	1.5
Alabama	14,291,629	4,723,956	1,808,239	1,254,790	617,055	1,043,872	9,501,617	66,056
Alaska	4,888,348	2,659,561	321,206	2,077,719	90,592	170,044	2,180,004	48,783
Arizona	15,308,486	3,137,634	626,966	1,262,572	180,724	1,067,372	12,064,904	105,948
Arkansas	2,673,622	1,621,707	235,881	435,036	518,376	432,414	985,545	66,370
California	56,742,620	14,568,458	4,570,024	5,182,809	1,391,094	3,424,531	41,697,621	476,541
Colorado	10,725,693	5,125,122	786,177	2,965,503	285,229	1,088,213	5,544,160	56,411
Connecticut	12,638,248	720,299	184,190	198,163	149,873	188,073	11,817,700	100,249
Delaware	876,158	536,758	98,410	216,219	74,623	147,506	315,358	24,042
District of Columbia	8,406,175	3,599,245	1,508,947	1,906,999	124,189	59,110	4,740,563	66,367
Florida	22,802,179	9,417,919	1,942,655	2,816,465	826,134	3,832,665	13,188,889	195,371
Georgia	18,607,996	11,494,647	2,288,362	6,668,434	868,244	1,669,607	7,039,405	73,944
Hawaii	8,800,669	6,344,467	1,163,627	4,529,364	315,642	335,834	2,377,271	78,931
Idaho	934,634	709,220	100,861	261,607	116,236	230,516	166,118	59,296
Illinois	9,237,211	3,128,538	1,069,790	738,269	680,329	640,150	5,936,547	172,126
Indiana	9,188,013	2,338,121	705,646	350,647	905,556	376,272	6,795,168	54,724
Iowa	2,089,452	747,256	102,185	140,071	321,928	183,072	1,285,344	56,852
Kansas	6,867,835	3,667,675	471,455	2,465,253	334,444	396,523	3,158,303	41,857
Kentucky	12,285,425	5,680,752	508,305	4,339,243	391,231	441,973	6,534,291	70,382
Louisiana	9,149,589	2,688,149	414,120	1,417,143	410,608	446,278	6,407,579	53,861
Maine	2,382,017	846,681	440,345	113,348	87,175	205,813	1,407,038	128,298
Maryland	19,926,029	6,537,841	2,995,038	2,012,820	421,636	1,108,347	12,911,613	476,575
Massachusetts	15,081,759	1,490,630	539,474	319,863	312,302	318,991	13,347,134	243,995
Michigan	7,288,503	1,826,987	705,769	263,638	437,538	420,042	5,331,864	129,652

Continued on next page.

**Table 10.08-- DEPARTMENT OF DEFENSE EXPENDITURES FOR THE UNITED STATES,
BY STATE: 2009 -- Con.**

State	Total expenditures	Total payroll outlays	Civilian pay	Military active duty pay	Reserve & National Guard pay	Retired military pay	Total contracts 1/	Grants
Minnesota	2,806,926	1,208,062	177,452	206,036	557,666	266,908	1,529,964	68,900
Mississippi	5,689,655	2,224,346	585,976	629,352	558,821	450,197	3,447,072	18,237
Missouri	14,281,251	3,786,836	586,610	1,310,799	1,268,807	620,620	10,453,949	40,466
Montana	853,639	540,644	91,395	187,506	110,398	151,345	288,759	24,236
Nebraska	2,142,336	1,151,981	250,642	434,949	198,307	268,083	931,306	59,049
Nevada	3,268,456	1,414,606	143,070	600,019	151,343	520,174	1,818,505	35,345
New Hampshire	2,014,350	410,882	74,277	73,429	78,753	184,423	1,567,821	35,647
New Jersey	11,019,807	2,671,220	1,290,072	543,053	507,311	330,784	8,226,697	121,890
New Mexico	3,270,536	1,626,461	483,878	571,288	148,491	422,804	1,604,488	39,587
New York	13,562,174	4,818,679	784,658	2,701,191	782,279	550,551	8,544,864	198,631
North Carolina	14,677,953	10,558,150	1,210,521	7,012,462	729,587	1,605,580	3,994,861	124,942
North Dakota	1,100,340	630,939	108,116	335,954	110,138	76,731	437,227	32,174
Ohio	10,256,353	3,834,470	1,824,865	640,496	609,867	759,242	6,249,462	172,421
Oklahoma	7,103,675	4,099,633	1,339,260	1,678,570	496,151	585,652	2,880,203	123,839
Oregon	2,695,604	1,051,047	231,630	140,868	300,719	377,830	1,545,991	98,566
Pennsylvania	16,789,144	4,210,386	1,788,532	574,034	1,011,822	835,998	12,362,728	216,030
Rhode Island	1,431,162	743,035	391,187	120,400	117,397	114,051	661,794	26,333
South Carolina	9,020,997	3,682,987	638,047	1,530,304	485,464	1,029,172	5,298,645	39,365
South Dakota	1,026,194	513,643	76,881	198,438	115,571	122,753	444,618	67,933
Tennessee	5,362,492	2,235,302	476,959	282,250	572,830	903,263	3,083,056	44,134
Texas	42,082,905	19,298,889	2,917,913	11,128,462	1,520,699	3,731,815	22,483,566	300,450
Utah	4,361,476	2,115,968	954,215	431,738	448,935	281,080	2,206,025	39,483
Vermont	828,433	261,505	44,921	64,177	92,561	59,846	549,931	16,997
Virginia	56,933,799	18,071,415	7,447,686	6,214,491	603,453	3,805,785	38,731,568	130,816
Washington	13,524,233	8,223,735	1,873,338	4,407,343	563,322	1,379,732	5,173,959	126,539
West Virginia	1,063,251	616,823	126,119	106,870	216,627	167,207	396,440	49,988
Wisconsin	8,898,053	1,151,891	160,743	222,262	470,144	298,742	7,673,970	72,192
Wyoming	566,662	405,020	69,027	177,223	70,775	87,995	140,406	21,236

1/ Prime contracts are generally reported at the location where the work is performed. Use of prime contract data is not a means of measuring the total volume of defense work performed within a state, as a substantial amount of the work may be subcontracted.

Source: U.S. Department of Defense, Defense Manpower Data Center, Directorate for Information, Operations and Reports, Statistical Information Analysis Division, *Atlas/Data Abstract for the United States and Selected Areas: Fiscal Year 2009*
<<http://siadapp.dmdc.osd.mil/personnel/L03/fy09/09top.htm>> accessed June 4, 2010.

**Table 10.09-- DEPARTMENT OF DEFENSE SUMMARY OF PERSONNEL,
PAYROLL, AND PRIME CONTRACT AWARDS: 2009**

[In persons and thousands of dollars. For fiscal year ending September 30]

Personnel or expenditure	Total	Army	Navy & Marine Corps	Air Force	Other defense activities
Total personnel 1/	68,550	33,382	24,063	10,030	1,075
Active duty military	40,874	22,435	13,642	4,797	-
Civilian	18,400	5,532	9,605	2,188	1,075
Reserve & National Guard	9,276	5,415	816	3,045	-
Total expenditures	8,800,669	4,882,236	2,590,293	938,340	389,800
Payroll outlays	6,344,467	4,057,597	1,574,230	660,608	52,032
Active duty military	4,529,364	3,325,623	799,767	403,974	-
Civilian	1,163,627	333,230	636,931	141,434	52,032
Reserve & National Guard	315,642	289,163	5,532	20,947	-
Retired military	335,834	109,581	132,000	94,253	-
Contracts 2/	2,377,271	789,207	991,132	269,204	327,728
Supply & equipment	423,610	97,095	53,807	17,381	255,327
RDT & E 3/	96,892	9,033	56,321	26,685	4,853
Service	1,398,698	560,654	569,918	200,599	67,527
Construction	458,071	122,425	311,086	24,539	21
Grants	78,931	35,432	24,931	8,528	10,040

Top ten contractors receiving the largest dollar volume of prime contract awards

Contractor name	Amount	Contractor name	Amount
Tesoro Petroleum Corporation	189,367	Hawaiian Electric Industries, Inc.	69,194
BAE Systems PLC	150,400	Science Applications International	59,148
Watts Constructors, LLC	81,080	Manu Kai, LLC	52,104
Nan. Inc.	79,026	Su-Mo Builders, Inc.	42,826
Hawaiian Dredging Construction	72,676	J & J Maintenance, Inc.	41,779

Continued on next page.

**Table 10.09-- DEPARTMENT OF DEFENSE SUMMARY OF PERSONNEL,
PAYROLL, AND PRIME CONTRACT AWARDS: 2009 -- Con.**

Major locations of expenditures	Total	Payroll outlays	Grants and contracts
Honolulu	3,577,939	3,355,323	222,616
Hickam Air Force Base	641,057	478,043	163,014
Pearl Harbor	629,944	576,290	53,654
Kaneohe	329,871	329,739	132
Schofield Barracks	326,687	182,982	143,705
Fort Shafter	230,353	182,789	47,564
Pearl Harbor NS	205,065	-	205,065
Tripler Army Medical Center	196,540	113,855	82,685
Kapolei	190,715	-	190,715
Pearl Harbor Naval Shipyard	139,325	-	139,325
Major locations of personnel 1/	Total military & civilian	Active duty military	Civilian
Honolulu	22,768	21,738	1,030
Pearl Harbor	6,700	3,854	2,846
Kaneohe	6,423	5,729	694
Hickam Air Force Base	6,369	4,262	2,107
Tripler Army Medical Center	2,043	18	2,025
Kunia	1,851	1,734	117
Schofield Barracks	1,838	591	1,247
Camp H.M. Smith	1,457	1,080	377
Fort Shafter	1,302	36	1,266
Wahiawa	796	663	133

1/ Beginning with FY 2005, afloat Navy and Marine Corps are included in personnel counts.

2/ Prime contracts are generally reported at the location where the work is performed.

Use of prime contract data is not a means of measuring the total volume of defense work performed within a state, as a substantial amount of the work may be subcontracted. Prior to FY 2005, procurement data were only reported for contract awards exceeding \$25,000. As of FY 2005, all awards are included. As of FY 2007, DOD transitioned from the Defense Contract Action Data System (DCADS) used for FY 2006 and prior contract data, to the Federal Procurement Data System - Next Generation (FPDS – NG), which was used to obtain contract data from FY07 onward. Discrete reporting of Civil Functions contracts has been discontinued because these contracts are no longer identified in FPDS – NG as a separate contract type.

3/ RDT&E Research, Development, Test, and Evaluation.

Source: U.S. Department of Defense, Defense Manpower Data Center, Directorate for Information, Operations and Reports, Statistical Information Analysis Division, *Atlas/Data Abstract for the United States and Selected Areas: Fiscal Year 2009*

<<http://siadapp.dmdc.osd.mil/personnel/L03/fy09/09top.htm>> accessed June 4, 2010.

**Table 10.10-- DEPARTMENT OF DEFENSE SUMMARY OF SPENDING,
PERSONNEL, PAYROLL, AND PRIME CONTRACT AWARDS: 2015**

[In persons and billions of dollars, unless otherwise indicated. For fiscal year ending September 30]

Spending or personnel	Total	Honolulu	Hawaii	Maui 1/	Kauai
Total spending 2/	7.8	6.8	0.1	0.1	0.1
Total defense personnel 2/	73,487	62,951	595	602	256
Value of contract awards performed	Total	Army	Navy & Marines	Air Force	Other defense
2008	2.1	(NA)	(NA)	(NA)	(NA)
2009	2.3	(NA)	(NA)	(NA)	(NA)
2010	2.4	(NA)	(NA)	(NA)	(NA)
2011	2.5	(NA)	(NA)	(NA)	(NA)
2012	2.5	(NA)	(NA)	(NA)	(NA)
2013	2.4	(NA)	(NA)	(NA)	(NA)
2014	2.0	(NA)	(NA)	(NA)	(NA)
2015	2.0	(NA)	(NA)	(NA)	(NA)
Percent of 2015 total	100	35	43	4	18
Personnel or spending	Total	Active duty	Civilian	Reserve & National Guard	
Total personnel	73,487	(NA)	(NA)	(NA)	
Percent	100	62	26	13	
Total payroll 3/	5.7	(NA)	(NA)	(NA)	
Contracts (in percent)	100	(NA)	(NA)	(NA)	
Supply & equipment (in percent)	16	(NA)	(NA)	(NA)	
Research & dev. (in percent)	3	(NA)	(NA)	(NA)	
Service (in percent)	66	(NA)	(NA)	(NA)	
Construction (in percent)	15	(NA)	(NA)	(NA)	
Contractors receiving largest value of prime contract awards (\$ million)					
Contractor name	Amount	Contractor name	Amount		
BAE Systems	168.6	J & J Worldwide Services	30.9		
Tesoro	110.2	AT&T	28.0		
Manu Kai	62.7	Hansel Phelps Construction	27.8		
Raytheon	50.9	NAN-Samsung	25.4		
Ocean House Builders	41.3	Y. Hata	25.2		

NA Not available.

1/ Includes Kalawao.

2/ Total includes personnel and spending not identified by county.

3/ Active duty payroll includes Army, Navy/Marines, Air Force. The FY2013 report included all uniformed services: Army, Navy/Marines, Air Force, Coast Guard, National Oceanic & Atmospheric Administration (NOAA) & Public Health Service.

Source: U.S. Department of Defense, Office of Economic Adjustment, "Defense Spending by State Fiscal Year 2015" <<https://www.oea.gov/defense-spending-state-fiscal-year-2015>> accessed November 30, 2016.

**Table 10.11-- MILITARY PRIME CONTRACT AWARDS, BY TYPE:
1982 TO 2009**

[Prime contracts are generally reported at the location where the work is performed.
In thousands of dollars. Fiscal years ending September 30]

Year	Total contracts 1/	Supply & equipment	RDT & E 2/	Service	Construction	Civil functions
1982	526,143	302,754	6,132	178,776	23,716	14,765
1983	638,975	299,980	9,812	266,583	38,708	23,892
1984	536,735	152,802	6,461	273,025	84,041	20,406
1985	626,153	164,785	10,697	311,800	129,602	9,269
1986	562,843	209,488	2,899	272,114	77,488	854
1987	461,449	20,608	8,722	353,911	71,020	7,188
1988	540,991	94,954	19,753	349,591	69,819	6,874
1989	578,733	61,147	16,639	402,465	90,464	8,018
1990	511,893	92,103	13,033	382,667	22,416	1,674
1991	697,127	85,019	8,448	438,969	163,462	1,229
1992	622,728	94,107	12,299	436,322	73,971	6,029
1993	631,021	87,337	14,526	450,026	71,841	7,291
1994	803,297	51,341	15,454	485,515	249,301	1,686
1995	673,641	74,468	14,634	441,001	136,734	6,804
1996	928,480	71,478	21,348	648,821	175,682	11,151
1997	957,354	87,353	24,698	607,753	228,980	8,570
1998	889,608	88,894	30,907	629,248	134,174	6,385
1999	984,849	127,356	23,762	669,912	161,327	2,492
2000	1,159,581	159,479	54,837	715,981	228,056	1,228
2001	1,307,383	166,011	60,444	770,412	307,504	3,012
2002	1,433,119	267,334	71,978	821,447	265,575	6,785
2003	1,807,956	487,571	121,356	917,498	275,269	6,262
2004	1,713,912	464,161	122,652	814,829	304,292	7,978
2005	1,990,800	620,449	143,736	971,889	253,496	1,230
2006	1,963,468	595,194	80,839	1,074,491	210,392	2,552
2007	2,158,038	379,521	104,122	1,260,315	414,080	(3/)
2008	2,258,591	437,344	67,840	1,222,919	530,488	(3/)
2009	2,377,271	423,610	96,892	1,398,698	458,071	(3/)

1/ Prime contracts are generally reported at the location where the work is performed.

Use of prime contract data is not a means of measuring the total volume of defense work performed within a state, as a substantial amount of the work may be subcontracted. For FY 1982-83 procurement contracts greater than \$10,000 were reported. For FY 1984 to 2004, only reported for awards exceeding \$25,000. As of FY 2005, all awards are included. As of FY 2007, DOD transitioned from the Defense Contract Action Data System (DCADS) used for FY 2006 and prior contract data, to the Federal Procurement Data System - Next Generation (FPDS – NG), which was used to obtain contract data from FY07 onward.

2/ RDT&E Research, Development, Test, and Evaluation.

3/ Discrete reporting of Civil Functions contracts has been discontinued because these contracts are no longer identified in FPDS – NG as a separate contract type.

Source: U.S. Department of Defense, Defense Management Data Center, Statistical Information Analysis Division, *Atlas/Data Abstract for the United States and Selected Areas: Fiscal Year* (annual) and <<http://siadapp.dmdc.osd.mil/personnel/Pubs.htm>> accessed October 6, 2010.

Table 10.12-- MILITARY CONSTRUCTION PROJECTS IN HAWAII: 2018

[For fiscal year ending September 30. Authorization amount in thousands of dollars]

Year, branch and location	Facility category title	Construction project title	Amount
TOTAL			316,076
Total DOD Budget submitted			258,576
Army			90,000
Fort Shafter	Airfield Operational Buildings	Command and Control Facility, Incr 3	90,000
Navy			158,076
Kaneohe Bay	Airfield Runways	LHD Pad Conversions MV-22 Landing Pads	19,012
Wahiawa	Communication Buildings	Communications/Crypto Facility	65,864
Joint Base Pearl Harbor-Hickam	Sewage & Industrial Waste Collection Lines	Sewer Lift Station & Relief Sewer Line	73,200
Air Force			5,500
Joint Base Pearl Harbor-Hickam	Training Buildings	Consolidated Training Facility	5,500
National Security Agency			5,000
Kunia	Electric Power Transmission & Distribution Lines	NSAH Kunia Tunnel Entrance	5,000
Total Congress-added projects			57,500
Army - Pohakuloa Training Area	(NA)	(NA)	25,000
Navy - Marine Corps Base Hawaii	(NA)	Mokapu Gate	26,500
Navy - Marine Corps Base Hawaii	(NA)	Energy resiliency projects	6,000

NA Not available.

Source: U.S. Department of Defense, Office of the Under Secretary of Defense (Comptroller) Defense Budget Materials - FY2018, Military Construction, Family Housing, and Base Realignment and Closure Program (C-1) <<http://comptroller.defense.gov/budgetmaterials/budget2018.aspx>> accessed October 19, 2017; News Release, "Trump Signs Fiscal Year 2018 Defense Authorization" (December 12, 2017) <<https://www.defense.gov/News/Article/Article/1394990/trump-signs-fiscal-year-2018-defense-authorization/>> accessed July 14, 2018; U.S. Senator Mazie Hirono, News Release "Hirono: Defense Authorization Bill Includes Provisions to Keep Hawaii Safe, Strengthen Hawaii's Economy" (November 16, 2017) <<https://www.hirono.senate.gov/news/press-releases/hirono-defense-authorization-bill-includes-provisions-to-keep-hawaii-safe-strengthen-hawaiiis-economy>> accessed July 30, 2018; Defense Acquisition University News "Fiscal Year 2018 National Defense Authorization Act (NDAA) Signed into Law" (December 18, 2017) <[https://www.dau.mil/training/career-development/logistics/blog/Fiscal-Year-2018-National-Defense-Authorization-Act-\(NDAA\)-Signed-into-Law](https://www.dau.mil/training/career-development/logistics/blog/Fiscal-Year-2018-National-Defense-Authorization-Act-(NDAA)-Signed-into-Law)> accessed July 30, 2018.

Table 10.13-- DEPARTMENT OF DEFENSE MILITARY PERSONNEL AND DEPENDENTS, BY SERVICE: 2006 TO 2015

[As of September 30]

Category	All services	Army	Navy	Marine Corps	Air Force
Military personnel 1/ 2/					
2006	34,935	18,687	6,080	5,050	5,118
2007	34,838	19,867	5,595	4,483	4,893
2008	37,847	21,554	5,320	6,306	4,667
2009	36,890	21,267	5,472	5,574	4,577
2010	38,755	22,186	5,402	6,532	4,635
2011	42,371	22,895	8,630	5,905	4,941
2012					
Total military and dependents 2/	113,317	(NA)	(NA)	(NA)	(NA)
Military personnel 1/	49,110	22,546	15,066	6,385	5,113
Family members 3/	64,207	(NA)	(NA)	(NA)	(NA)
2013					
Total military and dependents 2/	112,640	(NA)	(NA)	(NA)	(NA)
Military personnel 1/	49,023	21,718	14,647	7,371	5,287
Family members 3/	63,617	(NA)	(NA)	(NA)	(NA)
2014					
Total military and dependents 2/	115,360	(NA)	(NA)	(NA)	(NA)
Military personnel 1/	51,045	22,194	15,730	7,817	5,304
Family members 3/	64,315	(NA)	(NA)	(NA)	(NA)
2015					
Total military and dependents 2/	110,883	(NA)	(NA)	(NA)	(NA)
Military personnel 1/ 4/	46,764	17,832	16,024	7,777	5,131
Family members 3/	64,119	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Active duty. Excludes Coast Guard and personnel afloat or temporary shore-based. See elsewhere in Section 10 for personnel data which includes afloat Navy and Marine Corps.

2/ The DOD report containing number of dependents had not been released beyond FY 2005. Estimates of military dependents by other sources are available in Section 1. The DOD report containing the number of civilians had not been issued since FY2009. As of June 30, 2012 DMDC data is available for similar reporting.

3/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

4/ Confirmation of Army personnel count requested of Defense Manpower Data Center.

Source: U.S. Department of Defense, Defense Manpower Data Center, Statistical Information Analysis Division, "Active Duty Military Personnel by Service by Region/Country, Total - DOD September 30" (annual); *Worldwide Manpower Distribution by Geographical Area, September 30* (annual through 2005) <<http://siadapp.dior.whs.mil/personnel/Pubs.htm>> accessed May 31, 2006; *Distribution of Personnel by State and by Selected Locations, September 30* (annual) <<http://siadapp.dmdc.osd.mil/personnel/Pubs.htm>> accessed July 13, 2010; "Total Military Personnel and Dependent End Strength By Service, Regional Area, and Country" (annual) <<https://www.dmdc.osd.mil/appj/dwp/reports.do?category=reports&subCat=milActDutReg>> accessed November 24, 2015.

**Table 10.14-- DEPARTMENT OF DEFENSE CIVILIAN PERSONNEL,
BY SERVICE: 1990 TO 2017**

[As of September 30]

Year	All services	Army	Navy and Marine Corps			Air Force	Other defense activities
			Total	Navy	Marine Corps		
1990	19,857	5,548	11,951	(NA)	(NA)	2,244	114
1991	18,978	5,148	11,423	(NA)	(NA)	2,199	208
1992	17,893	4,933	10,886	(NA)	(NA)	1,431	643
1993	17,341	4,839	10,198	(NA)	(NA)	1,398	906
1994	17,038	4,647	9,923	(NA)	(NA)	1,371	1,097
1995	17,179	4,820	10,014	(NA)	(NA)	1,323	1,022
1996	16,824	4,936	9,564	(NA)	(NA)	1,275	1,049
1997	17,216	4,779	9,361	(NA)	(NA)	1,951	1,125
1998	16,028	4,437	9,237	(NA)	(NA)	1,269	1,085
1999	16,318	4,293	8,864	(NA)	(NA)	2,026	1,135
2000	16,723	4,471	8,999	(NA)	(NA)	2,074	1,179
2001	16,699	4,455	9,068	(NA)	(NA)	2,098	1,078
2002	16,508	4,441	8,925	(NA)	(NA)	2,075	1,067
2003	16,602	4,304	9,293	(NA)	(NA)	1,961	1,044
2004	16,576	4,302	9,230	(NA)	(NA)	1,966	1,078
2005	16,307	4,320	9,075	(NA)	(NA)	1,980	932
2006 1/	17,079	4,750	9,130	(NA)	(NA)	2,109	1,090
2007	16,403	4,662	8,922	(NA)	(NA)	2,042	777
2008 2/	16,902	4,805	9,117	8,560	557	2,007	973
2009 2/	17,828	5,212	9,472	8,829	643	2,106	1,038
2010 2/	18,908	5,701	9,938	9,209	729	2,176	1,093
2011 2/	19,198	5,766	10,555	9,865	690	1,808	1,069
2012 2/	19,244	5,723	10,650	9,990	660	1,795	1,076
2013 2/	18,265	5,347	10,112	9,434	678	1,764	1,042
2014 2/	18,057	5,139	10,100	9,417	683	1,787	1,031
2015 2/	18,487	5,104	10,336	9,680	656	1,762	1,285
2016 2/	18,733	5,126	10,568	9,932	636	1,772	1,267
2017 2/	18,739	5,137	10,682	10,071	611	1,674	1,246

NA Not available.

1/ No change in data but merely in source. The *Atlas* has been substituted for the *Distribution of Personnel by State and by Selected Locations, September 30, 2006*.

2/ The DOD reports containing the number of civilians had been discontinued. As of the reporting for September 30, 2008, Defense Manpower Data Center (DMDC) detailed APF (appropriated fund) data has been substituted which resulted in revision of the 2008 to 2015 data.

Source: U.S. Department of Defense, Defense Manpower Data Center, Statistical Information Analysis Division (formerly the Directorate for Information Operations and Reports), *Atlas/Data Abstract for the US and Selected Areas* (annual) <<http://siadapp.dmdc.osd.mil/personnel/Pubs.htm>> accessed June 4, 2010; *Worldwide Manpower Distribution by Geographical Area* (annual) <<http://siadapp.dior.whs.mil/personnel/MMIDHOME.HTM>> accessed June 22, 2006; and "Counts of Active Duty and Reserve Service Members and APF Civilians By Location Country, Personnel Category, Service and Component" (annually September 30) <https://www.dmdc.osd.mil/appj/dwp/dwp_reports.jsp> accessed January 16, 2018.

Table 10.15 -- IMPACT OF A \$1 BILLION MILITARY EXPENDITURE: 2017

[Based on inter-industry relationships in 2012. Include direct, indirect, and induced impacts.
Industries sorted for greatest output impact]

Industry sector	Output (millions of dollars)	Labor income (millions of dollars)	Jobs (number)
Total	1,702.8	936.6	11,019
Federal government	820.0	670.1	6,022
Real estate and rentals	158.9	14.2	353
Other manufacturing	119.1	7.9	118
Health services	92.9	47.1	737
Mining and construction	62.2	25.2	277
Retail trade	57.1	19.8	529
Professional services	50.9	26.9	364
Business services	47.5	28.0	669
Wholesale trade	43.7	10.6	136
Finance and insurance	43.4	11.7	217
Other services	34.1	16.5	377
Utilities	32.7	4.4	30
Eating and drinking	28.7	10.6	356
Information	24.3	6.7	82
Transportation	22.8	7.2	124
State and local government	17.6	12.2	158
Food processing	11.8	2.2	53
Accommodation	11.7	3.7	56
Educational services	10.9	6.9	158
Agriculture	6.9	2.3	101
Arts and entertainment	5.4	2.3	104

Source: Hawaii State Department of Business, Economic Development & Tourism based on Hawaii State Department of Business, Economic Development & Tourism, *2012 State Input-Output Study* (March 2016) <http://dbedt.hawaii.gov/economic/reports_studies/2012-io/> accessed June 8, 2018.

**Table 10.16-- FEDERAL EXPENDITURES FOR ARMY AND AIR
NATIONAL GUARD: 2014**

[In dollars. For fiscal year ending September 30]

Category	Army National Guard	Air National Guard
Total Federal support	192,137,376	139,086,187
Total funds allotted to U.S. Property & Fiscal Office	151,328,795	69,099,639
National Guard personnel appropriations		
Military pay, transportation, and travel	1,709,884	3,769,390
Military uniform	146,803	61,108
Subsistence	111,396	1,011,000
Oper. and maint., military constr. approp.		
Civilian pay	76,458,700	24,761,861
Transportation and travel	-	108,300
Personnel deployments	1,037,260	2,266,389
Equip., supplies & services operations & maint.		
Equipment supplies	347,100	3,243,822
Supplies	4,084,702	4,786,544
Depot level reparable	176,136	-
Aviation fuel 1/	52,369,734	1,118,060
Other operating supplies & service	1,313,830	2,340,165
Major construction	-	-
Architectural and engineering services	-	-
Minor construction/major repairs	7,330,273	-
Operations & maintenance agreements	6,242,977	25,633,000
Total funds provided by National Guard Bureau	40,808,581	69,986,547
Annual training pay	3,009,027	5,143,972
Other active duty pay	4,432,614	16,642,928
Inactive duty training pay	14,431,797	11,770,535
Basic training pay	1,184,778	557,500
Active Guard Reserve pay	17,750,365	35,871,612

1/ "Aviation fuel" for Air National Guard appears to be missing a digit, DBEDT tentatively calculated as residual. Clarification requested from DoD.

Source: Hawaii Department of Defense, *Annual Report Fiscal Year 2014*
<<http://dod.hawaii.gov/department-info/annual-reports/>> accessed June 27, 2015.

Table 10.17-- ARMY AND AIR NATIONAL GUARD STRENGTH: 1980 TO 2015

[Strength as of September 30 for 1980 through 2002 and June 30 for 2003 and beyond]

Year	Actual strength			Authorized strength		
	Total	Army National Guard	Air National Guard	Total	Army National Guard	Air National Guard
1980	5,378	3,468	1,910	6,090	4,053	2,037
1981	5,338	3,395	1,943	6,216	4,181	2,035
1982	5,720	3,698	2,022	6,238	4,201	2,037
1983	5,799	3,768	2,031	6,127	4,012	2,115
1984	5,866	3,793	2,073	6,207	3,992	2,215
1985	6,096	3,869	2,227	6,227	4,005	2,222
1986	5,882	3,685	2,197	6,250	4,016	2,234
1987	5,848	3,654	2,194	6,517	4,237	2,280
1988	5,832	3,658	2,174	6,461	4,160	2,301
1989	5,810	3,641	2,169	6,505	4,154	2,351
1990	5,702	3,579	2,123	6,469	4,237	2,232
1991	5,635	3,547	2,088	6,473	4,252	2,221
1992	5,665	3,500	2,165	6,480	4,258	2,222
1993	5,689	3,430	2,259	6,490	4,056	2,434
1994	5,689	3,430	2,259	6,490	4,056	2,434
1995	6,078	3,744	2,334	7,061	4,462	2,599
1996	5,381	2,995	2,386	6,025	3,564	2,461
1997	5,511	3,120	2,391	6,047	3,543	2,504
1998	5,475	3,053	2,422	6,047	3,543	2,504
1999	5,475	3,053	2,422	6,047	3,543	2,504
Year	Total assigned strength	Army National Guard	Air National Guard			
2000	5,415	3,010	2,405			
2001	5,383	2,978	2,405			
2002	5,334	2,914	2,420			
2003	5,233	3,009	2,224			
2004	5,233	3,009	2,224			
2005 1/	> 5,300	> 3,000	> 2,300			
2006 2/	5,300	3,000	2,300			
2007 1/	> 4,970	> 2,680	2,290			
2008 1/	> 5,000	> 2,800	> 2,200			
2009 1/	> 5,300	3/ 2,900	> 2,400			
2010 1/	> 5,500	3/ 3,000	> 2,500			
2011 1/	2/ 5,500	4/ > 3,000	> 2,500			
2012	2/ 5,500	3/ 5/ 2,900	2/ 6/ 2,500			
2013 1/	2/ 5,500	7/ > 3,000	2/ 6/ 2,500			
2014 1/	2/ 5,500	7/ > 3,000	2/ 6/ 2,500			
2015 1/	2/ 5,500	7/ > 3,000	2/ 6/ 2,500			

- 1/ Angled bracket open to left indicates 'greater than'.
- 2/ Counts approximate.
- 3/ Count reported as 'nearly' number shown.
- 4/ Authorized as of June 30, 2010.
- 5/ As of June 30, 2011.
- 6/ Authorized as of July 1.
- 7/ As of September of year indicated.

Source: Hawaii State Department of Defense, *Annual Report Fiscal Year* (annual), Ibid. *Annual Report for Fiscal Year* (2007 to 2015) <<http://dod.hawaii.gov/departments-info/annual-reports/>> accessed July 15, 2016; and records.

**Table 10.18-- CIVILIAN EMPLOYMENT IN THE FEDERAL GOVERNMENT,
DEPARTMENT OF DEFENSE, AND PEARL HARBOR NAVAL SHIPYARD:
ANNUAL AVERAGE, 1990 TO 2017**

[According to the North American Industrial Classification System (NAICS) adopted in 1997. Data are rounded to the nearest 100, except for 2001 to 2009 which are rounded to the nearest 50. Totals may not add due to rounding or residual categories]

Year	Federal government	Department of Defense	Naval Shipyard
1990	34,200	19,400	(1/)
1991	33,900	18,800	(1/)
1992	33,300	18,100	(1/)
1993	31,800	17,400	(1/)
1994	31,300	16,900	(1/)
1995	31,100	16,800	(1/)
1996	31,100	16,800	(1/)
1997	30,700	17,300	(1/)
1998	30,400	16,900	(1/)
1999	30,300	16,600	(1/)
2000	31,000	16,400	(1/)
2001	30,100	16,500	4,700
2002	30,650	16,700	4,950
2003	31,650	16,650	4,750
2004	31,450	16,600	4,250
2005	31,300	16,350	4,150
2006	31,850	16,650	4,200
2007	31,750	16,400	4,000
2008	32,200	16,550	4,100
2009	33,300	17,500	4,200
2010	34,800	18,500	4,300
2011	34,900	19,100	4,300
2012	34,900	19,100	4,500
2013 2/	33,900	18,300	4,300
2014 2/	33,200	17,900	4,500
2015 2/	33,100	18,100	4,800
2016 2/	33,200	(3/)	(3/)
2017 2/	33,400	(3/)	(3/)

1/ New series in 2001. NAICS series data are not available previously.

2/ Data were benchmarked by Hawaii Department of Labor and Industrial Relations in March 2018.

3/ Hawaii Department of Labor and Industrial Relations discontinued series.

Source: Hawaii State Department of Labor and Industrial Relations, Current Employment Statistics, Historical Jobcount by Industry - Annual "State of Hawaii Not Seasonally Adjusted Jobcount By Detailed Industry" <<http://www.hiwi.org/gsipub/index.asp?docid=421>> accessed March 9, 2018.

Table 10.19-- SELECTIVE SERVICE REGISTRATION FOR HAWAII AND THE UNITED STATES: 2011 TO 2016

[Fiscal year ending September 30 for 2011 to 2014, and beginning FY 2015 report shows calendar year]

Subject	Registrants 1/	
	Hawaii	United States 2/
FY 2011		
Entire registrant group, 18 - 25 years old, born 1986-1993	63,409	15,665,624
Draft eligible men, 20 - 25 years old, born 1986 - 1991	52,385	12,860,406
FY 2012		
Entire registrant group, 18 - 25 years old, born 1987-1994	64,018	15,825,085
Draft eligible men, 20 - 25 years old, born 1987 - 1992	53,000	12,979,918
FY 2013		
Entire registrant group, 18 - 25 years old, born 1988-1995	65,314	16,086,242
Draft eligible men, 20 - 25 years old, born 1988 - 1993	53,688	13,134,801
FY 2014		
Entire registrant group, 18 - 25 years old, born 1989-1996	65,513	16,202,005
Draft eligible men, 20 - 25 years old, born 1989 - 1994	54,240	13,234,298
CY 2014		
Entire registrant group, 18 - 25 years old, born 1989-1996	68,522	16,902,602
Draft eligible men, 20 - 25 years old, born 1989 - 1994	55,009	13,393,444
CY 2015		
On-time registration eligible men, 18 years old, born 1997	5,922	1,583,759
Entire registrant group, 18 - 25 years old, born 1990-1997	68,594	16,949,847
Draft eligible men, 20 - 25 years old, born 1990 - 1995	55,055	13,422,738
CY 2016		
On-time registration eligible men, 18 years old, born 1998	5,918	1,557,181
Entire registrant group, 18 - 25 years old, born 1991-1998	68,270	16,829,936

1/ Almost all male U.S. citizens regardless of where they live, and male immigrant aliens residing in the U.S., are required to be registered with Selective Service if they are at least 18 years old but are not yet 26 years old. They are required to register within 30 days of turning 18.

2/ Including the Dist. of Columbia, Northern Mariana Islands, Virgin Islands, Puerto Rico, Guam, and foreign.

Source: Selective Service System, *Annual Report to Congress for the Fiscal Year* (annual)
<<https://www.sss.gov/Reports/Annual-Report-to-Congress>> accessed April 19, 2018 and records.

**Table 10.20-- ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB)
INELIGIBILITY RATE, BY RACE/ETHNICITY, BY STATE: 2009**

[High school graduates who did not meet the minimum standard necessary to enlist in the U.S. Army.
As of September 30]

State 1/	Total		African-American		Hispanic		White	
	Number	%	Number	%	Number	%	Number	%
United States	348,203	22.6	64,084	38.7	40,771	29.1	201,501	16.4
Alaska	1,198	20.5	112	28.6	56	16.1	636	10.5
Alabama	8,193	28.2	3,067	44.3	99	21.2	3,825	20.4
Arkansas	5,573	27.7	1,304	47.2	147	20.4	3,436	21.2
Arizona	7,526	19.6	302	25.5	1,774	29.0	4,039	12.1
California	31,669	24.1	2,893	36.6	10,213	30.8	13,471	15.7
Colorado	4,857	17.6	375	33.1	754	28.4	3,400	12.9
Connecticut	2,911	24.0	397	41.8	523	39.2	1,785	15.2
District of Columbia	345	32.5	204	37.7	(2/)	(2/)	104	23.1
Delaware	900	26.0	303	42.2	50	32.0	446	17.3
Florida	19,734	20.9	4,711	33.7	3,775	26.6	10,022	13.0
Georgia	13,597	25.2	6,495	34.4	377	20.4	5,452	16.8
Hawaii	2,307	38.3	(2/)	(2/)	134	34.3	149	20.1
Iowa	3,967	18.6	160	33.1	108	30.6	3,446	17.3
Idaho	2,121	14.1	(2/)	(2/)	136	28.7	1,788	12.7
Illinois	11,861	24.0	2,672	41.5	1,168	29.0	7,146	16.3
Indiana	6,965	13.1	644	28.9	192	16.1	5,252	10.1
Kansas	4,099	21.1	419	41.1	207	20.8	2,931	19.0
Kentucky	5,907	24.0	648	36.6	101	25.7	4,931	22.2
Louisiana	6,079	30.9	2,371	47.0	89	23.6	2,791	21.8
Massachusetts	5,301	19.6	213	35.2	635	40.5	2,831	15.2
Maryland	5,966	26.6	1,465	36.4	235	30.6	2,710	27.0
Maine	1,656	19.0	(2/)	(2/)	(2/)	(2/)	1,539	18.4
Michigan	11,346	20.5	1,644	42.7	303	24.4	8,695	16.3
Minnesota	4,998	15.9	255	40.0	155	20.0	4,007	14.1
Missouri	8,063	21.8	976	35.6	142	21.8	5,807	18.7
Mississippi	5,138	37.8	3,011	50.1	(2/)	(2/)	1,909	20.0
Montana	1,309	18.1	(2/)	(2/)	28	14.3	1,034	13.4
North Carolina	13,473	23.4	4,824	35.7	488	20.5	6,450	15.3
North Dakota	795	16.0	(2/)	(2/)	(2/)	(2/)	649	12.3
Nebraska	2,711	14.6	175	33.7	136	30.1	2,176	11.2
New Hampshire	1,300	14.7	(2/)	(2/)	(2/)	(2/)	931	15.1
New Jersey	6,455	26.5	1,307	33.7	1,479	34.1	2,749	20.6
New Mexico	2,652	28.2	91	37.4	984	32.4	1,056	17.5
Nevada	2,503	18.6	255	36.1	415	26.7	1,523	12.9
New York	12,736	21.1	2,183	29.4	2,154	31.2	7,035	15.4
Ohio	14,830	18.0	1,931	35.1	279	23.3	11,744	15.4
Oklahoma	5,667	23.2	770	39.5	290	23.4	3,830	19.3
Oregon	3,674	18.0	73	16.4	239	29.7	2,752	15.2

Continued on next page.

**Table 10.20-- ARMED SERVICES VOCATIONAL APTITUDE BATTERY (ASVAB)
INELIGIBILITY RATE, BY RACE/ETHNICITY, BY STATE: 2009-- Con.**

State 1/	Total		African-American		Hispanic		White	
	Number	%	Number	%	Number	%	Number	%
Pennsylvania	13,146	21.6	1,729	40.2	763	38.1	9,910	17.6
Rhode Island	1,090	23.6	57	36.8	131	39.7	667	21.3
South Carolina	8,557	29.5	3,793	42.3	119	27.7	3,573	21.0
South Dakota	993	17.1	(2/)	(2/)	(2/)	(2/)	809	12.7
Tennessee	8,671	25.1	2,080	41.9	162	28.4	5,809	18.9
Texas	34,093	22.4	5,523	32.9	10,094	27.8	15,432	15.9
Utah	2,354	16.7	(2/)	(2/)	166	31.3	1,769	14.0
Virginia	11,086	25.5	4,207	38.6	479	21.7	5,452	17.0
Vermont	886	20.4	(2/)	(2/)	(2/)	(2/)	806	19.9
Washington	5,571	16.4	303	32.7	434	25.3	3,488	12.3
Wisconsin	8,060	18.9	793	46.9	331	26.9	6,443	14.6
West Virginia	2,760	20.9	121	39.7	(2/)	(2/)	2,402	20.0
Wyoming	554	13.0	(2/)	(2/)	(2/)	(2/)	464	11.2

1/ Including the District of Columbia.

2/ Number suppressed. State had fewer than 50 applicants.

Source: Education Trust, *Shut Out of the Military* (December 20, 2010)

<http://edtrust.org/wp-content/uploads/2013/10/ASVAB_4.pdf> accessed July 13, 2016.

**Table 10.21-- MILITARY PRIME CONTRACT AWARDS,
BY PROGRAM: 2005 TO 2009**

[In thousands of dollars. Fiscal years ending September 30]

Procurement program	2005	2006	2007 1/	2008 1/	2009 1/
Total	1,990,796	1,963,465	2,158,038	2,258,586	2,377,271
Aircraft engines & spares	502	5	(NA)	(NA)	(NA)
Airframes & spares	50,638	3,316	(NA)	(NA)	(NA)
All other supplies & equipment	118,208	162,089	(NA)	(NA)	(NA)
Ammunition	-	10	(NA)	(NA)	(NA)
Building supplies	38	48	(NA)	(NA)	(NA)
Combat vehicles	86	-	(NA)	(NA)	(NA)
Construction	524,526	537,211	(NA)	(NA)	(NA)
Construction equipment	194	18	(NA)	(NA)	(NA)
Containers and handling equip.	1	20	(NA)	(NA)	(NA)
Electronics & communication equip.	40,540	53,140	(NA)	(NA)	(NA)
Materials handling equipment	17	170	(NA)	(NA)	(NA)
Medical & dental supplies & equip.	289,584	68,485	(NA)	(NA)	(NA)
Missile & space systems	57,273	5,498	(NA)	(NA)	(NA)
Non-combat vehicles	168	191	(NA)	(NA)	(NA)
Other aircraft equipment	1,495	1,191	(NA)	(NA)	(NA)
Other fuels and lubricants	49	1,056	(NA)	(NA)	(NA)
Petroleum	136,343	300,615	(NA)	(NA)	(NA)
Photographic supplies & equip.	190	239	(NA)	(NA)	(NA)
Production equipment	94	467	(NA)	(NA)	(NA)
Services	627,146	708,590	(NA)	(NA)	(NA)
Ships	85,705	71,235	(NA)	(NA)	(NA)
Subsistence	48,904	40,678	(NA)	(NA)	(NA)
Textiles, clothing, & equipage	-	32	(NA)	(NA)	(NA)
Transportation equipment	7	-	(NA)	(NA)	(NA)
Weapons	9,086	9,162	(NA)	(NA)	(NA)

NA Not available.

1/ 2007 and 2008 had been revised in *Data Book 2009* reflecting a change in DoD data availability.

The 2 procurement web sites below are no longer the home for the collection, correction, and reporting of DoD procurement information. The data on those sites are static data and reflect how the data were originally collected through FY2006. All the data contained on those sites were migrated to the Federal Procurement Data System Next Generation (FPDS-NG) which is now the official web site <<https://www.fpds.gov>> for all federal procurement data and reports. USASpending.gov at <<http://www.usaspending.gov>> also contains current DoD procurement data. *Data Book* updates are based on those data/sites.

Source: U.S. Department of Defense, Defense Management Data Center, Statistical Information Analysis Division, Geographic Statistics, Prime Contract Awards by State, Awards - State & Major Procurement Program <http://siadapp.dmdc.osd.mil/procurement/historical_reports/geographic/geostat.html> accessed February 22, 2007; Procurement Statistics, Special Tabulation 25 - summary of prime contract awards (ST25) <http://siadapp.dmdc.osd.mil/procurement/historical_reports/statistics/procstat.html> accessed February 26, 2008; and *Atlas/Data Abstract for the United States and Selected Areas: Fiscal Year* (annual) <<http://siadapp.dmdc.osd.mil/personnel/Pubs.htm>> accessed June 4, 2010.

**Table 10.22-- DEPARTMENT OF DEFENSE PRIME CONTRACTS, BY
BRANCH: 1981 TO 2009**

[In thousands of dollars. For fiscal year ending September 30. Use of prime contract data is not a means of measuring the total volume of defense work performed within a state, as a substantial amount of the work may be subcontracted. Prior to FY 2001, \$25,000 was the reporting minimum, between FY 2001 and FY 2004 reporting contracts less than \$25,000 was optional, and beginning with FY 2005, all contact actions were included]

Year	Total	Army 1/	Navy & Marine Corps	Air Force	Other defense activities 2/
1981	575,776	150,902	137,565	28,328	258,981
1982	500,609	80,661	103,827	35,279	280,842
1983	638,975	117,573	187,355	36,806	297,241
1984	536,735	185,074	158,068	52,719	140,874
1985	626,153	255,236	152,782	59,939	158,196
1986	562,843	147,587	160,701	46,484	208,071
1987	461,449	147,561	230,473	61,466	21,949
1988	540,991	156,631	190,418	99,405	94,537
1989	578,733	193,210	258,693	75,489	51,341
1990	511,893	119,568	195,380	83,827	113,118
1991	697,127	218,607	250,164	158,866	69,490
1992	622,728	173,655	282,644	76,366	90,063
1993	631,021	244,275	237,579	59,948	89,219
1994	803,297	263,183	425,998	68,291	45,825
1995	673,640	227,674	308,584	84,201	53,181
1996	928,480	223,284	519,813	106,939	78,444
1997	957,353	248,629	533,037	93,845	81,841
1998	889,607	234,446	456,876	99,963	98,322
1999	984,848	231,622	569,599	92,311	91,316
2000	1,159,581	243,813	618,071	168,588	129,109
2001	1,307,383	384,619	675,946	93,020	153,798
2002	1,433,119	347,108	771,034	156,322	158,655
2003	1,807,959	395,465	713,601	253,198	445,695
2004	1,713,892	529,634	584,625	223,409	376,223
2005	1,990,796	521,085	556,978	380,830	531,903
2006	1,963,465	602,972	537,112	344,093	479,288
2007	2,158,036	661,531	922,289	297,619	276,597
2008	2,258,586	702,832	900,966	301,654	353,134
2009	2,377,271	789,207	991,132	269,204	327,728

1/ Includes U.S. Army Corps of Engineers.

2/ Includes Defense Logistics Agency (DLA) and other defense agencies (ODA).

Source: U.S. Department of Defense, Defense Management Data Center, Statistical Information Analysis Division, *Atlas/Data Abstract for the United States and Selected Areas* (annual)

<<http://siadapp.dmdc.osd.mil/personnel/Pubs.htm>> accessed June 4, 2010.

**Table 10.23-- DEPARTMENT OF DEFENSE PRIME CONTRACT AWARDS,
BY COUNTY, BY DEFENSE COMPONENT: 2007 TO 2009**

[In thousands of dollars. For fiscal year ending September 30. Use of prime contract data is not a means of measuring the total volume of defense work performed within a state, as a substantial amount of the work may be subcontracted]

Procurement program	State	Hawaii	Honolulu	Kauai	Maui
2007 1/	2,134,466	40,933	1,924,256	154,713	14,564
Army	638,504	18,294	590,210	27,206	2,795
Navy 2/	915,265	22,184	785,137	107,648	295
Air Force	296,924	10	287,565	176	9,174
Defense Logistics Agency	159,383	130	159,248	-	6
Civil functions: Corps of Eng.	22,686	283	2,383	18,772	1,248
Other defense agencies	101,705	32	99,714	912	1,047
2008 1/	2,258,586	(NA)	(NA)	(NA)	(NA)
Army	702,832	(NA)	(NA)	(NA)	(NA)
Navy 2/	900,966	(NA)	(NA)	(NA)	(NA)
Air Force	301,651	(NA)	(NA)	(NA)	(NA)
Civil functions: Corps of Eng. 3/	(NA)	(NA)	(NA)	(NA)	(NA)
Other defense activities 4/	353,134	(NA)	(NA)	(NA)	(NA)
2009 1/	2,377,271	(NA)	(NA)	(NA)	(NA)
Army	789,207	(NA)	(NA)	(NA)	(NA)
Navy 2/	991,132	(NA)	(NA)	(NA)	(NA)
Air Force	269,204	(NA)	(NA)	(NA)	(NA)
Civil functions: Corps of Eng. 3/	(NA)	(NA)	(NA)	(NA)	(NA)
Other defense activities 4/	327,728	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The 2008 and 2009 estimates are preliminary in that the source does not show procurement by county. The 2 procurement web sites below are no longer the home for the collection, correction, and reporting of DoD procurement information. The data on those sites are static data and reflect how the data were originally collected through FY2006. All the data contained on those sites were migrated to the Federal Procurement Data System Next Generation (FPDS-NG) which is now the official web site <<https://www.fpds.gov>> for all federal procurement data and reports. USASpending.gov <<http://www.usaspending.gov>> also contains current DoD procurement data. *Data Book* updates are based on those data/sites.

2/ Refers to the Department of the Navy which also includes the Marine Corps.

3/ Civil functions not available in the FPDS-NG system.

4/ Includes 'Other defense agencies' and Defense Logistics Agency.

Source: U.S. Department of Defense, Defense Manpower Data Center, Statistical Information Analysis Division, Procurement Statistics, Special Tabulation 25 - summary of prime contract awards (ST25) <http://siadapp.dmdc.osd.mil/procurement/historical_reports/statistics/procstat.html> accessed February 26, 2008; and *Atlas/Data Abstract for the United States and Selected Areas, Fiscal Year* (annual) <<http://siadapp.dmdc.osd.mil/personnel/Pubs.htm>> accessed June 4, 2010.

Table 10.24-- MILITARY SUBCONTRACTING PROGRAM: 2004 TO 2007

[In thousands of dollars and percent. Fiscal year ending September 30. Public Law 95-507, as amended, requires large business firms that have received at least one contract over \$500,000, or \$1,000,000 for construction, to establish a subcontracting program]

Procurement program	2004	2005	2006 1/	2007 1/
Hawaii number of contractors	48	41	41	46
Hawaii total contracts	196,793	204,533	319,430	226,920
Large business	73,876	87,310	119,085	90,917
Small business	122,917	117,223	200,345	136,003
Small disadvantaged business	21,583	34,370	25,850	22,352
Women-owned business	15,931	11,633	42,454	13,511
HBCU/MI 2/	133	31	208	25
HUBZone 3/	6,109	2,747	16,399	17,328
Veteran-owned	13,269	19,536	17,459	9,322
Service-disabled veteran-owned	219	282	467	646
Hawaii contracts as percent of total	100.0	100.0	100.0	100.0
Large business	37.5	42.7	37.3	40.1
Small business	62.5	57.3	62.7	59.9
Small disadvantaged business	11.0	16.8	8.1	9.9
Women-owned business	8.1	5.7	13.3	6.0
HBCU/MI 2/	0.1	(4/)	0.1	(4/)
HUBZone 3/	3.1	1.3	5.1	7.6
Veteran-owned	6.7	9.6	5.5	4.1
Service-disabled veteran-owned	0.1	0.1	0.1	0.3
United States number of contractors	1,639	1,625	1,493	1,665
United States total contracts	101,677,468	120,947,969	106,472,454	127,759,431
Large business	66,571,644	77,332,006	66,906,557	81,813,737
Small business	35,105,824	43,615,963	39,565,897	45,945,694
Small disadvantaged business	4,135,337	5,363,344	5,091,551	5,477,611
Women-owned business	4,946,268	5,956,704	5,817,559	6,889,642
HBCU/MI 2/	233,540	145,624	60,818	35,603
HUBZone 3/	1,083,164	1,434,765	1,786,961	2,202,706
Veteran-owned	2,744,357	3,447,490	3,705,866	5,158,454
Service-disabled veteran-owned	449,021	519,237	718,462	1,126,388

Continued on next page.

Table 10.24-- MILITARY SUBCONTRACTING PROGRAM: 2004 TO 2007 -- Con.

Procurement program	2004	2005	2006 1/	2007 1/
U.S. contracts as percent of total	100.0	100.0	100.0	100.0
Large business	65.5	63.9	62.8	64.0
Small business	34.5	36.1	37.2	36.0
Small disadvantaged business	4.1	4.4	4.8	4.3
Women-owned business	4.9	4.9	5.5	5.4
HBCU/MI 2/	0.2	0.1	0.1	(4/)
HUBZone 3/	1.1	1.2	1.7	1.7
Veteran-owned	2.7	2.9	3.5	4.0
Service-disabled veteran-owned	0.4	0.4	0.7	0.9

1/ The DOD webpage leading to the URL below notes that procurement web sites are no longer the home for the collection, correction, and reporting of DoD procurement information. The data on those sites are static data and reflect how the data were originally collected through FY2006. All the data contained on those sites were migrated to the Federal Procurement Data System Next Generation (FPDS-NG) which is now the official web site <<https://www.fpds.gov>> for all federal procurement data and reports. USASpending.gov at <<http://www.usaspending.gov>> also contains current DoD procurement data. FY2007 has been released but future *Data Book* updates of military subcontracting are expected to be based on the migrated data/sites.

2/ HBCU/MI Historically Black Colleges and Universities/Minority Institutions.

3/ HUBZone Historically underutilized business zone.

4/ Less than 0.1 percent.

Source: U.S. Department of Defense, Statistical Information Analysis Division, "Companies Participating in the Department of Defense Subcontracting Program"

<http://siadapp.dmdc.osd.mil/procurement/historical_reports/statistics/proctstat.html> accessed November 8, 2010 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.25-- DEPARTMENT OF DEFENSE PROCUREMENT CONTRACTS
AWARDED, BY SELECTED TYPE OF BUSINESS: 2013 TO 2017**

[In thousands of dollars unless otherwise indicated. Fiscal year ending September 30. Contracts are for Hawaii as as the 'Place of Performance' which is defined as the location where the items will be produced, manufactured, mined, or grown or where the service will be performed. Contract action is any oral or written action that results in the purchase, rent, or lease of supplies or equipment, services, or construction using appropriated dollars over the micro-purchase threshold, or modifications to these actions regardless of dollar value. See also <https://www.fpds.gov/wiki/index.php/FPDS-NG_FAQ>. Components may not add to total or subtotal as not are specifically shown. Data extracted from dynamic database may result in change in one or more items which are not indicated as revisions below]

Category 1/	2013	2014	2015	2016	2017
Total contract actions (number) 2/	16,069	17,641	30,077	24,399	54,878
Total contract actions value 2/	1,657,004	2,156,988	1,729,370	1,852,489	1,795,898
Small business 2/	841,657	1,016,145	868,501	1,066,437	887,745
Small business as share of total (%) 2/	50.8	47.1	50.2	57.6	49.4
Small disadvantaged business 2/	527,533	613,479	549,506	711,106	518,478
Women-owned business	147,425	163,369	143,392	185,519	174,457
HUBZone 3/	97,120	102,910	88,000	128,259	91,354
Veteran-owned 2/	113,753	120,904	125,291	145,073	142,045
Service-disabled veteran-owned 2/	69,836	92,904	68,577	74,306	86,640
8(a) firm 2/	415,758	398,008	311,918	369,395	349,533
Javits-Wagner-O'Day Program	22,216	21,291	19,901	24,035	23,574
HBCU 4/	-	-	-	-	-
Educational institutions	24,227	23,611	15,621	21,852	9,397
Asian Pacific	366,118	308,517	277,442	284,091	293,491
Minority institutions	-	40	-	-	-
Local government	2,381	1,653	1,120	2,200	2,412
State government	21,681	29,846	20,186	27,774	15,696
U.S. Tribal government	-	-	-	-	-
American Indian	19,181	13,733	11,487	17,304	38,193
Native American	244,355	239,327	189,189	313,387	175,940
Indian tribe 5/	11,190	7,685	5,737	6,822	29,395
Native Hawaiian-owned 2/	214,452	142,164	125,873	162,713	157,660
Tribally-owned	13,893	62,680	11,587	45,271	70,475
Alaskan Native-owned	30,716	94,751	50,026	143,964	115,887
Asian Indian	3,536	22,552	66,265	43,700	19,877
Minority-owned	699,015	682,135	627,343	682,424	552,164
Black-owned	16,696	18,807	18,402	28,216	21,235
Hispanic-owned	30,451	59,385	52,233	35,898	41,404
Non-profit organization 2/	30,809	23,867	20,717	25,076	24,678
Emerging small business	191,182	126,658	70,142	26,049	-952
Hospital	147	138	97	93	87

1/ After 2009, DOD data were migrated to the Federal Procurement Data System Next Generation (FPDS-NG) which is now the official web site <<https://www.fpds.gov>> for all federal procurement data and reports.

USASpending.gov at <<http://www.usaspending.gov>> also contains current DoD procurement data.

2/ 2016 revised from previous *Data Book*.

3/ HUBZone Historically underutilized business zone.

4/ HBCU Historically Black Colleges and Universities.

5/ Federally recognized.

Source: Federal Procurement Data System - Next Generation, Geographic Report by Place of Performance, FY 2013 to FY 2015 <<https://www.fpds.gov/fpdsng cms/index.php/en/>> accessed June 24, 2016; FY 2016 and FY 2017 <<https://www.fpds.gov/fpdsng cms/index.php/en/>> accessed March 16, 2018, and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.26-- DEPARTMENT OF DEFENSE PRIME PROCUREMENT
CONTRACTS FOR HAWAII AND THE UNITED STATES:
1998 TO 2017**

[Prime contracts are generally reported at the location where the work is performed. Use of prime contract data is not a means of measuring the total volume of defense work performed within a state, as a substantial amount of the work may be subcontracted. In thousands of dollars and number of transactions. Transactions include the initial contract award and all amendments or modifications to that award. Fiscal years ending September 30.

Note: Federal Procurement Data System (FPDS) requires a minor registration consisting of an email but anyone is invited to become a public user]

Year	Hawaii		United States 1/	
	Amount (\$1,000)	Number	Amount (\$1,000)	Number
1998	888,664	3,659	112,363,282	268,715
1999	984,270	3,818	117,592,409	279,061
2000	1,159,555	6,226	125,180,289	316,958
2001	1,307,175	6,186	137,724,643	336,704
2002	1,434,540	8,523	161,416,533	472,007
2003	1,810,699	13,021	195,894,136	593,073
2004	1,783,119	15,551	205,854,664	739,310
2005	2,008,499	55,028	239,372,513	3,251,629
2006	1,958,159	39,286	262,131,223	3,183,594
2007	2,160,199	37,277	298,898,253	3,246,996
2008	2,307,281	33,719	354,986,924	3,356,961
2009	2,383,515	33,066	331,119,808	3,241,852
2010	2,365,417	34,009	323,248,858	3,309,741
2011	2,820,646	35,659	329,439,997	13,589,009
2012	2,551,348	31,771	319,342,497	12,425,461
2013	1,657,042	16,077	268,803,841	9,336,205
2014	2,154,034	17,343	260,750,333	11,512,902
2015	1,730,459	30,097	253,322,049	11,775,750
2016	1,852,489	24,400	278,922,966	12,291,629
2017	1,795,819	54,888	299,573,776	12,670,709

1/ Includes all 50 states, the District of Columbia, and territories of American Samoa, Guam, Puerto Rico, the Virgin Islands, and the Northern Marianas, and selected contracts of the armed forces in Europe.

Source: Federal Procurement Data System, Standard Reports by Place of Performance, FY1998 to 2017
<https://www.fpds.gov/fpdsng_cms/index.php/en/> accessed July 25, 2018.

Table 10.27-- SELECTED CHARACTERISTICS OF MILITARY INSTALLATIONS, BY SITE: SEPTEMBER 30, 2014

Site	Name of nearest city	Buildings owned 1/		Buildings other than owned or leased 1/		Acreage		PRV 2/ (\$mil.)
		Number	Square feet	Number	Square feet	Total	Owned	
Hawaii total		4,871	42,044,248	6,581	27,806,502	224,897	163,467	44,815.2
Army total		1,606	15,351,905	3,224	15,269,829	189,455	141,442	13,386.2
Army active		1,564	14,622,147	3,223	15,252,325	166,257	141,254	13,014.8
Aliamanu Military Reservation	Honolulu	103	281,356	771	2,876,646	600	593	1,005.0
Dillingham Military Res	Waialua	5	4,176	-	-	664	664	35.5
Fort De Russy	Honolulu	15	796,892	-	-	73	73	207.1
Fort Shafter	Honolulu	153	1,727,558	162	519,068	589	589	890.1
Helemano Military Reservation	Wahiawa	22	318,692	216	1,556,062	293	282	675.8
Kahuku Training Area	Kahuku	22	33,603	-	-	9,480	8,330	31.7
Kawaihae Military Reserve	Waimea	1	938	-	-	11	10	14.6
Kilauea Military Reserve	Hawaii Nat'l Park	94	167,411	-	-	72	13	59.6
Kipapa Ammo Storage Site	Mililani	70	179,462	-	-	401	401	115.2
Makua Military Reserve	Waianae	4	4,873	-	-	4,195	3,413	28.2
Pohakuloa Training Area	Hilo	177	307,516	4	362	131,805	108,829	376.4
Pupukea Paalaa Uka Mil Road	Haleiwa	-	-	-	-	109	109	24.8
Schofield Barracks Mil Reservation	Wahiawa	534	7,182,136	1,692	8,946,290	15,612	15,609	6,100.4
Signal Cable Trunking System	Wahiawa	41	8,871	-	-	201	201	114.2
Tripler Army Medical Center	Honolulu	40	1,841,536	40	275,926	367	367	1,811.8
USA Field Station Kunia	Kunia	9	270,844	-	-	89	89	195.4
Waianae-Kai Military Reservation	Waianae	48	47,743	-	-	14	-	23.7
Waikalkalaua Ammo Storage Tunnels	Mililani	49	104,236	-	-	312	312	64.9
Wheeler Army Airfield	Wahiawa	177	1,344,304	338	1,077,971	1,370	1,370	1,240.4
Army National Guard		32	679,929	-	-	166	166	328.7
NG Kalaeloa	Kapolei	24	574,828	-	-	147	147	294.3
NG TS Waiawa Gulch	Pearl City	8	105,101	-	-	19	19	34.4
6 other Army sites 3/		10	49,829	1	17,504	23,033	21	42.5

Continued on next page.

**Table 10.27-- SELECTED CHARACTERISTICS OF MILITARY INSTALLATIONS, BY SITE:
SEPTEMBER 30, 2014 -- Con.**

Site	Name of nearest city	Buildings owned 1/		Buildings other than owned or leased 1/		Acreage		PRV 2/ (\$mil.)
		Number	Square feet	Number	Square feet	Total	Owned	
Air Force total		180	484,907	9	69,151	1,272	415	526.0
Air Force active		129	215,663	-	-	639	409	264.1
Bellows Air Force Station	Kailua	100	142,065	-	-	486	409	190.2
Kaena Point Satellite Tracking Station	Waianae	29	73,598	-	-	153	-	73.9
Air National Guard		4	31,016	-	-	11	-	22.9
Barking Sands Communication Station	Kekaha	4	31,016	-	-	11	-	22.9
17 other Air Force sites 3/		47	238,228	9	69,151	622	6	239.0
Marine Corps total		666	6,168,121	1,135	4,283,538	4,652	3,364	6,362.3
Marine active		666	6,168,122	1,135	4,283,538	4,450	3,177	6,360.9
Marine Corps Training Area Bellows	Waimanalo	15	116,231	-	-	1,030	28	109.3
Marine Corps Base Camp Smith	Aiea	50	896,574	9	19,010	221	219	573.9
Marine Corps Base Hawaii Kaneohe	Kaneohe	563	4,838,356	973	3,835,014	2,955	2,686	5,360.5
Marine Corps Base Manana Capehart	Pearl City	8	14,943	153	429,514	52	52	183.0
Marine Corps Base Hawaii								
Pearl City Annex	Pearl City	7	255,008	-	-	27	27	74.1
Marine Corps Base Hawaii Puuloa-Oahu	Ewa Beach	23	47,010	-	-	165	165	60.1
2 other Marine sites 3/		-	-	-	-	202	187	1.3

Continued on next page.

**Table 10.27-- SELECTED CHARACTERISTICS OF MILITARY INSTALLATIONS, BY SITE:
SEPTEMBER 30, 2014 -- Con.**

Site	Name of nearest city	Buildings owned 1/		Buildings other than owned or leased 1/		Acreage		PRV 2/ (\$mil.)
		Number	Square feet	Number	Square feet	Total	Owned	
Navy total		2,419	20,039,315	2,213	8,183,984	29,518	18,247	24,540.8
Navy active		2,397	19,977,494	2,203	8,165,560	28,184	18,117	22,216.9
Aiea	Aiea	24	38,734	160	447,225	91	78	310.9
Caretaker Site Office Barbers Point HI	Barbers Point	-	-	-	-	678	678	109.2
Ewa	Ewa Beach	221	852,415	-	-	2,323	2,308	777.2
Hickam Petroleum Storage Annex	Hickam AF Base	6	7,247	-	-	96	1	373.7
Honolulu	Pearl Harbor	175	1,698,971	1,291	5,022,285	576	573	2,903.8
Kalaeloa	Barbers Point	165	1,010,412	-	-	164	163	604.3
Kamokala Ridge	Kekaha	13	23,582	-	-	89	-	20.3
Makaha Ridge	Kokee	17	28,473	-	-	243	-	40.3
Manana Housing/Pw Area	Pearl City	1	775	49	125,391	23	23	51.4
Naval Station Pearl Harbor	Pearl Harbor	973	13,640,974	288	955,993	6,819	6,764	14,040.8
PACMISRANFAC Hawaiian Area	Kekaha	210	510,668	41	79,920	4,565	8	686.7
Pearl City	Pearl City	26	270,042	252	978,603	633	575	668.1
Wahiawa	Wahiawa	114	753,577	121	555,765	712	689	705.2
Waianae	Lualualei	429	1,100,133	1	378	9,228	4,338	805.2
Waikele	Waipahu	-	-	-	-	488	485	-
Waipahu	Waipahu	23	41,491	-	-	1,456	1,434	119.8
39 other Navy sites 3/		22	61,822	10	18,424	1,334	130	2,323.9

1/ This report also inventories leased buildings (5) and square footage (94,707).

2/ PRV or plant replacement value represents the reported cost of replacing the facility and its supporting infrastructure using today's construction cost (labor and material) and standards (methodologies and codes).

3/ United States locations must be larger than 10 acres and greater than \$10 million PRV (plant replacement value).

Source: U.S. Department of Defense, Office of the Deputy Under Secretary of Defense (Installations & Environment), *Base Structure Report Fiscal Year 2015 Baseline, (A Summary of DoD's Real Property Inventory)* <<http://www.acq.osd.mil/ie/download/bsr/CompletedBSR2015-Final.pdf>> accessed July 14, 2015; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 10.28-- MILITARY INSTALLATIONS BY COMPONENT AND SIZE FOR HAWAII AND THE UNITED STATES: SEPTEMBER 30, 2016

[Installations by component and size data are not available for FY2015]

Location and component	Total	Large 1/	Medium 2/	Small 3/	Other 4/
Hawaii	142	5	5	84	48
Army	28	2	3	22	1
Navy	84	2	2	35	45
Air Force	21	-	-	20	1
Marine Corps	9	1	-	7	1
United States	4,165	120	88	3,268	689
Army	1,588	44	26	1,205	313
Navy	787	25	26	575	161
Air Force	1,528	42	31	1,297	158
Marine Corps	172	8	5	102	57
Washington Headquarters Service	90	1	-	89	-
Hawaii as percent of the U.S.	3.4	4.2	5.7	2.6	7.0
Army	1.8	4.5	11.5	1.8	0.3
Navy	10.7	8.0	7.7	6.1	28.0
Air Force	1.4	0.0	0.0	1.5	0.6
Marine Corps	5.2	12.5	0.0	6.9	1.8

1/ A large installation has a total plant replacement value (PRV) greater than or equal to \$1.904 billion.

2/ A medium installation has a total plant replacement value (PRV) less than \$1.904 billion and greater than or equal to \$1.015 billion.

3/ A small installation has a total plant replacement value (PRV) less than \$1.015 billion and greater than 0.

4/ Other installation has a total plant replacement value (PRV) equal to zero - primarily land records.

Source: U.S. Department of Defense, Office of the Deputy Under Secretary of Defense (Installations & Environment), *Base Structure Report (A Summary of DoD's Real Property Inventory), Fiscal Year 2017 Baseline*, pp. DOD-20 to DOD-29

<<https://www.acq.osd.mil/eie/Downloads/BSI/Base%20Structure%20Report%20FY17.pdf>> accessed April 22, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.29-- HOUSING UNITS IN SELECTED MILITARY AREA
CENSUS-DESIGNATED PLACES: 2012-2016**

[Average over the period]

Geographic area	Total housing units	Occupied housing units		
		Total	Owner	Renter
State total	530,289	452,030	259,854	192,176
Ahuimanu CDP	2,792	2,744	2,170	574
Hickam Housing CDP	2,704	2,477	7	2,470
Iroquois Point CDP	1,206	1,147	-	1,147
Kaneohe Station CDP	2,616	2,527	10	2,517
Schofield Barracks CDP	4,577	4,235	6	4,229
Wheeler AFB CDP	932	860	13	847

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates "DP04: Selected Housing Characteristics" for State of Hawaii and selected Census Designated Places
<<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 23, 2018.

**Table 10.30-- MILITARY HOUSING PRIVATIZATION INITIATIVE PROJECTS:
AUGUST 2008**

[The MHPI is a 50-year public-private partnership as authorized under the National Defense Defense Act for Fiscal Year 1996 to facilitate upgrade and maintenance of the inventory of military housing units]

Component and location	Total	New homes	Renovated homes
Total dwelling units	14,958	9,562	5,396
Army	7,945	5,388	2,557
Schofield Barracks	4,066	2,916	1,150
Aliamanu/Red Hill	1,717	1,691	26
Wheeler Army/Air Field	669	262	407
Fort Shafter	362	276	86
Helemano	946	58	888
Tripler Army Medical Center	185	185	-
Air Force	2,474	1,142	1,332
Hickam Air Force Base	2,474	1,142	1,332
Navy/Marine	4,539	3,032	1,507
Pearl Harbor, Camp Smith, Manana	2,654	1,740	914
Wahiawa	229	174	55
Marine Corps Base Hawaii	1,656	1,118	538

Source: *Honolulu Advertiser* "Military housing boom offsets slow civilian sector", August 31, 2008
<<http://the.honoluluadvertiser.com/article/2008/Aug/31/bz/hawaii808310344.html>> accessed September 2, 2008.

Table 10.31-- MILITARY MONTHLY BASIC ALLOWANCES FOR HOUSING RATES, BY COUNTY: 2018

[In dollars. Rates take effect January 1. The Basic Allowance for Housing (BAH) is based on geographic duty location, pay grade, and dependency status. The intent of BAH is to provide uniformed service members with permanent duty within the 50 United States accurate and equitable housing compensation based on housing costs, including median current market rent, and average utilities (including electricity, heat, and water/sewer) in local civilian housing markets, and is payable when government quarters are not provided. Total housing costs are calculated for housing profiles based on dwelling type and number of bedrooms, in each military housing area. BAH rates are then calculated for each pay grade, with and without dependents]

Code 1/	With dependents				Without dependents			
	Maui County	Honolulu County	Hawaii County	Kauai County	Maui County	Honolulu County	Hawaii County	Kauai County
E01	2,208	2,532	1,938	1,929	1,656	1,992	1,455	1,587
E02	2,208	2,532	1,938	1,929	1,656	1,992	1,455	1,587
E03	2,208	2,532	1,938	1,929	1,656	1,992	1,455	1,587
E04	2,208	2,532	1,938	1,929	1,656	1,992	1,455	1,587
E05	2,274	2,745	2,007	2,052	1,971	2,202	1,653	1,725
E06	3,072	3,015	2,310	2,457	2,304	2,343	1,875	1,842
E07	3,129	3,144	2,376	2,562	2,346	2,541	1,941	1,935
E08	3,183	3,282	2,442	2,673	2,433	2,799	2,070	2,133
E09	3,285	3,468	2,493	2,814	2,679	2,880	2,160	2,256
W01	3,087	3,027	2,322	2,469	2,316	2,460	1,923	1,893
W02	3,153	3,204	2,406	2,610	2,427	2,796	2,067	2,130
W03	3,222	3,375	2,490	2,745	2,706	2,892	2,172	2,271
W04	3,309	3,504	2,496	2,841	3,087	3,045	2,325	2,481
W05	3,408	3,654	2,505	2,952	3,132	3,168	2,382	2,580
O01E	3,138	3,171	2,388	2,583	2,355	2,745	2,007	2,052
O02E	3,207	3,345	2,472	2,721	2,628	2,862	2,139	2,232
O03E	3,321	3,525	2,499	2,856	3,069	3,009	2,304	2,451
O01	2,367	2,778	2,043	2,100	2,136	2,316	1,869	1,803
O02	3,063	3,012	2,307	2,454	2,349	2,673	1,986	2,013
O03	3,219	3,366	2,484	2,739	2,784	2,916	2,199	2,310
O04	3,444	3,711	2,508	2,991	3,126	3,150	2,373	2,565
O05	3,606	3,954	2,517	3,168	3,156	3,228	2,409	2,628
O06	3,639	3,993	2,541	3,198	3,207	3,360	2,475	2,730
O07	3,672	4,026	2,562	3,225	3,279	3,435	2,532	2,793

1/ E indicates enlisted; W, warrant officer; OE, commissioned officer with more than 4 years active duty service as an enlisted member or Warrant Officer; and O, officer. The number indicates the grade. The higher number the higher the rank.

Source: U.S. Department of Defense, Defense Travel Management Office, Basic Allowance for Housing, BAH Rates for All Locations

<<https://www.defensetravel.dod.mil/site/pdcFiles.cfm?dir=/Allowances/BAH/>> accessed December 15, 2017.

**Table 10.32-- VETERAN STATUS OF CIVILIANS 17 YEARS AND OVER:
2000 AND 2010 TO 2016**

[As of April 1 for 2000 and thereafter, July 1 for civilian population and September 30 for veteran population. Civilian population 17 and over unless otherwise noted. Veteran and nonveteran population rounded to the nearest 1,000]

Veteran status	2000 1/	2010	2011	2012	2013	2014	2015	2016
Civilian population	889,005	1,037,987	1,049,697	1,058,589	1,067,962	1,076,393	1,083,585	1,088,494
Male	427,316	502,825	508,869	512,670	516,800	520,964	524,817	527,380
Female	461,689	535,162	540,828	545,919	551,162	555,429	558,768	561,114
Veterans	121,000	117,000	117,000	117,000	121,000	121,000	120,000	120,000
Male veterans	111,000	103,000	103,000	103,000	108,000	108,000	108,000	107,000
Female veterans	9,000	14,000	14,000	14,000	13,000	13,000	13,000	13,000
War veterans 2/	92,000	91,000	92,000	93,000	96,000	97,000	97,000	97,000
Persian Gulf War 3/	18,000	41,000	45,000	48,000	48,000	51,000	54,000	56,000
Vietnam era	42,000	36,000	35,000	34,000	39,000	38,000	37,000	36,000
Korean conflict	18,000	12,000	11,000	10,000	8,000	7,000	7,000	6,000
World War II	23,000	8,000	6,000	5,000	6,000	5,000	4,000	4,000
World War I	(4/)	-	-	-	-	-	-	-
Peacetime only	29,000	26,000	24,000	24,000	25,000	24,000	24,000	23,000
Nonveterans	768,000	921,000	933,000	942,000	947,000	955,000	964,000	968,000

Continued on next page.

**Table 10.32-- VETERAN STATUS OF CIVILIANS 17 YEARS AND OVER:
2000 AND 2010 TO 2016 -- Con.**

- 1/ April 1 estimates base civilian 18 years and over.
- 2/ Detail adds to more than subtotal because some veterans served in more than one war.
- 3/ Service from August 2, 1990 to the present.
- 4/ Fewer than 100.

Source: U.S. Census Bureau, Population Division, "Annual Estimates of the Civilian Population by Single Year of Age and Sex for the United States and States: April 1, 2010 to July 1, 2016" (June 2017)
<<https://www2.census.gov/programs-surveys/popest/datasets/2010-2016/state/asrh/sc-est2016-agesex-civ.csv>> accessed June 22, 2017; U.S. Department of Veterans Affairs, Census 2000 Veteran Data, Sex by Age by Armed Forces Status by Veteran Status for the Population 18 Years and Over <<http://www1.va.gov/vetdata/docs/agesexdata.xls>> accessed March 13, 2009; "VetPop2007 State Tables, Period of Service, Table 2L: Veterans by State, Period, Age Group, Gender, 2000-2036" <<http://www1.va.gov/VETDATA/Demographics/Demographics.asp>> accessed July 13, 2012; "Veteran Population Projection Model 2011 (VetPop2011) for 2011 to 2040" <http://www.va.gov/VETDATA/docs/Demographics/New_Vetpop_Model/7IVetPop11_POS_State.xlsx> accessed June 27, 2014; "Veteran Population Projection Model 2014 (VetPop2014), Table 7L: Vetpop2014 Living Veterans, by State, Period of Service, Gender, 2013-2043" <http://www1.va.gov/vetdata/docs/Demographics/New_Vetpop_Model/7L_VetPop2014.xlsx> accessed March 28, 2017; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 10.33-- ARMED FORCES STATUS, BY VETERAN STATUS, BY SEX AND AGE FOR THE POPULATION 18 YEARS AND OVER: 2016

Characteristic	Hawaii	United States	Hawaii as percent of U.S.
Total	1,428,557	323,127,515	0.4
18 years and over	1,120,792	249,489,772	0.4
In Armed Forces 1/	38,327	1,011,121	3.8
Civilian	1,082,465	248,478,651	0.4
Veteran	104,719	18,496,937	0.6
Nonveteran	977,746	229,981,714	0.4
18 to 64 years	877,251	200,274,607	0.4
In Armed Forces 1/	38,327	1,011,121	3.8
Civilian	838,924	199,263,486	0.4
Veteran	59,724	9,268,774	0.6
Nonveteran	779,200	189,994,712	0.4
65 years and over	243,541	49,215,165	0.5
In Armed Forces 1/	-	-	(X)
Civilian	243,541	49,215,165	0.5
Veteran	44,995	9,228,163	0.5
Nonveteran	198,546	39,987,002	0.5
Male	718,057	159,061,631	0.5
18 years and over	559,533	121,383,148	0.5
In Armed Forces 1/	33,604	870,079	3.9
Civilian	525,929	120,513,069	0.4
Veteran	94,979	16,898,924	0.6
Nonveteran	430,950	103,614,145	0.4
18 to 64 years	449,495	99,622,710	0.5
In Armed Forces 1/	33,604	870,079	3.9
Civilian	415,891	98,752,631	0.4
Veteran	51,667	7,963,616	0.6
Nonveteran	364,224	90,789,015	0.4
65 years and over	110,038	21,760,438	0.5
In Armed Forces 1/	-	-	(X)
Civilian	110,038	21,760,438	0.5
Veteran	43,312	8,935,308	0.5
Nonveteran	66,726	12,825,130	0.5

Continued on next page.

Table 10.33-- ARMED FORCES STATUS, BY VETERAN STATUS, BY SEX AND AGE FOR THE POPULATION 18 YEARS AND OVER: 2016 -- Con.

Characteristic	Hawaii	United States	Hawaii as percent of U.S.
Female	710,500	164,065,884	0.4
18 years and over	561,259	128,106,624	0.4
In Armed Forces 1/	4,723	141,042	3.3
Civilian	556,536	127,965,582	0.4
Veteran	9,740	1,598,013	0.6
Nonveteran	546,796	126,367,569	0.4
18 to 64 years	427,756	100,651,897	0.4
In Armed Forces 1/	4,723	141,042	3.3
Civilian	423,033	100,510,855	0.4
Veteran	8,057	1,305,158	0.6
Nonveteran	414,976	99,205,697	0.4
65 years and over	133,503	27,454,727	0.5
In Armed Forces 1/	-	-	(X)
Civilian	133,503	27,454,727	0.5
Veteran	1,683	292,855	0.6
Nonveteran	131,820	27,161,872	0.5

X Not applicable.

1/ Calculated as 'Total' less 'Civilian'.

Source: U.S. Census Bureau, 2016 American Community Survey (ACS) 1-Year Estimates for the United States and Hawaii "B21001: Sex By Age By Veteran Status for the Civilian Population 18 Years and Over - Universe: Civilian population 18 years and over" and "DP05 ACS 2016 1-Year Estimates for the Demographic and Housing Estimates" <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed January 16, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.34-- DISTRIBUTION OF VETERANS AFFAIRS POPULATION
AND EXPENDITURES, BY COUNTY: 2016 AND 2017**

[In number of persons and thousands of dollars. Fiscal year ending September 30]

Subject	State	Hawaii	Honolulu	Kalawao	Kauai	Maui
2016						
Veteran population 1/	112,944	15,647	83,746	4	4,489	9,058
Unique patients 2/	27,537	4,493	19,145	(3/)	(3/)	2,434
Total expenditure	986,114	118,859	758,509	2	36,626	72,119
Compensation & pension 4/	438,961	62,850	321,525	-	16,722	37,863
Educ. & vocational rehab/emp.	206,428	4,822	197,292	-	1,249	3,065
Medical care 5/	300,816	50,299	201,797	2	18,316	30,403
Insurance & indemnities	12,161	888	10,146	-	338	789
Construction	11,580	-	11,580	-	-	-
General operating expenses	16,168	-	16,168	-	-	-
2017						
Veteran population 1/	112,304	15,351	83,651	4	4,403	8,896
Unique patients 2/	27,437	4,516	19,010	(3/)	(3/)	2,417
Total expenditure	1,013,846	125,577	773,903	3	38,892	75,473
Compensation & pension 4/	439,159	62,508	322,380	-	16,522	37,748
Educ. & vocational rehab/emp.	193,663	5,245	184,139	-	1,254	3,025
Medical care 5/	335,741	56,815	224,394	3	20,756	33,773
Insurance & indemnities	14,677	1,008	12,384	-	359	926
Construction	14,146	-	14,146	-	-	-
General operating expenses	16,460	-	16,460	-	-	-

1/ Veteran population estimated as of September 30. Source obtained data from Office of the Actuary, Department of Veterans Affairs.

2/ Patients who received treatment at a VA health care facility.

3/ Fewer than ten or suppresses the next smallest value to prevent imputing any counties with a value less than ten.

4/ Includes expenditures for veterans' compensation for service-connected disability; dependency and indemnity compensation for service-connected deaths; veterans' pension for nonservice-connected disabilities; and for burial and other benefits to veterans and their survivors.

5/ Includes medical services, medical administration, facility maintenance, educational support, research support, and other overhead items. 'Medical care' does not include construction or other non-medical support expenditures. Beginning in 2008, the new medical care figures were based on where patients live instead of where care was delivered.

Source: U.S. Department of Veteran Affairs, National Center for Veterans Analysis and Statistics, Expenditures, "Geographic Distribution of VA Expenditures (GDX)" (annual)
<<http://www.va.gov/vetdata/Expenditures.asp>> accessed June 26, 2018.

Table 10.35-- MILITARY RETIREMENT SYSTEM: 2017

[As of September 30]

Category	Number of personnel		Monthly payment 2/ (\$1,000)	Average payment per person paid (dollars)
	Retired 1/	Paid by DOD		
Department of Defense	17,935	16,808	41,219	2,452
By branch of service				
Army	6,894	6,296	14,906	2,368
Navy	5,013	4,791	12,298	2,567
Marine Corps	1,136	1,033	3,050	2,953
Air Force	4,892	4,688	10,965	2,339
By rank				
Officers	5,197	5,143	20,015	3,892
Nondisabled and reserve	4,988	4,978	19,609	3,939
Disabled	209	165	406	2,461
Enlisted	12,738	11,665	21,204	1,818
Nondisabled and reserve	11,272	11,040	20,598	1,866
Disabled	1,466	625	606	970
Department of Defense, over 65	8,354	7,932	18,512	2,334
By branch of service				
Army	3,388	3,216	7,027	2,185
Navy	1,930	1,826	4,853	2,658
Marine Corps	408	375	1,133	3,021
Air Force	2,628	2,515	5,499	2,186
By rank				
Officers	2,868	2,845	10,111	3,554
Nondisabled and reserve	2,796	2,786	9,924	3,562
Disabled	72	59	187	3,169
Enlisted	5,486	5,087	8,400	1,651
Nondisabled and reserve	5,158	4,937	8,222	1,665
Disabled	328	150	178	1,187

Continued on next page.

Table 10.35-- MILITARY RETIREMENT SYSTEM: 2017 -- Con.

Category	Number retired	Monthly payment 2/ (\$1,000)	Average payment per person paid (dollars)
Department of Defense, concurrent receipt	5,426	8,539	1,574
Concurrent Retirement & Disability Pay (CRDP)	4,817	7,886	1,637
Nondisabled	4,396	7,243	1,648
Disabled	164	336	2,049
Reserve	257	307	1,195
Combat Related Special Compension (CRSC)	609	653	1,072
Nondisabled	310	451	1,455
Disabled	223	148	664
Reserve	76	54	711
Military survivors, by branch of servicemember			
Receiving pay 3/	2,371	2,456	1,036
Army	1,222	1,153	944
Navy	459	534	1,163
Marine Corps	131	177	1,351
Air Force	559	591	1,057
Over 65 receiving pay 3/	2,055	2,148	1,045
Army	1,094	1,032	943
Navy	377	445	1,180
Marine Corps	103	148	1,437
Air Force	481	523	1,087

1/ Number retired includes all living retirees, including some whose net pay is \$0. Number paid by DoD includes only those whose net pay by this definition is greater than \$0. Net pay is the pay after deductions for survivor premiums and benefits offset by a VA award. It is the pay before any deductions for withholding taxes and allotments.

2/ The monthly amount of payment (net pay) is before deductions for withholding taxes and allotments, but after deductions for survivor benefits, waivers to obtain benefits from the Veterans Administration.

3/ Under the Retired Servicemen's Family Protection Plan (RSFPP) or the Survivor Benefit Plan. Families of deceased members enrolled in both plans are counted only once. Children of the same deceased member receiving separate benefits are counted individually.

Source: U.S. Department of Defense, Office of the Actuary, *Fiscal Year 2017 DOD Statistical Report on the Military Retirement System* (July 2018) pp. 24-27 and 197-198 <<http://actuary.defense.gov/>> accessed July 30, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Section 11

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on disability, foundations, and the quality of life. Related data are cited in Sections 9 and 13.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Human Services, the Hawaii State Department of Labor and Industrial Relations, and the Hawaii State Employees' Retirement System. *Historical Statistics of Hawaii*, Section 8, contains data for earlier years. Section 11 of the *Statistical Abstract of the United States: 2012* presents comparable national data.

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**Table 11.01-- TEMPORARY ASSISTANCE TO NEEDY FAMILIES,
AVERAGE MONTHLY, BY ISLAND: 2012 TO 2017**

[Fiscal year ending June 30. AFDC became Temporary Assistance to Needy Families (TANF) effective FY 1998]

Category	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
2012								
Cases	7,926	4,369	2,283	342	932	(NA)	729	203
Recipients	21,966	11,927	6,528	890	2,621	(NA)	1,999	622
Expenditures 1/	4,419	2,456	1,299	170	494	(NA)	374	120
2013								
Cases	7,959	4,401	2,282	339	937	(NA)	723	214
Recipients	22,053	11,972	6,516	925	2,640	(NA)	1,974	666
Expenditures 1/	4,432	2,451	1,306	178	497	(NA)	371	126
2014								
Cases	7,283	3,989	2,167	308	819	(NA)	620	199
Recipients	20,054	10,834	6,129	802	2,289	(NA)	1,661	628
Expenditures 1/	4,080	2,228	1,245	164	443	(NA)	326	117
2015								
Cases	6,639	3,657	1,995	282	705	(NA)	530	175
Recipients	18,232	9,883	5,635	739	1,975	(NA)	1,414	561
Expenditures 1/	3,744	2,052	1,156	150	386	(NA)	284	102
2016								
Cases	5,762	3,186	1,708	264	604	(NA)	452	152
Recipients	15,640	8,601	4,704	673	1,662	(NA)	1,171	491
Expenditures 1/	3,267	1,800	994	137	336	(NA)	243	93
2017								
Cases	4,860	2,686	1,425	229	520	(NA)	390	130
Recipients	12,942	7,154	3,832	573	1,383	(NA)	993	390
Expenditures 1/	2,813	1,558	843	120	292	(NA)	216	77

NA Not available.

1/ Thousands of dollars.

Source: Hawaii State Department of Human Services, *A Statistical Report on Welfare in Hawaii* (annual) and records.

**Table 11.02-- TEMPORARY ASSISTANCE TO OTHER NEEDY FAMILIES,
AVERAGE MONTHLY, BY ISLAND: 2012 TO 2017**

[Fiscal year ending June 30. AFDC-UP became Temporary Assistance to Other Needy Families (TAONF) effective FY 1998. General Assistance (Family) was also added to TAONF]

Category	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
2012								
Cases	1,885	1,267	411	41	166	(NA)	144	22
Recipients	6,644	4,352	1,518	142	632	(NA)	548	84
Expenditures 1/	966	644	223	19	80	(NA)	69	11
2013								
Cases	1,870	1,299	376	33	162	(NA)	142	20
Recipients	6,544	4,453	1,378	108	605	(NA)	531	74
Expenditures 1/	946	653	201	17	75	(NA)	66	9
2014								
Cases	1,644	1,167	338	32	107	(NA)	92	15
Recipients	5,640	3,923	1,229	108	380	(NA)	318	62
Expenditures 1/	824	573	186	16	49	(NA)	42	7
2015								
Cases	1,463	1,069	288	38	68	(NA)	58	10
Recipients	4,991	3,629	997	133	232	(NA)	195	37
Expenditures 1/	722	517	154	19	32	(NA)	27	5
2016								
Cases	1,157	877	195	28	57	(NA)	50	7
Recipients	3,889	2,956	644	95	194	(NA)	166	28
Expenditures 1/	568	426	100	14	28	(NA)	25	3
2017								
Cases	890	653	158	25	54	(NA)	48	6
Recipients	2,906	2,139	514	82	171	(NA)	152	19
Expenditures 1/	443	320	83	13	27	(NA)	24	3

NA Not available.

1/ Thousands of dollars.

Source: Hawaii State Department of Human Services, *A Statistical Report on Welfare in Hawaii* (annual) and records.

Table 11.03-- AVERAGE MONTHLY CASES SERVED BY THE FOOD STAMP PROGRAM, BY ISLAND: 1983 TO 2017

[Fiscal year ending June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
1983	38,549	26,438	7,040	2,050	3,021	70	2,407	544
1984	37,767	25,393	7,252	1,943	3,179	62	2,484	633
1985	37,282	24,873	7,330	1,980	3,099	64	2,352	683
1986	35,652	23,356	7,520	1,894	2,882	65	2,130	687
1987	33,424	21,908	7,244	1,717	2,555	50	1,839	666
1988	31,388	20,844	6,819	1,474	2,251	40	1,582	629
1989	31,809	21,233	6,916	1,410	2,250	29	1,633	588
1990	32,285	21,705	6,891	1,450	2,239	27	1,629	583
1991	33,558	22,649	7,097	1,545	2,267	29	1,686	552
1992	37,295	24,867	8,012	1,778	2,638	33	1,961	644
1993	42,175	27,789	9,165	2,016	3,205	49	2,454	702
1994	48,142	31,735	10,449	2,264	3,694	48	2,969	677
1995	53,855	35,407	11,578	2,660	4,210	48	3,472	690
1996	58,028	38,107	12,364	2,955	4,602	50	3,872	680
1997	57,905	38,122	12,185	3,054	4,544	53	3,804	687
1998	54,264	35,057	11,926	2,983	4,298	53	3,519	726
1999	55,837	36,623	11,897	3,030	4,287	58	3,548	681
2000	54,992	36,556	11,508	2,875	4,053	49	3,356	648
2001	51,592	34,486	10,842	2,583	3,681	51	2,995	635
2002	50,967	33,854	10,768	2,674	3,671	30	3,003	638
2003	(NA)	33,392	10,648	2,591	(NA)	(NA)	3,256	661
2004	48,568	31,781	10,538	2,477	3,772	52	3,123	597
2005	47,794	31,530	10,268	2,296	3,700	54	3,082	564
2006	45,400	30,288	9,533	2,159	3,420	56	2,832	532
2007	45,028	29,846	9,576	2,078	3,528	59	2,920	549
2008	47,546	30,868	10,562	2,148	3,968	71	3,313	584
2009	54,925	34,341	12,921	2,712	4,951	93	4,182	676
2010	66,885	40,247	16,238	3,701	6,699	122	5,766	811
2011	77,133	45,016	19,462	4,487	8,168	161	7,047	960
2012	86,418	49,572	21,899	5,084	9,863	173	8,638	1,052
2013	94,672	53,807	23,921	5,188	11,756	175	10,448	1,133
2014	98,440	55,840	25,268	5,190	12,142	181	10,805	1,156
2015	96,502	54,817	24,734	4,987	11,964	177	10,629	1,158
2016	90,241	50,564	24,024	4,747	10,906	165	9,541	1,200
2017	86,631	48,610	23,273	4,488	10,260	175	8,925	1,160

NA Not available.

Source: Hawaii State Department of Human Services, *A Statistical Report on Welfare in Hawaii* (annual) and records.

**Table 11.04-- AVERAGE MONTHLY NUMBER OF INDIVIDUALS SERVED
BY THE FOOD STAMP PROGRAM, BY ISLAND: 1983 TO 2017**

[Fiscal year ending June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
1983	101,118	71,574	17,474	4,752	7,318	157	5,595	1,566
1984	99,818	69,251	18,145	4,672	7,750	128	5,753	1,869
1985	99,395	68,145	18,539	4,942	7,769	140	5,604	2,025
1986	93,863	62,714	19,131	4,766	7,252	137	5,032	2,083
1987	87,070	57,935	18,456	4,217	6,462	91	4,317	2,054
1988	80,823	54,244	17,357	3,492	5,730	66	3,729	1,935
1989	80,284	53,964	17,444	3,282	5,594	38	3,793	1,763
1990	79,496	53,543	17,226	3,232	5,495	42	3,698	1,755
1991	81,345	54,927	17,466	3,472	5,480	62	3,776	1,642
1992	89,465	59,547	19,482	4,111	6,325	78	4,357	1,890
1993	99,571	65,177	22,044	4,625	7,725	127	5,547	2,051
1994	111,409	72,911	24,603	5,194	8,701	131	6,567	2,003
1995	122,121	79,571	26,781	6,061	9,708	125	7,540	2,043
1996	129,430	83,960	28,298	6,739	10,433	110	8,340	1,983
1997	129,138	84,049	27,757	6,973	10,359	119	8,265	1,975
1998	122,215	78,032	27,081	6,911	10,191	124	7,958	2,109
1999	124,417	80,621	26,710	6,941	10,145	133	8,069	1,943
2000	120,467	79,622	25,177	6,330	9,338	106	7,424	1,808
2001	110,371	73,429	23,230	5,563	8,149	100	6,303	1,746
2002	106,748	70,826	22,348	5,664	7,910	58	6,143	1,709
2003	(NA)	69,101	21,634	5,392	(NA)	(NA)	6,583	1,723
2004	99,128	65,014	21,145	5,029	7,940	96	6,263	1,581
2005	95,033	62,500	20,287	4,550	7,696	101	6,110	1,485
2006	88,968	58,923	18,894	4,217	6,934	112	5,461	1,361
2007	88,848	58,251	19,349	4,131	7,117	110	5,630	1,377
2008	93,956	60,135	21,378	4,205	8,058	134	6,468	1,456
2009	109,268	67,597	26,222	5,347	10,102	203	8,268	1,631
2010	133,043	80,002	32,289	7,207	13,545	260	11,395	1,890
2011	154,496	90,602	38,692	8,697	16,505	339	14,047	2,119
2012	172,675	99,836	43,279	9,844	19,716	358	17,031	2,327
2013	187,062	107,668	46,392	9,980	23,022	356	20,136	2,530
2014	193,565	111,483	48,479	9,961	23,642	376	20,703	2,563
2015	191,918	109,992	49,059	9,577	23,290	368	20,370	2,552
2016	179,138	102,263	46,134	9,314	21,427	360	18,439	2,628
2017	170,850	97,328	44,756	8,763	20,003	363	17,124	2,516

NA Not available.

Source: Hawaii State Department of Human Services, *A Statistical Report on Welfare in Hawaii* (annual) and records.

Table 11.05-- ANNUAL BENEFITS OF THE FOOD STAMP PROGRAM, BY ISLAND: 1993 TO 2017

[In dollars. Fiscal year ending June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
1993	126,788,607	82,450,018	28,538,846	5,824,432	9,975,311	146,194	7,400,324	2,428,793
1994	147,149,411	95,823,731	32,943,774	6,739,307	11,642,599	154,603	9,055,336	2,432,660
1995	171,641,900	111,603,705	37,840,508	8,411,516	13,786,171	155,076	10,998,797	2,632,298
1996	191,796,701	123,903,621	42,338,840	9,872,685	15,681,555	153,647	12,831,574	2,696,334
1997	193,487,005	125,414,180	42,071,872	10,367,997	15,632,956	171,979	12,749,822	2,711,155
1998	179,727,944	114,359,271	40,461,179	10,057,307	14,850,187	167,244	11,845,597	2,837,346
1999	178,991,763	115,489,788	39,208,297	9,841,805	14,451,873	173,891	11,697,878	2,580,104
2000	170,853,433	112,594,795	36,414,365	8,843,294	13,000,979	137,714	10,493,178	2,370,087
2001	153,082,202	101,678,549	32,812,572	7,577,344	11,013,737	124,481	8,640,495	2,248,761
2002	150,829,817	99,686,498	32,276,917	7,889,448	10,976,954	75,379	8,612,864	2,288,711
2003	(NA)	101,273,319	32,790,493	8,020,735	(NA)	(NA)	9,711,591	2,420,644
2004	153,362,400	100,264,401	33,130,628	7,611,329	12,356,042	139,841	9,868,558	2,347,643
2005	155,816,670	102,596,550	33,429,264	7,256,262	12,534,594	152,091	10,067,348	2,315,155
2006	149,936,273	99,663,072	31,752,570	6,894,578	11,626,053	168,128	9,248,983	2,208,942
2007	154,721,201	101,634,975	33,721,286	6,963,404	12,401,536	173,526	9,875,521	2,352,489
2008	175,708,471	112,427,316	40,485,935	7,675,230	15,119,990	232,000	12,180,004	2,707,986
2009	242,643,675	148,694,447	58,966,224	11,885,971	23,097,033	416,402	19,150,952	3,529,679
2010	344,944,695	205,295,932	84,580,309	18,439,872	36,628,582	646,050	31,241,394	4,741,138
2011	401,125,167	232,589,629	101,402,892	22,359,632	44,773,014	837,977	38,496,199	5,438,838
2012	446,125,011	255,234,297	113,340,246	24,985,524	52,564,944	904,961	45,642,853	6,017,130
2013	483,938,852	276,578,330	122,058,832	25,326,161	59,975,529	927,424	52,549,652	6,498,453
2014	520,648,348	297,574,355	133,266,411	26,093,928	63,713,654	989,631	55,828,946	6,895,077
2015	517,778,775	294,494,838	135,299,879	25,138,475	62,845,583	926,116	54,983,578	6,935,889
2016	490,595,924	276,992,474	129,892,964	24,836,590	58,873,896	910,749	50,597,805	7,365,342
2017	483,064,100	272,189,423	129,927,369	24,207,079	56,740,229	958,950	48,652,169	7,129,110

NA Not available.

Source: Hawaii State Department of Human Services, *A Statistical Report on Welfare in Hawaii* (annual) and records.

**Table 11.06-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE
AND SEX: 2014 TO 2016**

[December data. Based on Master Beneficiary Record, 100 percent data]

Age and sex	2014	2015	2016
Total	251,591	256,912	261,513
17 or under	11,291	11,171	10,738
18 to 54	13,442	12,884	12,386
55 to 61	9,124	9,191	9,061
62 to 64	20,612	20,040	19,312
65 to 69	59,577	61,931	62,684
70 to 74	48,209	51,096	54,958
75 to 79	32,272	33,266	34,837
80 to 84	25,181	24,930	24,806
85 to 89	19,101	19,077	18,855
90 to 99	12,411	12,908	13,422
100 or older	371	418	454
Adult beneficiaries	237,056	242,516	247,484
Men	107,645	110,260	112,622
Women	129,411	132,256	134,862

Source: U.S. Social Security Administration, Office of Policy Data, *Annual Statistical Supplement* (annual), tables 5.J5 and 5.J5.1 <<http://www.ssa.gov/policy/docs/statcomps/supplement/2017/5j.pdf>> accessed June 16, 2018.

Table 11.07-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT: 2015 AND 2016

[December data. Based on Master Beneficiary Record, 100 percent data]

Type of benefit	OASDI beneficiaries		Monthly benefits (\$1,000)	
	2015	2016	2015	2016
Total	256,912	261,513	320,859	331,474
Retirement	208,087	213,644	268,042	279,228
Retired workers	195,436	200,592	259,519	270,160
Spouses	8,805	9,215	6,025	6,545
Children	3,846	3,837	2,498	2,523
Survivors	21,226	21,029	23,862	23,924
Widow(er)s and parents	15,073	14,997	18,460	18,590
Children	6,153	6,032	5,402	5,334
Disability	27,599	26,840	28,955	28,321
Disabled workers	22,800	22,275	27,257	26,705
Spouses	402	405	120	127
Children	4,397	4,160	1,578	1,489
Age 65 and over	203,626	210,016	267,847	280,062
Men	91,041	94,154	131,722	137,785
Women	112,585	115,862	136,125	142,277

Source: U.S. Social Security Administration, Office of Policy, *Annual Statistical Supplement* (annual), tables 5.J2, 5.J3 and 5.J4 <<http://www.ssa.gov/policy/docs/statcomps/supplement/2017/5j.pdf>> accessed June 16, 2018.

**Table 11.08-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI)
BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY COUNTY: 2016**

[December data. Based on Master Beneficiary Record, 100 percent data]

County 1/	Total	Retirement			Survivors		Disability			Aged 65 or older	
		Retired workers	Spouses	Children	Widow-(er)s 2/	Children	Disabled workers	Spouses	Children	Men	Women
State total	261,513	200,592	9,215	3,837	14,997	6,032	22,275	405	4,160	94,154	115,862
Hawaii	43,595	32,225	1,180	645	2,425	1,020	5,135	60	905	15,795	16,770
Honolulu	173,410	134,130	6,865	2,410	10,230	3,930	13,030	275	2,540	62,120	80,575
Kalawao	10	10	-	-	-	-	-	-	-	-	10
Kauai	15,020	11,660	430	270	870	300	1,235	25	230	5,540	6,355
Maui	29,480	22,570	740	510	1,470	785	2,875	45	485	10,695	12,155

1/ Because of special rounding procedures, county detail may not add exactly to State totals, and State totals may differ somewhat from corresponding values in other OASDI tables in this section.

2/ Includes nondisabled widow(er)s, disabled widow(er)s, widowed mothers and fathers, and parents.

Source: U.S. Department of Health and Human Services, Social Security Administration, *OASDI Beneficiaries by State and County, 2016*, table 4 <http://www.ssa.gov/policy/docs/statcomps/oasdi_sc/2016/hi.pdf> accessed June 16, 2018.

**Table 11.09-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI)
BENEFITS IN CURRENT-PAYMENT STATUS, BY COUNTY: 2016**

[In thousands of dollars. December data. Based on Master Beneficiary Record, 100 percent data]

County 1/	Total	Retirement			Survivors		Disability			Aged 65 or older	
		Retired workers	Spouses	Children	Widow-(er)s 2/	Children	Disabled workers	Spouses	Children	Men	Women
State total	331,474	270,160	6,545	2,523	18,590	5,334	26,705	127	1,489	137,785	142,277
Hawaii	53,074	41,674	814	407	2,990	850	6,033	16	290	22,268	19,928
Honolulu	222,374	183,121	4,906	1,601	12,618	3,523	15,587	85	933	92,036	99,854
Kalawao	12	11	-	-	-	-	-	-	-	-	11
Kauai	18,696	15,276	298	177	1,096	263	1,493	11	82	7,903	7,646
Maui	37,318	30,079	527	338	1,885	698	3,592	16	184	15,577	14,838

1/ Because of special rounding procedures, county detail may not add exactly to State totals, and State totals may differ somewhat from corresponding values in other OASDI tables in this section.

2/ Includes nondisabled widow(er)s, disabled widow(er)s, widowed mothers and fathers, and parents.

Source: U.S. Department of Health and Human Services, Social Security Administration, *OASDI Beneficiaries by State and County, 2016*, table 5 <http://www.ssa.gov/policy/docs/statcomps/oasdi_sc/2016/hi.pdf> accessed June 16, 2018.

Table 11.10-- NUMBER AND PERCENT RECEIVING RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFITS FOR HAWAII AND THE UNITED STATES: 2016

[December data. Based on Master Beneficiary Record, 100 percent data]

Area	Total population		Aged 65 or older	
	Number (1,000) 1/	Percentage receiving benefits	Number (1,000) 1/	Percentage receiving benefits
Hawaii	1,429	18.3	244	86.1
United States	323,128	18.8	49,244	90.4

1/ Population estimates as of July 1, 2016, as reported by the U.S. Census Bureau.

Source: U.S. Department of Health and Human Services, Social Security Administration, *OASDI Beneficiaries by State and County, 2016*, table 1

<http://www.ssa.gov/policy/docs/statcomps/oasdi_sc/2016/hi.pdf> accessed June 16, 2018.

**Table 11.11-- SOCIAL SECURITY BENEFICIARIES AND BENEFITS PAID:
1991 TO 2016**

[December data unless otherwise specified. Prior to 2006 based on 10-percent samples
2006 and after based on Master Beneficiary Record, 100 percent data]

Year	Number of beneficiaries 1/	Monthly benefits (\$1,000) 1/	Estimated total annual benefits paid (million dollars)
1991	151,390	85,182	971
1992	154,950	90,840	1,041
1993	158,370	95,812	1,106
1994	161,840	101,506	1,169
1995	168,020	107,600	1,243
1996	169,300	113,990	1,317
1997	172,050	119,266	1,385
1998	174,850	124,320	1,453
1999	179,150	131,387	1,517
2000	184,140	142,159	1,628
2001	188,920	151,425	1,752
2002	193,220	158,309	1,855
2003	195,430	165,897	1,938
2004	199,240	175,645	2,039
2005	202,890	187,948	2,162
2006	204,207	197,311	2,277
2007	207,992	207,882	2,422
2008	212,890	227,489	2,557
2009	220,491	238,128	2,813
2010	227,914	248,933	2,940
2011	234,314	267,756	3,056
2012	240,456	282,090	3,276
2013	246,477	296,423	3,447
2014	251,591	310,833	3,613
2015	256,912	320,859	3,790
2016	261,513	331,474	3,911

1/ Prior to 2007 includes special age-72 beneficiaries.

Source: U.S. Social Security Administration, Office of Policy Data, *Annual Statistical Supplement*, (annual), tables 5.J1, 5.J2 and 5.J4 <<http://www.ssa.gov/policy/docs/statcomps/supplement/2017/5j.pdf>> accessed June 16, 2018.

Table 11.12-- MEDICARE BENEFICIARIES ENROLLED: 2014 TO 2016

Coverage	All persons			Persons 65 and over		
	2014	2015	2016	2014	2015	2016
Hospital (Part A) and/or supplementary medical insurance (Part B)	237,336	244,897	251,978	213,478	221,147	228,559
Hospital insurance (Part A and B, and Part A only)	236,622	244,252	251,274	212,789	220,503	227,855
Hospital insurance (Part A only)	23,696	29,707	31,320	21,831	26,983	28,818
Supplementary medical insurance (Part A and B, and Part B only)	213,640	215,190	220,658	191,647	194,164	199,741
Supplementary medical insurance (Part B only)	714	645	704	689	644	704
Hospital (Part A) and supplementary medical insurance (Part B)	212,926	214,545	219,954	190,958	193,520	199,037

Source: U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services <<http://www.cms.hhs.gov/MedicareEnrpts>> accessed July 10, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 11.13-- SENIOR MEDICARE ENROLLEES, BY COUNTY: 2008 TO 2012

[As of July 1, for persons 65 years and over. From the 100 percent denominator file]

Year	Honolulu	Hawaii	Maui 1/	Kauai
2008	125,174	22,360	16,010	8,747
2009	128,469	23,505	16,607	9,015
2010	131,413	24,220	17,344	9,318
2011	134,938	(NA)	18,163	9,658
2012	148,319	29,119	20,795	10,923

NA Not available

1/ Includes Kalawao County, for 2009 Kalawao had 28 enrollees, for 2010 Kalawao had 15 enrollees, for 2011 Kalawao had 19 enrollees and for 2012 Kalawao had 20 enrollees.

Source: U.S. Department of Health and Human Services, Centers for Medicare and Medicaid Services, Office of Information Services, CMS denominator files <<http://www.cms.gov/Research-Statistics-Data-and-Systems/Statistics-Trends-and-Reports/MedicareEnrpts/index.html?redirect=/MedicareEnrpts/>> accessed July 14, 2014.

**TABLE 11.14-- DISABILITY STATUS AND NUMBER OF PERSONS
WITH A DISABILITY, FOR THE STATE AND OAHU: 2016**

[Excludes the population living in institutions, college dormitories, and other group quarters.
Data are based on a sample, the confidence interval is 90 percent]

Age and disability status	State total		Oahu	
	Male	Female	Male	Female
Age under 5 years				
With any disability	265	132	265	132
With a hearing difficulty	265	132	265	132
With a vision difficulty	-	132	-	132
Age 5 to 17 years				
With any disability	4,730	3,165	3,432	2,382
With a hearing difficulty	839	393	553	343
With a vision difficulty	606	387	527	371
With a cognitive difficulty	3,673	2,424	2,649	1,681
With an ambulatory difficulty	364	129	200	56
With a self-care difficulty	718	121	479	48
Age 18 to 34 years				
With any disability	6,760	7,001	5,129	4,579
With a hearing difficulty	1,334	1,259	1,031	666
With a vision difficulty	901	1,325	640	806
With a cognitive difficulty	4,044	3,262	2,974	1,884
With an ambulatory difficulty	1,637	2,259	1,021	1,580
With a self-care difficulty	1,013	807	758	356
With an independent living difficulty	3,057	3,547	1,977	2,142
Age 35 to 64 years				
With any disability	27,985	24,285	17,756	15,983
With a hearing difficulty	7,899	3,762	4,357	1,953
With a vision difficulty	4,342	4,525	3,136	2,983
With a cognitive difficulty	10,593	8,647	6,134	5,380
With an ambulatory difficulty	13,950	13,821	9,086	8,553
With a self-care difficulty	4,463	3,967	2,810	2,371
With an independent living difficulty	8,622	8,678	5,543	6,213

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TABLE 11.14-- DISABILITY STATUS AND NUMBER OF PERSONS WITH A DISABILITY, FOR THE STATE AND OAHU: 2016 -- Con.

Age and disability status	State total		Oahu	
	Male	Female	Male	Female
65 to 74 years				
With any disability	16,463	13,690	9,754	8,787
With a hearing difficulty	8,621	2,544	5,083	1,358
With a vision difficulty	2,672	1,627	1,306	1,105
With a cognitive difficulty	3,879	3,432	1,927	2,215
With an ambulatory difficulty	8,056	9,965	5,037	6,594
With a self-care difficulty	2,360	2,809	1,681	1,962
With an independent living difficulty	4,956	4,725	3,117	3,158
75 years and over				
With any disability	20,676	30,971	14,296	21,663
With a hearing difficulty	10,965	12,456	7,184	8,134
With a vision difficulty	3,020	4,954	1,711	2,358
With a cognitive difficulty	6,732	12,104	4,617	8,244
With an ambulatory difficulty	12,489	22,684	8,640	15,992
With a self-care difficulty	4,780	11,213	3,446	7,735
With an independent living difficulty	8,964	20,277	6,060	14,306

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates
 <<http://factfinder2.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed
 June 16, 2018.

**Table 11.15-- PERSONS SERVED BY STATE HOMELESS PROGRAMS,
BY COUNTY: 2010 TO 2016**

[Fiscal year ending June 30]

Year and program	State	City and County of Honolulu	Hawaii County	Maui County	Kauai County
2010					
Outreach	7,997	5,350	1,090	1,161	373
Shelter	7,649	5,660	623	1,016	331
2011					
Outreach	8,266	5,225	1,098	1,580	363
Shelter	8,299	6,211	622	1,154	312
2012					
Outreach	7,804	4,949	1,063	1,407	385
Shelter	8,507	6,305	574	1,297	331
2013					
Outreach	7,415	4,837	832	1,328	418
Shelter	8,699	6,234	565	1,557	343
2014					
Rapid Rehousing	824	686	74	40	24
Outreach	7,608	4,391	1,401	1,488	328
Shelter	8,574	6,039	746	1,448	341
2015					
Rapid Rehousing	981	747	82	147	5
Outreach	8,030	4,755	1,514	1,384	377
Shelter	8,844	6,364	783	1,345	352
2016					
Rapid Rehousing	973	460	287	208	18
Outreach	8,702	5,268	1,263	1,936	235
Shelter	7,313	5,180	612	1,191	330

Source: Center on the Family at the University of Hawaii and the Hawaii State Department of Human Services, Homeless Programs Office, *Homeless Service Utilization Report* (annual) <<http://uhfamily.hawaii.edu/publications/publications.asp>> accessed June 26, 2017.

**Table 11.16-- CHARACTERISTICS OF PERSONS PARTICIPATING IN THE
STATE HOMELESS OUTREACH PROGRAMS: 2013 TO 2016**

[Fiscal year ending June 30]

Subject	Participants			
	2013	2014	2015	2016
State total	7,415	7,608	8,030	8,702
City & County of Honolulu	4,837	4,391	4,755	5,268
Hawaii	832	1,401	1,514	1,263
Maui	1,328	1,488	1,384	1,936
Kauai	418	328	377	235
Age				
Under 6	430	520	493	496
6 to 17	455	467	479	648
18 to 24	615	670	671	609
25 to 39	1,835	1,976	1,967	1,969
40 to 59	3,267	3,235	3,247	3,087
60 or over	622	623	798	871
Gender 1/				
Male	4,626	4,621	4,753	4,821
Female	2,757	2,952	3,149	3,231
Ethnicity 2/				
Caucasian / white	3,045	2,978	2,815	2,516
Hawaiian / part Hawaiian	2,140	2,191	2,441	2,463
Black	395	356	398	371
Filipino	404	379	421	370
Marshallese	190	300	325	219
Micronesian	327	511	451	424
Other Asian	352	306	343	339
Other Pacific Islander	351	336	352	370
Native American	155	161	159	161
Other / unknown	56	90	325	1,469
Hawaii residence				
1 year or less	585	431	731	(NA)
More than 1 year, less than 10 years	979	1,227	1,300	(NA)
10 years to less than 20 years	563	663	646	(NA)
20 years and over	3,348	3,311	3,473	(NA)

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Table 11.16-- CHARACTERISTICS OF PERSONS PARTICIPATING IN THE STATE HOMELESS OUTREACH PROGRAMS: 2013 TO 2016 -- Con.

Subject	Participants			
	2013	2014	2015	2016
Employment status				
Unemployed	5,125	5,300	5,298	2,781
Employed part-time	525	503	586	236
Employed full-time	172	344	402	188
Educational attainment				
Less than high school diploma 3/	1,391	1,482	1,471	746
High school diploma/GED	3,232	3,679	3,711	1,786
Some college or more	1,162	863	911	537
Length of homelessness 4/				
1 day or less	176	249	(NA)	(NA)
2 days to less than 1 month	1,107	1,191	(NA)	(NA)
1 month to less than 1 year	2,167	2,285	(NA)	(NA)
1 to 2 years	876	916	(NA)	(NA)
3 years or more	1,052	1,077	(NA)	(NA)

NA Not available.

1/ Doesn't include transgender, the data for transgender individuals are included in rest of table.

2/ Other represents a heterogeneous group of individuals who elected not to identify with any one ethnicity.

3/ High school seniors who have not yet graduated at the time of intake are included in the "less than high school diploma" category.

4/ "Length of homelessness" is based on self-reports regarding the duration of homelessness at the time of intake. The individual continues to be considered homeless during his or her participation in outreach program services, although this period is not added to the time reported at intake. Therefore, the actual duration of homelessness exceeds the length of time presented in this report.

Source: Center on the Family at the University of Hawaii and the Hawaii State Department of Human Services, Homeless Programs Office, *Homeless Service Utilization Report* (annual) and Center on the Family at the University of Hawaii, *Homeless Service Utilization Report: Statistical Supplement* (annual)

<<http://uhfamily.hawaii.edu/publications/publications.asp>> accessed June 26, 2017.

**Table 11.17-- CHARACTERISTICS OF PERSONS PARTICIPATING IN THE
STATE HOMELESS SHELTER PROGRAMS: 2013 TO 2016**

[Fiscal year ending June 30]

Subject	Participants			
	2013	2014	2015	2016
State total	8,699	8,574	8,844	7,313
City & County of Honolulu	6,234	6,039	6,364	5,180
Hawaii	565	746	783	612
Maui	1,557	1,448	1,345	1,191
Kauai	343	341	352	330
Age				
Under 6	1,550	1,512	1,446	906
6 to 17	1,370	1,345	1,379	1,150
18 to 24	751	720	718	554
25 to 39	2,123	2,039	2,093	1,811
40 to 59	2,367	2,368	2,498	2,157
60 or over	498	564	696	674
Gender 1/				
Male	4,757	4,685	4,856	4,111
Female	3,908	3,867	3,964	3,179
Ethnicity 2/				
Caucasian / white	2,137	2,229	2,361	2,069
Hawaiian / part Hawaiian	2,444	2,539	2,626	2,112
Black	455	492	514	393
Filipino	469	436	496	397
Marshallese	897	725	663	422
Micronesian	1,119	1,120	1,077	799
Other Asian	375	384	394	311
Other Pacific Islander	605	486	499	431
Native American	131	123	166	120
Other / unknown	67	40	48	259
Hawaii residence				
1 year or less	482	325	651	(NA)
More than 1 year, less than 10 years	1,333	1,408	1,402	(NA)
10 years to less than 20 years	440	617	678	(NA)
20 years and over	2,761	2,797	2,957	(NA)

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Table 11.17-- CHARACTERISTICS OF PERSONS PARTICIPATING IN THE STATE HOMELESS SHELTER PROGRAMS: 2013 TO 2016 -- Con.

Subject	Participants			
	2013	2014	2015	2016
Employment status				
Unemployed	4,051	4,062	4,327	1,696
Employed part-time	808	825	778	378
Employed full-time	733	823	912	401
Educational attainment				
Less than high school diploma 3/	1,480	1,390	1,383	585
High school diploma/GED	2,830	3,277	3,606	1,469
Some college or more	1,251	879	856	384
Length of homelessness 4/				
1 day or less	1,082	1,010	(NA)	(NA)
2 days to less than 1 month	870	903	(NA)	(NA)
1 month to less than 1 year	1,564	1,632	(NA)	(NA)
1 to 2 years	507	573	(NA)	(NA)
3 years or more	361	355	(NA)	(NA)

NA Not available.

1/ Doesn't include transgender, the data for transgender individuals are included in rest of table.

2/ Other represents a heterogeneous group of individuals who elected not to identify with any one ethnicity.

3/ High school seniors who have not yet graduated at the time of intake are included in the "Less than high school diploma" category.

4/ "Length of homelessness" is based on self-reports regarding the duration of homelessness at the time of intake. The individual continues to be considered homeless during his or her participation in outreach program services, although this period is not added to the time reported at intake. Therefore, the actual duration of homelessness exceeds the length of time presented in this report.

Source: Center on the Family at the University of Hawaii and the Hawaii State Department of Human Services, Homeless Programs Office, *Homeless Service Utilization Report* (annual) and Center on the Family at the University of Hawaii, *Homeless Service Utilization Report: Statistical Supplement* (annual)

<<http://uhfamily.hawaii.edu/publications/publications.asp>> accessed June 26, 2017.

**Table 11.18-- HOMELESS PERSONS, BY SURVEY CATEGORY,
BY COUNTY: 2014 TO 2018**

Year and survey category	State	City & County of Honolulu	County of Maui	County of Hawaii	County of Kauai
January 2014					
Homeless persons	6,918	4,712	959	869	378
Sheltered 1/ Households with children	3,813	3,079	445	211	78
Persons in families	663	526	87	35	15
Single individuals	2,649	2,168	301	122	58
Unsheltered 2/ Households with children	1,164	911	144	89	20
Persons in families	3,105	1,633	514	658	300
Single individuals	127	52	13	45	17
	519	188	51	220	60
	2,586	1,445	463	438	240
January 2015					
Homeless persons	7,620	4,903	1,137	1,241	339
Sheltered 1/ Households with children	3,777	2,964	505	220	88
Persons in families	613	485	78	33	17
Single individuals	2,534	2,055	293	126	60
Unsheltered 2/ Households with children	1,243	909	212	94	28
Persons in families	3,843	1,939	632	1,021	251
Single individuals	185	71	25	77	12
	779	285	102	345	47
	3,064	1,654	530	676	204
January 2016					
Homeless persons	7,921	4,940	1,145	1,394	442
Sheltered 1/ Households with children	3,613	2,767	484	271	91
Persons in families	569	436	66	49	18
Single individuals	2,331	1,844	242	181	64
Unsheltered 2/ Households with children	1,282	923	242	90	27
Persons in families	4,308	2,173	661	1,123	351
Single individuals	236	77	34	104	21
	1,000	299	136	460	105
	3,308	1,874	525	663	246

Continued on next page.

**Table 11.18-- HOMELESS PERSONS, BY SURVEY CATEGORY,
BY COUNTY: 2014 TO 2018 -- Con.**

Year and survey category	State	City & County of Honolulu	County of Maui	County of Hawaii	County of Kauai
January 2017					
Homeless persons	7,220	4,959	896	953	412
Sheltered 1/	3,420	2,635	395	275	115
Households with children	539	399	80	41	19
Persons in families	2,162	1,622	275	183	82
Single individuals	1,258	1,013	120	92	33
Unsheltered 2/	3,800	2,324	501	678	297
Households with children	127	59	7	42	19
Persons in families	523	225	21	196	81
Single individuals	3,277	2,099	480	482	216
January 2018					
Homeless persons	6,530	4,495	873	869	293
Sheltered 1/	3,055	2,350	399	200	106
Households with children	(NA)	340	(NA)	(NA)	(NA)
Persons in families	(NA)	1,361	(NA)	(NA)	(NA)
Single individuals	(NA)	989	(NA)	(NA)	(NA)
Unsheltered 2/	3,475	2,145	474	669	187
Households with children	(NA)	67	(NA)	(NA)	(NA)
Persons in families	(NA)	229	(NA)	(NA)	(NA)
Single individuals	(NA)	1,916	(NA)	(NA)	(NA)

NA Not available.

1/ Sheltered homeless: persons or groups of persons who lack a fixed, regular and adequate nighttime residence and stay at a supervised public or private shelter designed to provide temporary alleviation of homelessness through the provision of living accommodations (emergency, transitional or other) or that is an institution that provides temporary residence for individuals intended to be institutionalized.

2/ Unsheltered homeless: persons or groups of persons having a primary nighttime residence that is a public or private place not designed for, or ordinarily used as, a regular sleeping accommodation for persons (including beaches, parks, automobiles, caves, benches, and abandoned or vacant buildings).

Source: State of Hawaii, Department of Human Services, Homeless Programs Office; Bridging the Gap and Partners in Care, *State of Hawaii Homeless Point-in-Time Count January 22, 2018* <<http://partnersincareoahu.org/point-time-count-oahu>> accessed July 9, 2018.

**Table 11.19-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM:
1992 TO 2017**

[As of June 30 unless otherwise noted]

Year	Member- ship, 1/	Pensioners and beneficiaries, 1/	Assets, 2/ June 30 (\$1,000)	Total benefits paid 3/ (\$1,000)	Average monthly pension 3/ (dollars)	Adminis- tration expenses 3/ (dollars)
1992	57,401	21,787	4,551,348	284,194	950	2,446,107
1993	59,518	22,387	4,987,341	309,245	1,004	2,274,981
1994	61,082	22,905	5,416,206	331,393	1,057	2,875,676
1995	60,687	25,360	5,599,698	408,206	1,143	2,896,684
1996	59,275	26,926	6,063,298	457,713	1,220	2,960,240
1997	59,500	27,173	7,888,168	436,397	1,276	3,217,348
1998	60,447	27,403	9,051,782	446,789	1,321	3,331,700
1999	61,164	27,950	9,679,760	483,199	1,369	3,775,942
2000	62,207	28,715	9,931,772	518,720	1,414	4,168,717
2001	63,408	29,660	8,761,096	548,799	1,462	4,893,712
2002	66,043	30,330	7,905,453	568,804	1,523	5,754,832
2003	66,442	31,389	7,687,200	605,411	1,533	6,780,824
2004	67,074	32,297	8,565,405	638,543	1,597	10,468,508
2005	68,011	33,301	9,195,868	676,316	1,663	7,259,906
2006	69,233	34,304	9,932,411	720,543	1,719	8,477,837
2007	70,805	35,324	11,462,417	761,005	1,773	9,601,756
2008	72,436	36,260	10,846,789	792,313	1,824	10,728,801
2009	73,928	36,999	8,817,953	839,129	1,906	12,343,484
2010	72,785	38,441	9,821,633	906,386	1,975	12,210,645
2011	71,959	39,689	11,642,278	960,219	2,059	13,325,781
2012	72,508	40,774	11,285,930	1,015,448	2,117	11,634,196
2013	73,538	41,812	12,357,826	1,060,561	2,171	12,277,277
2014	75,311	43,087	14,203,015	1,122,446	2,216	12,626,030
2015	74,723	44,283	14,505,465	1,170,745	2,269	14,032,964
2016	75,118	45,506	14,069,979	1,232,589	2,318	13,960,587
2017	75,152	46,927	15,698,324	1,306,789	(NA)	14,986,159

NA Not available.

1/ March 31 from 1992 through 2011, June 30 thereafter.

2/ Prior to June 30, 1997, assets are reported at cost. Effective June 30, 1997, assets are reported at fair value.

3/ Year ended June 30. Data on total benefits paid exclude the employers' share of social security contributions.

Source: Employees' Retirement System of the State of Hawaii, *Comprehensive Annual Financial Report*, Employees' Retirement System of the State of Hawaii, *Report to Board of Trustees on the Annual Actuarial Valuation* <<http://ers.ehawaii.gov/resources/financials>> accessed June 18, 2018, and records.

Table 11.20-- UNEMPLOYMENT INSURANCE: 1987 TO 2016

[Covering private industry, Federal, State and County governments and nonprofit organizations]

Year	Covered employment	Insured unemployment		Average weekly wages (dollars)	Benefit payments (\$1,000)	Average weekly benefits (dollars)	Average benefit duration (weeks)
		Weekly average	Percent coverage				
1987	470,179	7,329	37.8	364.79	49,900	149.50	13.4
1988	485,707	6,708	40.8	392.73	50,659	162.51	13.5
1989	508,673	5,238	39.4	415.75	40,833	170.03	12.0
1990	533,229	5,722	38.9	444.92	50,269	189.40	11.4
1991	541,415	8,106	49.4	463.43	83,530	205.70	13.0
1992	544,718	11,933	47.2	492.94	144,741	235.48	14.8
1993	542,333	13,227	50.3	503.02	165,877	246.31	17.6
1994	540,015	15,228	47.1	514.13	193,878	258.72	17.4
1995	535,640	15,819	45.9	518.88	208,316	262.21	16.0
1996	533,123	15,351	41.0	526.04	200,050	261.07	17.8
1997	534,210	13,819	37.0	545.20	176,659	259.30	17.1
1998	533,147	12,978	35.4	558.83	162,013	258.08	16.4
1999	536,979	11,042	34.0	573.11	140,528	265.78	16.5
2000	552,445	8,755	34.0	587.99	111,665	273.16	15.4
2001	556,447	11,884	43.3	601.21	150,142	282.46	12.8
2002	557,876	12,304	48.5	628.56	164,500	279.64	19.2
2003	568,549	10,669	43.0	649.31	144,864	297.67	15.7
2004	584,227	8,513	41.0	677.21	121,244	311.69	15.6
2005	602,837	6,569	36.6	699.36	97,794	328.44	14.2
2006	616,950	6,609	39.6	727.10	107,255	356.79	13.3
2007	624,931	7,032	39.4	759.24	121,595	373.53	13.6
2008	618,612	11,817	42.9	782.72	226,187	405.92	13.9
2009	591,054	20,484	45.4	795.90	401,227	411.08	18.9
2010	585,298	17,837	39.7	803.18	341,545	406.43	19.7
2011	592,537	14,721	32.7	817.49	278,391	405.08	18.4
2012	603,796	13,085	33.6	835.33	254,098	412.68	17.9
2013	617,022	11,670	1/ 36.6	843.89	227,929	415.82	16.7
2014	625,077	10,115	1/ 34.9	870.27	197,493	421.85	16.7
2015	636,403	7,891	1/ 32.8	900.48	157,488	432.89	15.3
2016	645,601	7,210	35.8	928.64	146,081	446.98	14.3

1/ Revised from previous *Data Book*.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book* (annual) and records; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 11.21-- CHILD DAY CARE SERVICES (NAICS 6244), BY FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA: 2007 AND 2012

[Includes establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to 1997]

Geographic area	Number of establishments		Receipts or revenue (\$1,000)		Paid employees for pay period including March 12	
	Subject to tax	Tax exempt	Subject to tax	Tax exempt	Subject to tax	Tax exempt
2007						
State total	30	172	12,655	70,872	274	1,974
Oahu	18	121	10,303	59,103	207	1,558
Neighbor Islands	12	51	2,352	11,769	67	416
2012						
State total	36	209	15,806	95,239	372	2,343
Oahu	24	142	13,638	77,214	309	1,811
Neighbor Islands	12	67	2,168	18,025	63	532

Source: 2007 Economic Census, Health Care and Social Assistance, Geographic Area Series: Summary Statistics: 2007, via American FactFinder <http://factfinder.census.gov/servlet/DatasetMainPageServlet?_program=ECN&_tabId=ECN1&_submenuId=datasets_4&_lang=en&_ts=246366688395> accessed May 28, 2010 and 2012 Economic Census of the United States, Health Care and Social Assistance, Geographic Area Series: Summary Statistics: 2012, via American FactFinder <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed June 22, 2015.

Table 11.22-- LICENSED GROUP CHILD CARE CENTERS AND REGISTERED CHILD CARE HOMES: 2008 TO 2017

[Fiscal year ending June 30]

Subject	2008	2009	2010	2011	2012 2/
Licensed group child care centers 1/	626	626	633	646	626
Registered child care homes	621	675	674	656	604
Licensed child care slots available	35,729	35,874	36,001	36,634	35,534
Subject	2013	2014	2015	2016	2017
Licensed group child care centers 1/	627	619	623	638	635
Registered child care homes	581	546	535	482	461
Licensed child care slots available	35,468	34,935	35,332	35,988	36,070

1/ Includes group child care homes, before and after school, and infant/toddler centers.

2/ In FY 2012 the fewer number of children receiving child care subsidies may be attributed to changes in the child care rules that included reduced child care services rate, and increased sliding scale fees. The decrease in subsidies for most families resulted in many changing child care providers or dropping out of the subsidy programs.

Source: Hawaii State Department of Human Services, *Department of Human Services, Annual Report (annual)* <<http://humanservices.hawaii.gov/reports/annual-reports/>> accessed June 18, 2018.

**Table 11.23-- 501(c)(3) PUBLIC CHARITIES IN HAWAII, BY TYPE:
CIRCA 2010**

[Dollar amounts in millions]

Type	No. of organizations	Total assets	Total liabilities	Contributions, gifts & grants	Total revenue	Total expenses
Total	1,916	12,119.0	3,524.3	1,173.4	4,936.9	4,704.4
Arts, culture, & humanities	292	734.2	98.8	142.2	257.7	207.0
Education	345	8,065.8	821.8	168.9	975.9	964.8
Environment	87	137.0	7.3	31.2	50.3	46.7
Animal-related	33	28.7	3.0	12.1	19.2	17.6
Health care	121	3,093.1	1,562.1	161.5	2,474.8	2,359.5
Mental health & crisis intervention	54	75.9	15.2	45.4	93.4	92.1
Voluntary health assoc. & medical disciplines	38	35.6	11.1	19.5	38.7	37.3
Medical research	11	11.4	2.9	6.1	6.8	6.0
Crime & legal related	44	24.4	8.2	13.8	16.4	16.0
Employment	13	38.9	10.0	6.5	39.0	37.3
Food, agriculture, & nutrition	24	61.3	16.0	50.8	56.5	45.0
Housing, shelter	102	695.9	508.4	68.7	135.5	131.6
Public safety, disaster preparedness & relief	15	1.9	(1/)	1.3	1.8	1.4
Recreation & sports	164	18.0	1.7	9.1	25.4	25.0
Youth development	53	58.8	7.3	28.0	34.1	31.3
Human services	173	494.1	128.5	190.8	355.2	349.3

Continued on next page.

**Table 11.23-- 501(c)(3) PUBLIC CHARITIES IN HAWAII, BY TYPE:
CIRCA 2010 -- Con.**

Type	No. of organizations	Total assets	Total liabilities	Contributions, gifts & grants	Total revenue	Total expenses
International, foreign affairs & national security	37	56.7	7.3	52.3	64.4	64.6
Civil rights, social action & advocacy	7	3.9	0.4	3.2	5.3	4.8
Community improvement & capacity building	92	68.9	26.9	41.3	48.9	48.5
Philanthropy, voluntarism & grantmaking foundations	73	875.3	69.3	73.1	77.6	75.2
Science & technology	15	147.3	15.3	30.6	39.4	40.4
Social science	6	1.5	0.1	1.7	1.9	1.2
Public & societal benefit	17	5.8	0.3	2.6	4.4	4.1
Religion-related	84	65.8	7.5	11.4	18.9	17.6
Mutual & membership benefit	11	317.4	194.3	1.1	94.3	79.2
Unknown	5	1.3	0.7	0.4	1.0	1.0

1/ Rounds down to zero.

Source: National Center for Charitable Statistics (NCCS) <<http://nccsdataweb.urban.org/tablewiz/pc.php>> accessed June 29, 2012.

Table 11.24-- QUALITY OF LIFE INDEX RANKINGS: 1999 TO 2017

Area, authority, and year of publication	Number of areas ranked	State or Honolulu rank 1/
State		
Morgan Quitno, 1999	50	41
Morgan Quitno, 2000	50	43
Morgan Quitno, 2001	50	34
Morgan Quitno, 2002	50	43
Morgan Quitno, 2003	50	41
Morgan Quitno, 2004	50	32
Morgan Quitno, 2005	50	26
Morgan Quitno, 2006	50	22
Morgan Quitno, 2007	50	19
CQ Press, 2008 2/	50	21
CQ Press, 2009	50	20
CQ Press, 2010	50	17
CQ Press, 2011	50	20
CQ Press, 2013	50	23
CQ Press, 2014	50	22
CQ Press, 2015	50	32
CQ Press, 2016	50	19
CQ Press, 2017	50	21

1/ For the State, the scale is 1 to 50, the lower the rank, the better.

2/ Morgan Quitno Press was acquired by CQ Press on June 21, 2007.

Source: Morgan Quitno, *State Rankings* (annual); CQ Press, *State Rankings* (annual).

Section 12

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by occupation, industry, and class of worker, payrolls, wage rates, hours, industrial safety, unionization, and strikes. Related series appear in Sections 3, 9, 10, and 19 through 24.

Principal sources for the data on labor force, employment, place of work, hours, earnings, unions and strikes are the decennial reports of the U.S. Census Bureau, the same agency's Current Population Survey and American Community Survey, reports by the U.S. Bureau of Labor Statistics, annual reports by the Hawaii Department of Human Resources Development, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. *Historical Statistics of Hawaii*, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 12 of the *Statistical Abstract of the United States: 2012*.

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Table 12.01-- LABOR FORCE STATUS, BY SEX: 2011 TO 2016

Sex and labor force status	2011	2012	2013	2014	2015	2016
BOTH SEXES						
Persons 16 years & over	1,102,147	1,122,846	1,128,541	1,143,931	1,152,884	1,152,321
Labor force	718,139	735,451	730,827	741,561	754,691	756,610
Percent in labor force	65.2	65.5	64.8	64.8	65.5	65.7
Armed forces	36,340	37,549	45,642	39,496	44,452	38,327
Civilian labor force	681,799	697,902	685,185	702,065	710,239	718,283
Employed	629,523	648,504	643,571	664,180	675,214	686,487
Unemployed	52,276	49,398	41,614	37,885	35,025	31,796
% of civ. lab. force	7.7	7.1	6.1	5.4	1/ 4.9	4.4
Not in labor force	384,008	387,395	397,714	402,370	398,193	395,711
MALE						
Persons 16 years & over	548,240	563,029	568,536	575,572	582,188	576,426
Labor force	387,494	400,770	399,951	403,642	412,721	408,395
Percent in labor force	70.7	71.2	70.3	70.1	70.9	70.8
Armed forces	32,348	33,816	40,615	35,471	40,417	33,604
Civilian labor force	355,146	366,954	359,336	368,171	372,304	374,791
Employed	324,396	339,042	336,565	346,145	354,372	357,986
Unemployed	30,750	27,912	22,771	22,026	17,932	16,805
% of civ. lab. force	8.7	7.6	6.3	6.0	4.8	4.5
Not in labor force	160,746	162,259	168,585	171,930	169,467	168,031
FEMALE						
Persons 16 years & over	553,907	559,817	560,005	568,359	570,696	575,895
Labor force	330,645	334,681	330,876	337,919	341,970	348,215
Percent in labor force	59.7	59.8	59.1	59.5	59.9	60.5
Armed forces	3,992	3,733	5,027	4,025	4,035	4,723
Civilian labor force	326,653	330,948	325,849	333,894	337,935	343,492
Employed	305,127	309,462	307,006	318,035	320,842	328,501
Unemployed	21,526	21,486	18,843	15,859	17,093	14,991
% of civ. lab. force	6.6	6.5	5.8	4.7	5.1	4.4
Not in labor force	223,262	225,136	229,129	230,440	228,726	227,680

1/ Revised from previous *Data Book*.

Source: U.S. Census Bureau, American FactFinder, American Community Survey 1-Year Estimates: Hawaii "DP03 Selected Economic Characteristics" (annual)
 <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed October 20, 2017; and calculations by Hawaii Department of Business, Economic Development & Tourism.

Table 12.02-- LABOR FORCE CHARACTERISTICS, BY COUNTY: 2012-2016

[In number and percent. Average of 2012-2016]

Subject	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Population 16 to 64 years	910,190	121,373	639,715	69	44,162	104,871
Male	466,225	60,573	330,693	43	22,222	52,694
Worked in past 12 months (percent)	81.6	72.1	83.4	93.0	80.6	81.4
Usually worked 35 or more hours per week (percent)	67.6	55.4	70.4	88.4	63.7	65.8
50 to 52 weeks (percent)	59.2	47.3	62.1	88.4	55.7	56.1
Female	443,965	60,800	309,022	26	21,940	52,177
Worked in past 12 months (percent)	74.1	68.9	74.4	100.0	76.3	77.2
Usually worked 35 or more hours per week (percent)	53.0	46.3	53.9	88.5	56.3	54.2
50 to 52 weeks (percent)	45.9	40.4	46.6	80.8	50.3	46.1
Females 16 years and over	569,662	78,466	397,100	46	28,552	65,498
In labor force	341,309	43,608	237,149	35	17,831	42,686
Employed or in armed forces	323,594	40,743	225,477	35	17,007	40,332
Own children under 18 years in families and subfamilies	288,976	39,631	201,052	-	14,733	33,560
Under 6 years	104,447	13,732	73,864	-	5,327	11,524
All parents in family in labor force	66,311	9,458	44,195	-	3,689	8,969
All parents in family in labor force (percent)	63.5	68.9	59.8	0.0	69.3	77.8
Living with two parents, both parents in labor force	40,500	4,765	28,636	-	2,038	5,061
Living with two parents, mother only in labor force	2,249	227	1,687	-	103	232
Living with one parent (mother), mother in labor force	17,005	3,011	10,530	-	1,024	2,440

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, for Hawaii State and counties "S2303 Work Status in the Past 12 Months"; "B23008 Age of Own Children Under 18 Years in Families and Subfamilies, by Living Arrangements, by Employment Status of Parents"; and "DP03 Selected Economic Characteristics: 2012-2016" <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed December 19, 2017; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 12.03-- SELECTED LABOR FORCE AND COMMUTING
CHARACTERISTICS, BY GEOGRAPHIC AREA: 2012-2016**

[Average of 2012-2016]

Subject	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Employment status						
Population 16 years and over	1,137,804	155,423	796,215	90	56,405	129,671
In labor force	742,161	90,352	526,530	76	36,947	88,256
Civilian labor force	703,384	90,190	488,421	72	36,732	87,969
Employed	664,616	83,482	463,513	72	34,868	82,681
Unemployed	38,768	6,708	24,908	-	1,864	5,288
Percent unemployed	5.5	7.4	5.1	0.0	5.1	6.0
Armed forces	38,777	162	38,109	4	215	287
Not in labor force	395,643	65,071	269,685	14	19,458	41,415
Females 16 years and over						
Population 16 years and over	569,662	78,466	397,100	46	28,552	65,498
In labor force	341,309	43,608	237,149	35	17,831	42,686
Civilian labor force	336,937	43,608	232,888	35	17,776	42,630
Employed	319,222	40,743	221,216	35	16,952	40,276
Own children under 6 years						
All parents in family	104,447	13,732	73,864	-	5,327	11,524
in labor force 1/	66,311	9,458	44,195	-	3,689	8,969
Commuting to work						
Workers 16 years and over	687,234	81,650	490,828	72	34,031	80,653
Car, truck, or van - drove alone	457,625	60,417	312,046	23	26,881	58,256
Car, truck or van - carpooled	96,809	10,075	72,467	5	3,232	11,030
Public trans. (excluding taxicab)	46,340	1,120	42,891	-	284	2,045
Walked	30,421	1,810	25,376	35	894	2,306
Other means	24,445	1,670	19,967	6	470	2,332
Worked at home	31,594	6,558	18,081	3	2,270	4,682
Mean travel time to work (min.)	27.2	25.6	28.7	5.4	22.6	21.0

1/ Both parents in family where both parents in labor force, or single-parent family, where parent is in labor force.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, "DP03 Selected Economic Characteristics: 2012-2016 State of Hawaii, and County: Honolulu, Hawaii, Kauai, Maui, Kalawao" <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 14, 2018.

Table 12.04-- LABOR FORCE STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGE, 2016 AND 2017

[Numbers in thousands and percent. The source sample was redesigned to reflect the 2010 population and incorporated other changes, including collapsed age categories. Prior to 2016, the category was '16 to 19'. 2017 data are preliminary. See also "Expanded State Employment Status Demographic Data" <<https://www.bls.gov/lau/ex14tables.htm>>]

Population group	Persons 16 years and over			20 to 24 years (both sexes)
	Both sexes	Men	Women	
2016				
Civilian noninstitutional population 1/	1,093	535	558	88
Civilian labor force 1/	686	362	324	63
Percent of population 1/	62.7	67.6	58.0	71.1
Employment 1/	665	351	313	59
Percent of population	60.8	65.6	56.2	66.6
Unemployment	21	11	10	4
Rate	3.0	2.9	3.2	6.3
Not in civilian labor force 1/	407	173	234	25
2017				
Civilian noninstitutional population	1,097	530	566	89
Civilian labor force	685	357	328	70
Percent of population	62.4	67.4	57.8	77.7
Employment	668	348	320	66
Percent of population	60.9	65.6	56.6	73.9
Unemployment	17	9	7	4
Rate	2.4	2.6	2.2	5.0
Not in civilian labor force	412	173	238	19

1/ Revised from previous *Data Book*.

Source: U.S. Bureau of Labor Statistics, *Local Area Unemployment Statistics*, "2016 Data on Employment Status by State and Demographic Group" <<https://www.bls.gov/lau/table14full16.pdf>> accessed July 14, 2018; "Preliminary 2017 Data on Employment Status by State and Demographic Group" <<http://www.bls.gov/lau/ptable14full2017.pdf>> accessed July 14, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 12.05-- CIVILIAN LABOR FORCE, AND UNEMPLOYMENT RATE, TOTAL AND FEMALE, BY RACE AND HISPANIC ORIGIN: 2016 AND 2017

[Totals may not add due to rounding. Estimates from Annual Local Area Unemployment Statistics (LAUS) and based on U.S. Census Bureau, American Community Survey 5-year average]

Race or origin 1/	Civilian labor force		Unemployed (percent)	
	Both sexes	Female	Both sexes	Female
2016				
All races	685,400	329,450	3.0	2.5
One race				
White	177,550	79,300	3.3	2.9
Black or African American	9,200	3,500	3.6	3.0
American Indian and Alaska Native	1,100	600	1.7	1.2
Asian	308,050	155,950	1.8	1.4
Native Hawaiian and other Pacific Islander	63,700	29,050	5.1	4.5
Some other race	9,600	4,550	7.5	7.0
Two or more races	116,200	56,450	4.3	3.4
Minority group	559,850	275,650	3.2	2.6
Hispanic or Latino	52,000	25,550	5.4	4.8
2017				
All races	685,400	329,850	2.4	1.9
One race				
White	177,450	79,350	2.6	2.3
Black or African American	9,200	3,500	2.8	2.3
American Indian and Alaska Native	1,100	600	1.3	1.0
Asian	308,950	156,500	1.4	1.1
Native Hawaiian and other Pacific Islander	63,400	28,950	4.0	3.6
Some other race	9,500	4,500	5.9	5.5
Two or more races	115,850	56,400	3.4	2.6
Minority group	559,750	275,950	2.5	2.0
Hispanic or Latino	51,750	25,450	4.3	3.8

1/ Based on Census definitions. Persons of mixed race are classified by self-identification.

Source: Hawaii State Department of Labor & Industrial Relations, Labor Force Info for Affirmative Action Programs, "Table 1. Labor Force Information by Sex & Race" (annual)
 <<https://www.hiwi.org/gsipub/index.asp?docid=462>> accessed July 14, 2018.

**Table 12.06-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:
ANNUAL AVERAGE, 1990 TO 2017**

[Data rounded to nearest 50, except percent employed which is rounded to 0.1 percent]

Year	Labor force	Employed	Unemployed	
			Number	Percent
1990	550,900	536,200	14,700	2.7
1991	571,600	555,200	16,400	2.9
1992	584,250	558,950	25,300	4.3
1993	586,400	560,100	26,300	4.5
1994	585,200	552,900	32,300	5.5
1995	586,500	552,000	34,450	5.9
1996	595,600	558,150	37,450	6.3
1997	600,950	563,600	37,350	6.2
1998	601,600	564,950	36,650	6.1
1999	602,900	570,400	32,500	5.4
2000	605,950	580,200	25,750	4.2
2001	610,650	583,200	27,450	4.5
2002	600,900	575,600	25,350	4.2
2003	603,100	578,300	24,800	4.1
2004	610,900	590,150	20,750	3.4
2005	626,900	608,950	17,950	2.9
2006	638,250	621,550	16,700	2.6
2007	638,400	620,550	17,850	2.8
2008	639,700	612,100	27,550	4.3
2009	631,700	586,500	45,150	7.2
2010	647,250	602,300	44,950	6.9
2011	660,250	615,300	44,950	6.8
2012	647,200	608,300	38,900	6.0
2013 1/	651,550	619,700	31,850	4.9
2014 1/	666,650	637,650	29,000	4.4
2015 1/	675,500	651,450	24,050	3.6
2016 1/	684,150	664,050	20,150	2.9
2017 1/	685,400	669,250	16,200	2.4

1/ DLIR benchmarked data in March, 2018. 2013 to 2017 reflect revised population controls and model reestimation. 2013 to 2016 labor force, employed and unemployed, and 2016 unemployment percent revised from previous *Data Book*.

Source: Hawaii State Department of Labor & Industrial Relations, "State of Hawaii Not Seasonally Adjusted Civilian Labor Force"

<https://www.hiwi.org/admin/gsipub/htmlarea/uploads/LFR_LAUS_LF.xls> accessed March 9, 2018.

**Table 12.07-- ALTERNATIVE MEASURES OF LABOR UNDERUTILIZATION
FOR HAWAII AND THE UNITED STATES AVERAGE: 2003 TO 2017**

[In percent. The official concept of unemployment includes all jobless persons who are available to take a job and have actively sought work in the past four weeks. This concept has been thoroughly reviewed and validated since the inception of the Current Population Survey (CPS) in 1940. The other measures are provided to data users and analysts who want more narrowly (U-1 and U-2) or broadly (U-4 through U-6) defined measures. All as a percent of the civilian labor force: U-1, persons unemployed 15 weeks or longer; U-2, job losers and persons who completed temporary jobs; U-3, total unemployed (this is the definition used for the official unemployment rate); U-4, total jobs, unemployed plus discouraged workers, as a percent of the civilian labor force plus discouraged workers; U-5, total unemployed, plus discouraged workers, plus all other marginally attached workers; and U-6, total unemployed, plus all marginally attached workers, plus total employed part time for economic reasons, as a percent of the civilian labor force plus all marginally attached workers]

Year	Unemployment rate					
	U-1	U-2	U-3	U-4	U-5	U-6
Hawaii						
2003	1.4	2.0	4.3	4.5	5.2	8.9
2004	1.0	1.4	3.4	3.6	4.5	7.5
2005	0.9	1.0	2.9	3.1	3.7	6.4
2006	0.7	1.0	2.7	2.8	3.5	6.2
2007	0.8	1.1	2.9	3.0	3.6	6.4
2008	1.1	1.8	4.2	4.4	5.2	8.8
2009	3.5	4.3	7.4	8.0	9.1	15.5
2010	3.9	3.8	7.0	7.9	8.9	16.9
2011	4.5	4.2	7.3	7.8	9.0	15.1
2012	3.3	3.2	6.0	6.4	7.5	12.8
2013	2.4	2.1	4.8	5.5	6.6	11.5
2014	1.9	1.8	4.4	4.7	5.6	10.2
2015	1.5	1.6	3.7	4.1	5.3	9.7
2016	1.1	1.4	3.0	3.4	4.2	7.5
2017	0.7	1.2	2.4	2.7	3.4	6.0
United States						
2003	2.3	3.3	6.0	6.3	7.0	10.1
2004	2.1	2.8	5.5	5.8	6.5	9.6
2005	1.8	2.5	5.1	5.4	6.1	8.9
2006	1.5	2.2	4.6	4.9	5.5	8.2
2007	1.5	2.3	4.6	4.9	5.5	8.3
2008	2.1	3.1	5.8	6.1	6.8	10.5
2009	4.7	5.9	9.3	9.7	10.5	16.2
2010	5.7	6.0	9.6	10.3	11.1	16.7
2011	5.3	5.3	8.9	9.5	10.4	15.9
2012	4.5	4.4	8.1	8.6	9.5	14.7
2013	3.9	3.9	7.4	7.9	8.8	13.8
2014	3.0	3.1	6.2	6.6	7.5	12.0
2015	2.3	2.6	5.3	5.7	6.4	10.4
2016	2.0	2.3	4.9	5.2	5.9	9.6
2017	1.7	2.1	4.4	4.6	5.3	8.5

Source: U. S. Bureau of Labor Statistics, "Alternative Measures of Labor Underutilization for States, 2017 Annual Averages" <<https://www.bls.gov/lau/stalt17q4.htm>> accessed January 26, 2018 and Archived Tables (annual) <http://www.bls.gov/lau/stalt_archived.htm> accessed April 26, 2018.

**Table 12.08-- ALTERNATIVE MEASURES OF LABOR UNDERUTILIZATION
FOR THE 50 STATES AND THE UNITED STATES AVERAGE: 2017**

[In percent. The official concept of unemployment includes all jobless persons who are available to take a job and have actively sought work in the past four weeks. This concept has been thoroughly reviewed and validated since the inception of the Current Population Survey (CPS) in 1940. The other measures are provided to data users and analysts who want more narrowly (U-1 and U-2) or broadly (U-4 through U-6) defined measures. All as a percent of the civilian labor force: U-1, persons unemployed 15 weeks or longer; U-2, job losers and persons who completed temporary jobs; U-3, total unemployed (this is the definition used for the official unemployment rate); U-4, total jobs, unemployed plus discouraged workers, as a percent of the civilian labor force plus discouraged workers; U-5, total unemployed, plus discouraged workers, plus all other marginally attached workers; and U-6, total unemployed, plus all marginally attached workers, plus total employed part time for economic reasons, as a percent of the civilian labor force plus all marginally attached workers]

Year	Unemployment rate					
	U-1	U-2	U-3	U-4	U-5	U-6
United States	1.7	2.1	4.4	4.6	5.3	8.5
Alabama	1.8	2.1	4.3	4.7	5.4	8.2
Alaska	2.9	4.2	7.7	8.4	9.8	13.2
Arizona	1.7	2.0	4.7	5.0	5.8	9.5
Arkansas	1.1	1.8	3.7	3.9	4.6	7.1
California	1.8	2.3	4.8	5.1	5.7	9.8
Colorado	1.0	1.3	2.9	3.1	3.5	6.3
Connecticut	2.1	2.7	4.9	5.3	6.0	10.1
Delaware	2.0	2.3	4.8	5.3	6.0	9.7
District of Columbia	3.4	2.7	6.2	6.5	7.3	9.8
Florida	1.8	1.9	4.1	4.4	5.0	9.1
Georgia	2.2	2.1	4.7	5.1	5.9	8.8
Hawaii	0.7	1.2	2.4	2.7	3.4	6.0
Idaho	0.7	1.2	3.2	3.3	3.8	7.1
Illinois	2.1	2.8	4.9	5.2	5.8	9.2
Indiana	1.1	1.8	3.6	3.8	4.4	7.0
Iowa	1.1	1.6	3.2	3.5	3.8	6.2
Kansas	1.1	1.8	3.6	3.7	4.2	6.9
Kentucky	1.9	2.6	5.2	5.4	6.0	8.8
Louisiana	2.1	2.7	5.1	5.6	6.3	9.7
Maine	0.9	1.5	3.3	3.4	4.0	7.7
Maryland	2.0	2.0	4.2	4.4	5.0	8.0
Massachusetts	1.7	2.1	3.9	4.1	4.9	7.4
Michigan	1.5	2.3	4.7	4.9	5.6	9.1
Minnesota	0.9	2.1	3.4	3.5	3.8	6.5

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**Table 12.08-- ALTERNATIVE MEASURES OF LABOR UNDERUTILIZATION
FOR THE 50 STATES AND THE UNITED STATES AVERAGE: 2017 -- Con.**

Year	Unemployment rate					
	U-1	U-2	U-3	U-4	U-5	U-6
Mississippi	2.2	2.0	5.1	5.5	6.1	9.5
Missouri	1.2	2.2	3.8	4.0	4.7	7.1
Montana	1.3	1.9	4.0	4.3	4.9	8.3
Nebraska	0.8	1.3	2.8	3.0	3.5	6.1
Nevada	1.8	2.7	5.0	5.4	6.3	10.8
New Hampshire	0.9	1.5	2.8	2.9	3.5	6.2
New Jersey	2.2	2.2	4.6	5.0	5.6	9.2
New Mexico	2.4	2.8	6.1	6.4	7.3	11.3
New York	2.0	2.2	4.6	5.0	5.8	8.6
North Carolina	1.8	2.2	4.5	4.8	5.5	8.2
North Dakota	0.7	1.2	2.6	2.7	3.1	5.3
Ohio	1.9	2.4	5.0	5.3	5.9	9.2
Oklahoma	1.6	1.9	4.4	4.6	5.3	7.4
Oregon	1.3	1.9	4.1	4.2	4.7	8.3
Pennsylvania	2.1	2.6	4.8	5.1	6.0	9.4
Rhode Island	1.7	2.7	4.4	4.6	5.0	8.0
South Carolina	1.9	2.0	4.4	4.7	5.4	7.8
South Dakota	1.1	1.7	3.6	3.9	4.5	6.5
Tennessee	1.2	1.6	3.7	4.1	4.7	7.9
Texas	1.6	2.2	4.3	4.6	5.2	8.2
Utah	1.1	1.7	3.4	3.4	4.0	6.9
Vermont	1.0	1.5	3.1	3.3	3.9	6.4
Virginia	1.2	1.6	3.7	4.0	4.6	7.9
Washington	1.6	2.2	4.6	4.9	5.7	9.2
West Virginia	2.1	2.7	5.2	5.6	6.4	10.2
Wisconsin	1.1	1.7	3.2	3.3	3.6	6.5
Wyoming	1.3	2.1	4.3	4.5	4.9	8.1

Source: U. S. Bureau of Labor Statistics, "Alternative Measures of Labor Underutilization in Hawaii – 2017" (April 12, 2018) <https://www.bls.gov/regions/west/news-release/laborunderutilization_hawaii.htm> accessed April 26, 2018.

**Table 12.09-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
BY COUNTY: ANNUAL AVERAGE, 1990 TO 2017**

[Data rounded to nearest 50, except percent employed which is rounded to 0.1 percent]

Year	Honolulu	Hawaii	Kauai	Maui
Civilian labor force				
1990	409,000	58,400	26,150	57,400
1991	418,200	63,600	28,500	61,350
1992	423,850	65,200	29,400	65,800
1993	426,450	65,450	28,450	66,050
1994	424,600	65,600	28,700	66,300
1995	425,450	65,250	28,850	66,950
1996	430,850	67,400	29,100	68,250
1997	432,750	69,400	28,900	69,950
1998	432,450	69,350	29,000	70,800
1999	430,450	70,500	29,350	72,600
2000	430,900	73,900	30,250	70,950
2001	431,950	75,750	30,250	72,650
2002	424,150	75,450	30,000	71,350
2003	424,450	76,750	30,650	71,250
2004	428,000	78,350	31,200	73,400
2005	439,250	80,750	31,900	75,000
2006	444,800	83,850	32,450	77,150
2007	442,500	84,800	32,650	78,450
2008	443,900	84,900	32,650	78,250
2009	439,750	83,900	32,000	76,050
2010	446,200	87,750	34,300	78,950
2011	456,150	88,700	34,900	80,500
2012	448,000	86,100	33,900	79,150
2013 1/ 2/	451,500	86,200	34,000	79,900
2014 1/ 2/	461,750	87,700	34,800	82,450
2015 1/ 2/	467,700	88,700	35,150	83,950
2016 1/ 2/	470,900	91,550	35,850	85,850
2017 1/ 2/	471,350	91,400	36,150	86,550
Civilian employed				
1990	400,200	56,150	25,100	54,750
1991	409,350	60,600	27,300	57,900
1992	411,800	60,200	26,500	60,400
1993	412,700	60,350	24,700	62,450
1994	406,700	59,100	24,950	62,200
1995	405,850	58,600	25,550	62,050
1996	408,400	60,850	25,600	63,350
1997	410,500	62,500	25,700	64,850
1998	409,850	62,850	26,200	66,100
1999	410,000	64,550	27,200	68,600
2000	413,100	70,150	28,750	68,150
2001	413,200	71,750	28,650	69,550
2002	406,700	71,850	28,600	68,450

Continued on next page.

**Table 12.09-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
BY COUNTY: ANNUAL AVERAGE, 1990 TO 2017 -- Con.**

Year	Honolulu	Hawaii	Kauai	Maui
Civilian employed (con.)				
2003	407,550	73,000	29,350	68,450
2004	413,900	75,150	30,100	71,000
2005	427,000	78,000	31,000	72,950
2006	433,500	81,200	31,650	75,250
2007	430,850	81,750	31,800	76,150
2008	426,850	79,800	31,100	74,400
2009	413,200	75,350	28,850	69,100
2010	419,650	79,100	31,300	72,200
2011	429,350	79,950	31,850	74,150
2012	423,900	78,950	31,400	74,100
2013 1/ 2/	431,450	80,400	32,050	75,750
2014 1/ 3/	443,000	82,850	33,100	78,700
2015 1/ 2/	452,100	84,800	33,750	80,800
2016 1/ 2/	457,950	88,200	34,700	83,200
2017 1/	460,800	88,850	35,250	84,350
Unemployed				
1990	8,800	2,250	1,050	2,650
1991	8,850	2,950	1,200	3,400
1992	12,050	5,000	2,900	5,400
1993	13,750	5,100	3,800	3,650
1994	17,900	6,500	3,750	4,150
1995	19,600	6,650	3,300	4,900
1996	22,450	6,600	3,500	4,900
1997	22,250	6,900	3,150	5,100
1998	22,600	6,500	2,800	4,700
1999	20,450	5,900	2,150	4,000
2000	17,750	3,700	1,450	2,800
2001	18,750	4,000	1,600	3,100
2002	17,450	3,600	1,350	2,900
2003	16,900	3,800	1,300	2,850
2004	14,100	3,200	1,100	2,350
2005	12,250	2,800	900	2,050
2006	11,300	2,600	850	1,950
2007	11,650	3,000	900	2,300
2008	17,100	5,100	1,600	3,800
2009	26,550	8,550	3,150	6,950
2010	26,550	8,650	3,000	6,750
2011	26,800	8,700	3,050	6,400
2012	24,150	7,150	2,500	5,100
2013 1/ 2/	20,050	5,750	1,950	4,150
2014 1/ 4/	18,750	4,850	1,700	3,750
2015 1/ 4/	15,600	3,900	1,400	3,100
2016 1/ 2/	13,000	3,350	1,150	2,650
2017 1/	10,550	2,550	850	2,200

Continued on next page.

**Table 12.09-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
BY COUNTY: ANNUAL AVERAGE, 1990 TO 2017 -- Con.**

Year	Honolulu	Hawaii	Kauai	Maui
Percent unemployed				
1990	2.1	3.9	3.9	4.6
1991	2.1	4.6	4.3	5.6
1992	2.8	7.7	9.9	8.2
1993	3.2	7.8	13.3	5.5
1994	4.2	9.9	13.1	6.2
1995	4.6	10.2	11.4	7.3
1996	5.2	9.8	12.0	7.2
1997	5.1	9.9	11.0	7.3
1998	5.2	9.4	9.7	6.6
1999	4.7	8.4	7.4	5.5
2000	4.1	5.0	4.8	3.9
2001	4.3	5.3	5.4	4.3
2002	4.1	4.8	4.6	4.1
2003	4.0	4.9	4.2	4.0
2004	3.3	4.1	3.5	3.2
2005	2.8	3.4	2.8	2.7
2006	2.5	3.1	2.6	2.5
2007	2.6	3.6	2.7	2.9
2008	3.8	6.0	4.8	4.9
2009	6.0	10.2	9.8	9.1
2010	6.0	9.9	8.8	8.5
2011	5.9	9.8	8.7	7.9
2012	5.4	8.3	7.3	6.4
2013 1/ 5/	4.4	6.7	5.7	5.2
2014 1/	4.1	5.5	4.8	4.5
2015 1/ 4/	3.3	4.4	4.0	3.7
2016 1/ 5/	2.8	3.7	3.2	3.1
2017 1/	2.2	2.8	2.4	2.5

1/ DLIR benchmarked data in March, 2018. 2013 to 2017 reflect revised population controls and model reestimation.

2/ Revised from previous *Data Book*.

3/ Honolulu, Hawaii, and Maui revised from previous *Data Book*.

4/ Honolulu revised from previous *Data Book*.

5/ Hawaii, Maui, and Kauai revised from previous *Data Book*.

Source: Hawaii State Department of Labor & Industrial Relations, "Honolulu MSA, Hawaii County, Kauai County and Maui County Not Seasonally Adjusted Civilian Labor Force"

<https://www.hiwi.org/admin/gsipub/htmlarea/uploads/LFR_LAUS_LF.xls> accessed March 9, 2018.

**Table 12.10-- UNEMPLOYMENT INSURANCE BENEFITS AND DURATION
FOR THE UNITED STATES, THE 50 STATES, DISTRICT OF COLUMBIA,
PUERTO RICO AND THE VIRGIN ISLANDS: 2017 4th QUARTER**

Area	State regular benefits paid (\$1,000) 1/	State extended benefits paid (\$1,000) 1/	Average weekly benefit amount (dollars) 2/	Average duration (weeks) 3/	Average benefits per first payment (dollars) 4/
United States	6,604,074	1,619	352.30	15.4	5,249
Alabama	37,369	-	222.03	13.7	3,002
Alaska	26,999	1,607	269.65	18.2	4,844
Arizona	53,720	-	229.58	15.6	3,503
Arkansas	32,605	-	279.18	12.1	3,117
California	1,225,289	2	326.20	17.8	5,654
Colorado	95,205	-	429.38	14.6	6,027
Connecticut	143,616	-	396.99	17.3	6,340
Delaware	15,025	-	263.34	17.6	4,485
District of Columbia	31,334	-	347.34	18.2	6,126
Florida	94,435	3	246.90	9.2	2,235
Georgia	75,199	-	288.53	8.4	2,337
Hawaii	41,512	-	504.40	15.6	7,524
Idaho	18,190	-	318.30	11.0	3,365
Illinois	387,383	1	375.22	17.3	6,454
Indiana	57,487	-	287.21	13.2	3,687
Iowa	74,986	-	393.82	13.4	5,088
Kansas	35,393	-	384.82	11.2	4,173
Kentucky	62,788	-	339.96	18.7	5,943
Louisiana	37,772	-	211.69	16.9	3,574
Maine	14,579	-	319.56	13.3	4,164
Maryland	114,816	-	346.65	19.0	6,347
Massachusetts	316,420	-	518.23	17.2	8,513
Michigan	152,147	-	301.26	12.0	3,568
Minnesota	168,554	-	453.15	16.5	7,174
Mississippi	17,241	-	207.95	14.1	2,833
Missouri	60,837	-	268.62	12.1	3,063
Montana	22,877	-	336.61	15.7	4,899
Nebraska	14,495	-	334.57	12.2	3,919
Nevada	74,577	-	346.94	14.8	4,822
New Hampshire	10,889	1	341.23	12.6	3,994
New Jersey	461,823	-	451.48	18.4	7,752
New Mexico	36,787	-	333.64	17.9	5,854
New York	498,466	1	343.11	16.9	5,434
North Carolina	43,536	-	264.43	9.3	2,355
North Dakota	19,994	-	475.61	13.4	6,419

Continued on next page.

**Table 12.10-- UNEMPLOYMENT INSURANCE BENEFITS AND DURATION
FOR THE UNITED STATES, THE 50 STATES, DISTRICT OF COLUMBIA,
PUERTO RICO AND THE VIRGIN ISLANDS: 2017 4th QUARTER -- Con.**

Area	State regular benefits paid (\$1,000) 1/	State extended benefits paid (\$1,000) 1/	Average weekly benefit amount (dollars) 2/	Average duration (weeks) 3/	Average benefits per first payment (dollars) 4/
Ohio	187,690	2	369.15	14.6	5,236
Oklahoma	59,458	-	362.15	17.2	6,118
Oregon	113,543	-	397.38	15.1	5,682
Pennsylvania	412,376	2	387.11	15.8	5,720
Puerto Rico	46,183	-	118.28	15.3	1,780
Rhode Island	29,058	-	365.82	15.2	5,254
South Carolina	45,070	-	263.21	11.8	3,064
South Dakota	5,161	-	327.80	14.4	4,612
Tennessee	46,548	-	238.51	13.1	3,067
Texas	567,037	-	394.19	15.2	5,820
Utah	33,896	-	392.67	12.6	4,854
Vermont	12,623	-	356.24	13.4	4,423
Virgin Islands	9,039	-	292.55	11.9	3,526
Virginia	75,650	-	313.35	15.5	4,695
Washington	260,118	1	497.33	15.0	7,171
West Virginia	31,027	-	285.40	15.1	4,169
Wisconsin	83,171	-	321.70	13.0	3,754
Wyoming	12,081	-	365.56	15.6	5,819

1/ Regular benefits are the unemployment benefits paid to individuals under a state program, usually the first 26 weeks of benefits, for all weeks compensated including partial payments (ETA 5159). Extended benefits paid is a supplemental program that pays extended compensation during periods of specified high unemployment in a state to individuals for weeks of unemployment after exhaustion of regular UI benefits. One-half of extended benefits is funded by the state trust fund (ETA 5159).

2/ Benefits paid for total unemployment divided by weeks compensated for total unemployment (ETA 5159).

3/ The number of weeks compensated for the year divided by the number of first payments (ETA 5159).

4/ Benefits aid for all weeks compensated divided by the number of first payments.

Source: U.S. Department of Labor, Employment and Training Administration (ETA), "Unemployment Insurance Data Summary, Benefits and Duration Data, 4th Quarter 2017"

<<http://www.ows.doleta.gov/unemploy/content/data.asp>> accessed April 17, 2018.

**Table 12.11-- CHARACTERISTICS OF THE INSURED UNEMPLOYED:
ANNUAL AVERAGE, 2017**

[As percent of total. Includes all eligible claimants who filed new claims for unemployment insurance benefits during the year. Includes both intrastate and interstate agent claimants]

Characteristic	Percent	Characteristic	Percent
Total	100.0	Industry - Con.	
Age		Public administration 1/ Information not available	0.0 10.3
Under 22 years	1.5	Occupation	
22 to 24 years	3.9	Management	7.1
25 to 34 years	22.8	Business/financial operations	2.6
35 to 44 years	23.1	Computer/mathematical	1.2
45 to 54 years	23.1	Architecture/engineering	0.7
55 to 64 years	19.5	Life/physical/social science	0.6
65 years and over	6.1	Community/social services	1.2
Sex		Legal	0.4
Male	70.3	Education/training/library	1.7
Female	29.7	Arts/entertainment/sports	2.8
Duration		Healthcare practitioner/technical	1.3
1 to 4 weeks	41.0	Healthcare support	1.2
5 to 14 weeks	37.0	Protective service	0.7
15 weeks and over	22.1	Food preparation/serving	6.0
Industry		Building/grounds maintenance	2.1
Government - state	2.6	Personal care/service	1.3
Government - county	0.6	Sales related	4.3
Agriculture/forestry/fishing	2.6	Office/administrative support	8.4
Mining 1/	0.0	Farming/fishing/forestry	1.6
Utilities	0.2	Construction/extraction	39.7
Construction	38.3	Installation/maintenance/repair	3.7
Manufacturing	2.1	Production	1.9
Wholesale trade	1.4	Transportation/material moving	3.9
Retail trade	4.3	Information not available	5.4
Transportation/warehousing	3.7	Race	
Information	2.2	American Indian	0.7
Finance/insurance	0.9	Chinese	2.4
Real estate/rental/leasing	1.3	Filipino	19.1
Professional/technical services	3.1	Japanese	7.4
Management of companies	0.7	Other Asians	2.4
Administrative/waste services	10.7	Black	1.7
Educational services	0.7	Hawaiian	25.8
Health care/social assistance	4.5	Other Pacific Islander	6.4
Arts/entertainment/recreation	0.9	White & Latino	21.2
Accommodation/food services	7.3	Others	13.0
Other services	1.8	Information not available	0.0

1/ An industry may have claimants in one or more months in 2017 and yet round to 0.0 percent of total, e.g. 'Mining' ranges between 0 and 2 claimants over the 12 months for an average of 0 and 0.0 percent and 'Public administration' ranges between 0 and 3 claimants over the 12 months for an average of 2 and 0.0 percent.

Source: Hawaii State Department of Labor & Industrial Relations "Characteristics of the Insured Unemployed in Hawaii - 2017" <<http://labor.hawaii.gov/rs/files/2018/02/CIUpub2017-final.pdf>> accessed July 5, 2018.

**Table 12.12-- WAGE AND SALARY JOBCOUNT: ANNUAL AVERAGE,
1990 TO 2017**

[Persons holding more than one job are counted in each position. As a result, these data differ from corresponding estimates of employment, reported elsewhere in this section. Agriculture jobs are included but Active-duty armed forces are excluded, unless also employed in civilian jobs. Persons not working because of labor disputes are included. Data for the component nonagriculture jobs are rounded to nearest 100 for 1990-2000 and 2010-2016, and to 50 for 2001-2009. Totals may not add due to rounding. Data for Hawaii and Kauai counties are not U.S. Bureau of Labor Statistics-supported]

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1990	537,950	413,000	49,000	25,250	50,850
1991	548,650	417,750	51,650	26,350	52,850
1992	552,100	420,200	51,400	25,700	54,900
1993	547,350	416,900	50,900	23,450	56,200
1994	544,100	413,700	50,250	23,950	56,350
1995	540,200	410,250	49,550	24,450	56,000
1996	538,100	406,750	50,750	24,150	56,250
1997	538,800	405,550	51,850	24,200	57,150
1998	538,850	403,100	52,400	24,700	58,500
1999	542,700	403,600	53,350	25,500	60,250
2000	559,300	414,200	56,000	26,550	62,450
2001	562,350	414,750	57,350	26,300	63,950
2002	563,950	414,800	58,350	26,750	64,000
2003	574,750	421,800	60,100	27,800	64,900
2004	590,650	431,900	62,400	28,750	67,600
2005	608,600	444,650	64,700	29,550	69,700
2006	624,000	453,650	67,750	30,350	72,250
2007	631,350	456,950	69,250	31,050	74,100
2008	625,350	454,300	67,900	30,450	72,700
2009	597,650	438,700	63,700	28,100	67,150
2010	593,200	436,050	63,050	28,150	66,050
2011	600,400	441,400	63,350	28,300	67,300
2012 1/	612,800	(NA)	(NA)	(NA)	(NA)
2013 1/	625,100	(NA)	(NA)	(NA)	(NA)
2014 1/ 2/	634,000	(NA)	(NA)	(NA)	(NA)
2015 1/ 2/ 3/	644,100	(NA)	(NA)	(NA)	(NA)
2016 1/ 2/	652,100	(NA)	(NA)	(NA)	(NA)
2017 1/ 2/	658,700	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ DLIR discontinued estimates of Agriculture jobs in December 2011. DBEDT preliminary estimates are based on National Agricultural Statistics Service survey data.

2/ Data were benchmarked by the Department of Labor & Industrial Relations (DLIR) in March 2018.

3/ State total revised from previous *Data Book*.

Source: Hawaii State Department of Labor and Industrial Relations, Job Count by Industry - Not Seasonally Adjusted Data, Historical Series <<http://www.hiwi.org/gsipub/index.asp?docid=421>> accessed March 9, 2018; and National Agricultural Statistics Service, Quick Stats - Query Database by Commodity, State, and Year <<http://quickstats.nass.usda.gov/>> accessed July 15, 2018. See also Hawaii State Department of Business, Economic Development & Tourism, *Quarterly Statistical & Economic Report, 2nd Quarter 2018* <http://files.hawaii.gov/dbedt/economic/data_reports/qser/archive-qser/qser-2018q2.pdf> accessed July 15, 2018.

**Table 12.13-- JOBCOUNT, BY NAICS INDUSTRY: ANNUAL AVERAGE,
2013 TO 2017**

[Data rounded to nearest 100. Totals may not add due to rounding or residual categories. Data are according to the North American Industry Classification System]

Industry	2013	2014 1/	2015 1/	2016 1/	2017 1/
Total wage & salary 2/ 3/	625,100	634,000	644,100	652,100	658,700
Nonagriculture, wage & salary 3/	618,600	627,000	637,600	646,100	652,700
Natural resources, mining, constr. 4/	31,000	32,100	35,000	38,000	36,400
Manufacturing 4/	13,600	13,900	14,100	14,200	14,200
Durable goods 4/	3,600	3,600	3,700	3,800	3,900
Non-durable goods 4/	10,000	10,300	10,400	10,400	10,300
Trade, transportation & utilities 4/	116,900	117,700	119,600	120,300	121,300
Wholesale trade	17,700	17,700	18,000	17,900	17,900
Retail trade 4/	69,700	69,900	70,800	70,700	70,700
Transportation, warehousing & util. 4/	29,500	30,100	30,900	31,700	32,700
Utilities	3,800	3,800	3,800	3,800	3,800
Transportation & warehousing 4/	25,800	26,300	27,100	28,000	29,000
Air transportation	8,300	8,600	8,700	9,000	9,600
Information	8,800	8,500	8,700	8,800	9,200
Telecommunications	3,800	3,900	4,000	4,000	3,900
Financial activities	27,200	27,600	28,100	28,500	28,500
Finance & insurance	15,300	15,600	16,100	16,100	16,100
Real estate, rental, leasing 4/	11,800	12,000	12,000	12,400	12,400
Professional & business services 3/	79,900	82,100	82,500	81,800	82,000
Education & health services 4/	78,900	79,000	81,700	82,700	84,300
Education services 4/	14,900	14,100	14,700	14,300	14,100
Health care & social assistance 4/	64,100	64,900	67,000	68,500	70,200
Ambulatory health care services 4/	25,500	26,400	27,300	27,800	28,800
Hospitals	14,700	14,900	15,500	15,800	16,400
Nursing & residential care facilities	7,900	8,000	8,200	8,500	8,500
Social assistance	16,000	15,700	16,000	16,300	16,500
Individual & Family Services	9,300	9,100	9,400	9,800	10,000
Leisure and hospitality 4/	111,200	113,300	114,700	118,500	123,400
Arts, entertainment & recreation 4/ 5/	12,000	12,000	11,700	12,100	12,600
Accommodation & food services 4/	99,300	101,300	102,900	106,400	110,800
Accommodation 4/	38,600	39,200	39,200	40,300	41,600
Food services and drinking places	60,700	62,000	63,700	66,100	69,300
Full-Service Restaurants 4/	33,300	34,200	35,000	36,700	38,800
Other services 4/	26,600	26,600	26,800	27,300	27,700
Government 6/	124,500	126,200	126,400	126,000	125,600
Federal	33,900	33,200	33,100	33,200	33,400
Department of Defense	18,300	17,900	18,100	(7/)	(7/)
State 4/	71,900	74,200	74,500	73,900	73,200
Education (DOE & UH)	47,700	49,400	50,100	49,700	50,100
Local	18,700	18,800	18,900	19,000	19,000
Agriculture 4/	6,500	7,000	6,500	6,000	6,000

Continued on next page.

**Table 12.13-- JOBCOUNT, BY NAICS INDUSTRY: ANNUAL AVERAGE,
2013 TO 2017 -- Con.**

1/ DLIR benchmarked data in March 2018.

2/ DLIR discontinued estimates in December 2011. DBEDT preliminary estimates are based on National Agricultural Statistics Service, Hawaii Field Office (NASS- HFO)

<http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Archive/> accessed May 23, 2018.

3/ 2014 to 2016 revised from previous *Data Book*.

4/ 2016 revised from previous *Data Book*.

5/ DLIR no longer provides county detail. DBEDT estimates as residual.

6/ 2014 and 2016 revised from previous *Data Book*.

7/ DLIR discontinued estimates after March 2016.

Source: Hawaii State Department of Labor and Industrial Relations, Job Count by Industry - Not Seasonally Adjusted Data, Historical Series <<http://www.hiwi.org/gsipub/index.asp?docid=421>> accessed March 9, 2018; and National Agricultural Statistics Service, Quick Stats - Query Database by Commodity, State, and Year <<http://quickstats.nass.usda.gov/>> accessed May 23, 2018. See also Hawaii State Department of Business, Economic Development & Tourism, *Quarterly Statistical & Economic Report, 2nd Quarter 2018* <http://files.hawaii.gov/dbedt/economic/data_reports/qser/archive-qser/qser-2018q2.pdf>.

Table 12.14-- EMPLOYMENT BY NAICS INDUSTRY: 2015 AND 2016

[Based on the North American Industry Classification System. Economic characteristics not available from the Census 2010]

Industry	2015		2016	
	Number	Percent	Number	Percent
Employed civilian population 16 years and over	675,214	100.0	686,487	100.0
Agriculture, forestry, fishing and hunting, and mining	9,644	1.4	7,184	1.0
Construction	53,542	7.9	53,680	7.8
Manufacturing	20,047	3.0	19,485	2.8
Wholesale trade	17,492	2.6	15,226	2.2
Retail trade	77,536	11.5	78,828	11.5
Transportation and warehousing, and utilities	38,761	5.7	39,515	5.8
Information	11,272	1.7	9,785	1.4
Finance, insurance, real estate, & rental & leasing	46,133	6.8	48,421	7.1
Professional, scientific, management, administrative, and waste management services	67,106	9.9	71,587	10.4
Educational, health and social services	132,463	19.6	137,878	20.1
Arts, entertainment, recreation, accommodation and food services	107,685	15.9	114,263	16.6
Other services (except public administration)	32,454	4.8	29,509	4.3
Public administration	61,079	9.0	61,126	8.9

Source: U.S. Census Bureau, American Community Survey 1-Year Estimates, "DP-03 Selected Economic Characteristics: Hawaii" (annual)
 <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed October 20, 2017.

Table 12.15-- EMPLOYMENT BY THE 25 LARGEST PRIVATE EMPLOYERS: 2017

[As of December 31, unless otherwise indicated]

Rank	Employer	Employees
1	The Queen's Health Systems	7,187
2	Hawaii Pacific Health	6,961
3	Hawaii Health Systems Corp.	1/ 4,133
4	Kyo-ya Hotels & Resorts	3,638
5	Hawaiian Electric Co. Inc.	2,745
6	Securitas Security Services USA Inc.	2,484
7	Kaiser Foundation Health Plan	2,383
8	First Hawaiian Bank	2,300
9	Kamehameha Schools	2,183
9	Aqua-Aston Hospitality	2,183
11	Bank of Hawaii Corp.	2,132
12	Servco Pacific Inc.	2,005
13	Oahu Transit Services Inc.	1,990
14	Matson Inc.	1,947
15	Hawaii Medical Service Association	1,903
16	Aulani, A Disney Resort & Spa	1,800
17	Spectrum	1,400
18	Four Seasons Resort Hualalai	1,300
19	Hawaiian Telcom	1,200
20	American Savings Bank	1,135
21	Adventist Health Castle	1,103
22	Kuakini Health System	1,010
23	Hawaiian Dredging Construction Co. Inc.	963
24	Four Seasons Resort Maui at Wailea	950
25	Halekulani Corp.	918

1/ For FY 2017.

Source: *Pacific Business News*, "The List Employers - Statewide, Ranked by Number of Employees as of December 31, 2017" (July 6, 2018), page 24 <<https://www.bizjournals.com/pacific/datacenter/lists>> accessed July 6, 2018.

**Table 12.16-- JOBCOUNT BY NAICS INDUSTRY, BY COUNTY:
ANNUAL AVERAGE, 2017**

[Data rounded to nearest 100. Totals may not add due to rounding or residual categories. Data are according to the North American Industry Classification System]

Industry	State total	City & Cty of Honolulu	Hawaii County	Kauai County	Maui County
Total wage & salary 1/	658,700	(1/)	(1/)	(1/)	(1/)
Nonagriculture, wage & salary	652,700	476,500	68,200	31,100	76,400
Natural resources, mining, construction	36,400	26,800	3,800	1,800	4,000
Manufacturing	14,200	11,400	1,300	500	1,000
Durable goods	3,900	3,100	300	100	400
Non-durable goods	10,300	8,300	1,000	400	600
Trade, transportation & utilities	121,300	85,100	14,400	6,000	15,500
Wholesale trade	17,900	14,100	1,700	500	1,500
Retail trade	70,700	47,500	9,300	4,000	9,700
Transportation, warehousing & util.	32,700	23,500	3,400	1,500	4,300
Utilities	3,800	(NA)	(NA)	(NA)	(NA)
Transportation & warehousing	29,000	20,900	(NA)	(NA)	(NA)
Air transportation	9,600	7,900	700	300	700
Information	9,200	7,800	600	200	600
Telecommunications	3,900	3,200	400	(2/)	(NA)
Financial activities	28,500	21,800	2,600	1,100	3,000
Finance & insurance	16,100	13,600	1,300	400	900
Real estate, rental, leasing	12,400	8,300	(NA)	(NA)	(NA)
Professional & business services	82,000	64,800	6,700	3,000	7,400
Education & health services	84,300	64,900	8,900	2,900	7,800
Education services	14,100	11,500	1,300	200	1,100
Health care & social assistance	70,200	53,400	7,600	2,700	6,700
Ambulatory health care services	28,800	21,200	(NA)	(NA)	(NA)
Hospitals	16,400	14,700	(NA)	(NA)	(NA)
Nursing & residential care facilities	8,500	(NA)	(NA)	(NA)	(NA)
Social assistance	16,500	(NA)	(NA)	(NA)	(NA)
Individual & family services	10,000	(NA)	(NA)	(NA)	(NA)
Leisure and hospitality	123,400	74,000	14,600	10,000	24,800
Arts, entertainment & recreation 3/	12,600	7,500	1,400	1,200	2,400
Accommodation & food services	110,800	66,500	13,200	8,800	22,400
Accommodation	41,600	18,700	6,300	4,400	12,200
Food services and drinking places	69,300	47,800	6,900	4,400	10,100
Full-service restaurants	38,800	24,600	4,100	3,100	6,900
Other services	27,700	21,300	2,200	1,000	3,200
Government	125,600	98,700	13,100	4,600	9,100
Federal	33,400	30,700	1,300	500	900
Department of Defense	(4/)	(4/)	(4/)	(4/)	(4/)
State	73,200	55,700	9,100	2,800	5,600
Education (DOE & UH)	50,100	39,400	5,700	1,700	3,400
Local	19,000	12,300	2,700	1,300	2,700
Agriculture 1/	6,000	(1/)	(1/)	(1/)	(1/)

Continued on next page.

**Table 12.16-- JOBCOUNT BY NAICS INDUSTRY, BY COUNTY:
ANNUAL AVERAGE, 2017 -- Con.**

NA Not available.

1/ DLIR discontinued estimates of Agriculture jobs in December 2011. DBEDT preliminary estimates are based on National Agricultural Statistics Service survey data.

2/ Fewer than 100.

3/ DLIR no longer provides Hawaii, Kauai, and Maui county detail. DBEDT calculates as residual.

4/ DLIR discontinued estimates after March 2016.

Source: Hawaii State Department of Labor and Industrial Relations, Job Count by Industry - Not Seasonally Adjusted Data, Historical Series 2010-2017 <<http://www.hiwi.org/gsipub/index.asp?docid=421>> accessed March 9, 2018; National Agricultural Statistics Service, Quick Stats - Query Database by Commodity, State, and Year <<http://quickstats.nass.usda.gov/>> accessed July 15, 2018. See also Hawaii State Department of Business, Economic Development & Tourism, *Quarterly Statistical & Economic Report, 2nd Quarter 2018* <http://files.hawaii.gov/dbedt/economic/data_reports/qser/archive-qser/qser-2018q2.pdf>.

Table 12.17-- OCCUPATION: 2015 AND 2016

Occupation	2015		2016	
	Number	Percent	Number	Percent
Civilian employed population 16 years and over	675,214	100.0	686,487	100.0
Management, business, science, and arts	227,193	33.6	230,324	33.6
Service	154,624	22.9	159,197	23.2
Sales and office	167,514	24.8	168,812	24.6
Natural resources, construction, and maintenance	68,540	10.2	67,154	9.8
Production, transportation, and material moving	57,343	8.5	61,000	8.9

Source: U.S. Census Bureau, American Community Survey 1-Year Estimates, "DP-03 Selected Economic Characteristics: Hawaii" (annual)
<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t> accessed October 20, 2017.

**Table 12.18-- CIVILIAN JOBS PROJECTIONS, BY SECTOR AND
BY TYPE, BY COUNTY: 2016 TO 2045**

[See Section 1 for population and Section 13 for gross domestic product and personal income
projections from the same source]

Year 1/	Total civilian jobs	By sector		By type	
		Private 2/	Government	Wage and salary	Self-employed
State total					
2016	857,951	730,929	127,022	666,998	190,953
2020	891,950	762,170	129,780	687,640	204,310
2025	932,060	799,430	132,630	711,650	220,410
2030	970,520	835,430	135,090	733,990	236,530
2035	1,004,490	867,130	137,360	752,690	251,800
2040	1,035,340	896,250	139,090	768,740	266,600
2045	1,066,030	925,260	140,770	784,360	281,670
Hawaii					
2016	102,540	89,350	13,190	70,800	31,740
2020	108,790	94,990	13,800	74,280	34,510
2025	116,600	102,050	14,550	78,630	37,970
2030	124,560	109,270	15,290	83,020	41,540
2035	132,260	116,200	16,060	87,180	45,080
2040	139,870	123,060	16,810	91,260	48,610
2045	147,710	130,110	17,600	95,460	52,250
Honolulu					
2016	604,300	505,100	99,200	487,120	117,180
2020	624,800	524,000	100,800	499,980	124,820
2025	648,270	545,980	102,290	514,420	133,850
2030	669,980	566,570	103,410	527,270	142,710
2035	688,030	583,700	104,330	537,160	150,870
2040	703,350	598,570	104,780	544,780	158,570
2045	717,990	612,860	105,130	551,750	166,240

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**Table 12.18-- CIVILIAN JOBS PROJECTIONS, BY SECTOR AND
BY TYPE, BY COUNTY: 2016 TO 2045 -- Con.**

Year 1/	Total civilian jobs	By sector		By type	
		Private 2/	Government	Wage and salary	Self-employed
Kauai					
2016	44,430	39,740	4,690	31,690	12,740
2020	46,430	41,580	4,850	32,820	13,610
2025	48,860	43,830	5,030	34,200	14,660
2030	51,300	46,100	5,200	35,550	15,750
2035	53,600	48,230	5,370	36,780	16,820
2040	55,850	50,330	5,520	37,940	17,910
2045	58,210	52,540	5,670	39,150	19,060
Maui					
2016	106,680	96,730	9,950	77,400	29,280
2020	111,930	101,610	10,320	80,550	31,380
2025	118,330	107,570	10,760	84,390	33,940
2030	124,670	113,490	11,180	88,150	36,520
2035	130,590	118,990	11,600	91,560	39,030
2040	136,270	124,290	11,980	94,750	41,520
2045	142,120	129,750	12,370	98,000	44,120

1/ Actual 2016 State data from the U.S. Bureau of Economic Analysis (BEA). DBEDT estimate for counties. Projected values for 2020 to 2045 rounded to the nearest ten.

2/ Calculated here as 'Total civilian jobs' less 'Government'.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2045* (June 2018), Appendix Tables A-34 to A-48 <<http://dbedt.hawaii.gov/economic/economic-forecast/2045-long-range-forecast/>> accessed June 28, 2018.

**Table 12.19-- CIVILIAN JOBS PROJECTIONS, BY NAICS INDUSTRY:
2016 TO 2045**

[See Section 1 for population and Section 13 for gross domestic product and personal income projections from the same source. Based on the North American Industry Classification System (NAICS). Actual 2016 data from the U.S. Bureau of Economic Analysis (BEA). Projected values rounded to nearest ten]

Industry	2016	2020	2025	2030	2035	2040	2045
Total civilian jobs	857,951	891,950	932,060	970,520	1,004,490	1,035,340	1,066,030
Agriculture	15,865	15,880	15,970	16,130	16,210	16,360	16,480
Mining and construction	50,449	53,510	56,480	59,160	60,590	61,760	62,710
Food processing	7,337	7,360	7,410	7,490	7,530	7,570	7,610
Other manufacturing	11,135	11,160	11,180	11,280	11,300	11,330	11,350
Transportation	34,698	36,060	37,510	38,880	40,070	41,060	42,070
Information	10,791	10,840	10,930	11,130	11,270	11,570	11,870
Utilities	4,361	4,630	4,940	5,190	5,430	5,590	5,740
Wholesale trade	24,930	25,460	26,070	26,780	27,260	27,780	28,250
Retail trade	90,212	91,970	94,210	96,320	97,720	99,310	100,780
Finance and insurance	28,934	29,600	30,420	31,180	31,780	32,270	32,710
Real estate and rental	42,907	45,050	47,300	49,310	51,120	52,680	54,200
Professional services	47,679	50,620	54,190	57,780	60,870	63,550	66,220
Business services	72,929	77,860	83,830	89,280	94,560	98,800	103,150
Educational services	21,622	23,020	24,780	26,520	28,240	29,820	31,440
Health services	81,779	86,440	92,490	98,880	105,210	111,960	118,890
Arts and entertainment	22,677	23,600	24,730	25,670	26,560	27,280	28,030
Accommodation	41,815	42,570	43,420	44,350	45,110	45,810	46,550
Eating and drinking	70,321	74,050	78,670	83,110	87,440	91,240	95,150
Other services	50,488	52,480	54,900	56,990	58,870	60,490	62,060
Government	127,022	129,780	132,630	135,090	137,360	139,090	140,770

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2045* (June 2018), Appendix "Table A-34. Hawaii State Civilian Total Jobs by Sector, 2016-2045" <<http://dbedt.hawaii.gov/economic/economic-forecast/2045-long-range-forecast/>> accessed June 28, 2018.

Table 12.20-- EMPLOYMENT BY CLASS OF WORKER: 1940 TO 2016

[Persons 14 years and over through 1960; 16 years and over thereafter]

Year	All employed civilians	Private wage and salary workers	Government workers	Self-employed workers 1/	Unpaid family workers
1940	153,796	113,551	18,553	15,967	5,725
1950	167,571	111,036	34,400	19,192	2,943
1960	209,370	144,602	46,078	17,009	1,681
1970	285,556	200,912	70,547	12,832	1,265
1980	415,181	300,315	90,401	22,965	1,500
1990	529,059	385,061	107,777	34,291	1,930
2000	537,909	381,606	112,999	41,109	2,195
2010	638,191	446,836	140,358	50,997	
2011	629,523	427,447	135,118	66,958	
2012	648,504	447,454	132,852	68,198	
2013	643,571	462,020	135,462	46,089	
2014	664,180	482,208	134,009	47,963	
2015	675,214	491,449	134,419	49,346	
2016	686,487	502,154	136,256	48,077	

1/ In own not incorporated business.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii*, Final Report PC (1)-13C (February 1962), table 56; *1970 Census of Population, General Social and Economic Characteristics, Hawaii*, PC(1)-C13 (December 1971), table 56; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), table 67; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 27; Census 2000, Table DP-3. Profile of Selected Economic Characteristics: 2000, Geographic area: Hawaii <<http://www.hawaii.gov/dbedt/census2k/profile-state/04015.pdf>> accessed July 23, 2004; Ibid, American Community Survey 1-Year Estimates - Hawaii "S2408: Class of Worker By Sex and Median Earnings in the Past 12 Months (in Inflation-Adjusted Dollars) for the Civilian Employed Population 16 Years and Over" (annual, 2010 to 2014) and "S2408: Class of Worker By Sex for the Civilian Employed Population 16 Years and Over" (annual from 2015) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed January 11, 2018.

Table 12.21-- FULL- AND PART-TIME EMPLOYMENT, BY TYPE AND BY STATUS: 1969 TO 2016

[In number of jobs, full-time plus part-time, by place of work. Full-time and part-time jobs are counted at equal weight. Employees, sole proprietors, and active partners are included, but unpaid family workers and volunteers are excluded. Proprietors employment consists of the number of sole proprietorships and the number of partners in partnerships. The estimates of employment for 1969 to 1974 are based on the 1967 Standard Industrial Classification (SIC), for 1975 to 1987 on the 1972 SIC, and for 1988 to 1997 on the 1987 SIC. Estimates of employment for 1998 to 2006 are based on the 2002 North American Industry Classification System (NAICS), for 2007 to 2010 on the 2007 NAICS, and for 2011 forward on the 2012 NAICS]

Year	Total	By type		By status	
		Wage and salary	Proprietors	Civilian	Military 1/
1969	415,912	368,900	47,012	346,309	69,603
1970	433,555	385,181	48,374	364,606	68,949
1971	436,830	389,108	47,722	371,244	65,586
1972	452,960	400,094	52,866	386,610	66,350
1973	473,087	418,518	54,569	402,547	70,540
1974	485,226	425,912	59,314	414,330	70,896
1975	499,203	434,443	64,760	427,061	72,142
1976	504,799	440,767	64,032	435,629	69,170
1977	509,265	448,947	60,318	442,869	66,396
1978	527,519	469,403	58,116	461,103	66,416
1979	556,339	488,281	68,058	491,235	65,104
1980	574,555	498,755	75,800	508,098	66,457
1981	567,762	496,535	71,227	504,818	62,944
1982	566,510	491,843	74,667	503,882	62,628
1983	576,830	501,857	74,973	510,967	65,863
1984	582,402	508,739	73,663	513,996	68,406
1985	597,946	521,605	76,341	529,042	68,904
1986	611,862	531,289	80,573	544,171	67,691
1987	642,686	554,533	88,153	573,624	69,062
1988	668,691	570,377	98,314	599,878	68,813
1989	696,362	597,113	99,249	627,892	68,470
1990	724,262	618,833	105,429	657,037	67,225
1991	745,447	629,443	116,004	677,963	67,484
1992	746,137	634,001	112,136	680,420	65,717
1993	741,780	625,580	116,200	678,710	63,070
1994	736,771	618,941	117,830	675,553	61,218
1995	734,039	611,684	122,355	675,401	58,638
1996	733,396	607,850	125,546	676,955	56,441
1997	733,761	607,070	126,691	678,309	55,452

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**Table 12.21-- FULL- AND PART-TIME EMPLOYMENT, BY TYPE AND
BY STATUS: 1969 TO 2016 -- Con.**

Year	Total	By type		By status	
		Wage and salary	Proprietors	Civilian	Military 1/
1998	737,524	606,429	131,095	682,665	54,859
1999	737,047	607,879	129,168	683,968	53,079
2000	750,083	624,169	125,914	697,587	52,496
2001	752,541	628,021	124,520	698,889	53,652
2002	757,924	631,241	126,683	705,005	52,919
2003	774,025	642,743	131,282	721,234	52,791
2004	798,107	658,782	139,325	744,349	53,758
2005	821,021	675,167	145,854	768,002	53,019
2006	843,697	691,638	152,059	789,334	54,363
2007	866,359	700,035	166,324	811,844	54,515
2008	860,560	695,147	165,413	804,513	56,047
2009	832,955	667,763	165,192	777,292	55,663
2010	825,113	661,830	163,283	768,876	56,237
2011	835,934	669,911	166,023	778,847	57,087
2012	849,585	681,247	168,338	792,129	57,456
2013	868,479	693,899	174,580	811,117	57,362
2014 2/	883,310	703,475	179,835	826,040	57,270
2015 2/	901,694	715,730	185,964	843,407	58,287
2016	914,407	723,454	190,953	857,951	56,456

1/ Includes active duty military personnel that are stationed in the state plus the number of military reserve unit members. Navy personnel assigned to ships and other mobile units and Marines assigned to Fleet Marine Force units are measured according to the units' home ports rather than their actual locations as of the reporting date. The measure of employment of the military reserves, including the National Guard, is confined to members of reserve units that meet regularly for training. The state estimates are based on fiscal year-ending September 30-tabulations of military reserve strength provided by the Department of Defense. See also *State Personal Income and Employment: Concepts, Data Sources, and Statistical Methods* (September 2017) <<https://www.bea.gov/regional/pdf/spi2016.pdf>>.

2/ 2014 'Total', 'Wage and salary', 'Proprietors' and 'Civilian', and 2015 revised from previous *Data Book*.

Source: U.S. Bureau of Economic Analysis, State Annual Personal Income, "SA25 Total Full-Time and Part-Time Employment by SIC Industry" and "SA25N Total Full-Time and Part-Time Employment by NAICS Industry" (September 26, 2017) <<http://www.bea.gov/iTable/iTable.cfm?reqid=70&step=1>> accessed September 26, 2017 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 12.22-- CIVILIAN EMPLOYMENT, FULL- AND PART-TIME:
ANNUAL AVERAGE, 2013 TO 2015**

[Number in thousands]

Year and population group	Total	Men	Women	16 to 19 years (both sexes)
2013				
Full- and part-time	614	326	288	15
Full-time total	504	277	227	5
Full-time not at work	16	7	9	(1/)
Part-time total	110	49	61	10
Economic reasons	26	14	12	3
Non- economic reasons	78	33	45	7
Not at work	6	2	4	(1/)
2014				
Full- and part-time	642	338	304	18
Full-time total	526	287	239	7
Full-time not at work	17	8	9	(1/)
Part-time total	116	51	65	11
Economic reasons	27	14	13	2
Non- economic reasons	83	34	49	8
Not at work	6	3	4	1
2015				
Full- and part-time	653	341	312	21
Full-time total	528	290	238	7
Full-time not at work	16	7	9	(1/)
Part-time total	125	51	74	14
Economic reasons	26	13	12	2
Non- economic reasons	94	35	59	11
Not at work	6	3	3	1

1/ Fewer than 500 persons.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment* "Table 16. Employed and unemployed persons by full- and part-time status, gender, age, race, and Hispanic or Latino ethnicity, annual averages" 2012 <http://www.bls.gov/opub/gp/pdf/gp12_16.pdf> accessed October 22, 2013; 2013 <http://www.bls.gov/opub/gp/pdf/gp13_16.pdf> accessed January 8, 2015; 2014 <http://www.bls.gov/opub/gp/pdf/gp14_16.pdf> accessed October 27, 2015; and 2015 <<https://www.bls.gov/opub/geographic-profile/home.htm>> accessed July 14, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 12.23-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX:
ANNUAL AVERAGE, 2014 AND 2015**

Occupation	Both sexes	Men	Women
2014			
All occupations (in thousands)	642	338	304
Percent	100.0	100.0	100.0
Management, professional, and related	33.7	31.1	36.6
Management, business, and financial operations	13.8	14.1	13.4
Professional and related	19.9	17.0	23.2
Service	23.1	22.8	23.5
Sales and office	24.7	16.0	34.4
Sales and related	11.7	9.3	14.4
Office and administrative support	13.0	6.7	20.0
Natural resources, construction, and maintenance	8.9	16.1	0.8
Farming, fishing, and forestry	0.8	1.2	0.3
Construction and extraction	4.9	9.2	0.1
Installation, maintenance, and repair	3.2	5.7	0.4
Production, transportation, and material moving	9.6	14.0	4.6
Production	3.3	4.3	2.1
Transportation and material moving	6.3	9.7	2.5
2015			
All occupations (in thousands)	653	341	312
Percent	100.0	100.0	100.0
Management, professional, and related	33.3	30.7	36.2
Management, business, and financial operations	13.1	12.8	13.4
Professional and related	20.2	17.9	22.8
Service	23.2	24.9	21.2
Sales and office	25.1	15.1	35.9
Sales and related	11.9	9.1	14.9
Office and administrative support	13.2	6.0	21.0
Natural resources, construction, and maintenance	8.9	15.9	1.6
Farming, fishing, and forestry	0.7	0.9	0.6
Construction and extraction	5.4	10.0	0.5
Installation, maintenance, and repair	2.8	5.0	0.5
Production, transportation, and material moving	9.5	13.4	5.2
Production	3.1	3.5	2.6
Transportation and material moving	6.4	9.9	2.6

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 2014*, (Bulletin 2873, September 2015) "Table 18 Percent distribution of employed persons, by occupation, sex, race, and Hispanic or Latino ethnicity and marital status" <http://www.bls.gov/opub/gp/pdf/gp12_18.pdf> accessed February 29, 2016; Ibid. *2015* (May 24, 2018) <<https://www.bls.gov/opub/geographic-profile/2015/home.htm>> accessed July 16, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 12.24-- MULTIPLE JOBHOLDERS, NUMBERS AND PERCENT OF EMPLOYED FOR HAWAII AND PERCENT OF EMPLOYED FOR THE UNITED STATES: ANNUAL AVERAGE, 2000 TO 2015

Year	Hawaii				United States
	Employed, 16 years & over 1/ 2/	Multiple jobholders			Multiple jobholders as percent of employed
		Number 1/	Percent of employed	Rank 3/	
2000	580,200	54,000	9.3	4	5.6
2001	583,200	57,200	9.8	3	5.4
2002	575,600	47,200	8.2	8	5.3
2003	578,300	44,000	7.6	13	5.3
2004	590,200	44,900	7.6	13	5.4
2005	609,000	48,700	8.0	12	5.3
2006	621,600	49,700	8.0	12	5.2
2007	620,600	50,900	8.2	8	5.2
2008	612,100	49,600	8.1	9	5.2
2009	586,500	45,200	7.7	9	5.2
2010	602,300	42,200	7.0	11	4.9
2011	615,300	37,500	6.1	15	4.9
2012	608,300	37,700	6.2	13	4.9
2013	618,000	35,800	5.8	21	4.9
2014	637,000	38,200	6.0	18	4.9
2015	650,800	37,100	5.7	18	4.9

1/ Rounded to the nearest hundred.

2/ Employed data benchmarked by Hawaii Department of Labor & Industrial Relations in March 2017. 2011 to 2014 revised from previous *Data Book*.

3/ Rank among 50 states and the District of Columbia. Rank of 1 for highest percentage of multiple jobholders. Tied in 2005 with Idaho; in 2008 with Kansas; in 2009 with Maine; in 2010 with Kansas, Maine, and Rhode Island; in 2011 with New Hampshire and in 2013 with Ohio.

Source: U.S. Bureau of Labor Statistics, *Monthly Labor Review*, November 2006 "Multiple Jobholding in States" <<http://www.bls.gov/opub/mlr/2006/11/rgtrends.htm>> accessed December 27, 2006; Ibid., September 2007 <<http://www.bls.gov/opub/mlr/2007/09/rgtrends.pdf>> accessed February 29, 2008; Ibid., September 2008 <<http://www.bls.gov/opub/mlr/2008/09/rgtrends.pdf>> accessed October 10, 2008; Ibid., December 2009 <<http://www.bls.gov/opub/mlr/2009/12/home.htm>> accessed January 12, 2010; Ibid., July 2010 <<http://www.bls.gov/opub/mlr/2010/07/home.htm>> accessed October 12, 2010; Ibid. September 2011 <<http://www.bls.gov/opub/mlr/2011/09/home.htm>> accessed November 19, 2011; Ibid. May 2012 <<http://www.bls.gov/opub/mlr/2012/05/home.htm>> accessed May 14, 2013; Ibid. December 2013 <<http://www.bls.gov/opub/mlr/2013/article/multiple-jobholding-in-states-in-2012-1.htm>> accessed December 20, 2013; Ibid. August 2015 <<http://www.bls.gov/opub/mlr/2015/article/multiple-jobholding-in-states-in-2014.htm>> accessed September 16, 2015; Ibid. February 2017 <<https://stats.bls.gov/opub/mlr/2017/article/pdf/multiple-jobholding-in-states-in-2015.pdf>> accessed February 24, 2017; and unpublished data from Current Population Survey microdata, supplied by the U.S. Bureau of Labor Statistics, and the Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office and Ibid. "State of Hawaii, Not Seasonally Adjusted Civilian Labor Force" <https://www.hiwi.org/admin/gsipub/htmlarea/uploads/LFR_LAUS_LF.xls> accessed July 24, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 12.25-- WORKERS 16 YEARS AND OVER, BY PLACE OF RESIDENCE
AND PLACE OF WORK: 2006-2010**

[Average over the period]

Place of residence	Place of work				
	Total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
Total	659,047	467,916	83,236	31,979	75,916
State of Hawaii	654,505	464,346	82,852	31,769	75,538
City and County of Honolulu	464,884	463,061	766	398	659
Hawaii County	82,757	626	81,872	72	187
Kauai County	31,780	241	179	31,246	114
Maui County 1/	75,084	418	35	53	74,578
U.S. states (excluding Hawaii) 2/	4,542	3,570	384	210	378

1/ Includes Kalawao County.

2/ Persons who are residents of other states and work in Hawaii.

Source: U.S. Census Bureau, Commuting and employment data "Table 2. Residence County to Workplace County Flows for the United States and Puerto Rico Sorted by Workplace Geography: 2006-2010"

<<http://www.census.gov/population/metro/files/commuting/Table2.xlsx>> accessed July 14, 2014.

Table 12.26-- EMPLOYMENT AND WAGES: 2001 TO 2016

[Workers covered by the Hawaii Employment Security Law and Unemployment Compensation for Federal Employees classified by industry. Since 2001, industries have been classified according to the North American Industry Classification System (NAICS), 2001-2006 are based on the 2002 NAICS, 2007-2010 on the 2007 NAICS, and 2011 onward on 2012 NAICS]

Year	Number of reporting units, December 1/	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
Total, incl. gov't				
2001	34,294	557,041	17,402,683	31,241
2002	34,679	558,494	18,245,223	32,669
2003	35,799	569,538	19,213,203	33,735
2004	34,067	585,292	20,596,784	35,191
2005	35,137	603,663	21,941,626	36,347
2006	35,606	618,403	23,365,721	37,784
2007	36,930	625,835	24,698,727	39,465
2008	37,170	619,898	25,207,465	40,664
2009	37,546	592,189	24,473,876	41,328
2010	36,772	587,232	24,476,467	41,681
2011	36,438	594,046	25,219,853	42,454
2012	36,568	605,535	26,259,252	43,365
2013	36,840	618,425	27,104,442	43,828
2014	37,128	626,330	28,310,731	45,201
2015	37,853	637,813	29,924,305	46,917
2016	38,461	647,485	31,194,056	48,177
Total, excl. gov't				
2001	34,288	446,032	13,292,645	29,802
2002	34,673	444,376	13,750,473	30,943
2003	35,793	454,108	14,516,099	31,966
2004	34,061	468,923	15,744,363	33,576
2005	35,131	487,273	16,839,218	34,558
2006	35,600	500,651	17,973,930	35,901
2007	36,924	506,932	18,977,352	37,436
2008	37,164	498,433	19,172,836	38,466
2009	37,540	469,735	18,242,594	38,836
2010	36,766	465,579	18,279,136	39,261
2011	36,432	472,620	18,818,432	39,817
2012	36,562	484,078	19,773,483	40,848
2013	36,834	497,386	20,624,513	41,466
2014	37,122	504,574	21,481,219	42,573
2015	37,847	514,786	22,852,039	44,391
2016	38,455	525,065	23,914,069	45,545

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Table 12.26-- EMPLOYMENT AND WAGES: 2001 TO 2016 -- Con.

Year	Number of reporting units, December 1/	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
Private non-agr. 2/				
2001	33,838	438,283	13,105,583	29,902
2002	34,225	436,743	13,561,708	31,052
2003	35,337	446,437	14,322,498	32,082
2004	33,615	461,084	15,547,653	33,720
2005	34,678	479,673	16,635,943	34,682
2006	35,155	493,338	17,766,787	36,013
2007	36,474	500,336	18,782,326	37,539
2008	36,711	491,700	18,967,223	38,575
2009	37,088	463,296	18,042,111	38,943
2010	36,316	459,428	18,088,289	39,371
2011	36,003	466,567	18,621,443	39,912
2012	36,139	477,978	19,565,937	40,935
2013	36,407	491,256	20,417,110	41,561
2014	36,677	498,264	21,264,910	42,678
2015	37,389	508,379	22,623,850	44,502
2016	37,986	519,037	23,692,684	45,647

1/ Nonprofit employers and employers with zero employment are included.

2/ 'Total, excluding government' less 'Goods-producing, Code 11 - Agriculture, forestry, fishing and hunting'.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual) and records and <<http://www.hiwi.org/gsipub/index.asp?docid=420>> accessed January 10, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 12.27-- EMPLOYMENT AND WAGES, BY COUNTY: 2015 AND 2016

[Workers covered by the Hawaii Employment Security Law and Unemployment Compensation for Federal Employees classified by industry. Industries classified according to the North American Industry Classification System]

County	Number of reporting units, December 1/	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
2015 Total, including gov't				
State total	37,853	637,813	29,924,305	46,917
City and County of Honolulu	25,343	465,638	22,760,558	48,880
Hawaii County	4,881	67,250	2,749,134	40,879
Maui County	5,302	74,287	3,123,225	42,043
Kauai County	2,333	30,638	1,291,389	42,150
2015 Total, excluding gov't				
State total	37,847	514,786	22,852,039	44,391
City and County of Honolulu	25,340	369,530	17,227,548	46,620
Hawaii County	4,878	54,552	2,034,979	37,303
Maui County	5,299	64,630	2,559,428	39,601
Kauai County	2,330	26,073	1,030,084	39,508
2016 Total, including gov't				
State total	38,461	647,485	31,194,056	48,177
City and County of Honolulu	25,658	472,330	23,728,238	50,237
Hawaii County	5,021	68,583	2,874,370	41,911
Maui County	5,419	75,621	3,261,312	43,127
Kauai County	2,369	30,951	1,330,135	42,976
2016 Total, excluding gov't				
State total	38,455	525,065	23,914,069	45,545
City and County of Honolulu	25,655	376,792	18,038,264	47,873
Hawaii County	5,018	55,934	2,137,092	38,207
Maui County	5,416	65,948	2,676,983	40,592
Kauai County	2,366	26,392	1,061,731	40,229

1/ Nonprofit employers and employers with zero employment are included.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual) <<https://www.hiwi.org/gsipub/index.asp?docid=420>> accessed January 10, 2018.

Table 12.28-- EMPLOYMENT AND WAGES, BY NAICS INDUSTRY: 2016

[Workers covered by the Hawaii Employment Security Law and Unemployment Compensation for Federal Employees Classified by Industry. Industries classified according to the North American Industry Classification System (NAICS)]

NAICS code	Industry	Number of reporting units, Dec. 1/	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
	Total, including government	38,461	647,485	31,194,056	48,177
	Government	6	122,421	7,279,986	59,467
	Federal	1	33,185	2,525,634	76,108
	State	1	70,275	3,513,621	49,998
	County	4	18,960	1,240,732	65,439
	Total, excluding government	38,455	525,065	23,914,069	45,545
11	Ag., forestry, fishing & hunting	469	6,028	221,385	36,726
21	Mining, quarrying, oil & gas extr.	15	232	21,889	94,351
22	Utilities	85	3,773	368,873	97,766
23	Construction	3,677	37,627	2,729,445	72,540
31-33	Manufacturing	970	14,122	629,752	44,594
311	Food manufacturing	331	6,672	216,900	32,509
323	Printing & rel. support activ.	100	753	27,506	36,529
324	Petroleum & coal products	10	530	66,644	125,743
42	Wholesale trade	2,106	17,823	1,025,814	57,556
44-45	Retail trade	4,448	70,564	2,206,733	31,273
448	Clothing & clothing access.	1,130	11,048	278,029	25,166
48-49	Trans. & warehousing	1,018	27,869	1,445,732	51,876
487	Scenic & sightseeing trans.	234	4,250	152,124	35,794
51	Information	676	8,798	546,647	62,133
52	Finance and insurance	1,661	15,504	1,104,516	71,241
53	Real estate, rental & leasing	2,017	12,334	634,665	51,457
54	Prof. and tech. services	4,770	24,452	1,741,213	71,209
55	Mgt of companies & enterprises	490	8,701	765,845	88,018
56	Admin. and waste services	2,538	50,479	1,735,111	34,373
61	Educational services	718	14,228	531,430	37,351
62	Health care and soc. assist.	3,929	68,307	3,580,017	52,411
621	Amb. health care services	2,873	27,799	1,706,071	61,372
622	Hospitals	20	15,815	1,166,290	73,746
623	Nursing and resid. care fac.	178	8,448	307,258	36,371
624	Social assistance	858	16,245	400,398	24,647
71	Arts, entertain., and recrea.	611	12,050	323,416	26,840
72	Accom. and food services	3,957	106,203	3,398,401	31,999
721	Accommodation	417	40,225	1,935,991	48,129
722	Food services & drinking places	3,540	65,978	1,462,410	22,165
81	Other serv., exc. public adm.	3,889	25,791	889,338	34,483
99	Unclassified	411	180	13,846	76,924

1/ Nonprofit employers and employers with zero employment are included.

Source: Hawaii State Department of Labor and Industrial Relations, *2016 Employment and Payrolls in Hawaii* (October 2017) <https://www.hiwi.org/admin/gsipub/htmlarea/uploads/LFR_QCEW_ES2015.pdf> accessed January 10, 2018.

Table 12.29-- AVERAGE ANNUAL WAGE IN CURRENT AND CONSTANT DOLLARS: 1969 TO 2016

[For "Employees Covered by the Hawaii Employment Security Law and Unemployment Compensation for Federal Employees". Including government]

Year	Current dollars	CPI-U All Items Honolulu, 1982-84 = 100.0	1982-1984 dollars 1/	Year	Current dollars	CPI-U All Items Honolulu, 1982-84 = 100.0	1982-1984 dollars 1/
1969	6,876	39.4	17,452	1993	26,544	160.1	16,580
1970	7,424	41.5	17,889	1994	26,718	164.5	16,242
1971	7,677	43.2	17,771	1995	26,983	168.1	16,052
1972	7,989	44.6	17,913	1996	27,359	170.7	16,028
1973	8,479	46.6	18,195	1997	28,356	171.9	16,496
1974	9,087	51.5	17,645	1998	29,029	171.5	16,927
1975	9,767	56.3	17,348	1999	29,788	173.3	17,189
1976	10,347	59.1	17,508	2000	30,628	176.3	17,373
1977	10,903	62.1	17,557	2001	31,241	178.4	17,512
1978	11,630	66.9	17,384	2002	32,669	180.3	18,119
1979	12,429	74.3	16,728	2003	33,735	184.5	18,285
1980	13,548	83.0	16,323	2004	35,191	190.6	18,463
1981	14,471	91.7	15,781	2005	36,347	197.8	18,376
1982	15,367	97.2	15,810	2006	37,784	209.4	18,044
1983	16,115	99.3	16,229	2007 2/	39,465	219.504	17,979
1984	16,714	103.5	16,149	2008 2/	40,664	228.861	17,768
1985	17,335	106.8	16,231	2009 2/	41,328	230.048	17,965
1986	18,069	109.4	16,516	2010 2/	41,681	234.869	17,746
1987	19,060	114.9	16,588	2011 2/	42,454	243.622	17,426
1988	20,454	121.7	16,807	2012 2/	43,365	249.474	17,383
1989	21,635	128.7	16,810	2013 2/	43,828	253.924	17,260
1990	23,109	138.1	16,734	2014 2/	45,201	257.589	17,548
1991	24,051	148.0	16,251	2015 2/	46,917	260.165	18,034
1992	25,532	155.1	16,462	2016 2/	48,177	265.283	18,161

1/ Current dollars deflated by the Consumer Price Index (CPI-U), All Items for Honolulu.

2/ U.S. Bureau of Labor Statistics began reporting the CPI in 3-decimal places in January 2007.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual) and 1985-1989 <http://www.hiwi.org/admin/uploadedPublications/659_ES8500.txt> and 2000-2016 <<https://www.hiwi.org/gsipub/index.asp?docid=420>> accessed January 10, 2018; Hawaii State Department of Business, Economic Development & Tourism, *The Honolulu Consumer Price Index, 1940-1986* (Statistical Report 187, May 30, 1986), as shifted to 1982-1984 base; for 1987-2016 U.S. Bureau of Labor Statistics, Honolulu Consumer Price Index, All Items, 1982-84=100 for All Urban Consumers (CPI-U) <<http://www.bls.gov/cpi/home.htm>> January 12, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 12.30-- AVERAGE ANNUAL WAGE, IN CURRENT AND CONSTANT DOLLARS, BY SELECTED INDUSTRY: 2006 AND 2016

[Workers covered by the Hawaii Employment Security Law and Unemployment Compensation for Federal Employees classified by industry. Industries classified according to the North American Industrial Classification System]

Industry	2006 1/	2016 2/		Percent change, 2006-2016 3/	
		Current dollars	2006 dollars 4/	Current dollars	2006 dollars 4/
All industries	37,784	48,177	38,028	27.5	0.6
Federal	57,661	76,108	60,076	32.0	4.2
State	39,621	49,998	39,466	26.2	-0.4
County	48,277	65,439	51,654	35.5	7.0
Private	35,901	45,545	35,951	26.9	0.1

1/ According to the Standard Industrial Classification Code.

2/ According to the North American Industrial Classification System.

3/ The Consumer Price Index-All Urban Consumers (CPI-U) Honolulu, All Items increased 26.7 percent from 2006 to 2016.

4/ Current dollars deflated by the Consumer Price Index (CPI-U) All Items for Honolulu, base shifted to 2006 = 100 or 126.687.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual) <<https://www.hiwi.org/gsipub/index.asp?docid=420>> accessed January 10, 2018; U.S. Bureau of Labor Statistics, Honolulu Consumer Price Index, All Items, 1982-84=100 for All Urban Consumers (CPI-U) <<http://www.bls.gov/cpi/home.htm>> accessed January 12, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 12.31-- REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 2016

[Excluding government]

County	Subject 1/	All units	Size of firm								
			0 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 949	1,000 or more
State total	Reporting units	38,455	21,986	6,734	4,645	3,166	1,176	508	161	58	21
	Employment	533,623	34,298	44,688	62,810	95,215	81,293	75,668	55,237	38,809	45,605
City and County of Honolulu	Reporting units	25,655	14,635	4,353	3,108	2,161	850	374	114	41	19
	Employment	382,473	22,536	28,880	42,080	64,867	58,951	55,692	38,749	27,429	43,289
Hawaii County	Reporting units	5,018	2,863	937	636	381	135	42	19	2/ 5	(2/)
	Employment	57,311	4,676	6,169	8,620	11,251	9,450	6,407	6,662	2/ 4,076	(2/)
Maui County	Reporting units	5,416	3,147	989	619	433	128	64	25	2/ 11	(2/)
	Employment	67,159	4,864	6,598	8,256	13,186	8,609	9,140	8,785	2/ ,721	(2/)
Kauai County	Reporting units	2,366	1,341	455	282	191	63	28	3	3	-
	Employment	26,680	2,222	3,041	3,854	5,911	4,283	4,429	1,041	1,899	-

1/ Multi-establishment employers are counted for each worksite reported, except for the construction industry, which reports separately only for major projects. Some worksites are further distributed by industrial classification.

2/ Data from larger classes combined to prevent the disclosure of confidential information.

Source: Hawaii State Department of Labor and Industrial Relations, *2016 Employment and Payrolls in Hawaii* (October 2017), p. 89
 <https://www.hiwi.org/admin/gsipub/htmlarea/uploads/LFR_QCEW_ES2016.pdf> accessed January 10, 2018.

Table 12.32-- ANNUAL AVERAGE WAGES, TOTAL AND PRIVATE INDUSTRY FOR HAWAII AND THE UNITED STATES: 1990 TO 2017

[Based on data submitted by employers subject to State unemployment insurance (UI) laws, and by Federal agencies subject to the Unemployment Compensation for Federal Employees (UCFE) program. Data are final, unless otherwise noted]

Year	Annual average wages (dollars)				Hawaii as percent of U.S		Hawaii rank 1/	
	Hawaii		U.S.		Total	Private only	Total	Private only
	Total	Private only	Total	Private only				
1990	23,167	22,244	23,602	23,258	98.2	95.6	13	18
1991	24,104	23,176	24,578	24,178	98.1	95.9	13	19
1992	25,613	24,585	25,897	25,547	98.9	96.2	13	19
1993	26,325	25,312	26,361	25,934	99.9	97.6	12	16
1994	26,746	25,647	26,939	26,496	99.3	96.8	13	17
1995	26,977	25,913	27,846	27,441	96.9	94.4	16	21
1996	27,352	26,371	28,946	28,582	94.5	92.3	22	23
1997	28,357	26,979	30,353	30,064	93.4	89.7	24	28
1998	29,036	27,672	31,945	31,762	90.9	87.1	26	30
1999	29,794	28,163	33,340	33,244	89.4	84.7	27	32
2000	30,628	29,179	35,323	35,337	86.7	82.6	29	32
2001	31,253	29,816	36,219	36,157	86.3	82.5	31	34
2002	32,671	30,947	36,764	36,539	88.9	84.7	27	32
2003	33,742	31,974	37,765	37,508	89.3	85.2	26	31
2004	35,198	33,583	39,354	39,134	89.4	85.8	25	31
2005	36,353	34,564	40,677	40,505	89.4	85.3	26	31
2006	37,799	35,909	42,535	42,414	88.9	84.7	26	34
2007	39,466	37,437	44,458	44,362	88.8	84.4	26	34
2008	40,675	38,478	45,563	45,371	89.3	84.8	25	33
2009	41,328	38,836	45,559	45,155	90.7	86.0	23	31
2010	41,709	39,294	46,751	46,455	89.2	84.6	25	33
2011	42,473	39,838	48,043	47,815	88.4	83.3	26	38
2012	43,385	40,871	49,289	49,200	88.0	83.1	28	38
2013	43,845	41,485	49,808	49,701	88.0	83.5	29	37
2014	45,210	42,583	51,364	51,296	88.0	83.0	27	37
2015	46,919	44,393	52,942	52,876	88.6	84.0	25	35
2016 2/	48,178	45,546	53,621	53,515	89.8	85.1	28	32
2017 2/	49,679	47,045	55,375	55,331	89.7	85.0	24	30

1/ Rank of 1 indicates the highest annual wages per employee. District of Columbia is included.

2/ 2016 data revised (except Hawaii Private Rank) from previous *Data Book* and 2017 data are preliminary.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages* (annual), table 1, see also tables 5, 6, and 10; "Quarterly Census of Employment and Wages" <<http://www.bls.gov/cew/>> accessed July 18, 2018; QCEW Data Viewer <http://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables>; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 12.33-- WORKERS, EARNINGS AND HOURS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGE, 2013 TO 2017

[2015 and 2016 data have been benchmarked. Number of production workers rounded to nearest 50]

Subject 1/	2013	2014	2015	2016	2017
Production workers					
Natural resources, mining & construction 2/	22,600	23,600	25,600	28,400	27,000
Manufacturing 2/	9,700	9,800	9,700	9,700	9,900
Trade, transportation and utilities 2/	98,500	98,100	100,900	100,600	101,400
Wholesale trade	13,600	12,800	14,000	14,300	13,700
Retail trade 3/	58,800	58,500	59,200	58,100	58,600
Financial activities 2/	20,100	20,800	20,600	21,000	21,500
Accommodation and food services 2/	90,700	91,800	92,800	95,700	99,200
Food services and drinking places	55,400	55,500	56,500	58,700	61,200
Average weekly earnings (dollars)					
Natural resources, mining & construction	1,268.19	1,314.58	1,301.70	1,300.99	1,440.72
Manufacturing 2/	724.81	718.27	817.68	849.58	813.85
Trade, transportation and utilities	714.42	792.62	835.59	823.97	832.66
Wholesale trade	666.34	895.44	904.26	812.31	796.22
Retail trade	479.56	508.80	553.96	606.92	603.88
Financial activities	753.77	818.33	837.72	796.84	796.84
Accommodation and food services	491.06	523.14	503.43	499.29	522.48
Food services and drinking places	410.97	419.29	387.06	381.13	391.17
Average weekly hours					
Natural resources, mining & construction	36.6	35.8	34.4	35.2	36.0
Manufacturing	37.4	39.1	40.6	39.7	39.7
Trade, transportation and utilities	32.4	33.7	34.5	33.7	34.0
Wholesale trade	35.5	39.0	40.1	38.7	41.6
Retail trade	30.8	31.8	31.8	32.3	31.8
Financial activities	36.1	36.5	36.0	34.6	34.6
Accommodation and food services	29.6	30.9	29.1	27.8	28.0
Food services and drinking places	28.5	29.8	27.2	25.7	25.6
Average hourly earnings (dollars)					
Natural resources, mining & construction	34.65	36.72	37.84	36.96	40.02
Manufacturing 2/	19.38	18.37	20.14	21.40	20.50
Trade, transportation and utilities	22.05	23.52	24.22	24.45	24.49
Wholesale trade	18.77	22.96	22.55	20.99	19.14
Retail trade	15.57	16.00	17.42	18.79	18.99
Financial activities	20.88	22.42	23.27	23.03	23.03
Accommodation and food services	16.59	16.93	17.30	17.96	18.66
Food services and drinking places	14.42	14.07	14.23	14.83	15.28

1/ Data for 'Information' and 'Accommodation' are no longer available.

2/ 2016 revised from previous *Data Book*.

3/ 2013 and 2016 revised from previous *Data Book*.

Source: Hawaii State Department of Labor and Industrial Relations, "Production Worker Hours & Earnings, All Selected Industries" <<https://www.hiwi.org/gsipub/index.asp?docid=419>> accessed March 15, 2018.

Table 12.34-- AVERAGE HOURLY PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 2005 TO 2013

[In dollars. Wage data are weighted averages and cover regular full-time and part-time employees. These 14 job titles are meant to be only illustrative of those reported. Over this period, the survey was conducted some time between June through September and covered 90 jobs for the 2005 and 2006 reports, 91 jobs for the 2007, 82 for the 2008, 94 for the 2009 through 2011, and 100 for 2013]

Job classification	Job code	2005	2006	2007	2008	2009	2010	2011	2013
Clerk, entry level	43.03	10.84	11.15	11.25	11.90	12.30	13.36	13.98	14.54
Secretary	43.06	15.80	16.02	16.39	17.53	18.12	18.59	19.00	19.21
Telephone operator 1/	43.10	15.26	14.79	15.44	15.95	16.52	17.53	17.39	18.47
Bookkeeper 2/	46.06	18.10	19.13	18.00	20.42	18.48	21.68	20.54	22.59
Cashier	46.07	14.91	15.48	16.26	16.90	18.29	16.59	15.87	18.29
Engineering drafting tech.	47.01	28.14	21.86	27.35	30.48	28.17	32.01	29.32	32.87
Housekeeper	48.01	13.07	13.60	13.82	14.35	14.92	14.92	15.44	16.37
Cook, general	48.09	15.48	17.15	16.08	16.64	17.93	17.95	17.55	19.30
Wait help	48.13	6.85	7.57	8.50	7.97	7.95	7.94	8.20	8.73
Laborer, light	50.06	9.55	10.87	10.12	10.68	10.41	10.31	10.67	10.33
Carpenter, maintenance	50.12	20.61	21.35	23.12	21.05	23.88	27.14	26.54	23.80
Electrician, maintenance	50.15	24.13	24.33	29.68	28.80	28.76	31.55	30.24	31.77
Automotive mechanic	50.19	23.47	24.55	23.71	24.69	25.43	27.02	25.42	25.62
Driver III (Tractor trailer) 3/	51.05	15.79	17.43	17.26	16.71	18.73	18.64	19.03	19.32

1/ In earlier reports, this category, job code 43.10, was "Switchboard" or "Communications" operator.

2/ In earlier reports, this category, job code 46.06, was "Bookkeeper, full-charge".

3/ In earlier reports, this category, job code 51.05, was "Truck driver (trailer)".

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (annual).

Table 12.35-- AVERAGE HOURLY PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTY: 2013

[In dollars. Wage data are weighted averages, as of the July through September survey period and were effective for July 1, 2013 and cover regular full-time and part-time employees. The 14 job titles are meant to be only illustrative of the 100 reported]

Job classification	Job code	State	Kauai County	City & County of Honolulu	Maui County	Hawaii County
Clerk, entry level	43.03	14.54	(1/)	14.65	(1/)	13.61
Secretary	43.06	19.21	(1/)	19.16	(1/)	(1/)
Telephone operator 2/	43.10	18.47	(1/)	18.79	(1/)	(1/)
Bookkeeper 3/	46.06	22.59	(1/)	22.42	(1/)	(1/)
Cashier	46.07	18.29	(1/)	18.26	(1/)	(1/)
Engineering drafting technician	47.01	32.87	(1/)	(1/)	(1/)	(1/)
Housekeeper	48.01	16.37	(1/)	16.73	15.65	(1/)
Cook, general	48.09	19.30	(1/)	17.95	20.08	16.69
Wait help	48.13	8.73	(1/)	9.04	8.06	(1/)
Laborer, light	50.06	10.33	(1/)	9.66	(1/)	12.38
Carpenter, maintenance	50.12	23.80	(1/)	23.73	(1/)	(1/)
Electrician, maintenance	50.15	31.77	(1/)	33.70	(1/)	(1/)
Automotive mechanic	50.19	25.62	(1/)	26.51	24.66	(1/)
Driver III (Tractor trailer) 4/	51.05	19.32	(1/)	19.13	(1/)	18.90

1/ Not disclosed. Jobs reported by fewer than five facilities or fewer than eight employees reported.

2/ In earlier reports, this category, job code 43.10, was "Switchboard" or "Communications" operator.

3/ In earlier reports, this category, job code 46.06, was "Bookkeeper, full-charge".

4/ In earlier reports, this category, job code 51.05, was "Truck driver (trailer)".

Source: Hawaii Employers Council, *Pay Rates in Hawaii 2013* (Research Report Number 4381, October 2013).

Table 12.36-- EMPLOYMENT AND WAGES OF HAWAII'S 25 LARGEST OCCUPATIONS: MAY 2017

[In descending order by employment. Self-employed are excluded]

SOC Code 1/	Occupation title	Employment	Mean wage in dollars	
			Hourly	Annual 2/
41-2031	Retail salespersons	22,970	14.02	29,170
35-3031	Waiters and waitresses	17,590	21.77	45,280
41-2011	Cashiers	16,230	11.65	24,240
35-3021	Combined food prep. & serving workers including fast food	13,070	11.41	23,730
37-2011	Janitors and cleaners except maids and housekeeping cleaners	12,910	14.02	29,160
37-2012	Maids and housekeeping cleaners	12,400	18.41	38,290
43-9061	Office clerks, general	10,870	16.24	33,770
29-1141	Registered nurses	10,800	46.63	96,990
43-6014	Secretaries & admin. assistants, exc. legal, medical, and executive	10,170	18.88	39,260
11-1021	General and operations managers	10,060	54.48	113,310
35-2014	Cooks, restaurant	9,150	16.76	34,870
33-9032	Security guards	9,100	15.74	32,740
43-5081	Stock clerks and order fillers	8,360	14.35	29,850
35-2021	Food preparation workers	8,120	12.74	26,510
43-4051	Customer service representatives	7,700	18.37	38,200
37-3011	Landscaping and groundskeeping workers	7,490	15.78	32,810
43-1011	First-line supervisors of office & admin. support workers	7,440	27.60	57,410
49-9071	Maintenance and repair workers, general	7,440	22.32	46,430
53-7062	Laborers & freight, stock, & material	7,350	18.23	37,930
41-1011	First-line supervisors of retail sales workers	7,050	21.29	44,290
25-3097	Teachers & instructors, all other, exc. Substitute teachers	6,340	(3/)	44,840
43-3031	Bookkeeping, accounting, & auditing clerks	6,280	19.64	40,850
25-2021	Elementary school teachers exc. special educ.	6,000	(3/)	59,790
25-9041	Teacher assistants	5,930	(3/)	29,430
35-1012	First-line supervisors of food preparation and serving workers	5,580	18.47	38,420

1/ Standard Occupational Classification (SOC) system.

2/ Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

3/ Hourly wage rates for occupations where workers typically work fewer than 2,080 hours per year are not available.

Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics, "May 2017 State Occupational Employment and Wage Estimates Hawaii" <http://www.bls.gov/oes/current/oes_hi.htm> accessed April 18, 2018.

**Table 12.37-- EMPLOYMENT AND WAGES OF URBAN HONOLULU
METROPOLITAN STATISTICAL AREA'S 25 LARGEST OCCUPATIONS: MAY 2017**

[In descending order by employment. Self-employed are excluded]

SOC Code 1/	Occupation title	Employment	Mean wage in dollars	
			Hourly	Annual 2/
41-2031	Retail salespersons	16,110	13.93	28,970
41-2011	Cashiers	11,170	11.19	23,280
35-3031	Waiters & waitresses	10,800	20.77	43,210
35-3021	Combined food preparation & serving workers, including fast food	9,930	11.27	23,450
37-2011	Janitors & cleaners, exc. maids & housekeeping cleaners	9,080	13.95	29,030
29-1141	Registered nurses	8,480	47.21	98,190
43-9061	Office clerks, general	7,870	16.26	33,830
33-9032	Security guards	7,580	15.26	31,730
43-6014	Secretaries & administrative assistants, except legal, medical, and executive	7,520	19.01	39,540
11-1021	General and operations managers	7,460	57.08	118,720
37-2012	Maids and housekeeping cleaners	6,900	19.03	39,580
35-2021	Food preparation workers	6,080	12.07	25,100
43-4051	Customer service representatives	5,770	18.58	38,650
53-7062	Laborers & freight, stock, & material movers, hand	5,610	18.83	39,160
43-1011	First-line supervisors of office & admin. support workers	5,490	28.36	59,000
43-5081	Stock clerks and order fillers	5,300	14.21	29,550
35-2014	Cooks, restaurant	5,190	15.08	31,370
25-3097	Teachers & instructors, all other, exc. substitute teachers	5,180	(3/)	45,350
41-1011	First-line supervisors of retail sales workers	4,880	21.40	44,520
49-9071	Maintenance & repair workers, general	4,650	21.83	45,410
25-2021	Elementary school teachers, except special education	4,620	(3/)	60,520
43-3031	Bookkeeping, accounting, & auditing clerks	4,440	19.65	40,880
25-9041	Teacher assistants	4,430	(3/)	30,070
13-1199	Business operations specialists, all other	4,220	35.36	73,550
47-2061	Construction laborers	4,010	28.13	58,500

1/ Standard Occupational Classification (SOC) system.

2/ Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

3/ Hourly wage rates for occupations where workers typically work fewer than 2,080 hours per year are not available.

Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics, "May 2017 Metropolitan Area Occupational Employment and Wage Estimates Urban Honolulu, HI MSA"

<http://www.bls.gov/oes/current/oes_46520.htm> accessed April 18, 2018.

Table 12.38-- EMPLOYMENT AND WAGES OF KAHULUI-WAILUKU-LAHAINA METROPOLITAN STATISTICAL AREA'S 25 LARGEST OCCUPATIONS: MAY 2017

[In descending order by employment. Self-employed are excluded]

SOC Code 1/	Occupation title	Employment	Mean wage in dollars	
			Hourly	Annual 2/
35-3031	Waiters & waitresses	3,400	23.53	48,940
41-2031	Retail salespersons	3,360	14.36	29,860
37-2012	Maids and housekeeping cleaners	3,000	17.59	36,590
41-2011	Cashiers	2,140	13.03	27,100
35-2014	Cooks, restaurant	1,990	19.88	41,360
37-3011	Landscaping & groundskeeping workers	1,580	16.13	33,550
49-9071	Maintenance & repair workers, general	1,460	23.43	48,730
37-2011	Janitors & cleaners, exc. maids & housekeeping cleaners	1,440	14.24	29,610
43-9061	Office clerks, general	1,200	16.93	35,210
43-5081	Stock clerks and order fillers	1,160	15.43	32,100
35-3021	Combined food preparation and serving workers, including fast food	1,140	12.12	25,200
11-1021	General and operations managers	1,080	49.83	103,640
43-6014	Secretaries & administrative assistants, except legal, medical, and executive	1,070	18.06	37,560
41-1011	First-line supervisors of retail sales workers	980	21.35	44,400
35-9011	Dining room & cafeteria attendants & bartender helpers	910	18.74	38,990
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	890	13.29	27,640
35-2021	Food preparation workers	870	15.83	32,930
35-1012	First-line supervisors of food prep. & serving workers	840	23.32	48,500
43-1011	First-line supervisors of office & admin. support workers	830	25.25	52,520
53-7062	Laborers & freight, stock, & material movers, hand	800	17.11	35,580
35-3011	Bartenders	770	25.57	53,190
35-9021	Dishwashers	770	15.11	31,430
43-3031	Bookkeeping, accounting, & auditing clerks	750	20.07	41,750
29-1141	Registered nurses	710	43.93	91,380
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	690	15.40	32,030

1/ Standard Occupational Classification (SOC) system.

2/ Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics, "May 2017 Metropolitan Area Occupational Employment and Wage Estimates Kahului-Wailuku-Lahaina, HI MSA"

<http://www.bls.gov/oes/current/oes_27980.htm> accessed April 18, 2018.

Table 12.39-- EMPLOYMENT AND WAGES OF HAWAII- KAUAI NONMETROPOLITAN STATISTICAL AREA'S 25 LARGEST OCCUPATIONS: MAY 2017

[In descending order by employment. Self-employed are excluded]

SOC Code 1/	Occupation title	Employment	Mean wage in dollars	
			Hourly	Annual 2/
41-2031	Retail salespersons	3,500	14.15	29,440
35-3031	Waiters and waitresses	3,380	23.18	48,210
41-2011	Cashiers	2,920	12.41	25,810
37-2012	Maids and housekeeping cleaners	2,500	17.67	36,760
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	2,390	14.13	29,400
37-3011	Landscaping and groundskeeping workers	2,010	17.74	36,890
35-3021	Combined food preparation and serving workers, including fast food	2,000	11.66	24,250
35-2014	Cooks, restaurant	1,970	18.05	37,540
43-5081	Stock clerks and order fillers	1,900	14.11	29,340
43-9061	Office clerks, general	1,790	15.67	32,580
29-1141	Registered nurses	1,610	44.78	93,130
43-6014	Secretaries and administrative assistants, except legal, medical, and executive	1,580	18.79	39,090
11-1021	General and operations managers	1,520	45.05	93,710
49-9071	Maintenance and repair workers, general	1,330	22.81	47,450
43-4051	Customer service representatives	1,320	17.51	36,430
35-2021	Food preparation workers	1,180	13.95	29,020
41-1011	First-line supervisors of retail sales workers	1,180	20.80	43,270
43-1011	First-line supervisors of office and administrative support workers	1,120	25.58	53,220
43-3031	Bookkeeping, accounting, and auditing clerks	1,090	19.30	40,150
35-9011	Dining room & cafeteria attendants & bartender helpers	1,070	17.33	36,040
35-1012	First-line supervisors of food prep. & serving workers	1,020	18.67	38,820
25-9041	Teacher assistants	970	(3/)	(3/)
47-2061	Construction laborers	970	23.09	48,020
31-1011	Home health aides	950	12.29	25,560
33-9032	Security guards	950	18.10	37,640

1/ Standard Occupational Classification (SOC) system.

2/ Annual wages have been calculated by multiplying the hourly mean wage by a "year-round, full-time" hours figure of 2,080 hours; for those occupations where there is not an hourly mean wage published, the annual wage has been directly calculated from the reported survey data.

3/ Hourly wage rates for occupations where workers typically work fewer than 2,080 hours per year are not available.

Source: U.S. Bureau of Labor Statistics, Occupational Employment Statistics, "May 2017 Nonmetropolitan Area Occupational Employment and Wage Estimates, Hawaii-Kauai Nonmetropolitan Area"

<http://www.bls.gov/oes/current/oes_1500001.htm> accessed April 18, 2018.

Table 12.40-- ESTIMATED IMPACT OF THE AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) OF 2009 IN HAWAII: 2009 TO 2013

[In full-time equivalent jobs]

Category	Reporting period 1/					
	1	2	3	4	5	6
	Feb. 17 - Sep. 30, 2009	Oct. 1 - Dec. 31, 2009	Jan. 1 - Mar. 31, 2010	April 1 - June 30, 2010	July 1 - Sep. 30, 2010	Oct. 1 - Dec. 31, 2010
Total (cumulative) 2/	4,200	8,000	11,000	13,000	13,000	13,000
Direct employment due to ARRA grants subject to Section 1512 reporting requirements (quarterly total)	1,544.94	3,018.80	2,561.57	3,576.76	5,087.29	3,601.24
Awarded to State of Hawaii entity	793.25	2,423.46	1,787.55	1,931.96	3,380.07	3,084.75
Awarded to non-State of Hawaii entity	751.69	595.34	774.02	1,644.80	1,707.22	516.49
Category	Reporting period 1/					
	7	8	9	10	11	12
	Jan. 1 - Mar. 31, 2011	April 1 - June 30, 2011	July 1 - Sept. 30, 2011	Oct. 1 - Dec. 31, 2011	Jan. 1 - Mar. 31, 2012	April 1 - June 30, 2012
Total (cumulative) 2/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Direct employment due to ARRA grants subject to Section 1512 reporting requirements (quarterly total)	4,528.00	3,166.00	1,161.00	880.77	898.54	731.95
Awarded to State of Hawaii entity	3,416.91	2,000.91	870.82	618.24	658.64	523.17
Awarded to non-State of Hawaii entity	1,111.09	1,165.09	290.18	262.53	239.90	208.78
Category	Reporting period 1/					
	13	14	15	16	17	18
	July 1 - Sept. 30, 2012	Oct. 1 - Dec. 31, 2012	Jan. 1 - Mar. 31, 2013	April 1 - June 30, 2013	July 1 - Sept. 30, 2013	Oct. 1 - Dec. 31, 2013 3/
Total (cumulative) 2/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Direct employment due to ARRA grants subject to Section 1512 reporting requirements (quarterly total)	630.39	565.22	507.58	507.87	277.57	323.83
Awarded to State of Hawaii entity	477.68	410.81	363.48	344.32	131.51	191.73
Awarded to non-State of Hawaii entity	152.71	154.41	144.10	163.55	146.06	132.10

Continued on next page.

Table 12.40-- ESTIMATED IMPACT OF THE AMERICAN RECOVERY AND REINVESTMENT ACT (ARRA) OF 2009 IN HAWAII: 2009 TO 2013 -- Con.

NA Not available.

1/ Because of a change in job calculation methodology for Section 1512 grants between the 1st and 2nd reporting period, figures from the 1st reporting period are not comparable with latter periods. Information on how jobs are calculated can be found at <http://www.whitehouse.gov/omb/assets/memoranda_2010/m10-08.pdf>. Information on the reporting requirements created by Section 1512 of ARRA can be found at <http://www.whitehouse.gov/omb/assets/memoranda_fy2009/m09-21.pdf>.

2/ Estimated overall impact of the ARRA on employment in Hawaii is from the Council of Economic Advisers "The Economic Impact of the American Recovery and Reinvestment Act of 2009 Sixth Quarterly Report, March 18, 2011". See <<http://www.whitehouse.gov/sites/default/files/microsites/20110318-cea-arra-report.pdf>>

3/ Enactment of the Federal Government's Fiscal Year 2014 Omnibus Spending bill brings an end to the "1512" Recipient Reporting requirements of the ARRA. Section 627 of the Omnibus repeals the reporting as of February 1, 2014

Source: Hawaii State Department of Budget and Finance, The Official State of Hawaii American Recovery and Reinvestment Act (ARRA) website "Reporting Quarter: January-March 2013" (Version Date: May 29, 2013) <http://hawaii.gov/recovery/arra-reports/Estimated_Impact_of_ARRA_on_Employment_in_Hawaii.pdf> accessed June 12, 2013; and records.

**Table 12.41-- ANNUAL COMPENSATION OF HIGHEST-PAID EXECUTIVES
OF HAWAII-BASED PUBLIC FIRMS: 1999 TO 2005**

Annual compensation 1/	1999	2000	2001	2002	2003	2004 2/	2005
Number of firms	7	7	9	9	6	6	6
Number of executives	17	17	25	25	15	15	15
Less than \$249,999	-	-	-	-	-	-	-
\$250,000 to \$499,999	4	3	9	11	-	-	-
\$500,000 to \$999,999	10	10	12	8	7	10	9
\$1,000,000 to \$1,999,999	3	4	3	5	7	5	6
\$2,000,000 or more	-	-	1	1	1	-	-
Highest (\$1,000)	1,535	1,611	2,387	2,127	2,519	1,742	1,577

1/ Includes salary, bonus, stock awards, payments under the companies' long-term incentive plans, and other compensation.

2/ No separate list published, top 15 list for 2004 ranked by 2005 annual cash compensation.

Source: *Pacific Business News*, "Highest-paid executives of Hawaii-based public firms", September 12, 2003 and May 26, 2006; and *Pacific Business News, 2005 Book of Lists*, "Highest-paid executives of Hawaii-based public firms", p. 64 (December 20, 2004).

Table 12.42-- MINIMUM WAGE CHRONOLOGY: 1942 TO 2018

[Dollars per hour. As of July 1, unless otherwise specified. Since January 1, 1970, tip credit allowed under certain circumstances]

Effective date	Oahu	Other islands	Effective date	State	Effective date	State
1942 1/	0.25	0.20	1962	1.15	1992 3/	4.75
1943	0.30	0.25	1964 2/	1.25	1993 2/	5.25
1945	0.40	0.40	1969	1.40	2002 2/	5.75
1953	0.65	0.55	1970 2/	1.60	2003 2/	6.25
1955	0.75	0.65	1974	2.00	2006 4/	6.75
1957	0.90	0.85	1975 2/	2.40	2007 4/ 5/	7.25
1958	1.00	1.00	1978	2.65	2015 5/	7.75
			1979	2.90	2016 5/	8.50
			1980	3.10	2017 5/	9.25
			1981	3.35	2018 5/	10.10
			1988 2/	3.85		

1/ At inception of minimum wage law, April 1, 1942.

2/ As of January 1.

3/ As of April 1.

4/ The 2005 Legislature passed Senate Bill 294, Senate Draft 3, House Draft 1, Conference Draft 1 "Relating to Employment" which raises the minimum wage to \$6.75 effective January 1, 2006, and to \$7.25 effective January 1, 2007. Governor Linda Lingle had indicated that she would allow it to become law without her signature. Act 240 became law on July 12, 2005. The federal minimum wage of \$5.15 was in effect from September 1, 1997, and rose to \$5.85 on July 24, 2007 and to \$6.55 and \$7.25 on that day respectively in 2008 and 2009. On July 24, 2009 the federal wage rose to equal the State, the first time that has happened since January 1, 1988.

5/ On May 23, 2014 Governor Neil Abercrombie (Gov. Msg. No. 1182) signed Act 082 into law which increases minimum wage rate to \$7.75 per hour beginning on January 1, 2015, \$8.50 per hour beginning on January 1, 2016, \$9.25 per hour beginning on January 1, 2017, and \$10.10 per hour beginning on January 1, 2018. Act 82 also increases the tip credit to \$0.50 per hour beginning on January 1, 2015, and 75 cents per hour beginning on January 1, 2016; provided that beginning January 1, 2015, the combined amount the employee receives in wages and tips is at least \$7 more than the applicable minimum wage.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office "Minimum Wage (Hawaii and Federal)" <<http://labor.hawaii.gov/rs/files/2012/11/Minimum-Wage-for-Web.pdf>> accessed July 1, 2017; Hawaii State Legislature, 27th Legislature, 2014 Measure Status Legislature, 27th Legislature, 2014 Measure Status SB2609 SD1 HD2 CD1 Relating to Minimum Wage <http://www.capitol.hawaii.gov/measure_indiv.aspx?billtype=SB&billnumber=2609&year=2014> accessed July 19, 2014; and records.

Table 12.43-- MINIMUM WAGE, BY STATE AND FOR THE DISTRICT OF COLUMBIA: JANUARY 1, 2018

[Dollars per hour. Applicable to nonsupervisory nonfarm private sector employment under state and federal laws. Where federal (\$7.25 per hour since July 24, 2009) and state law have different minimum wage rates, the higher standard applies. Some local governments set minimum wage rates higher than their respective state's minimum wage. Contact individual state labor offices for details via <http://www.dol.gov/whd/contacts/state_of.htm>]

Area	Minimum wage	Area	Minimum wage
Alabama	(1/)	Nebraska	9.00
Alaska	9.84	Nevada	8.25
Arizona	10.50	New Hampshire	7.25
Arkansas	8.50	New Jersey	8.60
California	11.00	New Mexico	7.50
Colorado	10.20	New York	10.40
Connecticut	10.10	North Carolina	7.25
Delaware	8.25	North Dakota	7.25
Florida	8.25	Ohio	8.30
Georgia	5.15	Oklahoma	7.25
Hawaii	10.10	Oregon	10.25
Idaho	8.25	Pennsylvania	7.25
Illinois	8.25	Rhode Island	10.10
Indiana	7.25	South Carolina	(1/)
Iowa	7.25	South Dakota	8.85
Kansas	7.25	Tennessee	(1/)
Kentucky	7.25	Texas	7.25
Louisiana	(1/)	Utah	7.25
Maine	10.00	Vermont	10.50
Maryland	9.25	Virginia	7.25
Massachusetts	11.00	Washington	11.50
Michigan	9.25	West Virginia	8.75
Minnesota	9.65	Wisconsin	7.25
Mississippi	(1/)	Wyoming	5.15
Missouri	7.85	Dist. of Columbia	12.50
Montana	8.30		

1/ No minimum wage required under state laws.

Source: U. S. Department of Labor, Wage and Hour Division (WHD), "Minimum Wage Laws in the States - January 1, 2018" <<http://www.dol.gov/whd/minwage/america.htm>> accessed January 10, 2018.

**Table 12.44-- MINIMUM WAGE WORKERS, ANNUAL AVERAGE:
TOTAL, 2003 TO 2017, AND BY SEX, 2003 TO 2013**

[The federal minimum wage applies if higher than the State minimum wage. In 2003 to 2006, the federal rate had been higher but between July 24, 2007 and December 31, 2014 they were both \$7.25 per hour. On January 1, 2015, Hawaii's rose to \$7.75; on January 1, 2016 to \$8.50; January 1, 2017 to \$9.25; and \$10.50 on January 1, 2018. See Table 12.42 for chronology]

Group and year	Number of workers (in 1,000)				Workers paid hourly rates (in percent)			Median earnings (in dollars)
	Total paid hourly rates	At or below Federal minimum wage			At or below Federal minimum wage			
		Total	At	Below	Total	At	Below	
Total								
2003	309	4	1	3	1.3	0.3	1.0	11.16
2004	329	5	1	4	1.5	0.3	1.2	11.13
2005	341	4	(1/)	4	1.2	0.0	1.2	12.04
2006	347	4	1	3	1.2	0.3	0.9	12.30
2007	338	4	(1/)	4	1.2	0.0	1.2	12.81
2008	338	5	(1/)	5	1.5	0.0	1.5	13.05
2009	320	9	3	6	2.8	0.9	1.9	13.11
2010	318	15	8	7	4.7	2.5	2.2	13.82
2011	321	15	8	7	4.7	2.5	2.2	13.57
2012	331	14	7	7	4.2	2.1	2.1	14.26
2013	325	15	10	5	4.6	3.1	1.5	13.62
2014	335	17	12	5	5.1	3.6	1.5	(NA)
2015	356	10	5	5	2.8	1.5	1.3	(NA)
2016	363	5	1	4	1.3	0.3	1.1	(NA)
2017	372	6	1	5	1.7	0.3	1.4	(NA)
Men								
2003	160	2	1	1	1.3	0.6	0.6	12.03
2004	169	1	(1/)	1	0.6	0.0	0.6	12.19
2005	168	1	(1/)	1	0.6	0.0	0.6	13.21
2006	174	1	(1/)	1	0.6	0.0	0.6	13.86
2007	174	1	(1/)	1	0.6	0.0	0.6	14.67
2008	175	3	(1/)	3	1.7	0.0	1.7	14.01
2009	165	4	1	3	2.4	0.6	1.8	14.72
2010	160	5	3	2	3.1	1.9	1.3	14.95
2011	160	8	4	4	5.0	2.5	2.5	14.67
2012	177	7	4	3	4.0	2.3	1.7	14.97
2013	168	7	4	3	4.2	2.4	1.8	14.39

Continued on next page.

**Table 12.44-- MINIMUM WAGE WORKERS, ANNUAL AVERAGE:
TOTAL, 2003 TO 2017, AND BY SEX, 2003 TO 2013 -- Con.**

Group and year	Number of workers (in 1,000)				Workers paid hourly rates (in percent)			Median earnings (in dollars)
	Total paid hourly rates	At or below Federal minimum wage			At or below Federal minimum wage			
		Total	At	Below	Total	At	Below	
Women								
2003	149	2	-	2	1.3	0.0	1.3	10.12
2004	160	3	(1/)	3	1.9	0.0	1.9	10.12
2005	173	3	(1/)	3	1.7	0.0	1.7	10.98
2006	173	3	1	2	1.7	0.6	1.2	11.08
2007	164	3	(1/)	3	1.8	0.0	1.8	11.71
2008	163	3	-	3	1.8	0.0	1.8	12.14
2009	155	5	2	3	3.2	1.3	1.9	12.02
2010	158	10	5	5	6.3	3.2	3.2	12.19
2011	161	7	4	3	4.3	2.5	1.9	12.54
2012	154	7	4	3	4.5	2.6	1.9	13.31
2013	157	7	5	2	4.5	3.2	1.3	12.84

NA Not available.

1/ Rounds to less than 0.5.

Source: U. S. Department of Labor, West Information Office, "Minimum Wage Workers in Hawaii - 2013" 14-898-SAN (June 25, 2014) <<http://www.bls.gov/ro9/mwhi.pdf>> accessed July 19, 2014; U.S. Bureau of Labor Statistics, *Characteristics of minimum wage workers*, "Table 3. Wage and salary workers paid hourly rates with earnings at or below the prevailing federal minimum wage, by state" (annual) <https://www.bls.gov/opub/reports/#cps_minimum_wage> accessed July 6, 2018.

Table 12.45-- COMPENSATION OF LEADERS OF LARGE LABOR UNIONS: 2007 AND 2008

[In order of decreasing 2008 compensation]

Executive	Labor union	Members in 2008	Compensation	
			2007	2008
T. George Paris, Director	Hawaii Iron Workers' Stabilization Fund	(X)	251,371	403,439
Lynn Kinney, Secretary/treasurer	Painters AFL-CIO District Council 50	(X)	286,427	285,926
Reginald Castanares, Financial sec't'y	Plumbers Local 675	1,965	153,258	240,325
Ronald Taketa, Financial sec't'y	Hawaii Carpenters Union	7,200	210,157	219,445
J.N. Musto, Executive director	Univ. of Hawaii Professional Assembly	3,898	176,768	193,417
Patrick Loo, President	Food & Commercial Workers Union, Local 480	1,963	176,097	184,413
Gerald Yuh, Bus. Mgr./financial sec't'y	Int'l Brotherhood Elect. Workers, Local 1186	3,249	183,767	164,655
Rodney Capello, Bus. mgr./sec't'y/treas. 1/	Hawaii Electrical Workers 1/	198	1/ 39,947	163,185
Dayton Nakanelua, State director	United Public Workers	14,155	133,836	142,765
Arthur Tolentino, Financial sec't'y/bus. mgr.	Sheet Metal Workers Local 293	770	117,095	124,616
Ronan Kozuma, President	Teamsters Local 996	6,062	112,453	124,428
Joseph O' Donnell, Financial sec't'y/bus. mgr.	Ironworkers AFL-CIO Local 625	780	106,772	121,260
John Jumalon, Bus. mgr./financial sec't'y	Int'l Brotherhood Elect. Workers, Local 1260	2,832	58,406	118,961
Scot Long, Bus. mgr./financial sec't'y	Int'l Brotherhood Elect. Workers, Local 1357	1,616	109,391	118,502
Mike McCartney, Executive director	Hawaii State Teachers Association (from Sept. 2007)	(NA)	(X)	112,261
Randolf Kauhane, AGC	Machinists Union District Lodge 141	33,254	104,718	107,264
Fred Galdones, President	Int'l Longshore Emp. & Warehouse (ILWU), Local 142	18,046	100,475	103,946
Vaughn Chong, Financial sec't'y/bus. mgr.	Roofers AFL-CIO Local 221	284	98,077	99,081
William Hong, Executive director	Building & Construction Trades Council	(X)	94,068	94,068
Randy Perreira, Executive director	Hawaii Gov't Employees Ass'n, AFSCME Local 152	(NA)	(X)	90,906
Wayne Cahill, Administrative officer	Communications Workers Local 39117	516	85,030	84,495
Eric Gill, Financial sec't'y/treasurer	Unite Here Local 5	10,112	68,220	77,630
Lawrence Correa, President	Bricklayers Union	1,257	64,579	69,971
Nolan Moriwaki, Financial secretary	Plasterers & Cement Masons Local 630	1,009	68,497	66,622
Jerry Ahue, President	Communications Workers Local 1491	169	75,044	50,905
Stuart McKinley, Executive director	Hawaii Nurses' Association	3,606	(X)	30,850
Gerald Liu, Secretary/treasurer	Machinists Union Lodge 1479	3,190	30,941	30,514

X Not applicable.

NA Not available.

1/ Reflects a *Honolulu Advertiser* 'Correction' to the August 2, 2009 article correcting Mr. Cappello's affiliation and clarifying that the 2007 income is for a 3-month period.

Source: *Honolulu Advertiser*, "As unions struggle, leaders' pay goes up" (August 2, 2009)

<<http://www.honoluluadvertiser.com/article/20090802/NEWS01/908020365/As+unions+struggle++leaders++pay+goes+up>> accessed August 2, 2009 and 'Corrections' <<http://www.honoluluadvertiser.com/article/99999999/NEWS49/80319019/1340>> accessed August 5, 2009.

**Table 12.46-- AVERAGE AND TOTAL WEEKLY HOURS AT WORK:
2000 TO 2016**

[In thousands of persons and number of hours. No reports were issued for 2005 to 2007]

Year	Weekly hours								Average hours	
	Total	1 to 14 hours	15 to 29 hours	30 to 34 hours	35 to 39 hours	40 hours	41 to 48 hours	49 hrs. & over	Total at work	Persons who usually work full-time
2000	544	26	74	39	29	243	43	91	40.3	43.9
2001	550	28	75	48	31	235	42	91	38.4	42.4
2002	534	24	70	39	24	253	38	87	38.6	42.3
2003	569	26	71	41	26	279	37	89	38.6	42.3
2004	567	25	68	44	31	276	38	85	38.6	42.1
2008	602	29	81	44	28	293	36	91	38.2	41.9
2009	560	31	78	58	30	255	32	76	37.4	41.1
2010	558	29	76	53	32	262	31	75	37.6	41.4
2011	598	30	80	46	26	309	34	74	37.6	41.5
2012	585	29	73	44	27	303	30	79	37.9	41.7
2013	592	25	73	40	26	319	28	82	38.4	42.0
2014	618	27	82	43	24	328	31	84	38.1	41.9
2015	631	30	86	49	26	333	29	78	37.6	41.6
2016	642	24	77	42	27	360	32	80	38.3	41.7

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 2004* (Bulletin 2716) table 22 <<http://www.bls.gov/opub/gp/laugp.htm>> accessed January 16, 2009; Ibid. *2008* (Bulletin 2737, March 2010) <http://www.bls.gov/opub/gp/pdf/gp08_16.pdf> accessed March 2, 2010; Ibid. *2009*, (Bulletin 2748, July 2010) <http://www.bls.gov/opub/gp/pdf/gp09_22.pdf> accessed March 16, 2011; Ibid. *2010* <http://www.bls.gov/opub/gp/pdf/gp10_22.pdf> accessed June 1, 2012; Ibid. *2011* <http://www.bls.gov/opub/gp/pdf/gp11_22.pdf> accessed May 15, 2013; Ibid. *2012* <http://www.bls.gov/opub/gp/pdf/gp12_22.pdf> accessed March 4, 2014; Ibid. *2013* <http://www.bls.gov/opub/gp/pdf/gp13_22.pdf> accessed March 18, 2015; Ibid. *2014* <http://www.bls.gov/opub/gp/pdf/gp14_22.pdf> accessed February 29, 2016; Ibid. *2015* (May 24, 2018) <<https://www.bls.gov/opub/geographic-profile/2015/home.htm>> accessed July 17, 2018; Ibid. *2016* (July 17, 2018) <<https://www.bls.gov/opub/geographic-profile/home.htm>> accessed July 18, 2018; and earlier reports.

**Table 12.47-- INTERSTATE MOVEMENT OF JOB-SEEKERS PARTICIPATING
IN THE UNEMPLOYMENT INSURANCE PROGRAM: 1949 TO 2017**

Year	Island workers on Mainland 1/	Mainland workers in Hawaii 2/	Ratio 3/	Year	Island workers on Mainland 1/	Mainland workers in Hawaii 2/	Ratio 3/
1949	1,030	711	69	1984	4,123	4,220	102
1950	966	1,105	114	1985	4,039	3,993	99
1951	377	1,139	302	1986	3,664	3,932	107
1952	455	1,667	366	1987	3,805	3,161	83
1953	576	1,775	308	1988	3,942	2,974	75
1954	907	1,698	187	1989	3,961	2,679	68
1955	665	1,812	272	1990	5,275	2,910	55
1956	686	1,617	236	1991	7,197	3,453	48
1957	1,100	1,813	165	1992	9,554	4,432	46
1958	1,547	2,219	143	1993	9,543	4,356	46
1959	1,280	2,126	166	1994	10,121	4,229	42
1960	1,716	2,595	151	1995	10,115	4,000	40
1961	2,863	3,235	113	1996	8,633	3,338	39
1962	2,966	3,594	121	1997	7,051	2,356	33
1963	2,683	3,787	141	1998	4,366	2,720	62
1964	2,572	3,705	144	1999	3,511	2,572	73
1965	2,257	3,411	151	2000	2,845	2,910	102
1966	1,859	2,655	143	2001	3,423	3,611	105
1967	2,196	3,102	141	2002	3,223	4,325	134
1968	2,014	2,896	144	2003	2,826	4,247	150
1969	2,652	3,600	136	2004	2,359	3,209	136
1970	5,078	6,062	119	2005	2,399	2,680	112
1971	6,215	6,908	111	2006	2,731	2,273	83
1972	6,124	5,994	98	2007	3,028	2,163	71
1973	5,255	6,116	116	2008	3,986	2,559	64
1974	5,924	6,988	118	2009	4,072	3,842	94
1975	7,607	8,785	115	2010	3,214	3,478	108
1976	7,458	8,334	112	2011	3,148	3,384	107
1977	5,846	8,154	139	2012	3,001	2,896	97
1978	4,313	6,261	145	2013	3,187	2,608	82
1979	4,272	5,250	123	2014	3,316	2,054	62
1980	5,211	4,956	95	2015	3,060	1,742	57
1981	5,485	4,396	80	2016	3,038	1,514	50
1982	5,372	4,848	90	2017	2,691	1,378	51
1983	4,414	4,659	106				

1/ Interstate liable initial claims, State Unemployment Insurance Program (UI), excluding Federal Unemployment Compensation for Federal Employees program (UCFE) and Federal Unemployment Compensation for Ex-Service members program (UCX). Covers Hawaii workers seeking work and filing for benefits on the Mainland.

2/ Interstate agent initial claims (UI), excluding UCFE and UCX. Covers former Mainland workers living in Hawaii and filing unemployment insurance claims against their former Mainland employers.

3/ Interstate agent initial claims as a percent of interstate liable initial claims. Ratios under 100 suggest a net out-migration of workers.

Source: Hawaii State Department of Labor and Industrial Relations, Research & Statistics Office, Operations Management Information Section (OMI), records.

**Table 12.48-- NONFATAL OCCUPATIONAL INJURIES AND ILLNESSES,
PRIVATE INDUSTRY: 1995 TO 2016**

[Numbers in thousands. Beginning in 2003, industries are according to the North American Industry Classification System (NAICS) Manual, 2002 and prior to 2003, industries are according to Standard Industrial Classification (SIC), 1987]

Subject	Total cases		Lost workday cases 1/		Cases without lost workdays
	Number	Per 100 full-time workers	Number	Per 100 full-time workers	
Injuries and illnesses					
1995	27.1	8.0	13.9	4.1	13.1
1996	23.0	6.8	12.1	3.6	10.8
1997	23.5	6.8	12.8	3.7	10.7
1998	21.2	6.5	12.1	3.7	9.1
1999	20.5	6.0	11.4	3.4	9.1
2000	21.4	6.0	12.4	3.5	9.1
2001	20.4	5.7	11.8	3.3	8.6
Injuries					
1995	26.2	7.7	13.4	4.0	12.8
1996	21.9	6.5	11.6	3.4	10.3
1997	22.7	6.6	12.4	3.6	10.3
1998	20.4	6.3	11.7	3.6	8.7
1999	19.7	5.8	11.0	3.2	8.7
2000	20.7	5.8	11.9	3.4	8.8
2001	19.3	5.4	11.1	3.1	8.1
Injuries and illnesses 2/					
2002	19.5	5.8	3/ 11.8	3/ 3.5	7.8
2003	18.6	5.4	3/ 11.6	3/ 3.4	7.0
2004	17.8	4.9	3/ 10.7	3/ 3.0	7.1
2005	18.5	4.9	3/ 11.5	3/ 3.1	7.0
2006	18.2	4.8	3/ 11.5	3/ 3.0	6.7
2007	18.1	4.6	3/ 11.8	3/ 3.0	6.3
2008	16.7	4.3	3/ 10.4	3/ 2.6	6.3
2009	14.9	4.0	3/ 8.9	3/ 2.4	6.0
2010	14.0	3.9	3/ 8.2	3/ 2.3	5.8
2011	12.7	3.5	3/ 7.6	3/ 2.1	5.0
2012	13.7	3.8	3/ 8.2	3/ 2.3	5.5
2013	13.5	3.7	3/ 8.2	3/ 2.3	5.2
2014	14.3	3.7	3/ 8.6	3/ 2.2	5.7
2015	13.1	3.4	3/ 7.9	3/ 2.1	5.3
2016	13.7	3.5	3/ 8.1	3/ 2.1	5.6

1/ Days away from work, or days of restricted work activity, or both.

2/ Beginning in 2002, the categories of illnesses were expanded and data not comparable to previous years.

3/ Days away from work, job transfer, or restriction.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, *Occupational Injuries and Illnesses Survey* (annual); U.S. Bureau of Labor Statistics, "State Occupational Injuries, Illnesses, and Fatalities" <<http://www.bls.gov/iif/oshstate.htm#HI>> accessed July 5, 2018.

Table 12.49-- FATAL OCCUPATIONAL INJURIES BY EVENT OR EXPOSURE: 2011 TO 2016

[All workers who died in Hawaii while working, including military personnel, federal government workers and nonresidents, but not residents who died out-of-state. See also "National Census of Fatal Occupational Injuries in 2016" (December 19, 2017) <<https://www.bls.gov/news.release/pdf/cfoi.pdf>>. Components may not sum to totals]

Event or exposure 1/	2011	2012	2013	2014	2015	2016
Total	26	20	11	31	18	29
Violence & other inj. by persons or animals 2/	(3/)	4	(3/)	4	5	(3/)
Transportation incidents 4/	10	3	4	14	6	20
Fires and explosions	5	(3/)	(3/)	(3/)	(3/)	(3/)
Falls, slips, trips	6	8	4	7	3	5
Exposure to harmful substances or environ.	2	(3/)	2	(3/)	3	(3/)
Contact with objects and equipment	(3/)	4	(3/)	3	(3/)	1

1/ There have been major revisions to the Occupational Injury and Illness Classification System (OIICS), which is used to describe the characteristics of fatal work injuries. Data for the OIICS case characteristics for 2011 represent a break in series with data for prior years. Subsequent revisions may provide partial reclassified data. More information on OIICS can be found at <www.bls.gov/iif/oshioics.htm>.

2/ Includes violence by persons, self-inflicted injuries, and attacks by animals.

3/ Indicates no data reported or data that do not meet publication standards.

4/ Includes highway, nonhighway, air, water, and rail fatal injuries, and fatal injuries resulting from being struck by a vehicle.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, "Census of Fatal Occupational Injuries (2011 forward)" <<https://data.bls.gov/PDQWeb/fw>> accessed December 19, 2017; "Census of Fatal Occupational Injuries Summary, 2016" <<https://www.bls.gov/iif/oshwc/cfoi/tgs/2016/iiffw15.htm>> accessed July 18, 2018.

Table 12.50-- FATAL OCCUPATIONAL INJURIES FOR HAWAII AND THE UNITED STATES: 1992 TO 2016

[All workers who died in Hawaii or the United States while working, including military personnel, federal government workers and nonresidents, but not residents who died out-of-state or out-of-the-country]

Year	Hawaii	United States	Year	Hawaii	United States
1992	28	6,217	2006	30	5,840
1993	26	6,331	2007	23	5,657
1994	21	6,632	2008	19	5,214
1995	24	6,275	2009	13	4,551
1996	27	6,202	2010	19	4,690
1997	19	6,238			
1998	12	6,055	Revised OIICS 2/		
1999	32	6,054	2011	26	4,693
2000	20	5,920	2012	20	4,628
2001 1/	41	5,915	2013	11	4,585
2002	24	5,534	2014	31	4,821
2003	21	5,575	2015	18	4,836
2004	25	5,764	2016	29	5,190
2005	15	5,734			

1/ Totals for 2001 exclude fatalities resulting from the September 11 terrorist attacks.

2/ The 2011 data incorporate a major revision in the Occupational Injury and Illness Classification System (OIICS), which is used to describe the characteristics of fatal work injuries. Because of the extensive revisions, data for the OIICS case characteristics for reference year 2011 represent a break in series with data for prior years. See also "Occupational Injury and Illness Classification Manual" <<http://www.bls.gov/iif/oshoiics.htm>>.

Source: U.S. Bureau of Labor Statistics, *Census of Fatal Occupational Injuries All Worker Profile, 1992-2002* (revised data, January 7, 2005) <<http://www.bls.gov/iif/oshwc/foi/cftb0186.pdf>> accessed April 21, 2005; *Census of Fatal Occupational Injuries (CFOI) - Current and Revised Data*, "Census of Fatal Occupational Injuries Charts, 1992-2015 (revised data)" <<http://www.bls.gov/iif/oshcfoi1.htm>> accessed January 5, 2017; <<https://www.bls.gov/news.release/foi.nr0.htm>> accessed December 19, 2017; *State Occupational Injuries, Illnesses, and Fatalities*, "Fatal occupational injuries by selected characteristics, by major event or exposure, Hawaii" (annual) <<http://www.bls.gov/iif/oshstate.htm#HI>> accessed December 19, 2017.

**Table 12.51-- WORK INJURIES, DEATHS, TIME LOST AND
COMPENSATION COSTS: 1990 TO 2016**

Year	Reported cases	Reported deaths	Time lost (compensated days)	Compensation costs (\$1,000)
1990	53,050	59	1,434,262	218,837
1991	56,738	51	1,636,375	234,971
1992	49,204	42	1,832,901	288,003
1993	46,762	33	1,957,217	323,763
1994	42,658	41	1,821,164	343,080
1995	37,476	26	1,571,539	326,123
1996	33,628	29	1,371,739	288,495
1997	33,255	30	1,258,468	254,915
1998	30,727	17	1,160,365	233,225
1999	30,309	26	1,108,149	222,056
2000	31,836	34	1,151,879	231,359
2001	30,179	34	1,263,787	252,041
2002	29,757	31	1,277,863	267,827
2003	28,668	27	1,324,577	274,922
2004	26,321	32	1,186,798	271,290
2005	28,018	21	1,094,172	250,779
2006	27,440	32	946,149	242,685
2007	26,105	27	961,564	247,294
2008	24,542	26	957,146	245,763
2009	21,520	20	910,488	244,375
2010	20,654	27	927,096	242,400
2011	20,515	24	945,665	246,780
2012	21,052	22	952,758	248,433
2013	20,721	22	999,969	260,352
2014	20,693	29	1,026,696	270,720
2015	20,805	27	1,129,742	298,237
2016	21,042	33	1,128,972	306,058

Source: Hawaii State Department of Labor and Industrial Relations, *Workers' Compensation Data Book* (annual) and for 1993 to 2016
<<http://labor.hawaii.gov/rs/home/work-injuries-and-illnesses/workers-compensation-data/>> accessed March 15, 2018.

Table 12.52-- UNION AFFILIATION OF EMPLOYED WAGE AND SALARY WORKERS FOR HAWAII AND THE UNITED STATES: 2000 TO 2017

[Data reflect annually revised population controls used in the Current Population Survey which is a monthly survey of households conducted by the U.S. Census Bureau for the U.S. Bureau of Labor Statistics. Data refer to the sole or principal job of full- and part-time workers 16 years and over. Excluded are all self-employed workers regardless of whether or not their businesses are incorporated]

Year	Hawaii					United States				
	Total employed (1,000)	Members of unions (1,000) 1/		Represented by unions (1,000) 2/		Total employed (1,000)	Members of unions (1,000) 1/		Represented by unions (1,000) 2/	
		Total	Percent of employed	Total	Percent of employed		Total	Percent of employed	Total	Percent of employed
2000	503	125	24.8	131	26.0	122,089	16,334	13.4	18,153	14.9
2001	515	118	22.9	129	25.0	122,229	16,305	13.3	18,026	14.7
2002	490	120	24.5	124	25.3	121,826	16,145	13.3	17,695	14.5
2003	511	122	23.8	127	24.8	122,358	15,776	12.9	17,448	14.3
2004	533	126	23.7	132	24.8	123,554	15,472	12.5	17,087	13.8
2005	545	141	25.8	145	26.7	125,889	15,685	12.5	17,223	13.7
2006	562	139	24.7	146	25.9	128,237	15,359	12.0	16,860	13.1
2007	556	130	23.4	135	24.2	129,767	15,670	12.1	17,243	13.3
2008	562	136	24.3	143	25.5	129,377	16,098	12.4	17,761	13.7
2009	526	123	23.5	128	24.3	124,490	15,327	12.3	16,904	13.6
2010	511	111	21.8	120	23.5	124,073	14,715	11.9	16,290	13.1
2011	525	113	21.5	118	22.5	125,187	14,764	11.8	16,290	13.0
2012	537	116	21.6	124	23.2	127,577	14,366	11.3	15,922	12.5
2013	549	121	22.1	129	23.6	129,110	14,528	11.3	16,028	12.4
2014	572	124	21.8	131	22.9	131,431	14,576	11.1	16,152	12.3
2015	583	119	20.4	126	21.7	133,743	14,795	11.1	16,441	12.3
2016	597	119	19.9	125	20.9	136,101	14,555	10.7	16,271	12.0
2017	605	129	21.3	139	22.9	137,890	14,817	10.7	16,444	11.9

1/ Members of a labor union or an employee association similar to a union.

2/ Members of a labor union or an employee association similar to a union as well as workers who report no union affiliation but whose jobs are covered by a union or an employee association contract.

Source: U.S. Bureau of Labor Statistics, "Union Members - 2017" (USDLE-18-0080, January 19, 2018) <<http://www.bls.gov/news.release/union2.toc.htm>> accessed January 19, 2018 and earlier annual releases. See also "Access to Historical Data for the Tables of the Union Membership News Release", tables 1 and 5 <<http://www.bls.gov/cps/cpslutabs.htm>> accessed January 19, 2018.

**Table 12.53-- LABOR UNIONS AND MEMBERSHIP: 2007- 2008 AND
2009- 2010**

Subject	Total	AFL-CIO affiliated	Independent
2007- 2008			
Unions	112	93	19
Membership	1/ 2/ 169,127	1/ 106,439	2/ 62,688
2009- 2010			
Unions	114	95	19
Membership	3/ 4/ 177,538	3/ 106,750	4/ 70,788

1/ Excluded are four unions not reporting membership for Hawaii: Electrical Workers Hawaii Local 368-E; Marine Firemen, Oilers, Watertenders and Wipers Association, Pacific Coast (total membership of 1,000 includes San Francisco, Wilmington, Seattle and Honolulu); Teachers, Hawaii Federation of Local 1127; United Public Workers, AFSCME, Local 646. The largest memberships reported: Hawaii Government Employees Association, AFSCME, Local 152 (42,700) and the Longshore and Warehouse Union, International Local 142 (22,000).

2/ Excluded is one union not reporting membership: Collective Bargaining Organization of Hawaii Nurses' Association. The largest memberships reported: Teamsters, Chauffeurs, Warehousemen and Helpers of America, International Brotherhood Airlines Division Local 986 (22,000); Hawaii State Teachers' Association (12,600); and UNITE HERE (Hotel Employees & Restaurant Employees) Local 5 (10,800).

3/ Excluded are six unions not reporting membership for Hawaii: Electrical Workers Hawaii Local 368-E; Marine Firemen, Oilers, Watertenders and Wipers Association, Pacific Coast (total membership of 1,000 includes San Francisco, Wilmington, Seattle and Honolulu); American Federation of Government Employees Local 1234; Teachers, Hawaii Federation of Local 1127; United Steel Workers Local 12-369; and United Public Workers, AFSCME, Local 646. The largest memberships reported: Hawaii Government Employees Association, AFSCME, Local 152 (43,757) and the Longshore and Warehouse Union, International Local 142 (20,900).

4/ Excluded is one union not reporting membership: Collective Bargaining Organization of Hawaii Nurses' Association. The largest memberships reported: Teamsters, Chauffeurs, Warehousemen and Helpers of America, International Brotherhood Airlines Division Local 986 (22,000); Hawaii State Teachers' Association (13,700); and UNITE HERE (Hotel Employees & Restaurant Employees) Local 5 (10,800).

Source: Hawaii State AFL-CIO, *Directory of Labor Organizations and Affiliates, 2007-2008*, and *Ibid. 2009-2010*; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 12.54-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS,
BY EMPLOYING JURISDICTION: 1999 TO 2016**

[As of December 31]

Year	Total	State of Hawaii	City & County of Honolulu	County of Hawaii	County of Maui	County of Kauai	Dept. of Educ.	Judiciary	University of Hawaii	HHSC 1/
1999	54,778	23,484	7,995	1,815	1,632	875	13,113	1,434	4,430	(2/)
2000	56,426	22,052	7,945	1,852	1,670	881	13,276	1,445	4,539	2,766
2001	58,084	22,639	8,077	1,874	1,705	908	13,707	1,484	4,613	3,077
2002	59,320	21,454	7,907	1,834	1,776	918	13,710	1,546	6,321	3,854
2003	58,079	20,746	7,924	1,874	1,780	921	13,517	1,485	6,516	3,316
2004	64,040	18,436	7,916	1,937	1,790	938	21,789	1,376	6,667	3,191
2005	59,316	13,624	7,863	1,938	1,839	840	21,727	1,394	6,837	3,254
2006	60,256	13,656	8,063	2,056	1,869	942	21,879	1,525	7,035	3,231
2006	60,256	13,656	8,063	2,056	1,869	942	21,879	1,525	7,035	3,231
2007	60,934	12,988	8,200	2,153	1,915	978	22,238	1,580	7,264	3,618
2008	61,684	13,356	8,411	2,294	2,037	988	22,059	1,507	7,512	3,520
2009	61,528	13,478	8,253	2,241	2,118	987	22,101	1,567	7,363	3,420
2010	59,573	12,362	8,044	2,193	2,133	841	21,598	1,599	7,178	3,625
2011	59,516	12,105	7,884	2,171	2,110	1,024	21,551	1,587	7,335	3,749
2012	60,030	12,458	7,804	2,186	2,068	1,140	21,456	1,575	7,472	3,871
2013	60,830	12,437	7,994	2,229	2,217	1,043	21,801	1,598	7,626	3,885
2014 3/	61,086	12,773	8,181	2,286	2,101	1,119	21,714	1,607	7,519	3,786
2015 3/	60,729	12,368	8,172	2,306	2,125	1,082	21,562	1,599	7,410	4,105
2016 3/	60,607	12,848	8,209	2,322	2,153	1,084	21,633	1,554	7,349	3,455

1/ HHSC is the Hawaii Health Systems Corporation.

2/ Included in 'State of Hawaii'.

3/ In 2014 includes 152 employees; in 2015, 212 employees, and in 2016, 771 employees in new Bargaining Unit 14 - State law enforcement officers and state and county ocean safety and water safety officers. See Table 9.75 for number of employees by bargaining unit and employer.

Source: Hawaii Labor Relations Board, *HLRB Informational Bulletin, No. 41*, April 2, 2003 and revised August 12, 2003; *No. 42*, May 14, 2004; *No. 43*, June 23, 2005; *No. 44*, April 5, 2006; *No. 45*, April 5, 2007; *No. 46*, March 3, 2008; *No. 47*, March 3, 2009; *No. 48*, March 16, 2010; *No. 49*, June 30, 2011 and unpublished correction; *No. 50*, April 9, 2012; *No. 51*, April 30, 2013; *No. 52*, April 23, 2014; *No. 53*, May 22, 2015; *No. 54 Revised*, April 7, 2016 and unpublished correction; *No. 55*, April 12, 2017; and earlier issues; for *No. 43* to *No. 53*, see also <<http://labor.hawaii.gov/hlrp/find-a-report/>> accessed July 19, 2017.

Table 12.55-- COLLECTIVE BARGAINING AGREEMENTS: 1964 TO 2018

Year	Number of agreements	Workers covered		Year	Number of agreements	Workers covered	
		Total	Average per agreement			Total	Average per agreement
1964	275	(NA)	(NA)	1992	1,413	21,400	15
1965	309	31,500	102	1993	369	65,900	179
1966	277	23,800	86	1994	84	8,000	95
1967	257	15,900	62	1995	270	57,300	212
1968	172	15,400	90	1996	136	49,250	362
1969	296	19,100	65	1997	1,334	62,800	47
1970	190	14,900	78	1998	786	18,900	24
1971	151	9,800	65	1999	123	65,890	536
1972	511	47,100	92	2000	(1/)	(1/)	(1/)
1973	390	28,000	72	2001	(1/)	(1/)	(1/)
1974	223	34,700	156	2002	1,187	21,550	18
1975	1,265	36,100	29	2003	252	69,800	277
1976	380	57,450	151	2004	71	8,900	125
1977	2,255	87,350	39	2005	199	61,430	309
1978	967	29,500	31	2006	74	10,850	147
1979	312	61,600	198	2007	249	73,210	294
1980	2,298	49,900	22	2008	202	13,440	67
1981	267	53,700	201	2009	63	66,720	1,059
1982	379	27,400	72	2010	(1/)	(1/)	(1/)
1983	1,019	68,000	67	2011	(1/)	(1/)	(1/)
1984	901	26,200	29	2012	76	9,598	126
1985	350	58,450	167	2013	76	12,528	165
1986	138	13,550	98	2014	90	15,000	167
1987	1,375	80,400	58	2015	74	45,500	615
1988	433	16,290	38	2016	50	3,450	69
1989	104	50,950	490	2017	56	63,000	1,125
1990	194	24,300	125	2018	58	7,644	132
1991	107	23,700	221				

NA Not available.

1/ Report had been suspended in 2000 and 2001, and in 2010 and 2011.

Source: University of Hawaii at Manoa, Industrial Relations Center, *Duration of Collective Bargaining Agreements in Hawaii, 2009*, Occasional Publication No. 188 (January 2009), p. 1; and *Ibid. Hawaii Collective Bargaining Agreement Expirations & Reopenings* (annual), p. 1; and calculations by Hawaii Department of Business, Economic Development & Tourism.

Table 12.56-- WORK STOPPAGES: 1990 TO 2017

[Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. Data are limited to stoppages begun or in progress during the week containing the 12th of each month]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1990	13	7,415	119,509
1991	-	-	-
1992	-	-	-
1993	2	160	6,018
1994 3/	3	12,202	109,529
1995	-	-	-
1996	1	13	715
1997	-	-	-
1998	1	150	(NA)
1999	-	-	-
2000	-	-	-
2001	2	15,100	195,900
2002	1	1,170	(NA)
2003	5	2,680	(NA)
2004	2	210	(NA)
2005	1	25	(NA)
2006	2	150	(NA)
2007	-	-	-
2008	-	-	-
2009	-	-	-
2010	3	1,725	(NA)
2011	3	2,461	(NA)
2012	-	-	-
2013	-	-	-
2014	-	-	-
2015 4/	-	-	-
2016	-	-	-
2017	-	-	-

NA Not available.

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

3/ Data exclude Hawaii Government Employees' Association (HGEA) strikers in Hawaii County.

4/ The strike by Local 5 employees at Kaiser-Permanente was February 2-7 and not during the DLIR criterion for the workweek containing the 12th.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, unpublished estimates. See also U.S. Bureau of Labor Statistics, "Major Work Stoppages" (annual) <<http://www.bls.gov/wsp/>> accessed February 9, 2018.

**Table 12.57-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS:
1983 TO 2017**

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1983	1	2,800	5,600	0.01
1984	1	1,000	70,000	0.01
1985	1	1,000	11,000	0.01
1986-1993	-	-	-	-
1994	1	15,800	136,500	(NA)
1995-2000	-	-	-	-
2001	2	15,100	195,900	(NA)
2002	1	1,170	(NA)	(NA)
2003	2	2,470	(NA)	(NA)
2004-2009	-	-	-	-
2010	1	1,185	(NA)	(NA)
2011	1	1,261	(NA)	(NA)
2012-2017	-	-	-	-

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, unpublished estimates. See also U.S. Bureau of Labor Statistics, "Major Work Stoppages" (annual) <<http://www.bls.gov/wsp/>> accessed February 9, 2018.

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on different aspects of income and expenditures, relating to state personal income, gross domestic product and to the distribution of income to families, households and individuals. Specifically, information is given on gross domestic product by industry; personal, family and household income; poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 9, 12, and 22; on industrial payrolls, in Sections 12, 15, and 20 through 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 10 and 11; on taxable income, in Section 9.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Census Bureau, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, U.S. Internal Revenue Service; and USDA, NASS, Hawaii Field Office, and Hawaii State Department of Business, Economic Development & Tourism. Sections 6 and 7 of *Historical Statistics of Hawaii* present data for earlier years. Comparable data for the country as a whole are given in the *Statistical Abstract of the United States: 2012*, Section 13.

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**Table 13.01-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1990 TO 2016**

[In millions of dollars]

Year	Value of production		Defense expenditures 2/	Visitor expenditures 3/
	Raw sugar and molasses 1/	Fresh & processed pineapple		
1990	328.9	215.9	2,713.1	8,825.9
1991	270.7	224.6	3,078.7	9,142.6
1992	237.6	197.7	3,063.5	8,754.5
1993	251.9	140.6	3,127.5	7,928.6
1994	247.9	134.1	3,403.8	9,677.0
1995	200.2	135.0	3,087.5	10,207.9
1996	168.8	147.0	3,436.0	9,709.3
1997	132.5	136.7	3,407.8	10,249.4
1998	133.1	145.1	3,609.8	10,058.8
1999	131.3	144.8	3,577.5	10,005.1
2000	95.9	132.2	3,722.8	10,590.1
2001	90.6	136.6	3,991.9	9,061.3
2002	100.3	144.0	4,304.8	9,608.9
2003	99.0	142.9	4,842.1	10,054.5
2004	94.1	123.2	4,761.3	10,861.8
2005	92.5	113.4	5,015.3	11,904.0
2006	79.7	(NA)	5,379.2	12,491.6
2007	76.3	(NA)	5,466.7	12,811.1
2008	71.4	(NA)	6,107.2	11,398.5
2009	73.6	(NA)	8,319.7	9,993.2
2010	109.6	(NA)	9,995.0	11,066.3
2011	125.2	(NA)	(NA)	12,158.2
2012	(NA)	(NA)	(NA)	14,364.8
2013	(NA)	(NA)	(NA)	14,520.5
2014	(NA)	(NA)	(NA)	14,973.3
2015	(NA)	(NA)	(NA)	15,110.9
2016	(NA)	(NA)	(NA)	15,911.2

NA Not available.

1/ Excludes government sugar support payments.

2/ Fiscal year ending September 30.

3/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation. Includes additional business expenditures by MCI (meetings, conventions, and incentive) visitors. As first shown in *Data Book 2002*, 1998 implemented a revised methodology for visitor expenditures.

Source: USDA, NASS, Hawaii Field Office, *Statistics of Hawaii Agriculture* (annual), records, and for 2008 to 2011 <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp> accessed July 30, 2013; Hawaii State Department of Business, Economic Development & Tourism, *Annual Visitor Research Report* (annual) <<http://www.hawaiiourismauthority.org/>> accessed January 16, 2018 and records; Hawaii Tourism Authority, Tourism Research; and U.S. Census Bureau, *Consolidated Federal Funds Report* (annual) and for 1993-2010 <<http://www.census.gov/govs/cffr/>> accessed July 14, 2012 and records.

**Table 13.02-- GROSS DOMESTIC PRODUCT, TOTAL AND PER CAPITA
AND RESIDENT POPULATION: 1963 TO 2017**

[The North American Industry Classification System (NAICS) 2007 is the basis for 1997 to 2017 estimates. Gross Domestic Product 2014 to 2016 and population and per capita estimates 2010 to 2016 are revised from previous *Data Book*]

Year and category	Gross domestic product		Per capita gross domestic product		Resident population 2/
	Millions of current dollars	Millions of chained 1997 dollars 1/	Current dollars 2/	Chained 1997 dollars 1/	
SIC 3/					
1963	2,367	(NA)	3,471	(NA)	682,000
1964	2,571	(NA)	3,673	(NA)	700,000
1965	2,849	(NA)	4,047	(NA)	704,000
1966	3,110	(NA)	4,380	(NA)	710,000
1967	3,307	(NA)	4,574	(NA)	723,000
1968	3,722	(NA)	5,071	(NA)	734,000
1969	4,262	(NA)	5,736	(NA)	743,000
1970	4,813	(NA)	6,309	(NA)	762,920
1971	5,188	(NA)	6,554	(NA)	791,580
1972	5,624	(NA)	6,874	(NA)	818,104
1973	6,353	(NA)	7,546	(NA)	841,851
1974	7,143	(NA)	8,324	(NA)	858,121
1975	8,173	(NA)	9,340	(NA)	875,052
1976	8,526	(NA)	9,555	(NA)	892,335
1977	9,441	(NA)	10,310	(NA)	915,749
1978	10,508	(NA)	11,313	(NA)	928,816
1979	11,869	(NA)	12,493	(NA)	950,050
1980	13,380	(NA)	13,826	(NA)	967,710
1981	14,640	(NA)	14,966	(NA)	978,195
1982	15,740	(NA)	15,839	(NA)	993,780
1983	17,260	(NA)	17,043	(NA)	1,012,717
1984	19,132	(NA)	18,612	(NA)	1,027,922
1985	20,722	(NA)	19,931	(NA)	1,039,698
1986	22,437	(NA)	21,333	(NA)	1,051,762
1987	24,273	32,376	22,729	30,317	1,067,917
1988	26,799	34,587	24,818	32,030	1,079,827
1989	29,427	36,643	26,884	33,477	1,094,588
1990	32,534	39,176	29,218	35,183	1,113,491
1991	34,357	39,756	30,224	34,973	1,136,754
1992	36,129	40,834	31,183	35,244	1,158,613
1993	36,732	40,152	31,319	34,235	1,172,838
1994	37,395	40,062	31,490	33,735	1,187,536
1995	37,763	39,552	31,552	33,047	1,196,854
1996	38,125	39,132	31,672	32,508	1,203,755
1997	39,064	39,064	32,241	32,241	1,211,640

Continued on next page.

**Table 13.02-- GROSS DOMESTIC PRODUCT, TOTAL AND PER CAPITA
AND RESIDENT POPULATION: 1963 TO 2017 -- Con.**

Year and category	Gross domestic product		Per capita gross domestic product		Resident population 2/
	Millions of current dollars	Millions of chained 2009 dollars 1/	Current dollars 2/	Chained 2009 dollars 1/	
NAICS 3/					
1997	37,655	53,108	31,078	43,832	1,211,640
1998	37,585	51,723	30,928	42,562	1,215,233
1999	39,224	52,524	32,408	43,398	1,210,300
2000	41,472	53,710	34,175	44,260	1,213,519
2001	43,089	53,669	35,147	43,778	1,225,948
2002	45,581	55,358	36,770	44,658	1,239,613
2003	49,136	58,100	39,273	46,437	1,251,154
2004	53,755	61,606	42,208	48,373	1,273,569
2005	58,573	64,824	45,310	50,145	1,292,729
2006	62,054	66,313	47,379	50,631	1,309,731
2007	65,210	67,421	49,564	51,245	1,315,675
2008	66,692	67,721	50,061	50,833	1,332,213
2009	65,382	65,382	48,549	48,549	1,346,717
2010	68,225	67,403	50,025	49,422	1,363,817
2011	70,017	67,971	50,799	49,314	1,378,323
2012	72,532	68,913	52,077	49,479	1,392,772
2013	74,630	69,676	53,003	49,484	1,408,038
2014	77,035	70,306	54,338	49,591	1,417,710
2015	81,900	72,816	57,420	51,052	1,426,320
2016	84,904	74,241	59,428	51,964	1,428,683
2017	88,136	75,473	61,740	52,869	1,427,538

NA Not available.

1/ Real GDP is an inflation-adjusted measure of each state's gross product that is based on national prices for the goods and services produced within that state.

2/ U.S. Census Bureau midyear population estimate. Per capita real GDP statistics for 2010-2017 reflect Census Bureau midyear population estimates available as of December 2017. These were used to calculate the current dollar per capita GDP.

3/ There is a discontinuity in the GDP time series at 1997, where the data change from Standard Industrial Classification (SIC) industry definitions to North American Industry Classification System (NAICS) industry definitions. This discontinuity results from many sources, including differences in source data and different estimation methodologies. This data discontinuity may affect both the levels and the growth rates of the GDP estimates. Users of the GDP estimates are strongly cautioned against appending the two data series in an attempt to construct a single time series of GDP estimates for 1963 to 2015.

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product by State (May 4, 2018) <http://www.bea.gov/iTable/index_regional.cfm> accessed August 1, 2017; Ibid. Annual State Personal Income and Employment, "SA1-3 Personal income summary, Population 1929-2017" (March 22, 2018) <http://www.bea.gov/iTable/index_regional.cfm> accessed July 18, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 13.03-- GROSS DOMESTIC PRODUCT, HAWAII AND THE UNITED STATES: 1963 TO 2017

[The North American Industry Classification System (NAICS) 2007 is the basis for 1997 to 2017 estimates. 2014 to 2016 estimates are revised from previous *Data Book*]

Year and category	Hawaii			United States		
	Millions of dollars		Chained quantity index 1/ (1997=100)	Millions of dollars		Chained quantity index 1/ (1997=100)
	Current	Real 1/ (chained 1997 dollars)		Current	Real 1/ (chained 1997 dollars)	
SIC 2/						
1963	2,367	(NA)	(NA)	607,008	(NA)	(NA)
1964	2,571	(NA)	(NA)	650,513	(NA)	(NA)
1965	2,849	(NA)	(NA)	704,697	(NA)	(NA)
1966	3,110	(NA)	(NA)	767,075	(NA)	(NA)
1967	3,307	(NA)	(NA)	811,782	(NA)	(NA)
1968	3,722	(NA)	(NA)	887,569	(NA)	(NA)
1969	4,262	(NA)	(NA)	962,902	(NA)	(NA)
1970	4,813	(NA)	(NA)	1,012,299	(NA)	(NA)
1971	5,188	(NA)	(NA)	1,097,173	(NA)	(NA)
1972	5,624	(NA)	(NA)	1,210,292	(NA)	(NA)
1973	6,353	(NA)	(NA)	1,356,500	(NA)	(NA)
1974	7,143	(NA)	(NA)	1,472,024	(NA)	(NA)
1975	8,173	(NA)	(NA)	1,602,228	(NA)	(NA)
1976	8,526	(NA)	(NA)	1,780,497	(NA)	(NA)
1977	9,441	(NA)	60.618	1,986,408	(NA)	54.609
1978	10,508	(NA)	62.986	2,243,230	(NA)	57.526
1979	11,869	(NA)	66.170	2,489,416	(NA)	59.258
1980	13,380	(NA)	68.503	2,713,933	(NA)	59.254
1981	14,640	(NA)	68.231	3,057,318	(NA)	60.863
1982	15,740	(NA)	68.777	3,211,370	(NA)	60.081
1983	17,260	(NA)	71.502	3,445,372	(NA)	61.804
1984	19,132	(NA)	74.183	3,853,668	(NA)	66.212
1985	20,722	(NA)	76.728	4,126,664	(NA)	68.854
1986	22,437	(NA)	79.329	4,340,813	(NA)	70.335
1987	24,273	32,376	82.879	4,649,020	6,076,695	73.351
1988	26,799	34,587	88.539	5,053,003	6,398,624	77.237
1989	29,427	36,643	93.802	5,366,080	6,540,047	78.944
1990	32,534	39,176	100.286	5,651,747	6,638,210	80.129
1991	34,357	39,756	101.770	5,842,665	6,627,809	80.003
1992	36,129	40,834	104.532	6,167,644	6,828,525	82.426
1993	36,732	40,152	102.786	6,467,698	6,967,716	84.106
1994	37,395	40,062	102.554	6,912,844	7,288,327	87.976
1995	37,763	39,552	101.249	7,299,372	7,539,096	91.003
1996	38,125	39,132	100.175	7,749,965	7,871,721	95.018
1997	39,064	39,064	100.000	8,284,432	8,284,432	100.000

Continued on next page.

**Table 13.03-- GROSS DOMESTIC PRODUCT, HAWAII AND UNITED STATES:
1963 TO 2017 -- Con.**

Year and category	Hawaii			United States		
	Millions of dollars		Chained quantity index 1/ (2009=100)	Millions of dollars		Chained quantity index 1/ (2009=100)
	Current	Real 1/ (chained 2009 dollars)		Current	Real 1/ (chained 2009 dollars)	
NAICS 2/						
1997	37,655	53,108	81.228	8,542,530	11,118,778	77.644
1998	37,585	51,723	79.110	9,024,434	11,598,235	80.993
1999	39,224	52,524	80.335	9,595,951	12,141,843	84.789
2000	41,472	53,710	82.149	10,219,801	12,616,533	88.104
2001	43,089	53,669	82.086	10,556,006	12,735,110	88.932
2002	45,581	55,358	84.669	10,910,833	12,962,807	90.522
2003	49,136	58,100	88.863	11,440,109	13,295,941	92.848
2004	53,755	61,606	94.226	12,200,160	13,764,653	96.121
2005	58,573	64,824	99.146	13,015,161	14,203,241	99.184
2006	62,054	66,313	101.425	13,773,226	14,584,888	101.849
2007	65,210	67,421	103.120	14,391,149	14,798,367	103.340
2008	66,692	67,721	103.578	14,626,598	14,718,301	102.781
2009	65,382	65,382	100.000	14,320,114	14,320,114	100.000
2010	68,225	67,403	103.092	14,859,772	14,628,165	102.151
2011	70,017	67,971	103.960	15,406,002	14,833,679	103.586
2012	72,532	68,913	105.402	16,041,243	15,126,281	105.630
2013	74,630	69,676	106.568	16,576,738	15,348,034	107.178
2014	77,035	70,306	107.532	17,312,308	15,717,469	109.758
2015	81,900	72,816	111.370	18,007,206	16,148,486	112.768
2016	84,904	74,241	113.550	18,509,998	16,383,812	114.411
2017	88,136	75,473	115.434	19,263,350	16,721,499	116.769

NA Not available.

1/ Real GDP is an inflation-adjusted measure of each State's gross product that is based on national prices for the goods and services produced within that State.

2/ There is a discontinuity in the GDP time series at 1997, where the data change from Standard Industrial Classification (SIC) industry definitions to North American Industry Classification System (NAICS) industry definitions. This discontinuity results from many sources, including differences in source data and different estimation methodologies. This data discontinuity may affect both the levels and the growth rates of the GDP estimates. Users of the GDP estimates are strongly cautioned against appending the two data series in an attempt to construct a single time series of GDP estimates for 1963 to 2017.

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product by State (May 4, 2018)
<http://www.bea.gov/iTable/index_regional.cfm> accessed July 17, 2018.

Table 13.04-- GROSS DOMESTIC PRODUCT, BY SIC INDUSTRY: 1977 TO 1997

[In millions of current dollars. GDP estimates of private industries for 1987 forward are presented on the basis of the 1987 Standard Industrial Classification code (SIC). Estimates for earlier years are presented on the basis of the 1972 SIC. BEA released revised NAICS 2010 to 2016 estimates on May 4, 2018 but the current dollar estimates shown here were not affected. Formerly called 'Gross State Product']

Industry	1977	1982	1987	1992	1993	1994	1995	1996	1997
Total, all industries	9,441	15,740	24,273	36,129	36,732	37,395	37,763	38,125	39,064
Private industries	6,829	11,650	18,756	28,350	28,732	29,487	29,827	30,145	30,768
Agriculture, forestry, & fishing	212	339	438	471	431	451	425	451	457
Farms	181	289	340	297	273	281	249	277	284
Ag. serv, forestry, & fishing	31	49	98	174	158	171	176	174	174
Mining	(1/)	3	13	40	41	41	42	49	48
Construction	573	749	1,143	2,195	2,307	2,100	1,960	1,797	1,699
Manufacturing	511	683	991	1,215	1,053	1,085	1,041	1,062	1,023
Transp. and public utilities	982	1,486	2,375	3,483	3,299	3,531	3,804	3,932	4,056
Wholesale trade	460	653	918	1,361	1,410	1,468	1,460	1,496	1,502
Retail trade	995	1,612	2,493	3,736	3,940	4,075	4,163	4,280	4,360
Finan., insurance, & real estate	1,585	3,462	6,060	8,614	8,814	8,927	8,919	8,842	9,064
Real estate	1,240	2,673	4,658	7,177	7,210	7,298	7,414	7,417	7,534
Services	1,513	2,663	4,325	7,234	7,436	7,809	8,012	8,236	8,558
Hotels & other lodging places	437	724	1,083	1,698	1,704	1,822	1,923	2,042	2,156
Health services	316	572	959	1,739	1,849	1,952	1,997	2,024	2,068
Other than hotels & health	760	1,367	2,283	3,797	3,883	4,035	4,092	4,170	4,334
Government	2,612	4,090	5,516	7,780	8,001	7,908	7,936	7,980	8,296
Federal government	1,735	2,689	3,684	4,543	4,486	4,506	4,490	4,543	4,750
Civilian	681	1,125	1,406	1,741	1,769	1,803	1,869	1,832	1,990
Military	1,054	1,564	2,278	2,802	2,717	2,703	2,621	2,711	2,760
State and local government	876	1,401	1,832	3,236	3,515	3,402	3,446	3,437	3,546

1/ Less than \$500,000.

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product By SIC Industry 1963 to 1997 (November 10, 2010)

<<http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1>> accessed November 24, 2010.

Table 13.05-- GROSS DOMESTIC PRODUCT, BY NAICS INDUSTRY: 1997 TO 2017

[In millions of current dollars. GDP estimates for 1997 to 2017 are on the 2007 North American Industry Classification System (NAICS) basis. 2014 to 2016 are revised from previous *Data Book*. See previous table for 1977 to 1997 on an SIC basis]

Industry	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Total, all industries	37,655	37,585	39,224	41,472	43,089	45,581	49,136	53,755	58,573	62,054	65,210
Private industries	29,877	29,587	30,783	32,851	34,152	35,880	38,638	42,440	46,529	49,272	51,801
Agri., forestry, fish., & hunt	337	332	358	355	352	377	416	418	422	444	408
Mining	35	35	39	41	38	34	38	40	42	64	94
Utilities	863	795	867	920	908	841	923	1,042	1,066	1,263	1,297
Construction	1,680	1,655	1,686	1,956	2,075	2,267	2,632	3,037	3,849	4,216	4,733
Manufacturing	757	727	801	828	925	977	1,109	1,101	1,158	1,199	1,222
Wholesale trade	1,444	1,462	1,477	1,541	1,593	1,632	1,746	1,848	1,959	2,004	2,112
Retail trade	3,287	3,155	3,169	3,344	3,452	3,518	3,885	4,137	4,484	4,618	4,624
Trans. & warehousing	2,114	1,982	1,960	1,934	1,802	1,774	1,939	2,250	2,609	2,871	2,858
Information	1,231	1,121	1,128	1,139	1,171	1,255	1,240	1,503	1,558	1,712	1,931
Finance and insurance	1,231	1,227	1,303	1,476	1,607	1,881	1,957	2,117	2,241	2,243	2,301
Real estate, rental, & leasing	6,471	6,488	6,913	7,235	7,603	7,772	8,285	9,373	10,768	11,373	12,287
Prof., scientific & tech. serv.	1,633	1,445	1,496	1,617	1,876	2,097	2,196	2,272	2,461	2,657	2,810
Mgt of companies & enterprises	395	426	412	427	501	593	634	834	761	772	801
Administrative & waste services	1,002	989	1,057	1,176	1,324	1,450	1,631	1,688	1,724	1,874	1,867
Educational services	382	373	382	412	423	435	487	534	556	592	627
Health care & social assistance	2,330	2,222	2,297	2,441	2,654	2,798	2,990	3,176	3,398	3,533	3,718
Arts, entertainment, & recreation	458	460	475	508	492	518	547	555	560	570	647
Accommodation & food services	3,113	3,520	3,756	4,206	4,088	4,303	4,636	5,116	5,418	5,671	5,857
Accommodation	2,110	2,490	2,645	3,000	2,852	2,979	3,174	3,493	3,692	3,859	4,003
Food serv. & drinking places	1,003	1,029	1,111	1,206	1,236	1,324	1,462	1,623	1,727	1,812	1,854
Other services, exc. gov't	1,113	1,173	1,208	1,294	1,268	1,357	1,348	1,399	1,495	1,597	1,608
Government	7,778	7,998	8,441	8,621	8,938	9,701	10,498	11,315	12,044	12,781	13,409
Federal civilian	1,909	2,021	2,087	2,245	2,294	2,513	2,716	2,807	2,934	3,054	3,190
Federal military	2,264	2,281	2,298	2,390	2,589	2,861	3,200	3,535	3,883	4,198	4,484
State & local	3,605	3,696	4,056	3,987	4,054	4,327	4,582	4,973	5,227	5,529	5,735

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Table 13.05-- GROSS DOMESTIC PRODUCT, BY NAICS INDUSTRY: 1997 TO 2017 -- Con.

Industry	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total, all industries	66,692	65,382	68,225	70,017	72,532	74,630	77,035	81,900	84,904	88,136
Private industries	52,462	50,685	52,902	54,023	56,180	58,342	60,107	64,570	67,402	70,374
Agri., forestry, fish., & hunt	399	386	411	444	425	422	419	414	402	388
Mining	98	110	90	75	84	77	76	83	92	74
Utilities	1,436	1,400	1,630	1,852	1,517	1,562	1,582	1,474	1,456	1,491
Construction	4,660	4,261	3,812	3,707	3,839	3,925	4,214	4,970	5,694	5,639
Manufacturing	1,374	1,334	1,286	1,288	1,396	1,487	1,745	1,759	1,854	1,865
Wholesale trade	2,177	2,042	2,094	2,182	2,277	2,377	2,455	2,614	2,606	2,722
Retail trade	4,486	4,383	4,562	4,895	5,151	5,303	5,395	5,659	5,733	5,969
Trans. & warehousing	2,620	2,525	2,839	2,865	3,051	3,326	3,471	3,865	4,055	4,425
Information	1,876	1,921	2,407	1,751	1,648	1,829	1,733	1,928	1,914	1,916
Finance and insurance	2,208	2,065	2,072	2,239	2,352	2,245	2,710	2,922	2,961	3,020
Real estate, rental, & leasing	12,754	12,652	13,508	13,585	14,208	14,519	14,539	15,976	16,878	17,952
Prof., scientific & tech. serv.	3,047	2,925	2,884	3,021	3,061	3,088	3,160	3,273	3,336	3,421
Mgt of companies & enterprises	783	729	765	811	902	1,005	1,015	1,056	1,104	1,118
Administrative & waste services	1,961	1,910	2,215	2,345	2,472	2,628	2,754	2,856	2,925	2,971
Educational services	683	734	748	758	794	782	775	774	782	813
Health care & social assistance	4,039	4,233	4,306	4,463	4,588	4,778	4,886	5,191	5,399	5,748
Arts, entertainment, & recreation	705	707	658	642	702	813	855	822	816	892
Accommodation & food services	5,541	4,816	5,029	5,468	6,028	6,454	6,511	7,035	7,409	7,864
Accommodation	3,716	2,967	3,142	3,504	3,948	4,226	4,133	4,457	4,647	(NA)
Food serv. & drinking places	1,825	1,848	1,886	1,964	2,081	2,227	2,378	2,577	2,762	(NA)
Other services, exc. gov't	1,616	1,553	1,586	1,633	1,684	1,724	1,812	1,898	1,987	2,086
Government	14,230	14,697	15,323	15,994	16,352	16,288	16,928	17,330	17,502	17,762
Federal civilian	3,290	3,494	3,816	4,055	4,163	4,012	4,114	4,238	4,350	(NA)
Federal military	4,848	5,004	5,211	5,368	5,445	5,314	5,329	5,472	5,265	(NA)
State & local	6,092	6,198	6,296	6,571	6,744	6,962	7,485	7,619	7,887	(NA)

NA Not available.

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product By State 1963 to 2017 (May 4, 2018)

<<https://www.bea.gov/itable/iTable.cfm?ReqID=70&step=1>> accessed July 18, 2018.

Table 13.06-- GROSS DOMESTIC PRODUCT, BY NAICS INDUSTRY, IN CONSTANT DOLLARS: 1997 TO 2017

[In millions of chained 2009 dollars. GDP estimates for 1997 to 2016 are on the 2007 North American Industry Classification System (NAICS) basis. 2014 to 2016 are revised from previous *Data Book*. See previous table for 1977 to 1997 on an SIC basis]

Industry	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007
Total, all industries	53,108	51,723	52,524	53,710	53,669	55,358	58,100	61,606	64,824	66,313	67,421
Private industries	40,849	39,488	40,098	41,442	41,415	42,668	45,077	48,181	51,188	52,425	53,430
Agri., forestry, fishing, & hunting	280	290	357	386	353	412	407	351	417	460	323
Mining	81	88	101	106	99	83	89	78	66	86	116
Utilities	1,338	1,235	1,435	1,552	1,272	1,227	1,258	1,374	1,327	1,451	1,475
Construction	3,386	3,113	2,987	3,252	3,211	3,350	3,717	3,982	4,547	4,549	4,800
Manufacturing	1,013	967	1,025	1,019	1,111	1,225	1,325	1,266	1,178	1,163	1,162
Wholesale trade	1,689	1,738	1,760	1,826	1,944	2,002	2,163	2,221	2,295	2,268	2,341
Retail trade	3,754	3,648	3,638	3,763	3,893	3,979	4,420	4,615	4,887	4,890	4,764
Trans. & warehousing	2,924	2,601	2,444	2,208	1,794	1,697	1,849	2,234	2,665	2,915	2,952
Information	1,115	1,016	1,026	1,048	1,079	1,159	1,145	1,400	1,489	1,667	1,908
Finance and insurance	1,279	1,280	1,393	1,551	1,689	1,939	1,952	2,055	2,134	2,108	2,140
Real estate, rental, & leasing	8,748	8,550	8,850	8,968	9,107	8,986	9,363	10,375	11,666	11,994	12,697
Prof., scientific & tech. services	2,328	1,984	1,970	2,038	2,298	2,528	2,583	2,598	2,707	2,823	2,879
Mgt of companies & enterprises	779	780	710	673	806	936	975	1,106	958	902	838
Administrative & waste services	1,296	1,232	1,277	1,371	1,499	1,617	1,828	1,836	1,862	1,973	1,906
Educational services	633	587	573	597	594	578	626	657	658	668	676
Health care & social assistance	3,382	3,127	3,140	3,230	3,347	3,424	3,552	3,671	3,816	3,880	3,923
Arts, entertainment, & recreation	658	640	630	646	606	622	639	636	626	617	675
Accommodation & food services	4,591	4,971	5,083	5,530	5,122	5,271	5,653	6,121	6,160	6,207	6,118
Accommodation	3,008	3,400	3,450	3,799	3,429	3,542	3,771	4,075	4,058	4,076	4,020
Food serv. & drinking places	1,571	1,544	1,609	1,700	1,675	1,708	1,862	2,025	2,086	2,114	2,082
Other services, exc. gov't	1,818	1,848	1,827	1,866	1,729	1,771	1,711	1,722	1,768	1,815	1,756
Government	12,326	12,347	12,539	12,324	12,309	12,752	13,064	13,446	13,638	13,889	13,991
Federal civilian	2,939	3,046	3,034	3,122	3,118	3,223	3,312	3,262	3,268	3,300	3,324
Federal military	3,648	3,607	3,514	3,534	3,704	3,851	3,951	4,199	4,315	4,445	4,554
State & local	5,745	5,696	5,990	5,667	5,494	5,687	5,809	5,997	6,067	6,154	6,119

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**Table 13.06-- GROSS DOMESTIC PRODUCT, BY NAICS INDUSTRY, IN CONSTANT DOLLARS:
1997 TO 2017 -- Con.**

Industry	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Total, all industries	67,721	65,382	67,403	67,971	68,913	69,676	70,306	72,816	74,241	75,473
Private industries	53,300	50,685	52,518	52,719	53,529	54,581	54,966	57,474	58,942	60,299
Agri., forestry, fishing, & hunting	310	386	358	298	278	271	288	338	376	337
Mining	107	110	82	62	70	68	69	83	90	68
Utilities	1,630	1,400	1,675	1,891	1,597	1,593	1,500	1,367	1,394	1,413
Construction	4,726	4,261	3,882	3,720	3,744	3,698	3,722	4,214	4,657	4,454
Manufacturing	1,311	1,334	1,185	1,038	1,066	1,175	1,366	1,420	1,643	1,556
Wholesale trade	2,339	2,042	2,046	2,083	2,108	2,182	2,236	2,353	2,340	2,402
Retail trade	4,540	4,383	4,527	4,762	4,880	4,980	5,022	5,178	5,270	5,476
Trans. & warehousing	2,648	2,525	2,739	2,706	2,737	2,899	2,898	2,943	3,030	3,270
Information	1,876	1,921	2,418	1,765	1,659	1,826	1,734	1,963	1,962	1,983
Finance and insurance	2,064	2,065	2,003	2,122	2,142	1,982	2,298	2,403	2,304	2,310
Real estate, rental, & leasing	12,976	12,652	13,588	13,550	13,895	13,935	13,692	14,654	15,073	15,562
Prof., scientific & tech. services	3,082	2,925	2,848	2,940	2,928	2,904	2,945	2,978	3,016	3,054
Mgt of companies & enterprises	808	729	759	801	885	979	1,016	1,037	1,089	1,113
Administrative & waste services	1,979	1,910	2,232	2,356	2,457	2,572	2,643	2,654	2,642	2,643
Educational services	711	734	729	718	727	691	667	644	629	638
Health care & social assistance	4,182	4,233	4,211	4,307	4,355	4,489	4,541	4,753	4,830	5,059
Arts, entertainment, & recreation	724	707	662	646	685	781	804	742	711	770
Accommodation & food services	5,625	4,816	5,051	5,459	5,805	6,057	5,914	6,126	6,214	6,469
Accommodation	3,643	2,967	3,171	3,485	3,800	3,977	3,740	3,891	3,931	(NA)
Food serv. & drinking places	1,974	1,848	1,881	1,974	2,004	2,080	2,174	2,235	2,283	(NA)
Other services, exc. gov't	1,697	1,553	1,545	1,555	1,562	1,551	1,589	1,606	1,632	1,675
Government	14,421	14,697	14,888	15,250	15,383	15,098	15,343	15,349	15,307	15,181
Federal civilian	3,352	3,494	3,678	3,816	3,909	3,691	3,695	3,726	3,766	(NA)
Federal military	4,798	5,004	5,077	5,148	5,139	5,023	4,966	5,017	4,799	(NA)
State & local	6,273	6,198	6,133	6,284	6,333	6,382	6,673	6,601	6,725	(NA)

NA Not available.

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product By State 1997 to 2017 (May 4, 2018)

<<https://www.bea.gov/itable/iTable.cfm?ReqID=70&step=1>> accessed July 22, 2018.

**Table 13.07-- TOTAL AND PER CAPITA PERSONAL INCOME
FOR HAWAII AND THE UNITED STATES: 1969 TO 2016**

[Hawaii and the U.S. personal income, per capita personal income and Hawaii as percent of U.S. average for 2014 to 2016 revised from previous *Data Book*]

Year	Personal income (millions of dollars)		Resident population 1/		Per capita personal income 2/		Hawaii as percent of U.S. average
	Hawaii	U.S.	Hawaii	U.S.	Dollars		
					Hawaii	U.S.	
1969	3,647	791,150	743,000	201,298,000	4,908	3,930	124.9
1970	4,229	855,078	762,920	203,798,722	5,544	4,196	132.1
1971	4,589	923,964	791,580	206,817,509	5,798	4,468	129.8
1972	5,054	1,015,526	818,104	209,274,882	6,177	4,853	127.3
1973	5,594	1,131,213	841,851	211,349,205	6,645	5,352	124.2
1974	6,365	1,242,433	858,121	213,333,635	7,418	5,824	127.4
1975	6,936	1,359,998	875,052	215,456,585	7,926	6,312	125.6
1976	7,463	1,491,506	892,335	217,553,859	8,364	6,856	122.0
1977	8,075	1,646,968	915,749	219,760,875	8,818	7,494	117.7
1978	8,963	1,851,867	928,816	222,098,244	9,650	8,338	115.7
1979	10,051	2,068,806	950,050	224,568,579	10,579	9,212	114.8
1980	11,461	2,307,005	967,710	227,224,719	11,843	10,153	116.6
1981	12,391	2,584,340	978,195	229,465,744	12,667	11,262	112.5
1982	13,077	2,767,657	993,780	231,664,432	13,159	11,947	110.1
1983	14,420	2,957,901	1,012,717	233,792,014	14,239	12,652	112.5
1984	15,454	3,268,535	1,027,922	235,824,907	15,034	13,860	108.5
1985	16,453	3,501,927	1,039,698	237,923,734	15,825	14,719	107.5
1986	17,468	3,712,243	1,051,762	240,132,831	16,608	15,459	107.4
1987	18,623	3,940,859	1,067,917	242,288,936	17,439	16,265	107.2
1988	20,461	4,260,753	1,079,827	244,499,004	18,949	17,426	108.7
1989	22,865	4,603,969	1,094,588	246,819,222	20,890	18,653	112.0
1990	24,931	4,890,453	1,113,491	249,622,814	22,390	19,591	114.3
1991	26,366	5,055,766	1,136,754	252,980,941	23,194	19,985	116.1
1992	28,425	5,402,109	1,158,613	256,514,224	24,533	21,060	116.5
1993	29,472	5,639,780	1,172,838	259,918,588	25,129	21,698	115.8
1994	30,121	5,930,316	1,187,536	263,125,821	25,365	22,538	112.5
1995	30,777	6,275,761	1,196,854	266,278,393	25,715	23,568	109.1
1996	30,786	6,661,697	1,203,755	269,394,284	25,575	24,728	103.4
1997	31,792	7,075,132	1,211,640	272,646,925	26,239	25,950	101.1
1998	32,451	7,588,703	1,215,233	275,854,104	26,703	27,510	97.1
1999	33,645	7,988,183	1,210,300	279,040,168	27,799	28,627	97.1
2000	35,681	8,634,847	1,213,519	282,162,411	29,403	30,602	96.1

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**Table 13.07-- TOTAL AND PER CAPITA PERSONAL INCOME
FOR HAWAII AND THE UNITED STATES: 1969 TO 2016 -- Con.**

Year	Personal income (millions of dollars)		Resident population 1/		Per capita personal income 2/		
	Hawaii	U.S.	Hawaii	U.S.	Dollars		Hawaii as percent of U.S. average
					Hawaii	U.S.	
2001	37,214	8,987,890	1,225,948	284,968,955	30,356	31,540	96.2
2002	38,922	9,150,761	1,239,613	287,625,193	31,399	31,815	98.7
2003	40,764	9,484,225	1,251,154	290,107,933	32,581	32,692	99.7
2004	43,952	10,047,876	1,273,569	292,805,298	34,511	34,316	100.6
2005	47,221	10,610,320	1,292,729	295,516,599	36,528	35,904	101.7
2006	50,618	11,381,350	1,309,731	298,379,912	38,648	38,144	101.3
2007	53,207	11,995,419	1,315,675	301,231,207	40,441	39,821	101.6
2008	56,050	12,492,705	1,332,213	304,093,966	42,073	41,082	102.4
2009	55,853	12,079,444	1,346,717	306,771,529	41,473	39,376	105.3
2010	56,909	12,459,613	1,363,945	309,348,193	41,724	40,277	103.6
2011	59,072	13,233,436	1,377,864	311,663,358	42,872	42,461	101.0
2012	61,836	13,904,485	1,391,820	313,998,379	44,428	44,282	100.3
2013	62,784	14,068,960	1,406,481	316,204,908	44,639	44,493	100.3
2014	66,122	14,811,388	1,416,349	318,563,456	46,685	46,494	100.4
2015	69,638	15,547,661	1,425,157	320,896,618	48,863	48,451	100.9
2016	71,946	15,912,777	1,428,557	323,127,513	50,363	49,246	102.3

1/ U.S. Census Bureau midyear population estimate. 2010-2016 use state population estimates available as of December 2016.

2/ Per capita personal income is total personal income divided by July 1 population.

Source: U.S. Bureau of Economic Analysis, State Personal Income Summary SA1-3 (September 26, 2017) <<http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1>> accessed September 26, 2017; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 13.08-- TOTAL AND PER CAPITA DISPOSABLE PERSONAL INCOME
FOR HAWAII AND THE UNITED STATES: 1969 TO 2016**

Year	Disposable personal income (millions of dollars)		Resident population 1/		Per capita disposable personal income 2/		Hawaii as percent of U.S. average
	Hawaii	U.S.	Hawaii	U.S.	Dollars		
					Hawaii	U.S.	
1969	3,164	687,346	743,000	201,298,000	4,258	3,415	124.7
1970	3,692	752,652	762,920	203,798,722	4,839	3,693	131.0
1971	4,066	822,788	791,580	206,817,509	5,137	3,978	129.1
1972	4,425	892,439	818,104	209,274,882	5,408	4,264	126.8
1973	4,908	999,316	841,851	211,349,205	5,830	4,728	123.3
1974	5,604	1,091,918	858,121	213,333,635	6,530	5,118	127.6
1975	6,239	1,212,852	875,052	215,456,585	7,130	5,629	126.7
1976	6,659	1,319,290	892,335	217,553,859	7,462	6,064	123.1
1977	7,170	1,449,604	915,749	219,760,875	7,830	6,596	118.7
1978	7,906	1,622,771	928,816	222,098,244	8,511	7,307	116.5
1979	8,825	1,800,550	950,050	224,568,579	9,289	8,018	115.9
1980	10,069	2,008,241	967,710	227,224,719	10,405	8,838	117.7
1981	10,887	2,239,459	978,195	229,465,744	11,130	9,759	114.0
1982	11,697	2,413,886	993,780	231,664,432	11,770	10,420	113.0
1983	12,901	2,605,942	1,012,717	233,792,014	12,739	11,146	114.3
1984	13,848	2,891,562	1,027,922	235,824,907	13,472	12,261	109.9
1985	14,686	3,085,159	1,039,698	237,923,734	14,125	12,967	108.9
1986	15,563	3,275,508	1,051,762	240,132,831	14,797	13,640	108.5
1987	16,366	3,452,458	1,067,917	242,288,936	15,325	14,249	107.6
1988	17,960	3,755,973	1,079,827	244,499,004	16,632	15,362	108.3
1989	19,869	4,037,481	1,094,588	246,819,222	18,152	16,358	111.0
1990	21,676	4,297,144	1,113,491	249,622,814	19,467	17,215	113.1
1991	22,804	4,468,300	1,136,754	252,980,941	20,061	17,663	113.6
1992	25,096	4,790,365	1,158,613	256,514,224	21,661	18,675	116.0
1993	26,063	4,991,984	1,172,838	259,918,588	22,222	19,206	115.7
1994	26,660	5,238,115	1,187,536	263,125,821	22,450	19,907	112.8
1995	27,394	5,528,191	1,196,854	266,278,393	22,889	20,761	110.2
1996	27,233	5,825,497	1,203,755	269,394,284	22,624	21,624	104.6
1997	28,113	6,144,250	1,211,640	272,646,925	23,202	22,536	103.0
1998	28,586	6,557,273	1,215,233	275,854,104	23,523	23,771	99.0
1999	29,610	6,877,094	1,210,300	279,040,168	24,465	24,646	99.3
2000	31,334	7,399,368	1,213,519	282,162,411	25,821	26,224	98.5

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**Table 13.08-- TOTAL AND PER CAPITA DISPOSABLE PERSONAL INCOME
FOR HAWAII AND THE UNITED STATES: 1969 TO 2016 -- Con.**

Year	Disposable personal income (millions of dollars)		Resident population 1/		Per capita disposable personal income 2/		Hawaii as percent of U.S. average
	Hawaii	U.S.	Hawaii	U.S.	Dollars		
					Hawaii	U.S.	
2001	32,744	7,749,676	1,225,948	284,968,955	26,709	27,195	98.2
2002	34,860	8,097,069	1,239,613	287,625,193	28,122	28,151	99.9
2003	36,749	8,479,891	1,251,154	290,107,933	29,372	29,230	100.5
2004	39,622	8,998,339	1,273,569	292,805,298	31,111	30,731	101.2
2005	42,091	9,398,310	1,292,729	295,516,599	32,560	31,803	102.4
2006	45,035	10,025,593	1,309,731	298,379,912	34,385	33,600	102.3
2007	47,288	10,503,618	1,315,675	301,231,207	35,942	34,869	103.1
2008	50,118	10,986,281	1,332,213	304,093,966	37,620	36,128	104.1
2009	51,071	10,928,315	1,346,717	306,771,529	37,923	35,624	106.5
2010	52,129	11,221,631	1,363,945	309,348,193	38,219	36,275	105.4
2011	53,629	11,781,805	1,377,864	311,663,358	38,922	37,803	103.0
2012	56,144	12,394,567	1,391,820	313,998,379	40,339	39,473	102.2
2013	56,391	12,392,741	1,406,481	316,204,908	40,094	39,192	102.3
2014 3/	59,342	13,027,448	1,416,349	318,563,456	41,898	40,894	102.5
2015 3/	62,050	13,611,440	1,425,157	320,896,618	43,539	42,417	102.6
2016 3/	64,180	13,954,415	1,428,557	323,127,513	44,927	43,185	104.0

1/ U.S. Census Bureau midyear population estimate. 2010-2016 use state population estimates available as of December 2016.

2/ Per capita personal income is total personal income divided by July 1 population.

3/ Hawaii and the United States disposable total and per capita personal income, and as percent of U.S. average revised from previous *Data Book*.

Source: U.S. Bureau of Economic Analysis, State Disposable Personal Income Summary SA51 (September 26, 2017) <<http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1>> accessed November 20, 2017; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 13.09-- PERSONAL INCOME BY MAJOR SOURCE, BY SIC INDUSTRY:
1997 TO 2001**

[In thousands of dollars. Industries are grouped according to the 1987 Standard Industrial Classification (SIC) Code]

Item	1997	1998	1999	2000	2001
Personal income	31,791,726	32,450,676	33,645,376	35,680,722	37,214,473
Earnings by place of work	23,777,542	24,160,389	25,118,695	26,703,608	28,109,846
Wages & salaries	17,215,868	17,621,036	18,185,436	19,173,030	19,831,092
Suppl. to wages and salaries 1/	4,061,078	4,120,310	4,238,715	4,500,782	4,803,998
Proprietors' income 2/	2,500,596	2,419,043	2,694,544	3,029,796	3,474,756
Farm proprietors' income	36,106	38,283	43,843	40,387	39,138
Nonfarm proprietors' income	2,464,490	2,380,760	2,650,701	2,989,409	3,435,618
Dividends, interest, and rent 3/	6,950,510	7,195,366	7,344,607	7,736,148	7,702,304
Personal current transf. receipts 4/	3,693,737	3,766,251	3,922,182	4,130,169	4,450,134
Less: Contrib. for gov't social ins. 5/	2,630,063	2,671,330	2,740,108	2,889,203	3,047,811
Earnings by industry	23,777,542	24,160,389	25,118,695	26,703,608	28,109,846
Farm earnings	204,858	218,855	246,231	241,591	236,703
Nonfarm earnings	23,572,684	23,941,534	24,872,464	26,462,017	27,873,143
Private nonfarm earnings	16,908,425	17,116,407	17,704,680	19,073,275	20,129,190
Agri. serv., forestry, & fishing	142,547	131,801	138,684	144,735	154,783
Mining	23,275	24,050	24,027	25,523	26,544
Construction	1,462,056	1,402,429	1,429,919	1,642,515	1,745,030
Manufacturing	769,000	747,592	766,033	800,367	851,721
Durable goods	174,055	174,362	180,700	212,767	249,027
Nondurable goods	594,945	573,230	585,333	587,600	602,694
Transp. & public util.	1,888,331	1,882,793	1,963,374	2,068,721	2,163,844
Wholesale trade	913,958	937,651	933,019	997,957	1,035,166
Retail trade	2,911,724	2,899,652	3,070,428	3,082,857	3,137,868
Finance, insur., & real estate	1,937,861	1,977,406	2,044,969	2,262,720	2,278,510
Services 1/	6,859,673	7,113,033	7,334,227	8,047,880	8,735,724
Hotels & other lodging places	1,334,826	1,352,589	1,403,557	1,531,269	(NA)
Business services	843,124	905,166	1,014,944	1,213,625	(NA)
Health services	1,858,172	1,930,697	1,953,131	2,071,453	(NA)
Other	2,823,551	2,924,581	2,962,595	3,231,533	(NA)
Gov't & gov't enterprises	6,664,259	6,825,127	7,167,784	7,388,742	7,743,953
Federal	3,568,735	3,657,010	3,713,173	3,933,646	4,149,281
Federal, civilian	1,573,065	1,666,832	1,710,658	1,852,452	1,882,754
Military	1,995,670	1,990,178	2,002,515	2,081,194	2,266,527
State & local gov't	3,095,524	3,168,117	3,454,611	3,455,096	3,594,672
State	2,323,403	2,384,735	2,619,973	2,625,779	2,728,706
Local	772,121	783,382	834,638	829,317	865,966

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**Table 13.09-- PERSONAL INCOME BY MAJOR SOURCE, BY SIC INDUSTRY:
1997 TO 2001 -- Con.**

NA Not available.

1/ This component of personal income consists of employer contributions for employee pension and insurance funds and of employer contributions for government social insurance.

2/ Proprietors' income includes the inventory valuation adjustment and the capital consumption adjustment.

3/ Rental income of persons includes the capital consumption adjustment.

4/ This component of personal income is payments to persons for which no current services are performed. It consists of payments to individuals and to nonprofit institutions by Federal, state, and local governments and by businesses.

5/ These contributions are included in earnings by type and industry, but are subtracted in the calculation of personal income. They consist of personal contributions for government social insurance and employer contributions for government social insurance.

Source: U.S. Bureau of Economic Analysis, State Personal Income (September 28, 2016)

<<http://www.bea.gov/iTable/iTable.cfm?reqid=70&step=1>> accessed July 22, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 13.10-- PERSONAL INCOME BY MAJOR SOURCE, BY NAICS
INDUSTRY: 2014 TO 2016**

[In thousands of dollars. Industries are grouped according to the 2012 North American Industry Classification System (NAICS) Code. Estimates for this series from 2014 and 2015 were revised by BEA on September 27, 2017]

Item	2014	2015	2016
Personal income	66,122,066	69,637,831	71,946,077
Earnings by place of work	47,220,028	49,516,517	51,239,211
Less: Contrib. for gov't social ins. 1/ Employee and self-employed	5,447,839	5,687,612	5,854,468
Employer	2,735,998	2,888,349	3,036,184
Net earnings by place of residence	2,711,841	2,799,263	2,818,284
Dividends, interest, and rent 2/	41,772,189	43,828,905	45,384,743
Personal current transfer receipts	13,810,126	14,892,094	15,250,396
Wages and salaries	10,539,751	10,916,832	11,310,938
Supp. to wages & sal.- emp'er contrib.	32,848,050	34,618,520	35,883,907
For employee pension & ins. funds 3/	9,754,193	10,052,761	10,209,444
For government social insurance	7,042,352	7,253,498	7,391,160
Proprietors' income 4/	2,711,841	2,799,263	2,818,284
Farm proprietors' income	4,617,785	4,845,236	5,145,860
Nonfarm proprietors' income	-8,674	-32,613	-31,102
Farm earnings	4,626,459	4,877,849	5,176,962
Nonfarm earnings	277,917	236,383	259,229
Private earnings	46,942,111	49,280,134	50,979,982
Forestry, fishing, rel. activ., & other	32,116,968	34,055,699	35,580,461
Mining	72,504	82,032	87,481
Utilities	36,066	42,693	38,587
Construction	524,691	548,968	557,064
Manufacturing	3,360,115	3,883,228	4,445,981
Wholesale trade	876,832	888,357	925,702
Retail trade	1,285,326	1,352,234	1,361,748
Transportation and warehousing	2,947,566	3,058,000	3,090,989
Information	1,804,153	1,941,128	2,073,885
Finance and insurance	716,530	744,930	712,885
Real estate and rental and leasing	1,346,965	1,430,265	1,493,058
Prof., scientific, & tech. services	1,371,546	1,529,436	1,624,621
Mgt of companies & enterprises	2,676,281	2,789,918	2,826,135
Admin. & waste mgt. services	865,313	901,623	939,898
Educational services	2,220,043	2,305,284	2,341,980
Health care and social assistance	749,404	751,563	774,833
Arts, entertainment, and recreation	4,573,645	4,858,647	5,048,667
Accommodation & food services	4,573,645	4,858,647	5,048,667
Other services, except public admin.	585,307	552,645	571,827
	4,207,326	4,411,797	4,607,617
	1,897,355	1,982,951	2,057,503

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**Table 13.10-- PERSONAL INCOME BY MAJOR SOURCE, BY NAICS
INDUSTRY: 2014 TO 2016 -- Con.**

Item	2014	2015	2016
Gov't and gov't enterprises	14,825,143	15,224,435	15,399,521
Federal	8,307,669	8,558,468	8,477,934
Civilian	3,440,697	3,556,181	3,656,810
Military	4,866,972	5,002,287	4,821,124
State and local	6,517,474	6,665,967	6,921,587
State	4,923,057	5,015,865	5,189,363
Local	1,594,417	1,650,102	1,732,224

1/ These contributions are included in earnings by type and industry, but are subtracted in the calculation of personal income. They consist of personal contributions for government social insurance and employer contributions for government social insurance.

2/ Rental income of persons includes the capital consumption adjustment.

3/ Includes actual employer contributions and actuarially imputed employer contributions to reflect benefits accrued by defined benefit pension plan participants through service to employers in the current period.

4/ Proprietors' income includes the inventory valuation adjustment and the capital consumption adjustment.

Source: U.S. Bureau of Economic Analysis, Annual State Personal Income, "SA5N Personal Income by Major Component and Earnings by NAICS Industry" (September 27, 2017) <<http://www.bea.gov/iTable/iTable.cfm?reqid=70&step=1>> accessed January 11, 2018; and calculations by Hawaii Department of Business, Economic Development & Tourism.

**Table 13.11-- PERSONAL INCOME TOTAL AND PER CAPITA
IN CONSTANT DOLLARS, BY STATE: 2008 TO 2016**

['Real per capita personal income' 2010 to 2015 and 'Real personal income' 2014 and 2015 revised from previous *Data Book*]

State	2008	2009	2010	2011	2012	2013	2014	2015	2016
Real personal income (millions of chained 2009 dollars) 1/									
Alabama	180,368	178,308	180,807	182,895	183,174	183,434	188,240	195,763	197,772
Alaska	30,808	30,715	32,446	34,018	34,479	33,664	34,725	36,124	35,468
Arizona	223,444	214,462	215,069	221,990	229,537	233,896	244,481	257,734	264,358
Arkansas	106,500	105,206	104,506	109,056	114,739	112,978	118,977	121,901	123,627
California	1,432,810	1,386,939	1,403,321	1,466,443	1,537,441	1,534,002	1,602,792	1,718,306	1,751,126
Colorado	208,185	196,513	196,896	208,668	218,418	225,147	240,419	252,022	253,310
Connecticut	196,626	195,615	200,398	202,362	202,008	198,034	201,905	206,214	206,485
Delaware	36,330	35,805	35,447	37,510	37,260	37,560	38,263	40,630	41,178
Dist. of Col.	31,228	30,618	31,216	33,348	33,934	34,393	35,814	38,756	40,488
Florida	730,269	693,403	724,594	749,904	755,531	750,122	790,614	846,245	859,781
Georgia	359,512	356,227	359,492	376,584	374,305	374,477	393,523	413,543	427,053
Hawaii	47,549	47,855	47,863	48,627	49,562	49,451	51,257	53,605	55,024
Idaho	53,354	51,713	52,546	54,397	55,976	57,545	59,539	62,918	64,643
Illinois	553,026	521,386	523,206	535,097	551,082	561,180	581,168	601,894	607,156
Indiana	248,072	241,666	245,668	254,737	262,143	262,390	269,565	279,421	286,456
Iowa	132,341	127,646	127,883	133,899	137,124	137,329	139,885	144,611	144,740
Kansas	129,733	124,292	122,890	129,523	134,654	135,444	136,341	137,975	137,307
Kentucky	159,437	157,712	159,810	163,720	165,766	163,454	169,747	176,019	178,160
Louisiana	185,297	178,920	182,877	184,545	190,276	189,582	197,075	202,333	198,399
Maine	50,350	50,243	50,734	51,119	50,733	49,882	51,252	52,808	53,968
Maryland	255,210	252,182	256,467	264,066	269,297	264,849	268,548	281,300	288,804
Massachusetts	312,868	311,336	318,045	326,158	337,344	334,961	342,346	363,676	367,529
Michigan	372,387	354,512	362,031	375,733	382,356	383,696	397,047	419,065	426,450
Minnesota	232,141	220,850	227,024	236,271	245,678	244,579	252,642	263,464	266,763
Mississippi	104,550	103,020	103,299	104,828	107,178	106,483	109,029	110,477	111,124
Missouri	252,073	247,796	246,006	247,496	253,725	249,589	254,575	263,098	264,632
Montana	36,399	35,853	36,869	38,672	40,397	39,468	40,373	42,186	43,059

Continued on next page.

**Table 13.11-- PERSONAL INCOME TOTAL AND PER CAPITA
IN CONSTANT DOLLARS, BY STATE: 2008 TO 2016 -- Con.**

State	2008	2009	2010	2011	2012	2013	2014	2015	2016
Nebraska	80,814	79,551	80,992	88,145	89,042	88,056	92,324	94,777	95,463
Nevada	102,440	97,035	98,259	99,576	103,187	102,448	108,543	116,652	119,069
New Hampshire	57,040	56,765	57,499	59,706	61,221	60,320	60,413	62,929	63,863
New Jersey	404,645	391,973	390,528	397,895	404,837	405,798	414,758	435,156	439,798
New Mexico	71,376	70,356	71,229	72,907	73,324	70,845	74,183	76,856	77,463
New York	808,015	787,758	799,213	828,025	862,353	867,222	879,934	917,259	920,720
North Carolina	383,315	368,906	364,642	370,401	387,359	377,639	394,577	417,191	426,788
North Dakota	30,703	30,067	32,544	35,721	40,942	40,926	43,060	41,601	40,960
Ohio	470,524	461,243	460,831	480,741	491,342	490,014	502,013	520,242	525,058
Oklahoma	160,268	145,485	148,516	156,479	164,708	170,240	179,598	175,222	170,406
Oregon	142,798	136,747	137,097	141,260	145,890	146,148	153,956	165,130	168,613
Pennsylvania	539,582	526,653	534,267	548,627	561,917	556,897	573,721	594,250	596,803
Rhode Island	44,285	43,255	44,774	45,173	46,454	46,008	46,377	48,327	48,432
South Carolina	163,735	159,252	162,539	167,493	172,939	173,156	182,168	192,575	196,475
South Dakota	38,084	37,290	38,012	40,584	39,923	39,941	40,817	42,377	42,425
Tennessee	244,328	242,149	247,680	255,476	260,308	258,946	268,446	283,270	289,225
Texas	998,284	946,443	979,766	1,047,241	1,104,968	1,111,325	1,175,111	1,213,803	1,204,042
Utah	93,506	88,343	89,472	93,954	98,657	99,848	105,074	112,404	116,117
Vermont	25,442	25,050	25,379	26,212	26,322	26,405	26,432	27,370	27,809
Virginia	348,987	339,822	348,006	360,226	370,180	363,216	372,680	389,421	394,265
Washington	285,317	269,812	272,343	282,139	297,797	297,997	313,878	331,207	341,207
West Virginia	66,280	66,517	66,342	68,554	68,863	67,532	68,707	69,422	69,316
Wisconsin	236,376	232,728	233,318	240,074	245,841	245,199	250,740	260,354	263,700
Wyoming	27,628	25,453	26,380	27,962	30,004	29,806	31,171	31,331	30,201

Continued on next page.

**Table 13.11-- PERSONAL INCOME TOTAL AND PER CAPITA
IN CONSTANT DOLLARS, BY STATE: 2008 TO 2016 -- Con.**

State	2008	2009	2010	2011	2012	2013	2014	2015	2016
Real per capita personal income (chained (2009) dollars) 2/									
Alabama	38,228	37,476	37,782	38,114	38,051	37,996	38,892	40,356	40,689
Alaska	44,815	43,948	45,442	47,100	47,178	45,692	47,132	48,949	47,831
Arizona	35,578	33,810	33,568	34,335	35,075	35,352	36,455	37,889	38,265
Arkansas	37,049	36,317	35,768	37,111	38,905	38,210	40,130	40,967	41,371
California	39,143	37,524	37,595	38,926	40,439	40,003	41,414	44,022	44,562
Colorado	42,576	39,522	39,005	40,784	42,114	42,783	45,003	46,324	45,806
Connecticut	55,457	54,920	55,974	56,338	56,149	54,972	56,082	57,380	57,554
Delaware	41,103	40,152	39,398	41,316	40,638	40,600	40,932	43,036	43,223
Dist. of Col.	53,820	51,699	51,593	53,758	53,386	52,904	54,199	57,609	59,163
Florida	39,416	37,174	38,447	39,267	39,063	38,301	39,734	41,752	41,623
Georgia	37,824	37,027	37,013	38,385	37,766	37,516	39,025	40,545	41,407
Hawaii	35,692	35,534	35,095	35,280	35,585	35,121	36,155	37,583	38,514
Idaho	34,774	33,268	33,449	34,360	35,102	35,738	36,518	38,148	38,477
Illinois	43,385	40,744	40,744	41,602	42,791	43,535	45,113	46,796	47,302
Indiana	38,612	37,414	37,853	39,098	40,110	39,953	40,885	42,269	43,180
Iowa	43,869	42,088	41,926	43,705	44,602	44,445	45,043	46,372	46,230
Kansas	46,200	43,877	42,992	45,150	46,669	46,820	47,021	47,483	47,221
Kentucky	37,166	36,532	36,755	37,477	37,814	37,156	38,488	39,805	40,161
Louisiana	41,775	39,834	40,238	40,343	41,340	40,975	42,393	43,315	42,337
Maine	37,843	37,788	38,216	38,494	38,200	37,563	38,568	39,772	40,570
Maryland	44,892	44,008	44,309	45,193	45,708	44,643	44,981	46,879	47,936
Massachusetts	48,364	47,768	48,446	49,327	50,655	49,911	50,658	53,529	53,860
Michigan	37,438	35,804	36,655	38,044	38,674	38,760	40,046	42,252	42,931
Minnesota	44,242	41,818	42,748	44,196	45,685	45,158	46,334	48,049	48,283
Mississippi	35,467	34,818	34,776	35,207	35,930	35,640	36,482	37,007	37,222
Missouri	42,552	41,569	41,031	41,179	42,124	41,315	42,023	43,325	43,445
Montana	37,278	36,437	37,223	38,793	40,255	39,003	39,584	41,025	41,457

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**Table 13.11-- PERSONAL INCOME TOTAL AND PER CAPITA
IN CONSTANT DOLLARS, BY STATE: 2008 TO 2016 -- Con.**

State	2008	2009	2010	2011	2012	2013	2014	2015	2016
Nebraska	44,987	43,886	44,259	47,862	48,005	47,154	49,084	50,052	50,043
Nevada	38,604	36,144	36,355	36,633	37,490	36,765	38,331	40,461	40,510
New Hampshire	43,347	43,131	43,669	45,289	46,347	45,606	45,468	47,310	47,837
New Jersey	46,452	44,768	44,360	44,987	45,579	45,525	46,378	48,567	48,984
New Mexico	35,499	34,542	34,500	35,089	35,191	33,976	35,610	36,910	37,145
New York	42,057	40,802	41,186	42,405	43,941	43,993	44,501	46,281	46,416
North Carolina	41,175	39,039	38,086	38,332	39,708	38,340	39,691	41,546	42,020
North Dakota	46,691	45,216	48,248	52,160	58,374	56,613	58,295	55,110	54,213
Ohio	40,860	40,008	39,936	41,647	42,552	42,360	43,300	44,825	45,176
Oklahoma	43,682	39,134	39,504	41,339	43,170	44,220	46,348	44,879	43,458
Oregon	37,890	35,905	35,730	36,540	37,466	37,286	38,871	41,112	41,266
Pennsylvania	42,782	41,577	42,032	43,054	44,010	43,581	44,856	46,458	46,672
Rhode Island	41,977	41,053	42,513	42,934	44,126	43,701	43,968	45,768	45,795
South Carolina	36,153	34,696	35,062	35,845	36,647	36,333	37,757	39,362	39,613
South Dakota	47,657	46,205	46,571	49,292	47,951	47,407	48,051	49,620	49,243
Tennessee	39,109	38,400	38,969	39,941	40,354	39,894	41,047	42,980	43,496
Texas	41,066	38,160	38,815	40,837	42,371	41,970	43,596	44,211	43,148
Utah	35,113	32,438	32,239	33,371	34,565	34,431	35,756	37,657	38,142
Vermont	40,763	40,092	40,551	41,857	42,075	42,177	42,247	43,830	44,611
Virginia	44,551	42,875	43,364	44,431	45,206	43,964	44,810	46,544	46,856
Washington	43,479	40,467	40,399	41,375	43,216	42,795	44,541	46,304	46,863
West Virginia	36,016	35,998	35,777	36,959	37,116	36,458	37,187	37,734	37,906
Wisconsin	41,903	41,051	41,002	42,075	42,971	42,742	43,597	45,202	45,679
Wyoming	50,597	45,464	46,742	49,263	52,035	51,183	53,436	53,456	51,634

1/ Real personal income for states is personal income divided by the Regional Price Parity (RPP) and the national Personal Consumption Expenditure (PCE) price index. The result is a chained dollar (using 2009 as base year) estimate of real personal income.

2/ Real per capita personal income is total real personal income divided by total midyear population.

Source: U.S. Bureau of Economic Analysis, State Real Personal Income (May 17, 2018) <<http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1>> accessed July 22, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism. See also "Real Personal Income for States and Metropolitan Areas, 2016" <<https://www.bea.gov/newsreleases/regional/rpp/2018/pdf/rpp0518.pdf>>.

**Table 13.12-- PERSONAL INCOME, TOTAL AND PER CAPITA, AND
POPULATION BY COUNTY: 1969 TO 2016**

Year	State total	City & County of Honolulu	Hawaii	Kauai	Maui and Kalawao
Total (\$1,000)					
1969	3,646,550	3,135,431	227,806	111,917	171,396
1970	4,229,452	3,638,544	269,994	121,243	199,671
1971	4,589,275	3,930,462	303,650	134,832	220,331
1972	5,053,789	4,332,294	335,243	143,778	242,474
1973	5,594,397	4,792,871	371,978	160,941	268,607
1974	6,365,247	5,278,618	509,574	219,322	357,733
1975	6,935,988	5,834,941	508,541	211,674	380,832
1976	7,463,349	6,279,933	532,631	227,717	423,068
1977	8,075,045	6,764,711	585,602	249,885	474,847
1978	8,963,468	7,504,034	653,264	275,384	530,786
1979	10,050,552	8,379,001	744,057	314,123	613,371
1980	11,460,741	9,404,699	932,942	390,948	732,152
1981	12,391,045	10,281,065	942,191	401,135	766,654
1982	13,076,982	10,824,165	988,432	433,159	831,226
1983	14,419,849	11,836,096	1,117,214	488,344	978,195
1984	15,454,096	12,743,137	1,167,533	505,790	1,037,636
1985	16,453,428	13,551,931	1,227,686	545,959	1,127,852
1986	17,468,188	14,307,395	1,338,353	592,369	1,230,071
1987	18,623,163	15,231,897	1,426,822	633,047	1,331,397
1988	20,461,349	16,640,304	1,567,464	753,405	1,500,176
1989	22,865,408	18,424,698	1,814,191	877,961	1,748,558
1990	24,931,086	20,002,934	2,018,456	957,874	1,951,822
1991	26,366,349	21,057,382	2,191,880	1,042,232	2,074,855
1992	28,424,752	22,662,997	2,330,440	1,129,298	2,302,017
1993	29,472,164	23,387,806	2,458,554	1,182,363	2,443,441
1994	30,121,287	23,828,975	2,548,794	1,207,517	2,536,001
1995	30,776,621	24,281,165	2,622,851	1,260,168	2,612,437
1996	30,785,523	24,204,197	2,682,866	1,255,669	2,642,791
1997	31,791,726	25,019,377	2,760,090	1,278,069	2,734,190
1998	32,450,676	25,356,732	2,921,666	1,308,160	2,864,118
1999	33,645,376	26,109,826	3,074,855	1,365,582	3,095,113
2000	35,680,722	27,573,673	3,321,765	1,469,290	3,315,994
2001	37,214,473	28,660,560	3,502,791	1,531,179	3,519,943
2002	38,922,238	29,908,194	3,707,860	1,588,012	3,718,172
2003	40,763,715	31,185,936	3,926,303	1,693,760	3,957,716
2004	43,952,173	33,375,168	4,365,672	1,882,715	4,328,618
2005	47,220,711	35,680,948	4,831,982	2,017,835	4,689,946
2006	50,618,308	38,195,299	5,212,423	2,157,515	5,053,071
2007	53,206,947	40,023,215	5,541,148	2,300,733	5,341,851
2008	56,050,035	42,094,733	5,890,669	2,423,343	5,641,290
2009	55,852,773	42,500,078	5,675,624	2,329,132	5,347,939
2010	56,908,597	43,243,842	5,807,050	2,356,523	5,501,182
2011	59,072,082	44,899,590	5,969,223	2,449,357	5,753,912
2012	61,836,090	46,792,938	6,245,535	2,578,066	6,219,551
2013	62,784,498	47,504,739	6,349,327	2,702,595	6,227,837
2014 1/	66,122,066	49,880,837	6,747,024	2,880,954	6,613,251
2015 1/	69,637,831	52,317,648	7,253,156	3,032,891	7,034,136
2016	71,946,077	53,827,889	7,618,924	3,139,390	7,359,874

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**Table 13.12-- PERSONAL INCOME, TOTAL AND PER CAPITA, AND
POPULATION BY COUNTY: 1969 TO 2016-- Con.**

Year	State total	City & County of Honolulu	Hawaii	Kauai	Maui and Kalawao
Population 2/					
1969	743,000	603,438	63,104	30,044	46,414
1970	762,920	623,756	63,549	29,620	45,995
1971	791,580	633,043	73,508	33,245	51,784
1972	818,104	664,830	69,922	31,864	51,488
1973	841,851	683,772	72,856	32,530	52,693
1974	858,121	698,033	73,891	32,536	53,661
1975	875,052	707,866	77,212	33,305	56,669
1976	892,335	716,911	80,481	34,770	60,173
1977	915,749	734,962	82,610	35,414	62,763
1978	928,816	740,505	85,661	36,700	65,950
1979	950,050	753,428	89,069	38,016	69,537
1980	967,710	763,820	92,897	39,369	71,624
1981	978,195	767,573	96,122	40,457	74,043
1982	993,780	776,075	98,798	41,804	77,103
1983	1,012,717	789,097	100,764	42,796	80,060
1984	1,027,922	797,791	103,528	43,634	82,969
1985	1,039,698	804,294	105,900	44,357	85,147
1986	1,051,762	810,444	108,362	45,567	87,389
1987	1,067,917	818,447	111,735	47,203	90,532
1988	1,079,827	824,072	113,439	48,549	93,767
1989	1,094,588	831,337	116,585	49,847	96,819
1990	1,113,491	838,534	121,572	51,676	101,709
1991	1,136,754	850,510	127,266	53,379	105,599
1992	1,158,613	863,959	131,630	54,439	108,585
1993	1,172,838	870,348	135,085	55,461	111,944
1994	1,187,536	878,591	137,713	56,478	114,754
1995	1,196,854	881,399	140,492	57,068	117,895
1996	1,203,755	883,443	141,935	57,688	120,689
1997	1,211,640	886,711	144,445	57,712	122,772
1998	1,215,233	886,909	145,833	57,843	124,648
1999	1,210,300	878,906	146,970	58,264	126,160
2000	1,213,519	876,629	149,244	58,568	129,078
2001	1,225,948	882,755	151,690	59,075	132,428
2002	1,239,613	890,473	154,576	59,981	134,583
2003	1,251,154	894,311	158,442	60,805	137,596
2004	1,273,569	907,997	162,852	62,095	140,625
2005	1,292,729	918,181	168,237	62,863	143,448
2006	1,309,731	926,954	173,536	63,465	145,776
2007	1,315,675	925,335	177,733	64,490	148,117
2008	1,332,213	933,680	181,506	65,603	151,424
2009	1,346,717	943,177	183,629	66,518	153,393
2010 1/	1,363,945	956,325	185,339	67,209	155,072
2011 1/	1,377,864	966,279	186,933	67,803	156,849
2012 1/	1,391,820	975,909	188,765	68,558	158,588
2013 1/	1,406,481	984,730	191,147	69,628	160,976
2014 1/	1,416,349	988,586	193,885	70,540	163,338
2015 1/	1,425,157	993,166	196,156	71,478	164,357
2016	1,428,557	992,605	198,449	72,029	165,474

Continued on next page.

**Table 13.12-- PERSONAL INCOME, TOTAL AND PER CAPITA, AND
POPULATION BY COUNTY: 1969 TO 2016-- Con.**

Year	State total	City & County of Honolulu	Hawaii	Kauai	Maui and Kalawao
Per capita (dollars) 3/					
1969	4,908	5,196	3,610	3,725	3,693
1970	5,544	5,833	4,249	4,093	4,341
1971	5,798	6,209	4,131	4,056	4,255
1972	6,177	6,516	4,795	4,512	4,709
1973	6,645	7,009	5,106	4,947	5,098
1974	7,418	7,562	6,896	6,741	6,667
1975	7,926	8,243	6,586	6,356	6,720
1976	8,364	8,760	6,618	6,549	7,031
1977	8,818	9,204	7,089	7,056	7,566
1978	9,650	10,134	7,626	7,504	8,048
1979	10,579	11,121	8,354	8,263	8,821
1980	11,843	12,313	10,043	9,930	10,222
1981	12,667	13,394	9,802	9,915	10,354
1982	13,159	13,947	10,005	10,362	10,781
1983	14,239	15,000	11,087	11,411	12,218
1984	15,034	15,973	11,277	11,592	12,506
1985	15,825	16,849	11,593	12,308	13,246
1986	16,608	17,654	12,351	13,000	14,076
1987	17,439	18,611	12,770	13,411	14,706
1988	18,949	20,193	13,818	15,518	15,999
1989	20,890	22,163	15,561	17,613	18,060
1990	22,390	23,855	16,603	18,536	19,190
1991	23,194	24,759	17,223	19,525	19,648
1992	24,533	26,232	17,704	20,744	21,200
1993	25,129	26,872	18,200	21,319	21,827
1994	25,365	27,122	18,508	21,380	22,099
1995	25,715	27,548	18,669	22,082	22,159
1996	25,575	27,398	18,902	21,767	21,898
1997	26,239	28,216	19,108	22,146	22,270
1998	26,703	28,590	20,034	22,616	22,978
1999	27,799	29,707	20,922	23,438	24,533
2000	29,403	31,454	22,257	25,087	25,690
2001	30,356	32,467	23,092	25,919	26,580
2002	31,399	33,587	23,987	26,475	27,627
2003	32,581	34,871	24,781	27,856	28,763
2004	34,511	36,757	26,808	30,320	30,781
2005	36,528	38,860	28,721	32,099	32,694
2006	38,648	41,205	30,037	33,995	34,663
2007	40,441	43,253	31,177	35,676	36,065
2008	42,073	45,085	32,454	36,940	37,255
2009	41,473	45,061	30,908	35,015	34,864
2010 1/	41,724	45,219	31,332	35,063	35,475
2011 1/	42,872	46,466	31,932	36,125	36,684
2012 1/	44,428	47,948	33,086	37,604	39,218
2013 1/	44,639	48,241	33,217	38,815	38,688
2014 1/	46,685	50,457	34,799	40,841	40,488
2015 1/	48,863	52,678	36,976	42,431	42,798
2016	50,363	54,229	38,392	43,585	44,478

Continued on next page.

**Table 13.12-- PERSONAL INCOME, TOTAL AND PER CAPITA, AND
POPULATION BY COUNTY: 1969 TO 2016-- Con.**

1/ Revised from previous *Data Book*.

2/ Census Bureau midyear population estimates. Estimates for 2010-2016 reflect county population estimates available as of March 2017.

3/ Per capita personal income was computed using Census Bureau midyear population estimates.

Source: U.S. Bureau of Economic Analysis, Interactive Data Local Area Personal Income and Employment, "CA1 Personal Income Summary: Personal Income, Population, Per Capita Personal Income" <<http://www.bea.gov/iTable/iTable.cfm?reqid=70&step=1&isuri=1&acrnd=7#reqid=70&step=1&isuri=1>> accessed November 16, 2017. See also "Local Area Personal Income: 2016" (November 16, 2017) <http://www.bea.gov/newsreleases/regional/lapi/lapi_newsrelease.htm> accessed November 16, 2017.

Table 13.13-- PERFORMANCE RANKINGS FOR METROPOLITAN STATISTICAL AREAS, URBAN HONOLULU AND PROVO-OREM, UTAH: 2016 AND 2017

[Top performer in 2016, San Jose-Sunnyvale-Santa Clara, California is ranked 11 in 2017]

Category and location	2016		2017	
	Period	Rank	Period	Rank
Urban Honolulu				
Overall	2016	159	2017	152
Job growth (5-year)	2010 to 2015	100	2011 to 2016	109
Job growth (1-year)	2014 to 2015	141	2015 to 2016	135
Wage growth (5-year)	2009 to 2014	125	2010 to 2015	111
Wage growth (1-year)	2013 to 2014	124	2014 to 2015	104
Short-term job growth	August: 2015 to 2016	121	August: 2016 to 2017	172
High tech GDP growth (5-year)	2010 to 2015	160	2011 to 2016	129
High tech GDP growth (1-year)	2014 to 2015	158	2015 to 2016	130
High-tech GDP concentration 1/	2015	172	2016	167
Number of high-tech GDP industries with location quotients over 1 1/	2015	177	2016	178
Provo-Orem, Utah				
Overall	2016	2	2017	1
Job growth (5-year)	2010 to 2015	2	2011 to 2016	1
Job growth (1-year)	2014 to 2015	2	2015 to 2016	1
Wage growth (5-year)	2009 to 2014	6	2010 to 2015	4
Wage growth (1-year)	2013 to 2014	32	2014 to 2015	3
Short-term job growth	August: 2015 to 2016	9	August: 2016 to 2017	7
High tech GDP growth (5-year)	2010 to 2015	10	2011 to 2016	3
High tech GDP growth (1-year)	2014 to 2015	1	2015 to 2016	12
High-tech GDP concentration 1/	2015	13	2016	16
Number of high-tech GDP industries with location quotients over 1 1/	2015	16	2016	20

1/ Measures the number of highly concentrated high-tech industries or those with a location quotient (LQ) compared to the U.S. average of 1.0.

Source: Milken Institute, *Best Performing Cities: 2017, Where America's Jobs Are Created and Sustained* (January 2018) <<http://www.best-cities.org/2017/best-performing-cities-report-2016.pdf>> accessed January 17, 2018. See also Provo-Orem, Utah as #2 for 2016 <<http://www.best-cities.org/2016/best-performing-cities-report-2016.pdf>> accessed January 17, 2018.

Table 13.14-- THE NEW ECONOMY INDEX, RANK AND SCORE FOR THE 50 STATES: 2002 TO 2017

[The changing economic landscape known as the New Economy requires state economies to be innovative, globally-linked, entrepreneurial and dynamic, with an educated workforce and all sectors embracing the use of information technology. The State New Economy Index uses between 21-29 indicators to measure the extent to which they do. Changes in methodology may limit strict comparability over the period, and changes in ranks cannot be positively attributed to changes in the economic conditions or structure of a state economy]

State	Rank							Score						
	2002	2007	2008	2010	2012	2014	2017	2002	2007	2008	2010	2012	2014	2017
Alabama	47	46	47	47	46	41	44	45.3	45.1	37.4	43.5	45.7	50.4	48.2
Alaska	31	25	32	31	28	32	42	56.3	62.4	50.8	52.1	58.7	56.8	49.4
Arizona	16	22	20	20	16	17	21	67.2	63.2	60.0	61.0	66.7	67.1	66.5
Arkansas	48	47	48	48	48	47	49	41.7	44.7	35.3	40.0	41.7	44.2	42.8
California	3	5	8	7	4	3	2	85.5	82.9	75.0	74.3	79.1	83.7	84.7
Colorado	4	9	10	9	7	6	7	84.3	78.3	70.4	72.8	76.8	81.4	78.3
Connecticut	7	6	6	5	9	8	10	74.2	81.8	76.1	76.6	76.0	77.6	76.4
Delaware	9	7	4	6	2	2	5	70.5	79.6	79.3	75.0	82.1	85.1	80.4
Florida	18	23	23	21	21	25	24	62.7	63.2	58.3	60.6	61.4	61.6	62.7
Georgia	22	18	21	19	18	21	18	60.1	64.8	60.0	62.6	64.8	64.3	66.8
Hawaii	35	41	35	40	36	43	40	53.7	50.9	47.5	48.7	53.5	48.4	50.1
Idaho	20	24	26	27	24	24	29	61.6	62.8	55.6	54.2	60.5	62.3	58.5
Illinois	17	16	16	15	20	16	16	64.7	68.4	62.6	65.1	64.3	67.1	69.2
Indiana	36	31	36	35	42	38	33	52.8	55.8	47.4	49.7	49.4	54.6	55.9
Iowa	38	38	42	38	38	37	37	52.2	51.8	44.5	49.5	52.9	54.8	54.8
Kansas	29	34	31	26	29	31	30	56.7	53.6	52.9	54.5	57.7	57.3	57.5
Kentucky	42	45	45	44	45	44	39	48.6	45.3	41.3	46.0	45.7	48.4	50.5
Louisiana	45	44	41	43	44	46	46	45.9	45.9	44.7	46.0	46.1	47.0	47.6
Maine	25	32	28	28	27	28	36	58.3	55.6	53.9	54.0	58.9	58.3	55.2
Maryland	5	3	3	3	5	5	6	75.6	85.0	80.0	76.9	79.1	81.5	78.9
Massachusetts	1	1	1	1	1	1	1	90.0	96.1	97.0	92.6	92.4	94.7	96.6
Michigan	23	19	17	17	19	18	15	60.0	64.7	62.2	63.4	64.5	67.0	70.6
Minnesota	13	11	14	13	13	13	12	68.7	75.3	66.0	67.5	69.7	71.7	72.6
Mississippi	49	49	50	50	50	50	50	40.9	36.5	29.9	35.3	37.4	38.0	37.9
Missouri	24	35	37	33	33	33	28	58.9	53.5	46.9	50.8	54.9	56.8	59.0
Montana	37	42	40	37	37	39	43	52.8	49.5	46.0	49.7	53.1	54.4	49.1

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Table 13.14-- THE NEW ECONOMY INDEX, RANK AND SCORE FOR THE 50 STATES: 2002 TO 2017 -- Con.

State	Rank							Score						
	2002	2007	2008	2010	2012	2014	2017	2002	2007	2008	2010	2012	2014	2017
Nebraska	33	28	27	34	35	35	27	54.4	59.0	55.4	50.5	53.7	56.0	59.9
Nevada	32	27	25	30	26	27	31	55.7	59.2	56.7	52.5	59.0	58.7	57.4
New Hampshire	15	13	13	11	12	11	13	67.6	71.1	67.7	70.6	71.9	74.6	71.4
New Jersey	6	2	5	4	10	10	8	75.1	86.4	77.0	76.9	75.6	75.4	77.6
New Mexico	27	33	29	32	30	26	34	57.2	53.7	53.2	51.7	56.8	58.7	55.8
New York	10	10	9	10	11	12	11	69.3	77.4	74.4	71.3	72.5	73.0	74.5
North Carolina	26	26	24	24	25	23	22	57.5	60.2	57.4	57.1	60.2	63.1	65.6
North Dakota	44	37	39	36	34	36	38	46.1	51.9	46.5	49.7	54.1	55.8	51.8
Ohio	30	29	30	25	32	29	25	56.5	57.8	53.0	55.2	55.5	58.3	61.3
Oklahoma	34	40	43	42	47	48	45	54.1	51.4	43.2	47.2	45.5	44.1	47.9
Oregon	11	17	15	14	14	15	13	68.9	66.8	63.8	67.0	69.3	69.3	71.4
Pennsylvania	19	21	22	22	22	22	23	62.3	63.6	59.2	60.2	60.6	63.2	64.4
Rhode Island	21	15	11	16	23	19	20	61.5	68.6	67.7	63.6	60.5	66.8	66.7
South Carolina	41	39	34	39	40	34	35	51.1	51.5	48.7	49.3	49.8	56.6	55.3
South Dakota	43	48	44	45	43	42	41	47.4	43.8	42.9	45.1	48.0	49.0	49.5
Tennessee	39	36	38	41	39	40	32	52.2	53.3	46.7	48.5	52.2	51.3	56.9
Texas	14	14	18	18	17	20	17	67.6	68.6	62.1	63.0	65.7	65.2	67.5
Utah	12	12	12	12	8	9	9	68.7	73.2	67.7	69.1	76.4	77.0	77.3
Vermont	28	20	19	23	15	14	18	56.9	64.5	60.5	59.5	67.2	69.5	66.8
Virginia	8	8	7	8	6	7	4	72.1	79.5	75.6	73.7	77.9	80.9	81.7
Washington	2	4	2	2	3	4	3	86.2	84.6	81.9	77.5	79.5	82.5	84.5
West Virginia	50	50	49	49	49	49	48	40.7	35.6	31.9	38.1	37.9	39.8	44.1
Wisconsin	40	30	33	29	31	30	26	52.0	55.9	50.6	53.1	55.8	57.8	60.4
Wyoming	46	43	46	46	41	45	47	45.7	47.9	40.1	45.0	49.5	48.1	47.1

Source: The Information Technology & Innovation Foundation <<http://www.itif.org/>> *The State New Economy Index: 2002*; <<http://www.itif.org/files/2002-new-state-econ-index.pdf>>; Ibid. 2007 <http://www.itif.org/files/2007_State_New_Economy_Index.pdf>; Ibid. 2008 <http://www.itif.org/files/2008_State_New_Economy_Index.pdf>; Ibid. 2010 <<http://www.itif.org/files/2010-state-new-economy-index.pdf>> and Ibid. 2012 <<http://www2.itif.org/2012-state-new-economy-index.pdf>> accessed January 11, 2013; and Ibid 2014 <<http://www.itif.org/publications/2014-state-new-economy-index>> June 19, 2014; and Ibid. 2017 <<https://itif.org/publications/2017/11/06/2017-state-new-economy-index>> accessed January 17, 2018.

Table 13.15-- THE NEW ECONOMY INDEX, RANK: 2010 TO 2017

[The changing economic landscape known as the New Economy requires state economies to be innovative, globally-linked, entrepreneurial and dynamic, with an educated workforce and all sectors embracing the use of information technology. The State New Economy Index uses 25-27 indicators to measure the extent to which they do. Rank of 1 indicates most favorable. Changes in methodology may limit strict comparability over the period and changes in ranks cannot be positively attributed to changes in the economic conditions or the structure of a state economy]

Category	2010	2012	2014	2017
Overall	40	36	43	40
Knowledge jobs	(NA)	34	(NA)	(NA)
Information technology jobs	46	44	44	47
Managerial, professional, and technical jobs	41	33	31	41
Workforce education	13	14	15	16
Immigration of knowledge workers	7	28	23	25
Internal migration of U.S. knowledge workers	4	5	10	17
Manufacturing value added	46	46	50	50
High-wage traded services	46	39	42	39
Globalization	(NA)	30	(NA)	(NA)
Export focus of manufacturing and services	49	40	50	41
Foreign direct investment	8	19	23	6
High-tech exports	(NA)	(NA)	(NA)	49
Economic dynamism	(NA)	48	(NA)	(NA)
Job churning (Business churning in 2017)	32	33	31	33
Fast-growing firms	44	43	32	44
Initial public offerings	34	32	36	14
Entrepreneurial activity	45	46	26	(NA)
Inventor patents	41	39	40	36
Digital economy	(NA)	32	(NA)	(NA)
Online population	21	34	(NA)	(NA)
E-government	25	25	24	21
Online agriculture	31	26	26	28
Broadband telecommunications	19	26	40	36
Health IT	31	27	49	50
Innovation capacity	(NA)	23	(NA)	(NA)
High-tech jobs	41	40	41	48
Scientists and engineers	45	39	41	46
Patents	42	3	34	15
Industry investment in R&D	44	27	34	25
Non-Industry investment in R&D	17	17	19	14
Movement toward a green economy	24	16	37	3
Venture capital	36	45	47	43

NA Not available.

Source: The Information Technology & Innovation Foundation, *The State New Economy Index 2010*

<<http://www.itif.org/files/2010-state-new-economy-index.pdf>>; Ibid. 2012

<<http://www2.itif.org/2012-state-new-economy-index.pdf>> and 2012 Indicator Ranks (CSV)

<<http://www2.itif.org/2012-snei-indicator-ranks.csv>> accessed January 11, 2013; Ibid 2014 "Indicator

Scores By Rank" <<http://www2.itif.org/2014-snei-master-tables.pdf>> accessed June 19, 2014; and Ibid. 2017

<<http://www2.itif.org/2017-snei-master-tables.pdf>> accessed January 17, 2018.

**Table 13.16-- ECONOMIC ESTIMATES AND PROJECTIONS FOR
THE STATE AND BY COUNTY: 2016 TO 2045**

[In millions of 2012 dollars. See Section 1 for population and Section 12 for
jobs projections from the same source]

Year 1/	Total personal income	Labor income	Dividends, interest and rent	Transfer income	Contrib. for gov't insurance
State total					
2016	67,659	48,186	14,342	10,637	5,506
2020	73,430	51,920	15,690	11,800	5,970
2025	81,430	57,100	17,410	13,540	6,620
2030	89,960	62,340	19,230	15,630	7,240
2035	98,940	67,590	21,100	18,100	7,850
2040	108,450	72,880	23,040	20,980	8,440
2045	118,680	78,260	25,130	24,330	9,040
Hawaii					
2016	7,165	4,222	1,684	1,737	491
2020	7,970	4,640	1,900	1,970	540
2025	9,120	5,200	2,180	2,340	600
2030	10,410	5,810	2,480	2,790	660
2035	11,820	6,450	2,800	3,300	730
2040	13,340	7,140	3,150	3,860	800
2045	15,010	7,890	3,540	4,460	880
Honolulu					
2016	50,620	37,211	10,491	7,182	4,242
2020	54,550	39,850	11,390	7,880	4,570
2025	59,970	43,550	12,540	8,920	5,040
2030	65,610	47,200	13,730	10,160	5,480
2035	71,430	50,740	14,920	11,650	5,880
2040	77,480	54,210	16,120	13,410	6,260
2045	83,860	57,590	17,400	15,490	6,630

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Table 13.16-- ECONOMIC ESTIMATES AND PROJECTIONS FOR THE STATE AND BY COUNTY: 2016 TO 2045 -- Con.

Year	Total personal income	Labor income	Dividends, interest and rent	Transfer income	Contrib. for gov't insurance
Kauai					
2016	2,952	1,919	667	589	224
2020	3,250	2,100	740	660	250
2025	3,660	2,330	840	770	280
2030	4,100	2,580	940	900	310
2035	4,600	2,830	1,060	1,050	350
2040	5,140	3,110	1,180	1,230	380
2045	5,770	3,410	1,320	1,460	420
Maui					
2016	6,921	4,834	1,499	1,129	549
2020	7,650	5,330	1,660	1,280	610
2025	8,680	6,010	1,860	1,500	700
2030	9,830	6,760	2,090	1,780	790
2035	11,100	7,560	2,330	2,100	890
2040	12,490	8,420	2,590	2,480	1,000
2045	14,050	9,370	2,880	2,920	1,110

1/ Figures for 2016 are from the U.S. Bureau of Economic Analysis (BEA) and projection values for 2020 to 2045 were rounded to the nearest ten millions.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2045* (June 2018), Appendix Table A-54 <<http://dbedt.hawaii.gov/economic/economic-forecast/2045-long-range-forecast/>> accessed June 28, 2018.

Table 13.17-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS AND PERSONS: 1949 TO 2016

[In dollars. Based on censuses made in April of following year for 1949 to 1999 and American Community Survey beginning with 2009]

Year	Households	Families	Unrelated individuals with income 1/	Persons with income 2/	
				Male	Female
1949	(NA)	3,568	1,583	2,340	1,247
1959	(NA)	6,366	1,998	3,753	1,796
1969	10,675	11,664	2,981	6,528	3,222
1979	20,473	22,750	7,097	11,505	6,581
1989	38,829	43,176	(NA)	21,095	12,976
1999	49,820	56,961	(NA)	3/ 36,808	3/ 29,831
2009	64,098	75,066	37,834	45,911	35,977
2010	63,030	76,134	38,060	45,443	36,242
2011	61,821	74,234	38,510	45,494	37,242
2012	66,259	77,447	40,883	45,748	38,040
2013	68,020	80,316	40,189	48,440	40,370
2014	69,592	79,187	41,669	46,786	40,162
2015	73,486	83,823	42,331	48,074	40,434
2016	74,511	86,768	42,111	49,373	41,224

NA Not available.

1/ 14 years old and over through 1969, and 15 years old and over thereafter. Beginning with 2009, refers to median nonfamily income.

2/ 14 years old and over through 1969, and 15 years old and over thereafter. Beginning with 2009, refers to median earnings for male or female full-time, year-round workers.

3/ Data based on a sample. For information on confidentiality protection, sampling error, nonsampling error, and definitions see <<http://factfinder.census.gov/home/en/datanotes/expsf4.htm>>.

Source: U.S. Bureau of the Census, *Census of Population: 1960*, PC(1)-13C (1962), tables 66 and 67 (for 1949 data); *1970 Census of Population*, PC(1)-C13 (December 1971), table 47 (for 1959 data); *1980 Census of Population*, PC80-1-C-13 (June 1983), table 61 (for 1969 and 1979 data); *1990 Census of Population and Housing*, 1990 CP-2-13 (September 1993), table 28 (for 1989 data); U.S. Census Bureau, Census 2000, Table DP-3 Profile of Selected Economic Characteristics: 2000 (for 1999 data) <<http://www.hawaii.gov/dbedt/census2k/profile-state/index.html>> accessed July 23, 2002; U.S. Census Bureau, Census 2000 Summary File 4 (SF 4) - Sample Data, PCT133. Median Income in 1999 dollars, by sex, by work experience in 1999 for the Population 15 years and over with income; and American FactFinder, American Community Survey 1-Year Estimates Hawaii Geographic Area Profiles "DPO3 Selected Economic Characteristics" (annual) <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed January 17, 2018.

**Table 13.18-- MEDIAN INCOME OF FOUR-PERSON FAMILIES IN HAWAII
AND THE UNITED STATES: 1974 TO 2016**

[Based on small samples and subject to considerable sampling variation. From surveys taken in March or April of following year. The methodology used to compute 4-person family median income by state uses the most recent data available from the March Current Population Survey (CPS), the American Community Survey and the decennial census of population conducted by the Census Bureau, as well as per capita personal income estimates produced by the Bureau of Economic Analysis. The Census Bureau recommends 2-year averages to evaluate changes in state estimates over time, and 3-year averages to compare the relative ranking of states]

Calendar year 1/	Hawaii (dollars)	United States (dollars)	Hawaii rank 2/	Hawaii as percent of U.S.
1974	17,069	14,747	2	115.7
1975	18,825	15,848	2	118.8
1976	20,113	17,315	2	116.2
1977	21,718	18,723	2	116.0
1978	22,475	20,428	3	110.0
1979	24,582	22,395	7	109.8
1980 3/	27,514	24,332	4	113.1
1981	29,295	26,274	6	111.5
1982	30,019	27,619	9	108.7
1983	31,614	29,184	10	108.3
1984	33,445	31,097	11	107.6
1985	34,636	32,777	10	105.7
1986	36,618	34,716	11	105.5
1987	40,878	36,812	6	111.0
1988	42,353	39,051	8	108.5
1989	44,988	40,763	8	110.4
1990	50,234	41,451	6	121.2
1991	49,367	43,056	6	114.7
1992	50,856	44,251	5	114.9
1993	54,856	45,161	4	121.5
1994	56,992	47,012	5	121.2
1995 4/	54,749	49,687	6	110.2
1996	57,909	51,518	6	112.4
1997	58,474	53,350	10	109.6
1998 5/	61,540	56,061	10	109.8
1999	66,402	59,981	7	110.7
2000	65,872	62,228	15	105.9
2001 6/	66,014	63,278	16	104.3
2002	67,564	62,732	13	107.7
2003	71,320	65,093	12	109.6
2004	73,477	66,111	10	111.1
2005	79,240	67,019	6	118.2

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**Table 13.18-- MEDIAN INCOME OF FOUR-PERSON FAMILIES IN HAWAII
AND THE UNITED STATES: 1974 TO 2016 -- Con.**

Calendar year 1/	Hawaii (dollars)	United States (dollars)	Hawaii rank 2/	Hawaii as percent of U.S.
2006	84,472	70,354	6	120.1
2007	84,438	72,336	6	116.7
2008	91,483	75,782	6	120.7
2009	85,190	73,714	8	115.6
2010	82,726	72,767	11	113.7
2011	82,973	74,563	13	111.3
2012	83,538	76,049	15	109.8
2013	88,217	77,953	11	113.2
2014	91,096	80,545	10	113.1
2015	96,837	82,508	9	117.4
2016	97,849	86,877	12	112.6

1/ The term "calendar year" refers to the year the money income was received by the Current Population Survey respondents. Previous *Data Book's* tables included "fiscal year" (or, for this program, calendar year plus 3) which referred to the time period used for eligibility for the Department of Health and Human Services's Low Income Home Energy Assistance Program (LIHEAP). Estimates are as published in the *Federal Register*.

2/ Rank computed among the 50 states and the District of Columbia. Rank of 1 indicates the highest median income.

3/ Implementation of 1980 census population controls in CPS estimates.

4/ Implementation of 1990 census population controls in CPS estimates.

5/ In 1999, the U.S. Bureau of Economic Analysis revised its methodology in estimating personal per capita income.

6/ Implementation of Census 2000-based population controls in CPS estimates.

Source: U.S. Census Bureau, Median Income for 4-Person Families, By State, 1974-2003 (FY 1977-2006) <<http://www.census.gov/hhes/income/4person.html>> accessed April 25, 2005; and *Federal Register*: February 28, 2006 (Volume 71, Number 39), pp. 10037-10039 <<http://www.gpoaccess.gov/fr/index.html>> accessed April 25, 2006; *Federal Register*: March 28, 2007 (Volume 72, Number 59) pp. 14579-14581 <<http://www.gpoaccess.gov/fr/index.html>> accessed April 26, 2007; *Federal Register*: March 5, 2008 (Volume 73, Number 44), pp. 11924-11926 <<http://www.gpoaccess.gov/fr/index.html>> accessed March 31, 2008; *Federal Register*: March 13, 2009 (Volume 74, Number 48), pp. 10922-10924 <<http://www.gpoaccess.gov/fr/index.html>> accessed April 2, 2009; U.S. Census Bureau, American Factfinder "American Community Survey 1-Year Estimates, Table B19119. Median Family Income In The Past 12 Months (In Inflation-Adjusted Dollars) By Family Size" (annual) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed January 17, 2018 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 13.19 -- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR HAWAII AND THE UNITED STATES, IN CURRENT AND CONSTANT 2016 DOLLARS: 1984 TO 2016

[Based on small samples and subject to considerable sampling variation. From surveys conducted in March or April of following year. Median income in current and 2016 CPI-U-RS adjusted dollars. The CPI-U-RS is a price index of inflation that incorporates most of the improvements in methodology made to the current CPI-U since 1978 into a single, uniform series. The Census Bureau recommends using the ACS one-year estimates to examine the most recent state trends, and the CPS for examining historical trends (more than a few years) by state]

Year	Median income in current dollars					
	Hawaii			United States		
	Amount (dollars)	Percent change	Standard error	Amount (dollars)	Percent change	Standard error
1984	28,877	(NA)	1,216	22,415	(NA)	102
1985	28,961	0.3	1,446	23,618	5.4	128
1986	29,003	0.1	1,206	24,897	5.4	129
1987	35,022	20.8	1,074	26,061	4.7	127
1988	33,024	-5.7	1,482	27,225	4.5	139
1989	35,035	6.1	1,328	28,906	6.2	159
1990	38,921	11.1	1,414	29,943	3.6	153
1991	37,246	-4.3	1,630	30,126	0.6	144
1992	42,113	13.1	1,435	30,636	1.7	145
1993	42,662	1.3	1,759	31,241	2.0	146
1994	42,255	-1.0	2,423	32,264	3.3	147
1995	42,851	1.4	1,292	34,076	5.6	197
1996	41,772	-2.5	1,893	35,492	4.2	179
1997	40,934	-2.0	1,399	37,005	4.3	171
1998	40,827	-0.3	2,369	38,885	5.1	230
1999	44,504	9.0	1,832	40,696	4.7	190
2000	51,546	15.8	1,193	41,990	3.2	132
2001	47,439	-8.0	1,256	42,228	0.6	129
2002	47,303	-0.3	1,371	42,409	0.4	139
2003	51,834	9.6	1,332	43,318	2.1	188
2004	56,242	8.5	1,690	44,334	2.3	196
2005	59,586	5.9	1,212	46,326	4.5	155
2006	60,470	1.5	1,571	48,201	4.0	207
2007	64,022	5.9	2,125	50,233	4.2	140
2008	61,521	-3.9	1,481	50,303	0.1	137
2009	55,649	-9.5	2,023	49,777	-1.0	213
2010	59,539	7.0	2,731	49,276	-1.0	325
2011	59,047	-0.8	2,531	50,054	1.6	251
2012	56,263	-4.7	2,255	51,017	1.9	209
2013 1/	61,408	9.1	2,207	51,939	1.8	276
2013 2/	64,235	4.6	3,918	53,585	3.2	654
2014	71,223	10.9	2,676	53,657	0.1	392
2015	64,514	-9.4	2,840	56,516	5.3	321
2016	72,133	11.8	2,510	59,039	4.5	436

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Table 13.19 -- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR HAWAII AND THE UNITED STATES, IN CURRENT AND CONSTANT 2016 DOLLARS: 1984 TO 2016 -- Con.

Year	Median income in constant (2016) dollars					
	Hawaii			United States		
	Amount (dollars)	Percent change	Standard error	Amount (dollars)	Percent change	Standard error
1984	63,558	(NA)	2,676	49,335	(NA)	225
1985	61,627	-3.0	3,077	50,258	1.9	272
1986	60,655	-1.6	2,522	52,068	3.6	270
1987	70,807	16.7	2,171	52,690	1.2	257
1988	64,440	-9.0	2,892	53,124	0.8	271
1989	65,500	1.6	2,483	54,042	1.7	297
1990	69,346	5.9	2,519	53,350	-1.3	273
1991	64,032	-7.7	2,802	51,791	-2.9	248
1992	70,642	10.3	2,407	51,390	-0.8	243
1993	69,803	-1.2	2,878	51,116	-0.5	239
1994	67,723	-3.0	3,883	51,710	1.2	236
1995	67,063	-1.0	2,022	53,330	3.1	308
1996	63,678	-5.0	2,886	54,105	1.5	273
1997	61,081	-4.1	2,088	55,218	2.1	255
1998	60,107	-1.6	3,488	57,248	3.7	339
1999	64,154	6.7	2,641	58,665	2.5	274
2000	71,867	12.0	1,663	58,544	-0.2	184
2001	64,310	-10.5	1,703	57,246	-2.2	175
2002	63,130	-1.8	1,830	56,599	-1.1	186
2003	67,641	7.1	1,738	56,528	-0.1	245
2004	71,463	5.7	2,147	56,332	-0.3	249
2005	73,231	2.5	1,490	56,935	1.1	190
2006	71,984	-1.7	1,870	57,379	0.8	246
2007	74,111	3.0	2,460	58,149	1.3	162
2008	68,581	-7.5	1,651	56,076	-3.6	153
2009	62,252	-9.2	2,263	55,683	-0.7	238
2010	65,543	5.3	3,006	54,245	-2.6	358
2011	62,995	-3.9	2,700	53,401	-1.6	268
2012	58,815	-6.6	2,357	53,331	-0.1	218
2013 1/	63,274	7.6	2,274	53,518	0.4	284
2013 2/	66,187	4.6	4,037	55,214	3.2	674
2014	72,206	9.1	2,713	54,398	-1.5	397
2015	65,329	-9.5	2,876	57,230	5.2	325
2016	72,133	10.4	2,510	59,039	3.2	436

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Table 13.19 -- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR HAWAII AND THE UNITED STATES, IN CURRENT AND CONSTANT 2016 DOLLARS: 1984 TO 2016 -- Con.

NA Not available.

1/ The 2014 CPS ASEC included redesigned questions for income and health insurance coverage. All of the approximately 98,000 addresses were eligible to receive the redesigned set of health insurance coverage questions. The redesigned income questions were implemented to a subsample of the 98,000 addresses using a probability split panel design. Approximately 68,000 addresses were eligible to receive a set of income questions similar to those used in the 2013 CPS ASEC and the remaining 30,000 addresses were eligible to receive the redesigned income questions. The source of these 2013 estimates is the portion of the CPS ASEC sample which received the income questions consistent with the 2013 CPS ASEC, approximately 68,000 addresses.

2/ The source of these 2013 estimates is the portion of the CPS ASEC sample which received the redesigned income questions, approximately 30,000 addresses.

Source: U.S. Census Bureau, Historical Income Tables - Households, Table H-8. Median Household Income by State: 1984 to 2016 <<https://www2.census.gov/programs-surveys/cps/tables/time-series/historical-income-households/h08.xls>> accessed January 18, 2018; and calculations by Hawaii Department of Business, Economic Development & Tourism.

Table 13.20- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR HAWAII AND THE UNITED STATES, 2-YEAR MOVING AVERAGES IN CONSTANT 2016 DOLLARS: 1984 TO 2016

[Based on small samples and subject to considerable sampling variation. Surveys conducted in March or April of following year. Median income in 2016 CPI-U-RS adjusted dollars. The CPI-U-RS is a price index of inflation that incorporates most improvements in methodology made to the current CPI-U since 1978 into a single, uniform series. The Census Bureau recommends 2-year averages to evaluate changes in state estimates over time]

Year	Median income, 2-year moving averages					
	Hawaii			United States		
	Income (dollars)	Percent change	Standard error	Income (dollars)	Percent change	Standard error
1984-1985	62,593	(NA)	2,366	49,797	(NA)	205
1985-1986	61,141	-2.3	2,306	51,163	2.7	223
1986-1987	65,731	7.5	1,931	52,379	2.4	216
1987-1988	67,623	2.9	2,090	52,907	1.0	217
1988-1989	64,970	-3.9	2,211	53,583	1.3	234
1989-1990	67,423	3.8	2,055	53,696	0.2	234
1990-1991	66,689	-1.1	2,188	52,571	-2.1	214
1991-1992	67,337	1.0	2,143	51,591	-1.9	202
1992-1993	70,223	4.3	2,175	51,253	-0.7	198
1993-1994	68,763	-2.1	2,792	51,413	0.3	195
1994-1995	67,393	-2.0	2,483	52,520	2.2	224
1995-1996	65,371	-3.0	2,031	53,717	2.3	239
1996-1997	62,379	-4.6	2,056	54,661	1.8	217
1997-1998	60,594	-2.9	2,325	56,233	2.9	245
1998-1999	62,131	2.5	2,529	57,956	3.1	252
1999-2000	68,010	9.5	1,790	58,604	1.1	190
2000-2001	68,088	0.1	1,383	57,895	-1.2	147
2001-2002	63,720	-6.4	1,452	56,922	-1.7	148
2002-2003	65,386	2.6	1,466	56,564	-0.6	178
2003-2004	69,552	6.4	1,600	56,430	-0.2	203
2004-2005	72,347	4.0	1,506	56,633	0.4	181
2005-2006	72,608	0.4	1,384	57,157	0.9	180
2006-2007	73,048	0.6	1,787	57,764	1.1	170
2007-2008	71,346	-2.3	1,704	57,112	-1.1	129
2008-2009	65,417	-8.3	1,617	55,880	-2.2	162
2009-2010	63,985	-2.2	2,497	54,885	-1.8	317
2010-2011	64,269	0.4	2,305	53,823	-1.9	272
2011-2012	60,905	-5.2	1,946	53,366	-0.8	201
2012-2013 1/ 2/	61,045	0.2	1,663	53,425	0.1	189
2014-2015 1/	68,767	12.6	2,150	55,814	4.5	256
2015-2016 1/	68,731	-0.1	1,958	58,135	4.2	276

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**Table 13.20- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR HAWAII
AND THE UNITED STATES, 2-YEAR MOVING AVERAGES IN
CONSTANT 2016 DOLLARS: 1984 TO 2016 -- Con.**

NA Not available.

1/ Due to the redesign of the CPS ASEC income questions, 2013 was the last year that data are available for sequential two-year averages.

2/ Data are based on the 2014 CPS ASEC with redesigned questions for income and health insurance coverage.

Source: U.S. Census Bureau, "Table H-8A. Median Income of Households by State: 1984 to 2016 Two-Year Moving Averages" <<https://www2.census.gov/programs-surveys/cps/tables/time-series/historical-income-households/h08a.xls>> accessed January 18, 2018 and calculations by the Hawaii State Department of Business Economic Development & Tourism.

Table 13.21-- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR HAWAII AND THE UNITED STATES, 3-YEAR MOVING AVERAGES IN CONSTANT 2016 DOLLARS: 1984 TO 2016

[Based on small samples and subject to considerable sampling variation. From surveys conducted in March or April of following year. Median income in 2016 CPI-U-RS adjusted dollars. The CPI-U-RS is a price index of inflation that incorporates most of the improvements in methodology made to the current CPI-U since 1978 into a single, uniform series. The Census Bureau recommends 3-year averages to compare the relative ranking of states]

Year	Median income, 3-year moving averages		
	Hawaii (dollars)	Standard error	Rank 1/
1984-1986	61,947	1,949	5
1985-1987	64,363	1,820	5
1986-1988	65,301	1,753	6
1987-1989	66,916	1,785	5
1988-1990	66,429	1,834	6
1989-1991	66,293	1,816	6
1990-1992	68,007	1,815	3
1991-1993	68,159	1,871	3
1992-1994	69,390	2,156	2
1993-1995	68,196	2,128	2
1994-1996	66,155	2,030	3
1995-1997	63,941	1,669	5
1996-1998	61,622	1,948	14
1997-1999	61,781	1,973	16
1998-2000	65,376	1,869	10
1999-2001	66,777	1,402	9
2000-2002	66,436	1,210	10
2001-2003	65,027	1,233	11
2002-2004	67,411	1,326	8
2003-2005	70,778	1,278	4
2004-2006	72,226	1,270	3
2005-2007	73,109	1,372	4
2006-2008	71,559	1,427	5
2007-2009	68,315	1,467	7
2008-2010	65,080	1,457	10
2009-2011	63,655	2,135	9
2010-2012	62,451	1,902	11
2011-2013 2/	61,695	1,489	12
2013-2015 2/	67,907	2,031	6
2014-2016 2/	69,889	1,713	6

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Table 13.21-- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR HAWAII AND THE UNITED STATES, 3-YEAR MOVING AVERAGES IN CONSTANT 2016 DOLLARS: 1984 TO 2016-- Con.

Year	Median income, 3-year moving averages		
	United States (dollars)	Standard error	Rank between 1/
1984-1986	50,554	180	22 & 23
1985-1987	51,672	186	24 & 25
1986-1988	52,627	185	24 & 25
1987-1989	53,285	192	22 & 23
1988-1990	53,505	197	21 & 22
1989-1991	53,061	191	20 & 21
1990-1992	52,177	178	23 & 24
1991-1993	51,433	170	23 & 24
1992-1994	51,406	167	23 & 24
1993-1995	52,052	182	22 & 23
1994-1996	53,048	193	22 & 23
1995-1997	54,218	195	22 & 23
1996-1998	55,524	201	22 & 23
1997-1999	57,043	206	22 & 23
1998-2000	58,152	190	21 & 22
1999-2001	58,151	148	20 & 21
2000-2002	57,463	127	24 & 25
2001-2003	56,791	141	24 & 25
2002-2004	56,486	160	20 & 21
2003-2005	56,598	161	21 & 22
2004-2006	56,882	158	22 & 23
2005-2007	57,488	143	20 & 21
2006-2008	57,201	131	22 & 23
2007-2009	56,636	129	22 & 23
2008-2010	55,397	148	26 & 27
2009-2011	54,390	264	26 & 27
2010-2012	53,659	220	24 & 25
2011-2013 2/	53,417	176	26 & 27
2013-2015 2/	55,614	287	25 & 26
2014-2016 2/	56,889	230	27 & 28

1/ Rank among the 50 states and the District of Columbia. A rank of 1 indicates the highest median income and a rank for the United States average indicates its relative place among them.

2/ Data based on the 2014 CPS ASEC with redesigned questions for income and health insurance coverage.

Source: U.S. Census Bureau, "Table H-8B. Median Income of Households by State: 1984 to 2016 Three Moving Averages" <<http://www2.census.gov/programs-surveys/cps/tables/time-series/historical-income-households/h08b.xls>> accessed January 18, 2018; and calculations by Hawaii Department of Business, Economic Development & Tourism.

Table 13.22-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES AND PERCENT OF FAMILIES AND PERSONS BELOW POVERTY LEVEL, BY COUNTY AND SELECTED CENSUS DESIGNATED PLACE (CDP): 2012-2016

[Average of the 5-year period]

Geographic area	Median income (dollars) 1/		Percent below poverty level 2/	
	Households	Families	Persons	Families
State	71,977	83,451	10.8	7.3
County: Hawaii	53,936	63,031	18.7	14.1
Honolulu	77,161	89,875	9.5	6.1
Kalawao	65,625	111,875	12.9	0.0
Kauai	68,224	81,280	9.6	6.1
Maui	68,777	77,899	9.8	6.8
CDP: Hilo	55,815	70,913	17.4	11.1
East Honolulu	114,122	129,616	3.7	2.4
Kailua (Oahu)	109,087	116,510	4.5	2.6
Kaneohe	92,257	100,472	6.2	3.4
Pearl City	89,320	99,583	5.1	3.5
Urban Honolulu	63,361	77,567	12.1	7.8
Waipahu	72,447	78,198	12.8	9.6
Kahului	70,905	75,777	9.4	5.3
Lihue	61,725	80,938	9.1	7.7

1/ Inflation- adjusted 2016 dollars for 2012-2016.

2/ Based on U.S. poverty thresholds. Thresholds in Hawaii are about 15 percent higher; these statistics accordingly understate the prevalence of poverty in Hawaii.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates "DP03: Selected Economic Characteristics" for State of Hawaii, Honolulu, Hawaii, Kauai, Maui, Kalawao counties, and selected Census Designated Places <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed April 17, 2018.

Table 13.23-- ESTIMATED MEDIAN HOUSEHOLD INCOME AND POVERTY STATUS, BY COUNTY: 2015 AND 2016

[Small Area Income and Poverty Estimates (SAIPE) estimates provide timely, reliable estimates of income and poverty for the administration of federal programs and the allocation of federal funds to local jurisdictions and school districts. All data shown are estimates containing uncertainty]

Item	Median household income			Persons in poverty 1/						Persons under 18 in poverty					
	Dollars	90% conf. interval 2/		Number	90% conf. interval 2/		Per-cent	90% conf. interval 2/		Number	90% conf. interval 2/		Per-cent	90% conf. interval 2/	
		Lower limit	Upper limit		Lower limit	Upper limit		Lower limit	Upper limit		Lower limit	Upper limit			
2015															
State total	73,097	71,322	74,872	149,091	143,298	154,884	10.7	10.3	11.1	44,299	41,234	47,364	14.5	13.5	15.5
County															
Hawaii	54,914	51,410	58,418	35,294	30,757	39,831	18.3	16.0	20.6	12,088	10,112	14,064	28.5	23.8	33.2
Honolulu	76,544	75,009	78,079	88,536	81,818	95,254	9.2	8.5	9.9	24,207	21,178	27,236	11.5	10.1	12.9
Kalawao 3/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kauai	70,122	66,862	73,382	7,928	6,333	9,523	11.2	8.9	13.5	2,495	1,892	3,098	15.9	12.1	19.7
Maui 3/	68,684	66,231	71,137	17,333	14,190	20,476	10.7	8.8	12.6	5,508	4,273	6,743	15.3	11.9	18.7
2016															
State total	74,659	73,083	76,235	132,597	125,573	139,621	9.5	9.0	10.0	33,801	30,628	36,974	11.2	10.1	12.3
County															
Hawaii	54,684	51,934	57,434	29,962	25,459	34,465	15.4	13.1	17.7	8,133	6,092	10,174	19.3	14.5	24.1
Honolulu	80,012	78,639	81,385	81,341	73,958	88,724	8.5	7.7	9.3	19,779	16,697	22,861	9.5	8.0	11.0
Kalawao 3/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kauai	63,164	58,023	68,305	5,716	4,273	7,159	8.1	6.1	10.1	1,707	1,128	2,286	10.8	7.1	14.5
Maui 3/	69,699	66,215	73,183	15,578	12,378	18,778	9.5	7.5	11.5	4,181	2,975	5,387	11.7	8.3	15.1

NA Not available.

1/ Based on Mainland poverty thresholds. Official Hawaii thresholds are about 15 percent higher. See following table.

2/ A confidence interval is a range of values that describes the uncertainty surrounding an estimate and are one way to represent how "good" an estimate is; the larger a 90% confidence interval for a particular estimate, the more caution is required when using the estimate.

3/ Kalawao is a Census-designated county but is included in Maui County for other consideration.

Source: U.S. Census Bureau, Small Area Income and Poverty Estimates <<https://www.census.gov/data/datasets/2016/demo/saipe/2016-state-and-county.html>> accessed January 18, 2018.

**Table 13.24-- INCOME OF HOUSEHOLDS AND FAMILIES:
2015 AND 2016**

[Data based on a sample. For information on using the American Community Survey results see <http://www.census.gov/acs/www/guidance_for_data_users/guidance_main/>]

Income	Households		Families	
	Number	Percent	Number	Percent
2015 (in 2015 inflation-adjusted dollars)	445,936	100.0	309,386	100.0
Less than \$10,000	23,431	5.3	8,763	2.8
\$10,000 to \$14,999	14,298	3.2	6,275	2.0
\$15,000 to \$24,999	30,457	6.8	12,813	4.1
\$25,000 to \$34,999	30,273	6.8	17,034	5.5
\$35,000 to \$49,999	48,444	10.9	31,017	10.0
\$50,000 to \$74,999	79,554	17.8	57,310	18.5
\$75,000 to \$99,999	64,879	14.5	48,463	15.7
\$100,000 to \$149,999	83,618	18.8	68,830	22.2
\$150,000 to \$199,999	38,040	8.5	31,469	10.2
\$200,000 or more	32,942	7.4	27,412	8.9
Median income (dollars)	73,486	(X)	83,823	(X)
2016 (in 2016 inflation-adjusted dollars)	455,868	100.0	315,505	100.0
Less than \$10,000	25,137	5.5	7,961	2.5
\$10,000 to \$14,999	16,648	3.7	6,353	2.0
\$15,000 to \$24,999	28,509	6.3	12,893	4.1
\$25,000 to \$34,999	30,369	6.7	19,370	6.1
\$35,000 to \$49,999	47,723	10.5	29,231	9.3
\$50,000 to \$74,999	80,844	17.7	56,695	18.0
\$75,000 to \$99,999	62,561	13.7	49,534	15.7
\$100,000 to \$149,999	85,157	18.7	68,068	21.6
\$150,000 to \$199,999	37,177	8.2	30,886	9.8
\$200,000 or more	41,743	9.2	34,514	10.9
Median income (dollars)	74,511	(X)	86,768	(X)

X Not applicable.

Source: U.S. Census Bureau, American Community Survey 1-Year Estimates, Hawaii 2015 "DP03: Selected Economic Characteristics" and Ibid. 2016

<<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed January 18, 2018.

Table 13.25-- INCOME TYPE AND PER CAPITA INCOME, BY COUNTY: 2011-2015 AND 2012-2016

[In number and dollars. Averages of 5-year periods]

Subject	State total	City & County of Honolulu	County of Hawaii	County of Kalawao	County of Kauai	County of Maui
Households 2011- 2015	450,572	309,602	65,048	54	22,405	53,463
With earnings	365,525	256,581	47,497	47	17,494	43,906
Mean earnings (dollars) 1/	83,023	87,550	64,878	66,770	76,134	78,959
With Social Security income	149,707	99,642	24,378	14	8,303	17,370
Mean Social Security income (dollars) 1/	18,277	18,444	17,682	7,286	18,515	18,052
With retirement income	103,034	72,155	14,695	14	4,985	11,185
Mean retirement income (dollars) 1/	28,136	29,547	25,810	17,607	25,141	23,437
With Supplemental Security income	18,928	12,399	3,439	2	929	2,159
Mean Supplemental Security income (dollars) 1/	9,233	9,109	9,399	-	9,008	9,783
With cash public assistance income	16,429	10,158	3,672	2	898	1,699
Mean cash public assistance income (dollars) 1/	4,810	4,826	4,630	-	5,187	4,900
With Food Stamp/SNAP benefits in the past 12 months	50,798	30,057	12,145	3	2,283	6,310
Per capita income (dollars) 1/	29,822	31,041	24,548	46,769	27,441	29,664
Households 2012- 2016						
With earnings	365,446	255,874	48,082	48	17,506	43,936
Mean earnings (dollars) 1/	86,812	91,494	68,007	71,871	80,423	82,684
With Social Security income	154,305	102,166	25,662	13	8,228	18,236
Mean Social Security income (dollars) 1/	18,529	18,680	17,848	6,700	18,749	18,554
With retirement income	105,379	74,028	14,805	13	5,089	11,444
Mean retirement income (dollars) 1/	28,661	29,941	26,336	16,131	26,433	24,393
With Supplemental Security income	19,119	12,394	3,751	1	946	2,027
Mean Supplemental Security income (dollars) 1/	9,263	9,163	9,483	(2/)	9,047	9,566
With cash public assistance income	15,865	10,270	3,118	2	820	1,655
Mean cash public assistance income (dollars) 1/	4,579	4,416	4,863	(2/)	5,132	4,773
With Food Stamp/SNAP benefits in the past 12 months	52,270	30,671	12,901	2	2,259	6,437
Per capita income (dollars) 1/	30,970	32,194	25,827	45,812	28,791	30,599

1/ In 2015-inflation adjusted dollars for 2011-2015, and 2016-inflation adjusted dollars for 2012-2016.

2/ Number of sample cases is too small to show.

Source: U.S. Census Bureau, American Community Survey 5-Year Estimates 2011-2015, "DP03: Selected Economic Characteristics: Hawaii State, and Counties" <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed December 8, 2016; and Ibid. 2012- 2016 <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed January 18, 2018.

Table 13.26-- POVERTY STATUS OF PERSONS: 1980 TO 2016

[Based on Mainland poverty thresholds. Official Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the number and percent of persons below the poverty level in Hawaii. Data are based on surveys made in March or April of the following year, and exclude inmates of institutions, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years]

Year	Total (1,000)	Number (1,000)	Standard error	Percent	Standard error
1980	954	81	25	8.5	2.5
1981	953	108	29	11.3	2.9
1982	997	132	32	13.2	3.0
1983	998	129	19	12.9	1.8
1984	997	92	27	9.3	2.6
1985	1,018	109	18	10.7	1.7
1986	1,024	109	18	10.7	1.7
1987	1,086	95	16	8.8	1.5
1988	1,051	117	18	11.1	1.7
1989	1,086	122	19	11.3	1.8
1990	1,100	121	19	11.0	1.7
1991	1,164	90	17	7.7	1.4
1992	1,187	133	20	11.2	1.7
1993	1,135	91	17	8.0	1.5
1994	1,106	97	17	8.7	1.6
1995	1,187	122	20	10.3	1.7
1996	1,172	142	23	12.1	1.8
1997	1,182	164	24	13.9	1.9
1998	1,201	131	22	10.9	1.7
1999	1,225	133	22	10.8	1.7
2000	1,195	106	12	8.9	0.9
2001	1,205	138	13	11.4	1.1
2002	1,219	138	14	11.3	1.0
2003	1,250	117	12	9.3	1.0
2004 1/	1,244	106	12	8.6	1.0
2005 1/	1,274	110	12	8.6	1.0
2006 1/	1,254	116	13	9.2	1.0
2007 1/	1,264	94	12	7.5	0.9
2008 1/	1,255	125	13	9.9	1.1
2009 1/	1,250	156	14	12.5	1.2
2010 1/	1,311	162	15	12.4	1.2
2011 1/	1,337	162	18	12.1	1.4
2012 1/	1,356	188	21	13.8	1.6
2013 1/ 2/	1,368	152	16	11.1	1.2
2013 1/ 3/	1,338	142	24	10.6	1.8
2014 1/	1,365	147	16	10.8	1.1
2015 1/	1,382	151	16	10.9	1.1
2016 1/	1,392	129	17	9.3	1.2

Continued on next page.

Table 13.26-- POVERTY STATUS OF PERSONS: 1980 TO 2016 -- Con.

1/ For the United States, the poverty rate was 12.7 percent in 2004, 12.6 percent in 2005, 12.3 percent in 2006, 12.5 percent in 2007, 13.2 percent in 2008, 14.3 percent in 2009, 15.1 percent in 2010, 15.0 percent in 2011, 15.0 percent in 2012, 14.8 percent in 2013 (revised), 14.8 percent in 2014, 13.5 percent in 2015, and 12.7 percent in 2016.

2/ Data are based on the CPS ASEC sample of 68,000 addresses. The 2014 CPS ASEC included redesigned questions for income and health insurance coverage. All of the approximately 98,000 addresses were eligible to receive the redesigned set of health insurance coverage questions. The redesigned income questions were implemented to a subsample of these 98,000 addresses using a probability split panel design. Approximately 68,000 addresses were eligible to receive a set of income questions similar to those used in the 2013 CPS ASEC and the remaining 30,000 addresses were eligible to receive the redesigned income questions. The source of the 2013 data for this table is the portion of the CPS ASEC sample which received the income questions consistent with the 2013 CPS ASEC, approximately 68,000 addresses.

3/ The 2014 CPS ASEC included redesigned questions for income and health insurance coverage. All of the approximately 98,000 addresses were eligible to receive the redesigned set of health insurance coverage questions. The redesigned income questions were implemented to a subsample of these 98,000 addresses using a probability split panel design. Approximately 68,000 addresses were eligible to receive a set of income questions similar to those used in the 2013 CPS ASEC and the remaining 30,000 addresses were eligible to receive the redesigned income questions. The source of data for this table is the portion of the CPS ASEC sample which received the redesigned income questions, approximately 30,000 addresses.

Source: U.S. Bureau of the Census, Historical Poverty Tables - People, Tables 19 and 21
<<https://www.census.gov/data/tables/time-series/demo/income-poverty/historical-poverty-people.html>>
accessed January 18, 2018.

Table 13.27-- POVERTY STATUS, FOR THE STATE AND BY COUNTY: 2012-2016

[Based on nationwide poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the numbers of persons and families below the poverty level in Hawaii. Average of 2012-2016.
Data in percent below poverty level]

Subject	State total	City & County of Honolulu	Hawaii County	Kalawao County	Kauai County	Maui County
All families	7.3	6.1	14.1	0.0	6.1	6.8
With related children under 18 years	11.0	9.2	23.2	(1/)	8.6	9.8
With related children under 5 years only	9.8	7.0	27.7	(1/)	10.2	9.1
Married couple families	4.3	3.6	8.2	0.0	3.8	4.1
With related children under 18 years	5.4	4.7	10.8	(1/)	3.9	5.0
With related children under 5 years only	3.2	3.3	5.3	(1/)	1.5	1.8
Families with female householder, no husband present	18.6	16.4	31.9	(1/)	14.0	16.4
With related children under 18 years	28.3	26.1	45.0	(1/)	20.9	20.9
With related children under 5 years only	32.6	27.7	53.1	(1/)	19.6	29.0
All people	10.8	9.5	18.7	12.9	9.6	9.8
Under 18 years	14.1	12.2	26.8	(1/)	9.6	12.2
Related children under 18 years	13.6	11.6	26.5	(1/)	9.3	11.6
Related children under 5 years	14.5	12.1	30.7	(1/)	11.0	12.5
Related children 5 to 17 years	13.2	11.4	24.8	(1/)	8.6	11.2
18 years and over	9.9	8.7	16.4	12.9	9.6	9.2
18 to 64 years	10.4	9.0	18.5	5.8	10.2	9.7
65 years and over	7.7	7.5	9.3	43.8	7.7	7.2
People in families	7.7	6.5	15.5	0.0	6.0	6.8
Unrelated individuals 15 years and over	25.1	24.1	31.6	20.0	26.0	22.1

1/ Either there were no sample observations or too few sample observations were available to compute an estimate.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, "DP03: Selected Economic Characteristics: Hawaii State, and Counties" <<https://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 15, 2018.

**Table 13.28-- POVERTY INCOME GUIDELINES FOR HAWAII,
THE UNITED STATES AND ALASKA: 2009 TO 2018**

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services to determine eligibility for certain Federal programs for the poor]

Effective date	Size of family unit								Add'n member
	1	2	3	4	5	6	7	8	
Jan. 23, 2009	12,460	16,760	21,060	25,360	29,660	33,960	38,260	42,560	4,300
Aug. 3, 2010	12,460	16,760	21,060	25,360	29,660	33,960	38,260	42,560	4,300
Jan. 20, 2011	12,540	16,930	21,320	25,710	30,100	34,490	38,880	43,270	4,390
Jan. 26, 2012	12,860	17,410	21,960	26,510	31,060	35,610	40,160	44,710	4,550
Jan. 24, 2013	13,230	17,850	22,470	27,090	31,710	36,330	40,950	45,570	4,620
Jan. 22, 2014	13,420	18,090	22,760	27,430	32,100	36,770	41,440	46,110	4,670
Jan. 22, 2015	13,550	18,330	23,110	27,890	32,670	37,450	42,230	47,010	4,780
Jan. 25, 2016	13,670	18,430	23,190	27,950	32,710	37,470	42,230	47,010	4,780
Jan. 26, 2017	13,860	18,670	23,480	28,290	33,100	37,910	42,720	47,530	4,810
Jan. 13, 2018	13,960	18,930	23,900	28,870	33,840	38,810	43,780	48,750	4,970
Jan. 23, 2009									
U.S. 1/	10,830	14,570	18,310	22,050	25,790	29,530	33,270	37,010	3,740
Alaska	13,530	18,210	22,890	27,570	32,250	36,930	41,610	46,290	4,680
Aug. 3, 2010									
U.S. 1/	10,830	14,570	18,310	22,050	25,790	29,530	33,270	37,010	3,740
Alaska	13,530	18,210	22,890	27,570	32,250	36,930	41,610	46,290	4,680
Jan. 20, 2011									
U.S. 1/	10,890	14,710	18,530	22,350	26,170	29,990	33,810	37,630	3,820
Alaska	13,600	18,380	23,160	27,940	32,720	37,500	42,280	47,060	4,780
Jan. 26, 2012									
U.S. 1/	11,170	15,130	19,090	23,050	27,010	30,970	34,930	38,890	3,960
Alaska	13,970	18,920	23,870	28,820	33,770	38,720	43,670	48,620	4,950
Jan. 24, 2013									
U.S. 1/	11,490	15,510	19,530	23,550	27,570	31,590	35,610	39,630	4,020
Alaska	14,350	19,380	24,410	29,440	34,470	39,500	44,530	49,560	5,030
Jan. 22, 2014									
U.S. 1/	11,670	15,730	19,790	23,850	27,910	31,970	36,030	40,090	4,060
Alaska	14,580	19,660	24,740	29,820	34,900	39,980	45,060	50,140	5,080
Jan. 22, 2015									
U.S. 1/	11,770	15,930	20,090	24,250	28,410	32,570	36,730	40,890	4,160
Alaska	14,720	19,920	25,120	30,320	35,520	40,720	45,920	51,120	5,200
Jan. 25, 2016									
U.S. 1/	11,880	16,020	20,160	24,300	28,440	32,580	36,730	40,890	4,160
Alaska	14,840	20,020	25,200	30,380	35,560	40,740	45,920	51,120	5,200
Jan. 26, 2017									
U.S. 1/	12,060	16,240	20,420	24,600	28,780	32,960	37,140	41,320	4,180
Alaska	15,060	20,290	25,520	30,750	35,980	41,210	46,440	51,670	5,230
Jan. 13, 2018									
U.S. 1/	12,140	16,460	20,780	25,100	29,420	33,740	38,060	42,380	4,320
Alaska	15,180	20,580	25,980	31,380	36,780	42,180	47,580	52,980	5,400

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**Table 13.28-- POVERTY INCOME GUIDELINES FOR HAWAII,
THE UNITED STATES AND ALASKA: 2009 TO 2018 -- Con.**

1/ Forty-eight contiguous states and the District of Columbia.

Source: U.S. Department of Health and Human Services, "Annual Update of the HHS Poverty Guidelines," *Federal Register*, for 2009 <<http://aspe.hhs.gov/poverty/09fedreg.pdf>> accessed January 26, 2009; for 2010 <<http://aspe.hhs.gov/poverty/10poverty.shtml>> accessed August 3, 2010; for 2011 <<http://aspe.hhs.gov/poverty/11poverty.shtml>> accessed March 16, 2011; for 2012 <<http://aspe.hhs.gov/poverty/12poverty.shtml>> accessed March 27, 2012; for 2013 <<http://aspe.hhs.gov/poverty/13poverty.cfm>> accessed May 15, 2013; for 2014 <<http://aspe.hhs.gov/poverty/14poverty.cfm>> accessed February 21, 2014; for 2015 <<http://aspe.hhs.gov/poverty/15poverty.cfm>> accessed February 21, 2015; for 2016 <<https://federalregister.gov/a/2016-01450>> accessed February 1, 2016; for 2017 <<https://federalregister.gov/a/2017-02076>> accessed February 1, 2017; and for 2018 <<https://www.gpo.gov/fdsys/pkg/FR-2018-01-18/pdf/2018-00814.pdf>> accessed March 7, 2018.

Table 13.29-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR HONOLULU: 2000-2001 TO 2004-2005

[Annual averages for two-year periods. The Consumer Expenditure Survey (CES) for 2005-2006 was released by BLS on October 26, 2007; 2006-2007 on November 25, 2008; 2007-2008 on October 6, 2009; 2008-2009 on October 5, 2010; 2009-2010 on September 27, 2011; 2010-2011 on September 25, 2012; 2011-2012 on September 10, 2013; 2012-2013 on September 9, 2014; 2013-2014 on September 3, 2015; and 2014-2015 on August 30, 2016 with Honolulu excluded. An updated CES for Honolulu had been restored for 2015-2016 and released on August 29, 2017. See table later in this section for details]

Item	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
Average annual expenditures	43,024	43,458	44,505	48,339	54,937
Food	6,722	6,418	5,819	6,666	8,089
Food at home	3,935	3,879	3,269	3,592	4,231
Cereals and bakery products	582	542	462	499	556
Meats, poultry, fish, and eggs	1,152	1,182	866	860	1,090
Dairy products	345	336	287	317	335
Fruits and vegetables	765	750	630	693	831
Other food at home	1,091	1,069	1,024	1,223	1,419
Food away from home	2,788	2,539	2,549	3,075	3,858
Alcoholic beverages	554	489	357	367	463
Housing	13,903	14,207	15,156	15,874	17,400
Shelter	9,460	9,470	10,067	10,324	10,887
Owned dwellings	4,966	4,810	5,367	5,629	6,516
Rented dwellings	3,986	4,030	3,971	4,160	3,960
Other lodging	509	630	728	535	411
Utilities, fuels, & public services	2,182	2,200	2,492	2,606	2,813
Household operations	647	569	707	770	692
Housekeeping supplies	539	567	480	593	817
Household furn. & equipment	1,075	1,402	1,410	1,582	2,191
Apparel and services	1,761	1,597	1,467	1,467	2,157
Transportation	6,523	7,230	8,023	8,778	9,921
Vehicle purchases (net outlay)	2,329	3,040	3,724	4,356	4,768
Gasoline and motor oil	1,176	1,124	1,142	1,277	1,658
Other vehicle expenses	2,103	2,194	2,208	2,218	2,427
Public transportation	915	873	948	927	1,069
Health care	2,252	2,365	2,617	2,668	2,600
Entertainment	2,066	2,249	2,276	2,941	3,126
Personal care products & services	691	594	542	649	772
Reading	163	161	170	149	128
Education	864	1,088	1,040	1,020	1,320
Tobacco prod. & smoking supplies	247	297	300	270	241
Miscellaneous	763	759	831	825	861
Cash contributions	1,672	1,278	1,226	1,218	1,112
Personal insurance and pensions	4,844	4,727	4,684	5,447	6,746
Life & other personal insurance	636	641	607	554	520
Pensions and Social Security	4,208	4,086	4,076	4,893	6,226

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Table 13.29-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR HONOLULU: 2000-2001 TO 2004-2005 -- Con.

Item	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005
Number of consumer units	279,000	276,000	275,000	273,000	278,000
Consumer unit characteristics					
Income before taxes 1/	54,819	56,000	59,114	64,082	70,104
Age of reference person	52.9	53.9	53.7	52.1	51.8
Average number in consumer unit					
Persons	2.8	2.8	2.8	2.7	2.8
Children under 18	0.7	0.7	0.6	0.5	0.6
Persons 65 and over	0.4	0.5	0.5	0.4	0.4
Earners	1.5	1.4	1.4	1.5	1.5
Vehicles	1.6	1.6	1.6	1.7	1.8
Percent homeowner	52	53	57	57	61

1/ Components of income and taxes are derived from "complete income reporters" only through 2003. Beginning in 2004, income imputation was implemented. As a result, all consumer units are considered to be complete income reporters.

Source: U.S. Bureau of Labor Statistics, Selected Western Metropolitan Statistical Areas: Average Annual Expenditures and Characteristics, Consumer Expenditure Survey (annual)
 <<http://www.bls.gov/cex/csxmsa.htm>> accessed December 27, 2006.

Table 13.30-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR SELECTED WESTERN METROPOLITAN STATISTICAL AREAS: 2004-2005

[Annual averages for two-year periods. Number in units, unless otherwise specified. Expenditures in dollars. The Consumer Expenditure Survey for 2005- 2006 was released by BLS on October 26, 2007; 2006- 2007 on November 25, 2008; 2007- 2008 on October 6, 2009; 2008- 2009 on October 5, 2010; 2009- 2010 on September 27, 2011; 2010- 2011 on September 25, 2012; 2011-2012 on September 10, 2013; 2012-2013 on September 9, 2014; 2013-2014 on September 3, 2015; and 2014-2015 on August 30, 2016 with Honolulu excluded. An updated CES for Honolulu had been restored for 2015-2016 and released on August 29, 2017. See table later in this section for details]

Item	All consumer units in the West	Hono-lulu	Los Angeles	San Fran-cisco	San Diego	Port-land	Seattle	Anchor-age	Phoenix	Denver
Average annual expenditures	50,305	54,937	55,760	60,992	59,805	50,313	54,027	59,427	49,009	49,996
Food	6,280	8,089	7,062	7,581	6,437	6,377	6,904	6,412	6,434	6,251
Food at home	3,580	4,231	3,876	3,909	3,462	3,557	3,908	3,713	3,599	3,789
Cereals and bakery products	467	556	492	519	458	453	475	457	470	511
Meats, poultry, fish, and eggs	843	1,090	976	888	761	783	840	846	859	886
Dairy products	406	335	411	445	404	432	457	437	415	428
Fruits and vegetables	635	831	749	772	606	650	666	605	632	619
Other food at home	1,228	1,419	1,248	1,285	1,233	1,239	1,469	1,369	1,222	1,344
Food away from home	2,701	3,858	3,185	3,672	2,976	2,820	2,996	2,698	2,835	2,462
Alcoholic beverages	517	463	485	628	613	526	781	636	585	635
Housing	16,828	17,400	19,911	22,885	21,484	16,039	17,483	18,764	14,719	15,772
Shelter	10,480	10,887	13,030	15,947	14,511	9,862	10,741	11,391	8,414	10,078
Owned dwellings	6,670	6,516	8,122	10,068	9,118	6,650	7,144	7,814	5,911	6,613
Rented dwellings	3,231	3,960	4,383	4,928	4,627	2,535	2,737	2,850	2,100	2,936
Other lodging	579	411	524	951	767	677	860	727	402	530
Utilities, fuels, and public services	2,795	2,813	2,908	2,711	2,767	2,878	2,769	3,228	3,057	3,013
Household operations	904	692	1,224	1,384	1,561	933	725	985	984	722
Housekeeping supplies	618	817	632	634	646	553	706	771	605	548
Household furn. & equipment	2,030	2,191	2,119	2,210	1,999	1,813	2,541	2,388	1,659	1,411
Apparel and services	1,954	2,157	2,386	2,382	1,935	1,822	1,833	1,820	1,876	1,755
Transportation	9,498	9,921	10,972	9,518	11,301	8,845	9,491	12,596	10,549	8,646
Vehicle purchases (net outlay)	4,268	4,768	4,996	3,347	5,681	3,964	3,897	6,082	5,490	3,529
Gasoline and motor oil	1,966	1,658	2,312	1,922	2,094	1,742	1,914	2,157	1,769	1,755
Other vehicle expenses	2,658	2,427	3,029	3,296	2,587	2,542	2,813	3,239	2,911	2,573
Public transportation	606	1,069	635	953	939	596	867	1,119	380	789

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Table 13.30-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR SELECTED WESTERN METROPOLITAN STATISTICAL AREAS: 2004-2005 -- Con.

Item	All consumer units in the West	Hono-lulu	Los Angeles	San Francisco	San Diego	Portland	Seattle	Anchorage	Phoenix	Denver
Health care	2,602	2,600	2,275	2,773	3,038	2,693	2,910	3,397	2,890	2,724
Entertainment	2,636	3,126	2,719	2,938	2,653	3,057	3,002	3,420	2,355	3,227
Personal care products and services	621	772	798	664	805	578	625	615	666	636
Reading	153	128	158	212	192	188	214	218	132	144
Education	1,039	1,320	960	1,107	1,245	1,200	1,217	842	739	1,573
Tobacco prod. & smoking supplies	239	241	179	143	136	344	236	440	373	308
Miscellaneous	910	861	848	1,014	940	1,303	1,004	1,227	786	1,010
Cash contributions	1,576	1,112	1,272	1,607	2,520	1,775	2,070	1,853	1,662	1,624
Personal insurance and pensions	5,451	6,746	5,736	7,538	6,507	5,565	6,256	7,187	5,243	5,689
Life and other personal insurance	343	520	298	336	423	367	346	581	400	240
Pensions and Social Security	5,108	6,226	5,438	7,202	6,084	5,198	5,910	6,606	4,843	5,449
Number of consumer units (in 1,000's)	25,872	278	5,112	2,724	892	1,052	1,801	119	1,423	1,270
Consumer unit characteristics										
Income before taxes 1/	60,730	70,104	65,810	86,935	69,067	56,702	63,888	71,031	60,726	65,224
Age of reference person	47.0	51.8	46.9	47.0	50.1	47.9	47.8	45.8	45.7	45.6
Average number in consumer unit										
Persons	2.6	2.8	2.9	2.6	2.6	2.5	2.3	2.5	2.6	2.4
Children under 18	0.7	0.6	0.8	0.6	0.6	0.6	0.5	0.7	0.8	0.6
Persons 65 and over	0.3	0.4	0.3	0.3	0.4	0.3	0.2	0.2	0.3	0.3
Earners	1.4	1.5	1.5	1.4	1.4	1.4	1.5	1.5	1.3	1.4
Vehicles	2.1	1.8	1.9	1.8	1.9	2.2	2.4	2.5	1.8	1.9
Percent homeowner	62	61	58	56	63	63	66	71	70	64

1/ Components of income and taxes are derived from "complete income reporters" only through 2003. Beginning in 2004, income imputation was implemented. As a result, all consumer units are considered to be complete income reporters.

Source: U.S. Bureau of Labor Statistics, Selected Western Metropolitan Statistical Areas: Average Annual Expenditures and Characteristics, Consumer Expenditure Survey 2004-2005 <<http://www.bls.gov/cex/2005/msas/west.pdf>> accessed December 27, 2006.

Table 13.31-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR SELECTED WESTERN METROPOLITAN STATISTICAL AREAS: 2015-2016

[Averages over two-year period. Number in units, unless otherwise specified. Expenditures in dollars. See also "Consumer Expenditures for the Honolulu Metropolitan Area: 2015-16" <https://www.bls.gov/regions/west/news-release/2017/consumerexpenditures_honolulu_20171205.htm>]

Item	All consumer units in the West 1/	Honolulu	Los Angeles	San Francisco	San Diego	Seattle	Phoenix	Denver	Anchorage
Average annual expenditures	63,045	66,798	64,321	75,380	77,299	74,723	59,873	69,742	73,305
Food	7,978	10,303	7,984	8,644	8,834	10,178	7,269	7,868	8,617
Food at home	4,447	5,419	4,225	4,033	4,761	5,938	4,295	4,262	4,973
Cereals and bakery products	556	599	515	497	529	623	557	570	542
Meats, poultry, fish, and eggs	940	1,299	1,022	912	1,002	1,118	951	824	1,036
Dairy products	458	438	415	406	486	525	406	413	470
Fruits and vegetables	890	1,099	919	925	877	1,223	764	885	1,121
Other food at home	1,603	1,985	1,353	1,293	1,867	2,449	1,617	1,569	1,804
Food away from home	3,531	4,885	3,760	4,611	4,074	4,240	2,974	3,606	3,644
Alcoholic beverages	602	518	512	1,135	848	713	616	637	712
Housing	21,334	24,241	23,265	30,355	27,103	24,993	19,262	22,949	23,239
Shelter	13,321	16,359	15,580	21,626	17,537	15,762	11,138	14,638	14,213
Owned dwellings	6,893	6,714	7,217	10,857	9,781	8,732	6,180	8,277	7,559
Rented dwellings	5,622	8,833	7,701	9,559	6,799	6,028	4,045	5,086	5,588
Other lodging	805	811	662	1,210	956	1,001	913	1,276	1,066
Utilities, fuels, and public services	3,714	4,047	3,672	3,688	3,783	3,722	4,076	3,833	4,542
Household operations	1,523	1,240	1,643	2,775	1,919	1,826	1,607	1,627	1,637
Housekeeping supplies	663	715	599	445	727	760	571	610	599
Household furnishings and equip.	2,113	1,880	1,771	1,821	3,136	2,923	1,868	2,241	2,248
Apparel and services	2,161	1,726	2,858	2,108	2,501	3,176	1,805	1,994	1,511
Transportation	9,747	9,486	10,038	8,957	10,552	9,997	9,017	11,483	13,978
Vehicle purchases (net outlay)	3,574	3,727	3,388	2,333	3,131	3,693	3,181	5,072	6,695
Gasoline and motor oil	2,205	1,924	2,607	1,961	2,652	1,917	2,026	1,905	2,504
Other vehicle expenses	3,113	2,414	3,370	2,824	3,745	3,144	2,839	3,202	2,954
Public and other transportation	855	1,421	672	1,838	1,025	1,244	972	1,304	1,824

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Table 13.31-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR SELECTED WESTERN METROPOLITAN STATISTICAL AREAS: 2015-2016 -- Con.

Item	All consumer units in the West 1/	Honolulu	Los Angeles	San Francisco	San Diego	Seattle	Phoenix	Denver	Anchorage
Healthcare	4,523	3,576	3,832	4,857	4,820	4,877	4,643	5,668	4,325
Entertainment	3,260	2,997	2,664	3,136	4,475	3,981	3,090	3,760	4,313
Personal care products and services	811	746	823	842	1,137	878	775	969	791
Reading	156	138	124	198	213	190	150	162	151
Education	1,376	1,909	1,559	1,833	2,732	2,016	1,473	1,034	1,611
Tobacco products & smoking supplies	242	146	151	85	157	245	284	350	422
Miscellaneous	1,179	623	1,440	738	1,785	1,746	646	1,316	1,406
Cash contributions	2,173	3,338	1,381	2,497	2,104	2,753	1,597	3,530	2,020
Personal insurance and pensions	7,504	7,052	7,689	9,996	10,037	8,979	9,246	8,022	10,208
Life and other personal insurance	323	298	251	329	1,355	321	195	279	369
Pensions and Social Security	7,181	6,754	7,438	9,667	8,682	8,658	9,051	7,743	9,839
Number of consumer units (1,000's)	28,326	499	6,321	1,635	1,237	1,596	1,622	1,416	210
Consumer unit characteristics									
Income before taxes	82,775	89,019	76,721	118,098	93,466	104,475	79,380	105,447	104,465
Age of reference person	49.4	52.4	49.4	49.0	48.7	48.9	48.0	47.4	46.3
Average number in consumer unit									
People	2.7	2.8	2.8	2.4	2.5	2.3	2.5	2.5	2.7
Children under 18	0.7	0.6	0.7	0.5	0.6	0.5	0.7	0.6	0.7
Adults 65 and older	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Earners	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.4	1.5
Vehicles	2.0	1.7	1.7	1.8	2.1	2.0	1.8	2.0	2.6
Percent homeowner	57.0	52.0	49.0	51.0	57.0	60.0	61.0	65.0	60.0

1/ A consumer unit includes families, single persons living alone or sharing a household with others but who are financially independent, or two or more persons living together who share expenses.

Source: U.S. Bureau of Labor Statistics, Selected Western Metropolitan Statistical Areas: Average Annual Expenditures and Characteristics, (August 29, 2017) <<https://www.bls.gov/cex/tables.htm>> accessed August 29, 2017.

**Table 13.32-- AVERAGE ANNUAL CONSUMER EXPENDITURES
FOR HONOLULU: 2013-2014**

[In dollars and percent]

Category	Expenditures	Share
Average annual expenditures	62,489	100.0
Food	9,171	14.7
Food at home	5,587	8.9
Cereals and bakery products	547	0.9
Meats, poultry, fish, and eggs	1,676	2.7
Dairy products	567	0.9
Fruits and vegetables	1,095	1.8
Other food at home	1,702	2.7
Food away from home	3,584	5.7
Alcoholic beverages	697	1.1
Housing	26,980	43.2
Shelter	18,574	29.7
Owned dwellings	10,983	17.6
Rented dwellings	6,108	9.8
Investment and commercial properties	851	1.4
Lodging during trips	632	1.0
Utilities, fuels, and public services	4,552	7.3
Household operations	833	1.3
Housekeeping supplies	1,049	1.7
Household furnishings and equipment	1,972	3.2
Apparel and services	1,206	1.9
Transportation	8,714	13.9
Vehicle purchases (net outlay)	2,223	3.6
Gasoline and motor oil	1,803	2.9
Other vehicle expenses	2,881	4.6
Public and other transportation	1,808	2.9
Health care	3,610	5.8
Entertainment	1,567	2.5
Personal care products and services	602	1.0
Reading	102	0.2
Education	2,508	4.0
Tobacco products and smoking supplies	123	0.2
Miscellaneous	1,022	1.6
Cash contributions	1,068	1.7
Personal insurance and retirement savings	5,118	8.2
Life and other personal insurance	697	1.1
Retirement savings and social security	4,421	7.1
Addendum: on-line shopping	720	1.2

Source: Hawaii Department of Business, Economic Development & Tourism, Research & Economic Analysis Division, *Honolulu Consumer Spending: 2013-2014*, "Table 1. Average annual expenditures: Honolulu, 2013-2014" (April 2016)
<http://files.hawaii.gov/dbedt/economic/reports/CE_Oahu_Survey_Final.pdf> accessed June 16, 2016.

**Table 13.33-- AVERAGE ANNUAL CONSUMER EXPENDITURES
FOR MAUI COUNTY: 2014**

[In dollars and percent]

Category	Expenditures	Share
Average annual expenditures	65,197	100.0
Food	10,196	15.6
Food at home	7,186	11.0
Cereals and bakery products	738	1.1
Meats, poultry, fish, and eggs	2,078	3.2
Dairy products	765	1.2
Fruits and vegetables	1,488	2.3
Other food at home	2,116	3.2
Food away from home	3,011	4.6
Alcoholic beverages	1,024	1.6
Housing	26,277	40.3
Shelter	16,365	25.1
Owned dwellings	10,462	16.0
Rented dwellings	4,695	7.2
Investment and commercial properties	563	0.9
Lodging during trips	645	1.0
Utilities, fuels, and public services	5,444	8.4
Household operations	1,220	1.9
Housekeeping supplies	1,131	1.7
Household furnishings and equipment	2,116	3.2
Apparel and services	1,268	1.9
Transportation	10,226	15.7
Vehicle purchases (net outlay)	3,276	5.0
Gasoline and motor oil	1,887	2.9
Other vehicle expenses	2,919	4.5
Public and other transportation	2,144	3.3
Health care	4,646	7.1
Entertainment	1,738	2.7
Personal care products and services	754	1.2
Reading	114	0.2
Education	1,675	2.6
Tobacco products and smoking supplies	120	0.2
Miscellaneous	1,210	1.9
Cash contributions	1,154	1.8
Personal insurance and retirement savings	4,795	7.4
Life and other personal insurance	589	0.9
Retirement savings and social security	4,205	6.4
Addendum: On-line shopping	1,233	1.9

Source: Hawaii Department of Business, Economic Development & Tourism, Research & Economic Analysis Division, *Maui County Consumer Spending: 2014* (June 2016)
 "Table 1. Average annual household expenditures: Maui County, 2014"
 <http://files.hawaii.gov/dbedt/economic/reports/CE_Maui_Survey_Final.pdf> accessed June 16, 2016.

Table 13.34-- AVERAGE ANNUAL CONSUMER EXPENDITURES FOR HAWAII COUNTY: 2014

[In dollars and percent]

Category	Expenditures	Share
Average annual expenditures	51,700	100.0
Food	7,420	14.4
Food at home	5,298	10.2
Cereals and bakery products	553	1.1
Meats, poultry, fish, and eggs	1,671	3.2
Dairy products	525	1.0
Fruits and vegetables	977	1.9
Other food at home	1,573	3.0
Food away from home	2,122	4.1
Alcoholic beverages	715	1.4
Housing	20,921	40.5
Shelter	13,006	25.2
Owned dwellings	8,941	17.3
Rented dwellings	3,006	5.8
Investment and commercial properties	469	0.9
Lodging during trips	589	1.1
Utilities, fuels, and public services	4,511	8.7
Household operations	613	1.2
Housekeeping supplies	877	1.7
Household furnishings and equipment	1,913	3.7
Apparel and services	873	1.7
Transportation	8,405	16.3
Vehicle purchases (net outlay)	2,173	4.2
Gasoline and motor oil	1,863	3.6
Other vehicle expenses	2,728	5.3
Public and other transportation	1,641	3.2
Health care	3,924	7.6
Entertainment	1,167	2.3
Personal care products and services	701	1.4
Reading	101	0.2
Education	1,603	3.1
Tobacco products and smoking supplies	78	0.2
Miscellaneous	900	1.7
Cash contributions	845	1.6
Personal insurance and retirement savings	4,046	7.8
Life and other personal insurance	492	1.0
Retirement savings and social security	3,554	6.9
Addendum: on-line shopping	943	1.8

Source: Hawaii Department of Business, Economic Development & Tourism, Research & Economic Analysis Division, *Hawaii County Consumer Spending: 2014*, "Table 1. Average annual household expenditures: Hawaii County, 2014" (June 2016)
 <http://files.hawaii.gov/dbedt/economic/reports/CE_Big_Island_Survey_Final.pdf> accessed June 27, 2016.

**Table 13.35-- AVERAGE ANNUAL CONSUMER EXPENDITURES FOR
KAUAI COUNTY: 2014**

[In dollars and percent]

Category	Expenditures	Share
Average annual expenditures	64,651	100.0
Food	9,638	14.9
Food at home	6,373	9.9
Cereals and bakery products	688	1.1
Meats, poultry, fish, and eggs	2,042	3.2
Dairy products	627	1.0
Fruits and vegetables	1,148	1.8
Other food at home	1,868	2.9
Food away from home	3,265	5.0
Alcoholic beverages	934	1.4
Housing	26,819	41.5
Shelter	17,293	26.7
Owned dwellings	11,004	17.0
Rented dwellings	5,094	7.9
Investment and commercial properties	460	0.7
Lodging during trips	734	1.1
Utilities, fuels, and public services	5,233	8.1
Household operations	773	1.2
Housekeeping supplies	1,284	2.0
Household furn. & equipment	2,236	3.5
Apparel and services	1,268	2.0
Transportation	10,836	16.8
Vehicle purchases (net outlay)	2,845	4.4
Gasoline and motor oil	2,553	3.9
Other vehicle expenses	3,061	4.7
Public and other transportation	2,376	3.7
Health care	4,261	6.6
Entertainment	1,398	2.2
Personal care products and services	911	1.4
Reading	99	0.2
Education	992	1.5
Tobacco prod. & smoking supplies	225	0.3
Miscellaneous	1,222	1.9
Cash contributions	1,650	2.6
Personal insurance and retirement savings	4,398	6.8
Life and other personal insurance	471	0.7
Retirement savings and social security	3,928	6.1
Addendum: on-line shopping	1,363	2.1

Source: Hawaii Department of Business, Economic Development & Tourism, Research & Economic Analysis Division, *Kauai County Consumer Spending: 2014*, "Table 1. Average annual household expenditures: Kauai County, 2014" (June 2016)
<http://files.hawaii.gov/dbedt/economic/reports/CE_Kauai_Survey_Final.pdf> accessed June 27, 2016.

**Table 13.36-- AVERAGE ANNUAL CONSUMER EXPENDITURES,
BY COUNTY: 2014**

[As percent of total]

Category	Honolulu	Maui	Hawaii	Kauai
Average annual expenditures	100.0	100.0	100.0	100.0
Food	13.2	15.6	14.4	14.9
Alcoholic beverages	1.0	1.6	1.4	1.4
Housing	44.1	40.3	40.5	41.5
Apparel and services	1.9	1.9	1.7	2.0
Transportation	14.7	15.7	16.3	16.8
Health care	5.7	7.1	7.6	6.6
Entertainment	2.6	2.7	2.3	2.2
Personal care products and services	1.0	1.2	1.4	1.4
Reading	0.2	0.2	0.2	0.2
Education	4.0	2.6	3.1	1.5
Tobacco prod. & smoking supplies	0.2	0.2	0.2	0.3
Miscellaneous	1.7	1.9	1.7	1.9
Cash contributions	1.8	1.8	1.6	2.6
Personal insurance and retirement savings	8.0	7.4	7.8	6.8

Source: Hawaii Department of Business, Economic Development & Tourism, Research & Economic Analysis Division, *Maui County Consumer Spending: 2014* "Table 2. Share of expenditures for Honolulu and Maui County households: 2014" (June 2016) <http://files.hawaii.gov/dbedt/economic/reports/CE_Maui_Survey_Final.pdf> accessed June 16, 2016. Ibid. *Hawaii County Consumer Spending: 2014* "Table 2. Share of expenditures for Honolulu and Hawaii County households: 2014" (June 2016) <http://files.hawaii.gov/dbedt/economic/reports/CE_Big_Island_Survey_Final.pdf> accessed June 27, 2016; Ibid. *Kauai County Consumer Spending: 2014* "Table 2. Share of expenditures for Honolulu and Kauai County households: 2014" (June 2016) <http://files.hawaii.gov/dbedt/economic/reports/CE_Kauai_Survey_Final.pdf> accessed June 27, 2016.

Table 13.37-- PERSONAL CONSUMPTION EXPENDITURES, BY MAJOR TYPE OF PRODUCT: 2009 TO 2016

[In millions of current dollars. 2014 and 2015 revised from previous *Data Book*]

Industry	2009	2010	2011	2012	2013	2014	2015	2016
Personal consumption expenditures (PCE)	47,822	49,604	51,740	54,124	56,076	58,878	61,317	64,460
Goods	15,373	16,056	17,058	17,905	18,540	19,447	19,868	20,623
Durable goods	4,815	4,979	5,309	5,639	5,918	6,195	6,493	6,746
Motor vehicles & parts	1,203	1,230	1,325	1,431	1,532	1,626	1,746	1,776
Furnishings & durable household equipment	1,137	1,155	1,187	1,235	1,275	1,335	1,409	1,474
Recreational goods & vehicles	1,812	1,875	1,934	2,019	2,114	2,197	2,283	2,369
Other durable goods	663	719	863	954	997	1,038	1,056	1,127
Nondurable goods	10,558	11,077	11,750	12,267	12,622	13,252	13,375	13,877
Food & beverages purchased for off-premises consumption	4,430	4,569	4,708	4,823	4,922	5,134	5,217	5,405
Clothing and footwear	948	1,010	1,118	1,206	1,223	1,266	1,271	1,301
Gasoline & other energy goods	867	990	1,150	1,138	1,079	1,039	799	746
Other nondurable goods	4,313	4,507	4,774	5,100	5,397	5,812	6,087	6,424
Services	32,449	33,549	34,681	36,219	37,535	39,431	41,448	43,837
Household consumption expenditures (for services)	30,396	31,522	32,678	34,056	35,364	37,124	39,048	41,193
Housing and utilities	10,502	10,940	11,219	11,531	11,888	12,241	12,555	13,060
Health care	6,954	7,187	7,543	7,884	8,158	8,558	9,169	9,858
Transportation services	1,198	1,222	1,278	1,381	1,468	1,578	1,640	1,774
Recreation services	1,410	1,455	1,537	1,751	1,859	1,937	1,960	1,973
Food services & accom.	2,137	2,236	2,410	2,633	2,764	2,939	3,121	3,299
Financial services & insurance	3,326	3,534	3,630	3,585	3,759	4,042	4,323	4,530
Other services	4,869	4,948	5,062	5,290	5,469	5,829	6,280	6,700
Final consumption expenditures of nonprofit institutions serving households (NPISHs)	2,053	2,027	2,004	2,163	2,171	2,306	2,400	2,644
Gross output of nonprofit institutions	5,640	5,800	5,997	6,411	6,572	6,986	7,388	7,921
Less: Receipts from sales of goods & serv. by nonprof. inst.	3,587	3,774	3,994	4,247	4,400	4,680	4,988	5,277

Source: U.S. Bureau of Economic Analysis, Interactive Tables: Personal Income and Employment, Personal Consumption Expenditures, By State: 1997-2016

<<https://www.bea.gov/itable/iTable.cfm?ReqID=70&step=1#reqid=70&step=1&isuri=1>> accessed October 4, 2017. See also "Personal Consumption Expenditures, By State: 2016" (October 4, 2017) <<https://www.bea.gov/newsreleases/regional/pce/2017/pdf/pce1017.pdf>> accessed October 4, 2017.

**Table 13.38-- PERSONAL CONSUMPTION EXPENDITURES PER CAPITA,
BY MAJOR TYPE OF PRODUCT: 2009 TO 2016**

[In current dollars. Reflect Census Bureau midyear population estimates for years 2010-2016 available as of December 2016. Per capita values are computed from unrounded data. 2009 to 2015 revised from previous *Data Book*]

Industry	2009	2010	2011	2012	2013	2014	2015	2016
Personal consumption expend. (PCE) per cap.	35,510	36,367	37,552	38,888	39,870	41,570	43,025	45,123
Goods	11,415	11,771	12,381	12,865	13,181	13,731	13,941	14,436
Durable goods	3,575	3,650	3,853	4,052	4,208	4,374	4,556	4,722
Motor vehicles & parts	893	902	962	1,028	1,089	1,148	1,225	1,243
Furnishings & durable household equipment	844	847	861	887	907	943	989	1,032
Rec. goods & vehicles	1,345	1,375	1,404	1,451	1,503	1,551	1,602	1,658
Other durable goods	493	527	626	685	709	733	741	789
Nondurable goods	7,840	8,121	8,528	8,814	8,973	9,356	9,385	9,714
Food & bev. purchased for off-premises consumption	3,290	3,350	3,417	3,465	3,500	3,625	3,661	3,784
Clothing and footwear	704	740	811	866	870	894	892	911
Gasoline & other energy goods	644	726	835	818	767	734	561	522
Other nondurable goods	3,203	3,304	3,465	3,664	3,837	4,104	4,271	4,497
Services	24,095	24,596	25,171	26,023	26,689	27,840	29,083	30,686
Household consumption expenditures (for services)	22,570	23,111	23,717	24,468	25,144	26,211	27,399	28,836
Housing and utilities	7,798	8,021	8,142	8,285	8,452	8,642	8,810	9,142
Health care	5,164	5,269	5,474	5,665	5,800	6,042	6,433	6,901
Transportation services	889	896	928	992	1,044	1,114	1,151	1,242
Recreation services	1,047	1,067	1,115	1,258	1,322	1,368	1,375	1,381
Food services & accom.	1,587	1,639	1,749	1,892	1,965	2,075	2,190	2,309
Financial services & insur.	2,470	2,591	2,635	2,576	2,673	2,854	3,034	3,171
Other services	3,615	3,628	3,674	3,801	3,888	4,116	4,406	4,690
Final cons. expend. of of nonprofit inst. serving households (NPISHs)	1,524	1,485	1,454	1,555	1,544	1,628	1,684	1,851
Gross output of nonprofit institutions	4,188	4,252	4,352	4,606	4,673	4,933	5,184	5,545
Less: Receipts from sales of goods & serv. by nonprof. inst.	2,663	2,767	2,899	3,051	3,128	3,304	3,500	3,694

Source: U.S. Bureau of Economic Analysis, Interactive Tables, Personal Consumption Expenditures, By State: 1997-2016 <<http://www.bea.gov/itable/iTable.cfm?ReqID=70&step=1#reqid=70&step=1&isuri=1>> accessed October 4, 2017. See also <https://www.bea.gov/newsreleases/regional/pce/pce_newsrelease.htm>.

**Table 13.39-- PERSONAL CONSUMPTION EXPENDITURES PER CAPITA
FOR THE UNITED STATES AVERAGE, THE 50 STATES AND THE
DISTRICT OF COLUMBIA: 2009 TO 2016**

[In current dollars. 2010-2015 revised from previous *Data Book*]

State	2009	2010	2011	2012	2013	2014	2015	2016
U.S. average	32,077	32,962	34,275	35,172	35,912	37,224	38,417	39,664
Hawaii	35,510	36,367	37,552	38,888	39,870	41,570	43,025	45,123
Hawaii as % of U.S.	110.7	110.3	109.6	110.6	111.0	111.7	112.0	113.8
Alabama	26,297	27,094	28,063	28,566	29,161	29,872	30,577	31,336
Alaska	40,525	41,540	43,499	44,420	45,507	47,262	48,700	49,547
Arizona	29,628	30,269	31,279	31,777	32,394	33,295	33,922	34,580
Arkansas	25,761	26,330	27,434	28,077	28,640	29,365	30,051	31,117
California	33,193	34,068	35,384	36,490	37,069	38,548	40,136	41,827
Colorado	34,308	34,820	36,262	37,104	37,770	39,643	41,153	42,648
Connecticut	40,269	41,136	42,362	43,203	44,077	45,896	47,027	48,497
Delaware	35,859	36,798	38,127	38,684	39,599	40,719	41,882	42,868
Dist. of Col.	47,339	48,476	50,140	50,993	51,502	53,396	55,250	56,843
Florida	31,105	31,952	33,159	33,848	34,632	36,073	37,597	38,644
Georgia	28,099	28,809	30,052	30,708	31,530	32,687	33,572	34,657
Hawaii	35,510	36,367	37,552	38,888	39,870	41,570	43,025	45,123
Idaho	27,316	27,997	28,946	29,462	30,442	31,470	32,610	33,653
Illinois	33,338	34,245	35,577	36,529	37,223	38,684	40,168	41,772
Indiana	29,217	30,052	31,191	32,114	32,611	33,601	34,499	35,633
Iowa	30,477	31,241	32,713	33,496	34,122	35,243	36,054	37,005
Kansas	29,666	30,105	31,429	32,275	32,926	34,101	35,004	35,984
Kentucky	27,518	28,279	29,341	30,099	30,485	31,161	32,172	33,288
Louisiana	28,115	28,834	30,000	30,754	31,593	32,568	33,418	34,181
Maine	35,734	36,847	38,040	38,783	39,506	40,753	41,755	43,021
Maryland	36,928	37,890	38,981	39,947	40,617	41,890	43,235	44,748
Massachusetts	41,653	42,978	44,296	45,437	46,314	48,053	49,991	51,981
Michigan	31,126	32,050	33,516	34,333	35,137	36,502	37,853	39,332
Minnesota	35,171	36,061	37,572	38,654	39,530	40,844	42,290	43,930
Mississippi	25,018	25,871	26,932	27,559	28,118	28,728	29,406	30,200
Missouri	31,062	31,710	33,030	34,080	34,697	35,457	36,568	37,526
Montana	32,294	33,351	34,721	35,952	37,062	38,503	39,977	41,204
Nebraska	31,402	32,374	33,835	34,779	35,559	36,757	37,728	38,970
Nevada	30,286	30,882	32,053	32,666	33,310	34,287	35,201	36,177
New Hampshire	39,956	40,851	42,464	43,322	44,493	46,018	47,322	48,810
New Jersey	40,351	41,314	42,547	43,557	44,486	45,970	47,422	48,972

Continued on next page.

**Table 13.39-- PERSONAL CONSUMPTION EXPENDITURES PER CAPITA
FOR THE UNITED STATES AVERAGE, THE 50 STATES AND THE
DISTRICT OF COLUMBIA: 2009 TO 2016 -- Con.**

State	2009	2010	2011	2012	2013	2014	2015	2016
New Mexico	29,216	29,843	31,030	31,912	32,558	33,838	34,717	35,699
New York	36,730	38,056	39,610	40,661	41,713	43,735	45,104	46,906
North Carolina	27,182	28,086	28,970	29,849	30,619	31,814	32,740	33,779
North Dakota	34,366	36,729	40,125	43,825	45,583	48,156	48,186	48,225
Ohio	30,322	31,251	32,611	33,651	34,379	35,450	36,483	37,449
Oklahoma	26,885	27,749	29,253	30,242	30,851	32,038	32,513	32,978
Oregon	31,609	32,383	33,700	34,440	35,429	37,095	38,621	39,742
Pennsylvania	33,440	34,469	35,865	36,679	37,394	38,478	39,626	40,886
Rhode Island	35,095	35,992	36,912	37,533	38,340	39,836	41,130	42,454
South Carolina	27,577	28,719	29,596	30,098	30,586	31,516	32,260	33,266
South Dakota	31,923	33,145	34,630	35,576	36,357	37,462	38,408	39,475
Tennessee	27,673	28,789	30,113	30,700	31,214	32,163	33,210	34,219
Texas	29,132	29,927	31,553	32,603	33,427	34,820	35,699	36,537
Utah	28,170	28,456	29,383	30,345	31,252	32,401	33,729	35,114
Vermont	37,950	39,239	40,777	41,949	43,392	44,960	46,228	47,648
Virginia	34,620	35,565	36,873	37,746	38,291	39,278	40,392	41,632
Washington	34,722	35,447	36,762	37,828	38,735	40,232	41,637	42,922
West Virginia	27,669	28,737	30,067	30,886	31,584	32,389	33,410	34,418
Wisconsin	32,056	32,760	34,022	34,592	35,383	36,559	37,610	38,788
Wyoming	33,637	34,623	36,590	37,178	37,722	39,253	39,692	40,327

Source: U.S. Bureau of Economic Analysis, Interactive Tables: Personal Income and Employment, Personal Consumption Expenditures, By State: 1997-2016 <<http://www.bea.gov/regional/index.htm#data>> accessed October 4, 2017. See also "Personal Consumption Expenditures, By State: 2016" (October 4, 2017) <<https://www.bea.gov/newsreleases/regional/pce/2017/pdf/pce1017.pdf>> accessed October 4, 2017.

Table 13.40-- TOP WEALTHHOLDERS: 1962 TO 2013

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts.
All figures are estimates based on estate tax return samples]

Group and year	Number of top wealthholders	Millions of dollars		
		Total assets	Debts and mortgages	Net worth
Gross estate over \$60,000				
1962	11,323	1,908	231	1,677
1969	36,470	6,327	1,090	5,236
1972	53,700	7,866	1,369	6,497
Gross estate over \$120,000				
1976	39,000	7,436	1,546	5,890
Gross estate over \$325,000				
1982	20,300	14,767	3,523	11,244
Gross estate over \$500,000				
1982	8,700	10,864	2,919	7,946
1986	11,000	11,330	1,475	9,855
Gross estate over \$600,000				
1989	22,300	28,393	2,447	25,947
1992	32,280	39,198	3,543	35,655
1995	24,000	25,944	2,745	23,199
Gross estate over \$625,000				
1998	25,000	30,986	4,133	26,853
Gross estate over \$1 million				
1998 1/	7,000	21,163	1,745	19,418
2001 2/	13,000	33,729	4,342	29,387
Gross estate over \$1.5 million				
2004 2/	7,000	24,375	1,823	22,552
Gross estate over \$2.0 million				
2007 2/	7,000	78,954	3,353	75,601
Gross estate over \$5.0 million				
2013	826	13,379	313	13,066

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Table 13.40-- TOP WEALTHHOLDERS: 1962 TO 2013 -- Con.

1/ Number of wealthholders of debts and mortgages is 5,000.

2/ For 2001, 'Total assets', in \$1,000, were 'Financial assets' of \$16,124, 'All real estate' of \$15,928, and 'All other assets' of \$1,677; in 2004, \$11,903, \$10,647, and \$1,825; in 2007, \$59,625, \$14,136, and \$5,193; and in 2013, \$13,379, \$3,823, and \$3,715 respectively.

Source: U.S. Internal Revenue Service, *Statistics of Income -1962, Personal Wealth* (1967), pp. 55-56; *Statistics of Income -1969, Personal Wealth* (1973), pp. 57-58; *Statistics of Income- 1972, Personal Wealth Estimated from Estate Tax Returns* (1976), table 33; and *Statistics of Income Bulletin, Summer 1983*, pp. 1-26, *Spring 1988*, pp. 31-46; *Spring 1990*, pp. 63-78; *Spring 1993*, pp. 105-121; *Winter 1997-98*, and *Winter 1999-2000*, Table 6. Also, <http://www.irs.ustreas.gov/prod/tax_stats/soi/soi_bul.html> and for 1995 <http://www.irs.treas.gov/prod/tax_stats/soi/est_pw.html/95PWART.EXE> accessed July 26, 2002; and *Winter 2002-2003 Issue, Personal Wealth 1998*, table 6 <<http://www.irs.ustreas.gov/pub/irs-soi/98pwart.pdf>> accessed September 28, 2003 and IRS Tax Stats "Top Wealthholders with Net Worth of \$1 Million or more by State of Residence: 1998", table 7, and Ibid. 2001, table 6 <<http://www.irs.gov/taxstats/article/0,,id=225455,00.htm>> accessed September 18, 2006; "Top Wealthholders with Net Worth of \$1.5 Million or more by State of Residence: 2004", table 6 <<http://www.irs.gov/taxstats/article/0,,id=225455,00.html>> accessed August 25, 2008; Ibid. "Table 6 - Personal Wealth 2007: Top Wealth Holders with Net Worth of \$2.0 Million or More, Net Worth and Selected Assets, by State of Residence" <<https://www.irs.gov/uac/soi-tax-stats-personal-wealth-statistics>> accessed March 5, 2012; Ibid. 2013 <<https://www.irs.gov/uac/soi-tax-stats-personal-wealth-statistics>> accessed January 18, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 13.41--TOP WEALTHHOLDERS WITH NET WORTH OF \$1.5 MILLION OR MORE, NET WORTH AND SELECTED ASSETS, U.S. AND HAWAII: 2004, 2007, AND 2013

[Data are estimates based on samples. Numbers are in thousands and amounts in millions of dollars]

Category	Hawaii	United States	Hawaii as percent of U.S.
2004: Wealthholders above \$1.5 million			
Net worth: Number (1,000's)	7	2,196	0.3
Amount	22,552	9,721,133	0.2
Total assets: Amount	24,375	10,340,723	0.2
Financial assets: Number (1,000's)	6	2,194	0.4
Amount	11,903	6,622,433	0.2
All other assets: Number (1,000's)	5	2,042	0.3
Amount	1,825	1,441,099	0.1
All real estate: Number (1,000's)	7	1,974	0.4
Amount	10,647	2,277,191	0.7
2007: Wealthholders above \$2.0 million			
Net worth: Number (1,000's)	7	1,841	0.4
Amount	75,601	11,627,389	0.7
Total assets: Amount	78,954	12,361,069	0.6
Financial assets: Number (1,000's)	6	1,838	0.3
Amount	59,625	7,717,780	0.8
All other assets: Number (1,000's)	6	1,717	0.3
Amount	5,193	2,125,608	0.2
All real estate: Number (1,000's)	7	1,654	0.4
Amount	14,136	2,517,681	0.6
2013: Wealthholders above \$5.0 million			
Net worth: Number	826	481,239	0.2
Amount	13,066	6,542,469	0.2
Total assets: Amount	13,379	6,852,453	0.2
Financial assets: Number	826	475,622	0.2
Amount	5,841	4,289,063	0.1
All other assets: Number	799	450,420	0.2
Amount	3,715	1,592,888	0.2
All real estate: Number	806	433,858	0.2
Amount	3,823	970,502	0.4

Source: U. S. Department of Treasury, Internal Revenue Service, IRS Tax Stats "Top Wealthholders with Net Worth of \$1.5 Million or more by State of Residence: 2004", table 6 <<http://www.irs.gov/taxstats/article/0,,id=185880,00.html>> accessed August 25, 2008; Ibid. "Table 6 - Personal Wealth 2007: Top Wealth Holders with Net Worth of \$2.0 Million or More, Net Worth and Selected Assets, by State of Residence" <<https://www.irs.gov/uac/soi-tax-stats-personal-wealth-statistics>> accessed March 5, 2012; "Table 6. Personal Wealth 2013: Top Wealth Holders with Net Worth of \$5 Million or More, Net Worth and Selected Assets, by State of Residence" <<https://www.irs.gov/uac/soi-tax-stats-personal-wealth-statistics>> accessed January 18, 2018; and calculations by Hawaii State Department of Business, Economic Development

Table 13.42-- NET WORTH OF RICHEST RESIDENTS: 2006 TO 2017

[There were no Hawaii residents on the Forbes 400 list in 2007]

Name	Residence	Age (yrs)	Net worth (million dollars)	Rank	Primary sources
2006 Anthony, Barbara Cox 1/	Honolulu	83	12,600	17	Inheritance (Cox Enterprises, newspapers, cable TV)
2008 Omidyar, Pierre	Honolulu	41	6,300	54	Self made, launched Ebay on-line auction 1995, technology
2009 Omidyar, Pierre	Honolulu	42	5,500	40	Self made, launched Ebay on-line auction 1995, technology
2010 Omidyar, Pierre	Honolulu	43	5,500	47	Self made, launched Ebay on-line auction 1995, technology
2011 Omidyar, Pierre	Honolulu	44	6,200	50	Self made, launched Ebay on-line auction 1995, technology
2012 Omidyar, Pierre	Honolulu	45	8,200	42	Self made, launched Ebay on-line auction 1995, technology
2013 Omidyar, Pierre	Honolulu	46	8,500	47	Self made, launched Ebay on-line auction 1995, technology
2014 Omidyar, Pierre	Honolulu	47	8,200	59	Self made, launched Ebay on-line auction 1995, technology
2015 Omidyar, Pierre	Honolulu	48	8,400	57	Self made, launched Ebay on-line auction 1995, technology
2016 Omidyar, Pierre	Honolulu	49	8,100	54	Self made, launched Ebay on-line auction 1995, technology
2017 Omidyar, Pierre 2/	Honolulu	50	9,600	48	Self made, launched Ebay on-line auction 1995, technology

1/ Sisters Barbara Cox Anthony and Anne Cox Chambers, of Atlanta, share a fortune. It was worth more than \$19 billion in 1999, \$20 billion in 2000, \$23 billion in 2001, \$19 billion in 2002, \$22 billion in 2003, \$22.6 billion in 2004, and \$25 billion in 2005. In 2006, the sisters tied at rank of 17 with net worth of \$12.6 billion each. They have been members of the Forbes 400 since 1982. Note: Mrs. Anthony died on May 28, 2007 at her home in Honolulu. She was 84.

2/ Tied with Jan Koum of Santa Clara, California whose 'Primary source' is listed as 'WhatsApp'.

Source: *Forbes*, "The Forbes 400 Richest Americans, 2006" <<http://www.forbes.com/400richest/>> accessed September 22, 2006; for 2008 accessed September 17, 2008; for 2009 accessed October 19, 2009; for 2010 accessed October 1, 2010; for 2011 accessed September 21, 2011; for 2012 accessed September 19, 2012; for 2013 accessed October 3, 2013; for 2014 accessed March 18, 2015; for 2015 accessed October 28, 2015; for 2016 accessed October 18, 2016; and for 2017 <<http://www.forbes.com/wealth/forbes-400/list>> accessed January 18, 2018.

**Table 13.43-- HOUSEHOLD DEBT PER CAPITA FOR HAWAII AND
THE UNITED STATES AVERAGE: 1999 TO 2017**

[Data subject to sampling variation. See also Hawaii Department of Business, Economic Development & Tourism, *An Analysis of Consumer Debt: How does Hawaii Compare with the Nation?* (May 2017) <http://files.hawaii.gov/dbedt/economic/reports/consumer_debt_final.pdf>]

Year 1/	Total 2/	Auto loan	Credit card	Mortgage	Student loan	Population 3/
Hawaii						
1999	35,400	1,050	2,810	26,870	420	871,060
2000	35,960	1,220	2,920	25,930	410	928,800
2001	34,680	1,410	3,080	24,940	540	972,040
2002	33,780	1,590	3,340	23,950	530	968,460
2003	40,700	1,990	3,330	31,730	730	982,360
2004	47,030	2,150	3,460	35,890	960	995,760
2005	51,810	2,400	3,480	39,870	1,090	1,013,460
2006	58,210	2,720	3,650	46,280	1,360	1,020,960
2007	65,040	2,560	4,030	52,570	1,500	1,020,540
2008	68,610	2,470	4,190	55,030	1,800	1,016,560
2009	68,320	2,200	3,930	55,300	2,020	1,016,220
2010	66,130	2,080	3,650	53,690	2,270	1,022,660
2011	66,540	2,390	3,580	53,110	2,350	1,019,300
2012	65,930	2,510	3,490	52,230	2,690	1,015,540
2013	64,670	2,630	3,290	51,060	2,920	1,057,500
2014	65,590	2,950	3,360	51,070	3,010	1,075,160
2015	67,010	3,330	3,460	51,770	3,150	1,082,720
2016	68,500	3,600	3,650	52,380	3,240	1,095,820
2017	71,170	3,650	3,860	54,680	3,620	1,103,340
U. S. average 4/						
1999	22,860	1,830	2,370	15,870	530	213,710,272
2000	24,990	2,080	2,580	17,360	580	225,141,344
2001	25,830	2,340	2,720	17,670	720	235,396,400
2002	28,410	2,640	2,940	19,590	750	236,999,648
2003	33,430	2,960	2,960	23,740	1,060	238,403,344
2004	37,290	3,040	3,040	26,590	1,440	239,520,304
2005	40,650	3,240	3,060	29,230	1,610	243,048,144
2006	45,410	3,360	3,170	33,400	1,970	244,542,960
2007	50,170	3,360	3,490	37,250	2,250	243,167,856
2008	52,010	3,310	3,670	38,490	2,670	239,615,536
2009	49,820	3,030	3,370	36,810	3,010	239,480,736
2010	47,410	2,950	3,050	35,010	3,370	240,969,936
2011	47,790	3,050	2,950	34,200	3,620	240,874,656
2012	47,020	3,270	2,850	33,230	4,000	240,765,728
2013	45,310	3,420	2,710	31,630	4,250	253,855,344
2014	45,710	3,720	2,730	31,520	4,490	257,980,096
2015	46,000	4,070	2,800	31,330	4,660	261,651,840
2016	46,950	4,340	2,930	31,590	4,920	266,229,200
2017	48,800	4,520	3,100	32,940	5,150	268,000,000

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**Table 13.43-- HOUSEHOLD DEBT PER CAPITA FOR HAWAII AND
THE UNITED STATES AVERAGE: 1999 TO 2017 -- Con.**

- 1/ For the fourth quarter of the year indicated.
- 2/ Includes components not shown separately.
- 3/ Ages 18 years and older and with credit file with Equifax.
- 4/ Data include Puerto Rico but exclude other U.S. Territories like Guam and the U.S. Virgin Islands, as well as certain other areas.

Source: Federal Reserve Bank of New York, "State Level Household Debt Statistics 1999-2016" (May 2017) accessed June 13, 2017; and Ibid. 2003-2017 (February 2018)
<https://www.newyorkfed.org/medialibrary/Interactives/householdcredit/data/xls/area_report_by_year.xlsx>
accessed July 24, 2018.

Table 13.44-- HOUSEHOLD DEBT DELINQUENCY PER CAPITA FOR HAWAII AND THE UNITED STATES AVERAGE: 1999 TO 2017

[Data subject to sampling variation. Percent of category debt balance 90+ days delinquent. Population for per capita calculations are those ages 18 years and older and with credit file with Equifax. See also Hawaii State Department of Business, Economic Development & Tourism, *An Analysis of Consumer Debt: How does Hawaii Compare with the Nation?* (May 2017) <http://files.hawaii.gov/dbedt/economic/reports/consumer_debt_final.pdf>]

Year 1/	Auto loan delinquency	Credit card delinquency	Mortgage delinquency	Student loan delinquency
Hawaii				
1999	1.87	5.87	2.13	5.51
2000	2.34	5.50	1.52	8.27
2001	1.96	6.44	1.17	15.18
2002	1.82	7.83	0.75	8.08
2003	1.90	7.67	0.58	4.64
2004	2.08	7.44	0.42	6.32
2005	1.74	7.23	0.30	6.88
2006	1.53	7.63	0.67	6.78
2007	2.26	7.78	1.38	7.80
2008	2.97	7.87	3.34	7.36
2009	3.93	10.47	7.24	10.67
2010	4.39	11.78	6.67	12.89
2011	3.77	10.29	6.07	7.96
2012	3.69	9.63	5.66	11.17
2013	2.53	8.77	4.47	11.53
2014	2.42	6.34	3.39	11.03
2015	2.64	6.97	2.78	9.59
2016	2.68	6.02	1.57	9.98
2017	3.34	6.20	1.29	10.21
U. S. average 2/				
1999	2.17	6.03	0.93	(NA)
2000	2.17	5.97	0.96	(NA)
2001	2.26	7.30	1.18	(NA)
2002	2.28	8.93	1.21	(NA)
2003	2.21	9.17	1.14	(NA)
2004	2.47	9.02	1.04	(NA)
2005	2.13	8.41	0.94	(NA)
2006	2.56	9.58	1.28	(NA)
2007	3.08	9.30	2.89	(NA)
2008	3.92	9.84	5.40	(NA)
2009	4.83	12.83	8.66	(NA)
2010	5.24	13.31	7.89	(NA)
2011	4.78	11.29	6.85	(NA)
2012	3.97	10.57	5.57	(NA)
2013	3.45	9.61	3.97	(NA)
2014	3.48	7.35	3.03	(NA)
2015	3.32	7.61	2.15	(NA)
2016	3.75	7.23	1.53	(NA)
2017	4.03	7.51	1.17	(NA)

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**Table 13.44-- HOUSEHOLD DEBT DELINQUENCY PER CAPITA FOR
HAWAII AND THE UNITED STATES AVERAGE: 1999 TO 2017 -- Con.**

NA Not available.

1/ For the fourth quarter of the year indicated.

2/ Data include Puerto Rico but exclude other U.S. Territories like Guam and the U.S. Virgin Islands, as well as certain other areas.

Source: Federal Reserve Bank of New York, "State Level Household Debt Statistics 1999-2016" (May 2017) accessed June 13, 2017; and Ibid. 2003-2017 (February 2018)
<https://www.newyorkfed.org/medialibrary/Interactives/householdcredit/data/xls/area_report_by_year.xlsx>
accessed July 24, 2018.

Table 13.45-- HOUSEHOLD DEBT PER CAPITA FOR EACH OF THE 50 STATES, THE DISTRICT OF COLUMBIA, PUERTO RICO, AND THE UNITED STATES AVERAGE: 2017

[Data subject to sampling variation. Population for per capita calculations are those ages 18 years and older and with credit file with Equifax. See also Hawaii State Department of Business, Economic Development & Tourism, *An Analysis of Consumer Debt: How does Hawaii Compare with the Nation?* (May 2017) <http://files.hawaii.gov/dbedt/economic/reports/consumer_debt_final.pdf>]

Year 1/	Rank 2/	Total 3/	Auto loan	Credit card	Mortgage	Student loan
U. S. average 4/	(X)	46,950	4,340	2,930	31,590	4,920
Dist. of Columbia	1	84,380	3,010	3,920	62,080	12,000
Hawaii	2	71,170	3,650	3,860	54,680	3,620
California	3	70,100	4,380	3,420	54,640	4,300
Maryland	4	70,010	5,110	3,780	50,900	6,450
Colorado	5	68,450	4,630	3,530	50,900	5,950
Virginia	6	65,050	4,650	3,760	47,370	5,590
Massachusetts	7	63,070	3,810	3,490	45,760	5,860
Washington	8	62,560	4,200	3,380	47,110	4,280
Connecticut	9	58,860	3,600	3,730	41,790	5,660
Alaska	10	57,850	5,010	4,270	41,580	4,070
New Jersey	11	57,830	3,910	3,910	40,320	5,690
Utah	12	56,920	5,020	2,930	41,830	4,120
New Hampshire	13	54,570	5,220	3,420	35,930	5,990
Delaware	14	53,390	4,750	3,260	36,840	5,050
Minnesota	15	53,260	3,950	3,200	36,950	5,990
Oregon	16	53,020	3,770	2,940	37,930	5,440
Arizona	17	51,300	4,890	3,140	35,680	5,000
Nevada	18	50,320	5,020	3,210	35,730	4,040
New York	19	49,030	3,560	3,710	32,380	5,780
Rhode Island	20	48,850	3,610	3,240	33,080	5,040
Georgia	21	46,730	5,260	3,130	28,620	6,720
Idaho	22	46,270	4,450	2,740	31,070	4,780
Wyoming	23	46,180	5,240	2,960	31,910	3,210
Illinois	24	45,670	4,090	3,130	30,260	5,560
Vermont	25	45,120	4,860	2,970	28,440	5,440
North Carolina	26	44,780	4,910	2,880	28,590	4,980
Montana	27	44,200	4,080	2,840	29,880	4,380
Florida	28	43,400	4,960	3,290	27,120	4,800
Maine	29	42,230	5,020	2,970	26,100	4,990
North Dakota	30	42,220	4,630	2,680	26,000	5,570
South Carolina	31	42,080	4,330	2,750	26,230	5,110
Texas	32	41,650	6,520	3,140	25,030	4,740

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Table 13.45-- HOUSEHOLD DEBT PER CAPITA FOR EACH OF THE 50 STATES, THE DISTRICT OF COLUMBIA, PUERTO RICO, AND THE UNITED STATES AVERAGE: 2017 -- Con.

Year 1/	Rank 2/	Total 3/	Auto loan	Credit card	Mortgage	Student loan
Pennsylvania	33	41,450	4,000	3,030	24,980	5,880
South Dakota	34	41,130	4,350	2,780	25,500	5,080
Tennessee	35	39,880	4,440	2,480	24,910	4,760
Nebraska	36	39,400	4,030	2,790	25,250	5,000
Wisconsin	37	39,120	3,580	2,630	25,730	4,730
Iowa	38	38,920	4,370	2,450	24,580	5,060
New Mexico	39	38,680	5,190	2,650	24,580	4,050
Missouri	40	38,420	4,180	2,620	23,940	5,280
Michigan	41	37,640	3,690	2,610	23,130	5,610
Kansas	42	37,320	4,000	2,780	23,330	5,070
Indiana	43	37,210	4,110	2,500	22,810	5,190
Ohio	44	37,160	4,190	2,680	21,500	5,860
Louisiana	45	36,720	5,550	2,440	20,820	4,960
Alabama	46	36,060	4,780	2,370	21,000	4,660
Oklahoma	47	33,890	5,050	2,550	19,830	4,150
Kentucky	48	33,660	3,780	2,280	20,010	4,630
Arkansas	49	32,220	5,240	2,300	18,200	4,340
Mississippi	50	30,920	4,840	2,020	15,230	5,490
West Virginia	51	28,790	4,500	2,240	15,240	4,030
Puerto Rico	(X)	(NA)	2,320	(NA)	(NA)	(NA)

NA Not available.

X Not applicable.

1/ For the fourth quarter of the year indicated.

2/ Rank of 1 is assigned to the highest total per capita household debt.

3/ Includes components not shown separately.

4/ Data include Puerto Rico but exclude other U.S. Territories like Guam and the U.S. Virgin Islands, as well as certain other areas.

Source: Federal Reserve Bank of New York, "State Level Household Debt Statistics 2003-2017 (February 2018) <https://www.newyorkfed.org/medialibrary/Interactives/householdcredit/data/xls/area_report_by_year.xlsx> accessed June 27, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Section 14

PRICES

This section presents indexes of consumer prices for Honolulu and for the United States, the implicit price deflator for gross domestic product, and comparisons of Honolulu living costs with those in other U.S. urban areas and cities in foreign countries. Other statistics on prices are reported in Sections 7, 16, 17, 18, 21, and 23.

The Honolulu Consumer Price Index has been compiled by the U.S. Bureau of Labor Statistics (BLS) since December 1963. This index measures the average change in prices of goods and services purchased by urban households. Prices are expressed as a percent of the average levels reported in the base period, 1982-1984.

Official comparisons of Honolulu and Mainland living costs are no longer being made on a regular basis. The annual four-person family budgets estimated by the BLS for Honolulu and the Mainland were discontinued after 1981. The unofficial estimates by the Bank of Hawaii were available for 1982-1998 but have seemingly also been discontinued. A comparison of prices in Hawaii and Washington, D.C., compiled for the U.S. Office of Personnel Management as a basis for cost of living adjustments for Federal employees is also included. These studies are subject to technical limitations and must be interpreted with considerable caution. Comparative indexes have been compiled by the U.S. Department of Defense for military personnel assigned to or in Hawaii on temporary duty.

No composite wholesale or producer price index is available for Hawaii. Average wholesale prices of agricultural products are reported in *Statistics of Hawaii Agriculture*, issued by the Hawaii Agricultural Statistics Service, and in various other publications of the Hawaii State Department of Agriculture. Wholesale price statistics of other commodities are seldom available. Periodic comparisons of individual or groups of products and services are sometimes compiled.

Data on prices and living costs for the nation as a whole and other areas are summarized in the *Statistical Abstract of the United States: 2012*, Section 14. Long-term trends for Hawaii are traced in *Historical Statistics of Hawaii*, Section 5.

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Table 14.01-- IMPLICIT PRICE DEFLATOR FOR GROSS DOMESTIC PRODUCT FOR HAWAII AND UNITED STATES: 1987 TO 2017

[Implicit price deflator is the ratio of current-dollar value of gross domestic product (GDP), to its corresponding chained-dollar value, multiplied by 100 and is shown at the 3-decimal level. Current dollar GDP is available for 1963 through 2017 (see Table 13.03) but Real (Chained- 2009 dollar) GDP is not available before 1987]

Year	Hawaii	United States	Year	Hawaii	United States
SIC 1997 = 100.000 1/			NAICS 2009 = 100.000 1/		
1987	74.972	76.506	1997	70.903	76.830
1988	77.483	78.970	1998	72.666	77.809
1989	80.307	82.050	1999	74.678	79.032
1990	83.046	85.140	2000	77.215	81.003
1991	86.420	88.154	2001	80.287	82.889
1992	88.478	90.322	2002	82.339	84.170
1993	91.482	92.824	2003	84.571	86.042
1994	93.343	94.848	2004	87.256	88.634
1995	95.477	96.820	2005	90.357	91.635
1996	97.427	98.453	2006	93.577	94.435
1997	100.000	100.000	2007	96.721	97.248
			2008	98.481	99.377
			2009	100.000	100.000
			2010	101.220	101.583
			2011	103.010	103.858
			2012	105.252	106.049
			2013	107.110	108.006
			2014 2/	109.571	110.147
			2015 2/	112.475	111.510
			2016 2/	114.363	112.977
			2017	116.778	115.201

1/ There is a discontinuity in the GDP time series at 1997, occurring at the change from Standard Industrial Classification (SIC) industry definitions to North American Industry Classification System (NAICS) industry definitions. This discontinuity results from many sources, including differences in source data and different estimation methodologies. This data discontinuity may affect both the levels and the growth rates of the GDP estimates. Users of the GDP estimates are strongly cautioned against joining the two data series in an attempt to construct a single time series of GDP estimates for 1963 to 2016.

2/ 2014 to 2016 were revised from previous *Data Book*.

Source: U.S. Bureau of Economic Analysis, Gross Domestic Product by Industry (May 4, 2018) <http://www.bea.gov/iTable/index_regional.cfm> accessed July 17, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 14.02-- REGIONAL PRICE PARITIES (RPPs), ALL ITEMS, BY STATE,
AND FOR HAWAII, BY COMPONENT: 2009 TO 2016**

[RPPs measure differences in price levels of goods and services across states for a given year and are expressed as percentage of the national price level set to 100.0. 2014 and 2015 revised from previous *Data Book*]

State	2009	2010	2011	2012	2013	2014	2015	2016
Hawaii								
All items	117.1	117.2	116.9	117.8	118.3	118.4	118.9	118.4
Goods	106.8	107.1	108.5	109.3	109.3	109.5	109.6	110.5
Services: rents	164.6	159.2	157.3	159.1	159.3	159.0	163.4	157.4
Services: other	106.6	104.2	103.0	103.7	104.7	104.5	104.2	103.5
Alabama	87.5	87.9	87.7	88.1	87.8	87.1	86.7	86.6
Alaska	106.9	105.5	105.1	105.4	104.9	106.3	105.6	105.4
Arizona	100.1	98.6	97.9	97.1	96.5	96.0	96.0	95.9
Arkansas	86.6	87.7	87.6	87.8	87.8	86.9	87.3	86.9
California	112.9	113.6	113.4	112.9	113.1	113.7	113.6	114.4
Colorado	101.1	100.9	101.4	101.1	102.1	102.0	102.6	103.0
Connecticut	110.4	109.4	109.0	109.2	108.5	108.6	108.7	108.7
Delaware	103.2	102.8	101.8	101.2	100.6	101.1	100.1	100.2
Dist. of Columbia	116.4	118.2	117.8	117.7	117.0	118.2	117.3	115.9
Florida	100.0	99.1	99.2	99.1	99.2	99.4	99.5	99.7
Georgia	93.1	92.3	91.9	92.2	92.3	92.0	92.6	92.1
Hawaii	117.1	117.2	116.9	117.8	118.3	118.4	118.9	118.4
Idaho	94.8	93.5	93.3	93.4	93.2	93.6	93.4	93.0
Illinois	100.9	100.9	101.1	100.7	99.7	99.3	99.2	98.9
Indiana	91.4	91.4	91.7	91.4	91.3	90.8	90.6	90.3
Iowa	89.0	89.2	90.0	90.2	90.6	90.3	90.4	90.2
Kansas	89.6	89.9	90.7	90.6	91.3	90.9	90.6	90.5
Kentucky	88.7	88.6	88.6	88.8	89.3	88.3	88.5	87.8
Louisiana	91.4	91.2	91.0	91.4	91.2	90.9	90.5	90.4
Maine	98.1	96.8	97.4	98.4	98.5	98.0	98.6	98.4
Maryland	111.3	111.0	110.9	110.1	109.9	110.2	109.7	109.5
Massachusetts	108.0	108.0	107.8	106.6	106.7	107.3	107.3	107.8
Michigan	95.2	94.7	94.6	94.5	94.3	93.6	93.3	93.3
Minnesota	97.7	97.1	97.2	97.6	97.5	97.5	97.4	97.5
Mississippi	85.8	86.7	86.8	86.5	87.2	86.2	86.1	86.4
Missouri	87.9	88.3	89.1	89.3	89.9	89.8	89.6	89.5
Montana	94.5	93.9	93.8	93.5	94.6	94.7	95.1	94.1

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**Table 14.02-- REGIONAL PRICE PARITIES (RPPs), ALL ITEMS, BY STATE,
AND FOR HAWAII, BY COMPONENT: 2009 TO 2016 -- Con.**

State	2009	2010	2011	2012	2013	2014	2015	2016
Nebraska	89.6	90.3	90.3	90.6	90.7	90.5	90.6	90.5
Nevada	100.7	99.9	99.8	98.7	98.7	97.5	97.5	97.4
New Hampshire	106.4	106.5	105.3	105.6	105.4	105.7	105.5	105.9
New Jersey	113.3	114.1	114.6	114.4	113.4	113.8	113.2	113.2
New Mexico	94.4	94.6	95.3	95.0	95.3	94.7	94.1	93.6
New York	115.3	115.2	115.2	115.3	115.2	115.7	115.3	115.6
North Carolina	92.1	91.3	91.5	91.7	91.8	91.4	91.1	90.9
North Dakota	89.0	89.2	89.7	91.0	91.7	91.6	92.4	91.5
Ohio	89.3	89.8	89.7	89.4	89.5	89.4	89.4	89.3
Oklahoma	89.5	89.6	89.6	89.9	90.0	89.5	89.7	89.0
Oregon	98.9	98.5	98.5	98.7	98.9	98.8	98.9	99.8
Pennsylvania	98.2	98.5	98.4	98.4	98.6	98.1	98.1	98.4
Rhode Island	100.0	99.1	99.4	98.8	98.8	99.8	99.5	99.6
South Carolina	91.5	90.4	90.8	90.8	90.5	90.0	90.2	90.3
South Dakota	85.8	86.9	87.3	88.9	88.0	88.0	88.3	88.3
Tennessee	90.5	90.2	90.3	90.8	90.7	89.8	89.8	90.2
Texas	96.4	96.3	96.2	96.2	96.3	96.5	96.8	96.9
Utah	97.8	96.9	97.2	97.1	97.7	96.8	96.7	97.3
Vermont	100.6	99.5	99.9	100.8	100.9	102.5	102.3	101.6
Virginia	103.5	103.1	103.0	103.0	102.8	102.7	102.6	102.3
Washington	103.7	103.0	102.9	103.5	104.2	104.9	105.0	105.5
West Virginia	87.5	88.4	88.5	88.6	88.6	88.2	88.7	87.6
Wisconsin	92.9	92.8	93.3	93.5	93.2	93.3	93.2	92.8
Wyoming	96.1	95.9	96.7	95.8	96.0	96.8	96.4	96.7

Source: U.S. Bureau of Economic Analysis, State Real Personal Income (May 17, 2018)
 <<http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1>> accessed June 27, 2018. See also
 "Real Personal Income for States and Metropolitan Areas, 2016"
 <<https://www.bea.gov/newsreleases/regional/rpp/2017/pdf/rpp0617.pdf>>.

**Table 14.03-- IMPLICIT REGIONAL PRICE DEFLATOR, BY STATE:
2009 TO 2016**

[Calculated as personal income divided by real personal income. Base year is 2009.
2014 and 2015 revised from previous *Data Book*]

State	2009	2010	2011	2012	2013	2014	2015	2016
Alabama	87.2	89.2	91.1	93.3	94.2	94.9	94.7	95.6
Alaska	106.6	107.0	109.2	111.6	112.6	115.9	115.4	116.4
Arizona	99.8	100.0	101.7	102.9	103.5	104.6	104.9	106.0
Arkansas	86.4	88.9	91.1	93.0	94.2	94.7	95.3	96.0
California	112.5	115.2	117.8	119.6	121.4	123.9	124.2	126.4
Colorado	100.8	102.4	105.4	107.1	109.6	111.1	112.2	113.7
Connecticut	110.0	111.0	113.3	115.7	116.5	118.4	118.8	120.1
Delaware	102.9	104.3	105.8	107.2	108.0	110.2	109.4	110.7
Dist. of Col.	116.1	119.9	122.4	124.7	125.6	128.9	128.2	128.0
Florida	99.7	100.5	103.1	105.0	106.5	108.3	108.7	110.2
Georgia	92.8	93.6	95.5	97.6	99.1	100.3	101.2	101.8
Hawaii	116.7	118.9	121.5	124.8	127.0	129.0	129.9	130.8
Idaho	94.5	94.9	97.0	98.9	100.1	102.0	102.1	102.8
Illinois	100.6	102.3	105.1	106.6	107.1	108.2	108.4	109.3
Indiana	91.1	92.7	95.3	96.8	98.0	99.0	99.0	99.8
Iowa	88.8	90.5	93.5	95.5	97.2	98.5	98.8	99.6
Kansas	89.3	91.2	94.2	96.0	98.0	99.0	99.0	100.0
Kentucky	88.4	89.9	92.0	94.1	95.8	96.2	96.7	96.9
Louisiana	91.1	92.5	94.6	96.8	97.9	99.1	98.9	99.8
Maine	97.8	98.2	101.2	104.2	105.7	106.8	107.8	108.7
Maryland	111.0	112.6	115.3	116.7	117.9	120.1	119.9	120.9
Massachusetts	107.6	109.5	112.0	112.9	114.5	116.9	117.2	119.1
Michigan	94.9	96.0	98.3	100.1	101.2	102.0	101.9	103.0
Minnesota	97.4	98.5	101.0	103.4	104.7	106.3	106.4	107.7
Mississippi	85.6	87.9	90.2	91.7	93.6	93.9	94.0	95.4
Missouri	87.6	89.5	92.6	94.6	96.5	97.9	97.9	98.8
Montana	94.2	95.3	97.5	99.1	101.5	103.2	103.9	104.0
Nebraska	89.4	91.6	93.8	96.0	97.4	98.7	99.0	99.9
Nevada	100.4	101.3	103.7	104.6	105.9	106.3	106.6	107.6
New Hampshire	106.1	108.0	109.4	111.9	113.2	115.2	115.3	116.9
New Jersey	113.0	115.7	119.1	121.2	121.7	124.0	123.7	125.0
New Mexico	94.2	96.0	99.0	100.7	102.3	103.2	102.8	103.4
New York	115.0	116.9	119.7	122.2	123.6	126.1	126.0	127.7
North Carolina	91.8	92.6	95.0	97.1	98.5	99.6	99.5	100.4
North Dakota	88.8	90.5	93.2	96.4	98.5	99.8	101.0	101.1
Ohio	89.0	91.0	93.2	94.7	96.1	97.5	97.7	98.6
Oklahoma	89.2	90.9	93.1	95.2	96.6	97.6	98.0	98.3
Oregon	98.6	99.9	102.4	104.5	106.2	107.7	108.1	110.2

Continued on next page.

**Table 14.03-- IMPLICIT REGIONAL PRICE DEFLATOR, BY STATE:
2009 TO 2016 -- Con.**

State	2009	2010	2011	2012	2013	2014	2015	2016
Pennsylvania	97.9	99.9	102.3	104.3	105.9	107.0	107.2	108.7
Rhode Island	99.7	100.6	103.2	104.6	106.0	108.8	108.7	110.0
South Carolina	91.2	91.7	94.3	96.2	97.2	98.1	98.6	99.8
South Dakota	85.5	88.2	90.7	94.1	94.4	95.9	96.5	97.6
Tennessee	90.2	91.5	93.8	96.1	97.4	97.8	98.1	99.6
Texas	96.2	97.6	100.0	101.9	103.4	105.2	105.8	107.1
Utah	97.5	98.3	101.0	102.9	104.8	105.5	105.6	107.5
Vermont	100.3	100.9	103.8	106.8	108.3	111.7	111.8	112.3
Virginia	103.2	104.6	107.0	109.1	110.3	111.9	112.1	113.0
Washington	103.4	104.5	106.9	109.6	111.8	114.4	114.7	116.6
West Virginia	87.3	89.7	92.0	93.8	95.1	96.1	96.9	96.7
Wisconsin	92.6	94.1	96.9	99.1	100.1	101.7	101.8	102.5
Wyoming	95.8	97.3	100.5	101.4	103.1	105.5	105.4	106.9

Source: U.S. Bureau of Economic Analysis, Real State Personal Income (May 17, 2018)
 <<http://www.bea.gov/iTable/iTable.cfm?ReqID=70&step=1>> accessed July 17, 2018. See also
 "Real Personal Income for States and Metropolitan Areas, 2016"
 <<https://www.bea.gov/newsreleases/regional/rpp/2018/pdf/rpp0518.pdf>>.

Table 14.04-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES: 1940 TO 2017

[1982-1984 average = 100. Excludes rent before 1963. U.S. Bureau of Labor Statistics instituted a 3-decimal presentation beginning January 2007]

Year	Honolulu		United States	
	Annual average	Percent change from previous year	Annual average	Percent change from previous year
1940	14.7	(X)	14.0	0.7
1941	15.5	5.4	14.7	5.0
1942	17.6	13.5	16.3	10.9
1943	18.9	7.4	17.3	6.1
1944	19.2	1.6	17.6	1.7
1945	19.7	2.6	18.0	2.3
1946	21.0	6.6	19.5	8.3
1947	24.4	16.2	22.3	14.4
1948	25.7	5.3	24.1	8.1
1949	25.2	-1.9	23.8	-1.2
1950	24.3	-3.6	24.1	1.3
1951	25.7	5.8	26.0	7.9
1952	26.5	3.1	26.5	1.9
1953	26.7	0.8	26.7	0.8
1954	26.9	0.7	26.9	0.7
1955	27.3	1.5	26.8	-0.4
1956	27.7	1.5	27.2	1.5
1957	28.6	3.2	28.1	3.3
1958	30.0	4.9	28.9	2.8
1959	30.5	1.7	29.1	0.7
1960	31.3	2.6	29.6	1.7
1961	32.1	2.6	29.9	1.0
1962	32.8	2.2	30.2	1.0
1963	33.5	2.1	30.6	1.3
1964	33.7	0.6	31.0	1.3
1965	34.4	2.1	31.5	1.6
1966	35.3	2.6	32.4	2.9
1967	36.3	2.8	33.4	3.1
1968	37.7	3.9	34.8	4.2
1969	39.4	4.5	36.7	5.5
1970	41.5	5.3	38.8	5.7
1971	43.2	4.1	40.5	4.4
1972	44.6	3.2	41.8	3.2
1973	46.6	4.5	44.4	6.2
1974	51.5	10.5	49.3	11.0
1975	56.3	9.3	53.8	9.1
1976	59.1	5.0	56.9	5.8
1977	62.1	5.1	60.6	6.5

Continued on next page.

Table 14.04-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES: 1940 TO 2017 -- Con.

Year	Honolulu		United States	
	Annual average	Percent change from previous year	Annual average	Percent change from previous year
1978	66.9	7.7	65.2	7.6
1979	74.3	11.1	72.6	11.3
1980	83.0	11.7	82.4	13.5
1981	91.7	10.5	90.9	10.3
1982	97.2	6.0	96.5	6.2
1983	99.3	2.2	99.6	3.2
1984	103.5	4.2	103.9	4.3
1985	106.8	3.2	107.6	3.6
1986	109.4	2.4	109.6	1.9
1987	114.9	5.0	113.6	3.6
1988	121.7	5.9	118.3	4.1
1989	128.7	5.8	124.0	4.8
1990	138.1	7.3	130.7	5.4
1991	148.0	7.2	136.2	4.2
1992	155.1	4.8	140.3	3.0
1993	160.1	3.2	144.5	3.0
1994	164.5	2.7	148.2	2.6
1995	168.1	2.2	152.4	2.8
1996	170.7	1.5	156.9	3.0
1997	171.9	0.7	160.5	2.3
1998	171.5	-0.2	163.0	1.6
1999	173.3	1.0	166.6	2.2
2000	176.3	1.7	172.2	3.4
2001	178.4	1.2	177.1	2.8
2002	180.3	1.1	179.9	1.6
2003	184.5	2.3	184.0	2.3
2004	190.6	3.3	188.9	2.7
2005	197.8	3.8	195.3	3.4
2006	209.4	5.9	201.6	3.2
2007	219.504	4.8	207.342	2.8
2008	228.861	4.3	215.303	3.8
2009	230.048	0.5	214.537	-0.4
2010	234.869	2.1	218.056	1.6
2011	243.622	3.7	224.939	3.2
2012	249.474	2.4	229.594	2.1
2013	253.924	1.8	232.957	1.5
2014	257.589	1.4	236.736	1.6
2015	260.165	1.0	237.017	0.1
2016	265.283	2.0	240.007	1.3
2017	272.014	2.5	245.120	2.1

Continued on next page.

**Table 14.04-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS
(CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES:
1940 TO 2017 -- Con.**

X Not applicable.

Source: For Honolulu: 1940-1963 from surveys by Eugene Danaher and Hawaii State Department of Labor and Industrial Relations, cited in Hawaii State Department of Planning and Economic Development, *The Honolulu Consumer Price Index, 1940-1986* (Statistical Report 187, May 30, 1986), as shifted to 1982-1984 base. 1987-2017: U.S. Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers [CPI-U] Honolulu and the United States <<http://www.bls.gov/cpi/home.htm>> accessed January 12, 2018.

Table 14.05-- CONSUMER PRICE INDEX- ALL ITEMS, BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUAL AND ANNUAL AVERAGE, 1984 TO 2017

[U.S. Bureau of Labor Statistics instituted a 3-decimal presentation beginning January 2007]

Year	All urban consumers (CPI-U)			Urban wage earners and clerical workers (CPI-W)		
	Annual average	First half	Second half	Annual average	First half	Second half
1982-1984 = 100						
1984	103.5	102.5	104.4	104.3	103.0	105.5
1985	106.8	106.3	107.4	107.9	107.4	108.4
1986	109.4	108.9	109.9	110.3	109.9	110.7
1987	114.9	113.3	116.5	115.9	114.3	117.6
1988	121.7	120.1	123.4	122.8	121.1	124.5
1989	128.7	126.4	131.1	129.7	127.4	132.0
1990	138.1	135.5	140.8	138.9	136.3	141.6
1991	148.0	146.8	149.1	148.9	147.7	150.1
1992	155.1	153.9	156.4	155.9	154.6	157.2
1993	160.1	158.6	161.6	160.7	159.4	162.0
1994	164.5	163.4	165.7	164.7	163.5	165.8
1995	168.1	166.9	169.4	168.4	167.2	169.7
1996	170.7	170.5	171.0	171.0	170.8	171.2
1997	171.9	172.1	171.8	172.2	172.4	172.0
1998	171.5	172.0	171.0	171.6	172.3	171.0
1999	173.3	172.7	173.8	173.4	173.0	173.9
2000	176.3	175.9	176.7	176.5	176.0	176.9
2001	178.4	178.1	178.7	179.1	178.6	179.5
2002	180.3	180.1	180.4	180.6	180.4	180.7
2003	184.5	183.2	185.7	184.3	183.4	185.3
2004	190.6	189.2	191.9	190.2	188.8	191.5
2005	197.8	195.0	200.6	197.2	194.6	199.8
2006	209.4	206.4	212.3	208.5	205.6	211.4
2007	219.504	216.620	222.388	218.541	215.681	221.401
2008	228.861	227.334	230.387	228.344	226.738	229.950
2009	230.048	228.070	232.026	228.773	226.462	231.084
2010	234.869	233.822	235.916	234.020	233.089	234.951
2011	243.622	241.902	245.342	242.532	240.874	244.190
2012	249.474	248.646	250.303	248.569	248.003	249.135
2013	253.924	253.202	254.646	252.178	251.663	252.694
2014	257.589	255.989	259.190	254.757	253.417	256.098
2015	260.165	257.848	262.482	255.969	254.057	257.881
2016	265.283	264.038	266.528	260.326	258.879	261.772
2017	272.014	270.738	273.290	267.115	265.787	268.444

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Table 14.05-- CONSUMER PRICE INDEX- ALL ITEMS, BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUAL AND ANNUAL AVERAGE, 1984 TO 2017 -- Con.

Year	All urban consumers (CPI-U)			Urban wage earners and clerical workers (CPI-W)		
	Annual average	First half	Second half	Annual average	First half	Second half
Percentage change 1/						
1985	3.2	3.7	2.9	3.5	4.3	2.7
1986	2.4	2.4	2.3	2.2	2.3	2.1
1987	5.0	4.0	6.0	5.1	4.0	6.2
1988	5.9	6.0	5.9	6.0	5.9	5.9
1989	5.8	5.2	6.2	5.6	5.2	6.0
1990	7.3	7.2	7.4	7.1	7.0	7.3
1991	7.2	8.3	5.9	7.2	8.4	6.0
1992	4.8	4.8	4.9	4.7	4.7	4.7
1993	3.2	3.1	3.3	3.1	3.1	3.1
1994	2.7	3.0	2.5	2.5	2.6	2.3
1995	2.2	2.1	2.2	2.2	2.3	2.4
1996	1.5	2.2	0.9	1.5	2.2	0.9
1997	0.7	0.9	0.5	0.7	0.9	0.5
1998	-0.2	-0.1	-0.5	-0.3	-0.1	-0.6
1999	1.0	0.4	1.6	1.0	0.4	1.7
2000	1.7	1.9	1.7	1.8	1.7	1.7
2001	1.2	1.3	1.1	1.5	1.5	1.5
2002	1.1	1.1	1.0	0.8	1.0	0.7
2003	2.3	1.7	2.9	2.0	1.7	2.5
2004	3.3	3.3	3.3	3.2	2.9	3.3
2005	3.8	3.1	4.5	3.7	3.1	4.3
2006	5.9	5.8	5.8	5.7	5.7	5.8
2007	4.8	5.0	4.8	4.8	4.9	4.7
2008	4.3	4.9	3.6	4.5	5.1	3.9
2009	0.5	0.3	0.7	0.2	-0.1	0.5
2010	2.1	2.5	1.7	2.3	2.9	1.7
2011	3.7	3.5	4.0	3.6	3.3	3.9
2012	2.4	2.8	2.0	2.5	3.0	2.0
2013	1.8	1.8	1.7	1.5	1.5	1.4
2014	1.4	1.1	1.8	1.0	0.7	1.3
2015	1.0	0.7	1.3	0.5	0.3	0.7
2016	2.0	2.4	1.5	1.7	1.9	1.5
2017	2.5	2.5	2.5	2.6	2.7	2.5

1/ From same period in previous year.

Source: U.S. Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers (CPI-U) and Consumer Price Index-Urban Wage Earners and Clerical Workers (CPI-W), All Items

<<http://www.bls.gov/cpi/home.htm>> and for 1990 to 2017

<https://www.bls.gov/regions/west/data/consumerpriceindex_honolulu_table.pdf> accessed January 12, 2018.

**Table 14.06-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U),
BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP,
FOR HONOLULU: ANNUAL AVERAGE, 2013 TO 2017**

[Unless otherwise specified, 1982-1984 =100. U.S. Bureau of Labor Statistics instituted a 3-decimal presentation beginning January 2007]

Group	2013	2014	2015	2016	2017
All items	253.924	257.589	260.165	265.283	272.014
Food and beverages	250.922	256.023	267.041	272.051	277.301
Food	250.720	256.204	267.643	272.998	278.202
Food at home	254.618	260.591	267.011	267.579	273.253
Food away from home	241.201	247.703	262.972	273.003	277.624
Alcoholic beverages	251.786	250.982	255.672	254.162	260.376
Housing	269.885	273.499	276.047	283.565	294.510
Shelter	285.979	289.519	298.217	309.116	322.017
Rent of primary residence	281.572	287.813	295.635	303.583	313.704
Owners' equiv. rent of prim. res. 1/	296.499	298.747	308.127	320.863	335.159
Fuel and utilities	363.734	375.685	329.285	318.341	334.333
Household energy 2/	326.966	334.996	267.540	243.208	263.579
Energy services 3/	322.311	330.151	262.786	238.477	259.124
Electricity	318.855	327.118	260.267	236.276	256.980
Utility (piped) gas service	328.520	331.538	267.090	235.752	252.444
Household furnishings & operation	153.196	151.278	149.060	148.734	146.275
Household furn. and supplies 4/	92.365	89.619	87.882	86.918	85.087
Apparel	119.011	111.141	108.893	111.736	115.762
Transportation	233.133	236.373	216.756	211.645	217.646
Private transportation	236.516	237.308	212.590	203.453	213.267
Transp. comm. less motor fuel 4/	101.351	103.454	105.039	103.473	105.172
Motor fuel	324.575	317.398	229.138	198.214	227.755
Gasoline (all types)	333.975	326.302	235.085	203.309	233.622
Gasoline, unleaded regular 5/	355.142	346.012	247.260	212.986	244.414
Gasoline, unleaded midgrade 5/ 6/	259.349	257.427	189.913	164.233	189.983
Gasoline, unleaded premium 5/	294.709	287.258	209.894	183.356	212.037
Medical care	345.184	351.763	378.876	400.408	407.384
Education and communication 7/	139.423	143.488	147.869	149.785	144.410
Educ. and comm. commodities 4/	89.320	87.708	85.036	78.951	73.630
Educ. and comm. services 4/	113.495	117.388	121.705	124.149	119.986
Recreation 7/	116.818	119.586	121.840	124.872	125.781
Other goods and services	447.178	457.958	478.634	484.820	488.990
Other goods 4/	109.832	113.828	118.403	119.086	119.212
Other personal services 4/	111.359	112.767	118.393	120.870	123.163
Commodity and service group					
All items	253.924	257.589	260.165	265.283	272.014
Commodities	200.602	201.057	197.792	197.263	201.985
Commodities less food & bev.	167.714	165.695	154.989	151.538	155.984
Nondurables less food & bev.	213.540	210.020	189.890	185.364	193.660
Durables	117.371	116.992	116.371	114.021	114.055
Services	300.849	307.192	314.368	324.441	332.966

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**Table 14.06-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U),
BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP,
FOR HONOLULU: ANNUAL AVERAGE, 2013 TO 2017 -- Con.**

Group	2013	2014	2015	2016	2017
Special aggregate indexes					
All items less shelter	240.466	244.165	243.833	246.306	250.295
All items less medical care	249.131	252.635	253.811	258.001	264.714
All items less energy	251.027	255.021	262.680	269.892	275.658
Energy	323.520	324.528	245.410	217.256	242.100
All items less food and energy	252.469	256.238	263.255	271.023	276.976
Commodities less food	171.027	169.051	158.807	155.419	159.942
Nondurables less food	215.900	212.561	193.935	189.629	197.834
Nondurables	233.677	234.514	230.105	230.373	236.927
Services less rent of shelter 1/	320.021	330.028	335.192	343.671	345.072
Services less medical care services	295.971	302.124	307.041	316.432	325.378

1/ Indexes on a December 1982=100 base.

2/ Historically and as returned via the online database called 'Fuels'.

3/ Historically and as returned via the online database called 'Gas (piped) and electricity'.

4/ Indexes on a December 2009=100 base.

5/ Special index based on a substantially smaller sample.

6/ Indexes on a December 1993=100 base.

7/ Indexes on a December 1997=100 base.

Source: U.S. Bureau of Labor Statistics, Consumer Price Index-All Urban Consumers (CPI-U) All Items
<<http://www.bls.gov/cpi/home.htm>> accessed January 12, 2018.

Table 14.07-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX, ALL URBAN CONSUMERS (CPI-U), FOR HONOLULU AND THE UNITED STATES: DECEMBER 2016 AND 2017

[Percent of all items. 2016 based on the 2013-2014, 2017 based on the 2015-2016 weights in the Consumer Expenditure Survey. See also "Table 1, U.S. City Average using 2013-2014 weights"]

Group	2016 CPI-U		2017 CPI-U	
	Honolulu	U.S.	Honolulu	U.S.
Relative importance of area	0.354	100.000	0.475	100.000
EXPENDITURE CATEGORY				
All items	100.000	100.000	100.000	100.000
Food and beverages	20.371	14.649	15.696	14.359
Food	19.452	13.698	14.963	13.384
Food at home	9.620	7.899	7.672	7.382
Cereals and bakery products	(NA)	1.068	(NA)	0.964
Meats, poultry, fish, and eggs	(NA)	1.740	(NA)	1.635
Meats, poultry, and fish	(NA)	1.640	(NA)	1.538
Dairy and related products	(NA)	0.818	(NA)	0.744
Fruits and vegetables	(NA)	1.338	(NA)	1.302
Other food at home	(NA)	1.986	(NA)	1.864
Food away from home	9.832	5.799	7.290	6.002
Alcoholic beverages	0.919	0.952	0.733	0.974
Housing	43.006	42.634	47.699	41.772
Shelter	36.291	33.652	40.225	32.843
Rent of primary residence	8.261	7.875	12.758	7.823
Tenants' and household insurance	(NA)	0.343	(NA)	0.375
Owners' equivalent rent of residences	27.130	24.583	26.242	23.747
Owners' equivalent rent of primary res.	26.619	23.457	25.426	22.422
Lodging away from home	(NA)	0.851	(NA)	0.898
Fuels and utilities	3.924	4.954	4.163	4.679
Household energy	2.307	3.782	2.695	3.605
Fuel oil and other fuels	(NA)	0.190	(NA)	0.186
Fuel oil	(NA)	0.102	(NA)	0.109
Propane, kerosene, and firewood	(NA)	0.088	(NA)	0.076
Energy services 1/	2.227	3.592	2.666	3.419
Electricity	2.098	2.794	2.559	2.628
Utility (piped) gas service	0.129	0.798	0.107	0.791
Water & sewer & trash collection serv.	(NA)	1.172	(NA)	1.074
Household furnishings and operations	2.791	4.029	3.311	4.250

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**Table 14.07-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, ALL URBAN CONSUMERS (CPI-U),
FOR HONOLULU AND THE UNITED STATES:
DECEMBER 2016 AND 2017 -- Con.**

Group	2016 CPI-U		2017 CPI-U	
	Honolulu	U.S.	Honolulu	U.S.
EXPENDITURE CATEGORY -- Con.				
Apparel	4.051	3.034	2.622	3.018
Men's and boys' apparel	(NA)	0.750	(NA)	0.737
Women's and girls' apparel	(NA)	1.228	(NA)	1.229
Footwear	(NA)	0.691	(NA)	0.671
Infants' and toddlers' apparel	(NA)	0.150	(NA)	0.134
Jewelry and watches	(NA)	0.215	(NA)	0.247
Transportation	12.379	15.318	14.001	16.537
Private transportation	10.627	14.232	12.119	15.384
Motor fuel	2.199	3.257	3.284	3.908
Gasoline (all types)	2.198	3.208	3.266	3.823
Public transportation 2/	1.752	1.086	0.000	1.153
Medical care	7.474	8.539	6.207	8.673
Medical care commodities 3/	1.774	1.852	1.367	1.748
Medical care services 3/	5.700	6.687	4.840	6.924
Recreation	4.486	5.663	4.623	5.737
Education and communication	5.214	6.984	6.908	6.707
Other goods and services	3.019	3.178	2.245	3.198
Personal care	(NA)	2.513	(NA)	2.547
COMMODITY AND SERVICE GROUP 4/				
All items	100.000	100.000	100.000	100.000
Commodities	38.403	36.246	33.820	37.327
Commodities less food and beverages	18.032	21.596	18.124	22.968
Nondurables less food and beverages	11.999	12.336	10.397	12.833
Durables	6.033	9.260	7.727	10.135
Services	61.597	63.754	66.180	62.673

Continued on next page.

**Table 14.07-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, ALL URBAN CONSUMERS (CPI-U),
FOR HONOLULU AND THE UNITED STATES:
DECEMBER 2016 AND 2017 -- Con.**

Group	2016 CPI-U		2017 CPI-U	
	Honolulu	U.S.	Honolulu	U.S.
SPECIAL AGGREGATE INDEXES 4/				
All items less shelter	63.709	66.348	59.775	67.157
All items less medical care	92.526	91.461	93.793	91.327
All items less energy	95.494	92.961	94.021	92.487
All items less food and energy	76.042	79.263	79.058	79.103
Energy	4.506	7.039	5.979	7.513
Commodities less food	18.951	22.548	18.857	23.942
Nondurables less food	12.918	13.288	11.130	13.808
Nondurables	32.369	26.986	26.093	27.192
Services less rent of shelter	25.514	30.445	26.128	30.205
Rent of shelter 5/	36.083	33.309	40.052	32.468
Services less medical care services	55.897	57.067	61.340	55.749

NA Not available.

1/ Until December 2010, called "Gas (piped) and electricity".

2/ For Honolulu, calculated as "Transportation" less "Private transportation".

3/ For Honolulu, "Medical care services " is calculated as "Services" less "Services less medical care services". Then "Medical care commodities" is calculated as "Medical care" less "Medical care services".

4/ The two U.S.-level categories are published in a single "Special aggregate indexes" category.

5/ For Honolulu, calculated as "Services" less "Services less rent of shelter".

Source: U.S. Bureau of Labor Statistics, "Relative Importance of Components in the Consumer Price Indexes" (annual) tables 1, 2, and 7 <<https://www.bls.gov/cpi/tables/relative-importance/home.htm>> accessed March 14, 2018.

Table 14.08-- MEDIAN GROSS RENT AMOUNT AND AS PERCENTAGE OF HOUSEHOLD INCOME FOR THE UNITED STATES, THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2016

[Data based on sample. Rank of 1 indicates highest percentage. Areas sorted in order of highest rank in 2016]

Area	Amount (dollars)	Percentage of household income in past 12 months	
		Number	Rank
United States	981	29.9	(X)
Hawaii	1,483	33.4	1
Florida	1,086	33.3	2
California	1,375	32.8	3
Louisiana	808	32.6	4
New York	1,194	31.6	5
Puerto Rico	463	31.4	(X)
Colorado	1,171	31.2	6
New Jersey	1,244	31.0	7
Connecticut	1,115	30.7	8
Oregon	1,015	30.7	8
Vermont	925	30.4	10
Delaware	1,048	30.0	11
Nevada	1,003	29.9	12
Massachusetts	1,179	29.8	13
Michigan	818	29.7	14
Alabama	743	29.6	15
Maryland	1,314	29.6	15
Virginia	1,159	29.6	15
South Carolina	841	29.5	18
Georgia	933	29.4	19
Rhode Island	948	29.4	19
District of Columbia	1,376	29.3	21
Illinois	950	29.3	21
West Virginia	682	29.2	23
Mississippi	728	29.1	24
Arizona	976	29.0	25
Washington	1,135	29.0	25
New Mexico	804	28.9	27
Tennessee	806	28.9	27
Texas	956	28.9	27

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Table 14.08-- MEDIAN GROSS RENT AMOUNT AND AS PERCENTAGE OF HOUSEHOLD INCOME FOR THE UNITED STATES, THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2016 -- Con.

Area	Amount (dollars)	Percentage of household income in past 12 months	
		Number	Rank
Maine	797	28.8	30
North Carolina	839	28.7	31
Pennsylvania	881	28.7	31
Indiana	768	28.4	33
Idaho	790	28.3	34
Minnesota	912	28.2	35
Kentucky	707	27.9	36
Ohio	759	27.9	36
Utah	954	27.9	36
New Hampshire	1,026	27.8	39
Arkansas	701	27.6	40
Oklahoma	744	27.5	41
Wisconsin	802	27.5	41
Iowa	741	27.4	43
Kansas	789	27.4	43
Missouri	771	27.3	45
Montana	741	27.3	45
Nebraska	769	27.2	47
Wyoming	840	26.8	48
Alaska	1,208	26.7	49
South Dakota	706	26.0	50
North Dakota	776	24.9	51

X Not applicable.

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates for the United States and all states B25064: Median Gross Rent (Dollars) Universe: Renter-occupied housing units paying cash rent <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> and B25071: Median Gross Rent as a Percentage of Household Income in the Past 12 Months (Dollars) Universe: Renter-occupied housing units paying cash rent <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 17, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 14.09-- MORTGAGE STATUS, MEDIAN SELECTED MONTHLY OWNER COSTS BY MORTGAGE STATUS AND AS A PERCENTAGE OF HOUSEHOLD INCOME, HAWAII AND THE UNITED STATES: 2015 AND 2016

[Data based on a sample]

Category	Hawaii	United States
Specified owner-occupied		
2015	252,435	74,506,512
2016	260,626	75,022,569
Specified owner-occupied with a mortgage		
2015: Number	166,018	47,140,736
Percent	65.8	63.3
2016: Number	171,834	47,295,137
Percent	65.9	63.0
Specified owner-occupied without a mortgage		
2015: Number	86,417	27,365,776
Percent	34.2	36.7
2016: Number	88,792	27,727,432
Percent	34.1	37.0
Median selected monthly owner costs (in dollars)		
With a mortgage: 2015	2,248	1,477
2016	2,239	1,486
Without a mortgage: 2015	490	468
2016	492	466
Median selected monthly owner costs as a percentage of		
With a mortgage: 2015	25.7	22.0
2016	25.4	21.5
Without a mortgage: 2015	(1)	11.7
2016	(1)	11.4

1/ The median falls in the lowest interval of an open-ended distribution. □

Source: U.S. Census Bureau, American Community Survey 1-Year Estimates for the United States and Hawaii, Universe: Owner-occupied housing units "B25081 Mortgage Status" (annual), "B25088 Median Selected Monthly Owner Costs (Dollars) by Mortgage Status" (annual), and "B25092 Median Selected Monthly Owner Costs as a Percentage of Household Income in the Past 12 Months" (annual) <<http://factfinder.census.gov/faces/nav/jsf/pages/searchresults.xhtml?refresh=t>> accessed July 17, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 14.10-- MEDIAN SELECTED MONTHLY OWNER COSTS BY MORTGAGE STATUS AND AS A PERCENTAGE OF HOUSEHOLD INCOME, FOR THE UNITED STATES, THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2015 AND 2016

[In dollars and percent. Data based on a sample]

Area	Median selected monthly owner costs				Median selected monthly owner costs as a percentage of household income			
	With a mortgage		Without a mortgage		With a mortgage		Without a mortgage	
	2015	2016	2015	2016	2015	2016	2015	2016
United States	1,477	1,486	468	466	22.0	21.5	11.7	11.4
Alabama	1,124	1,126	345	337	19.8	19.4	10.6	(1/)
Alaska	1,817	1,851	541	547	22.3	21.9	(1/)	(1/)
Arizona	1,319	1,328	385	393	21.7	21.4	(1/)	10.1
Arkansas	1,029	1,017	340	325	19.6	18.8	10.2	(1/)
California	2,123	2,188	524	546	25.9	25.4	11.0	11.0
Colorado	1,558	1,597	427	437	21.4	21.4	(1/)	(1/)
Connecticut	2,020	1,997	845	819	23.6	22.6	15.5	14.5
Delaware	1,506	1,463	453	438	22.0	21.2	10.8	(1/)
Dist. Of Col.	2,312	2,422	613	638	21.2	21.0	(1/)	(1/)
Florida	1,394	1,410	470	474	23.8	23.4	12.5	12.3
Georgia	1,299	1,336	400	398	21.1	20.3	10.8	10.5
Hawaii	2,248	2,239	490	492	25.7	25.4	(1/)	(1/)
Idaho	1,170	1,168	347	348	21.6	20.6	(1/)	(1/)
Illinois	1,588	1,588	589	591	22.1	21.5	13.0	12.8
Indiana	1,089	1,070	386	377	18.9	18.3	10.2	(1/)
Iowa	1,170	1,186	443	447	19.0	18.7	11.4	10.8
Kansas	1,279	1,264	467	465	19.8	19.4	11.3	11.2
Kentucky	1,089	1,111	352	346	19.7	19.2	10.6	10.3
Louisiana	1,219	1,214	323	318	19.9	19.8	(1/)	(1/)
Maine	1,340	1,328	479	454	22.4	21.7	13.2	12.8
Maryland	1,909	1,918	591	592	22.5	22.0	10.9	10.9
Massachusetts	2,048	2,069	760	736	23.4	22.5	14.3	14.0
Michigan	1,220	1,215	464	462	20.0	19.4	12.6	12.1
Minnesota	1,459	1,472	489	482	20.3	19.8	10.9	10.6
Mississippi	1,083	1,087	357	335	21.4	20.0	11.3	10.9
Missouri	1,200	1,210	418	408	19.9	19.5	11.3	11.0
Montana	1,316	1,327	391	399	22.5	22.4	10.7	10.6
Nebraska	1,269	1,290	477	487	19.7	19.2	11.4	11.3
Nevada	1,396	1,401	400	401	22.6	22.4	(1/)	(1/)

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Table 14.10-- MEDIAN SELECTED MONTHLY OWNER COSTS BY MORTGAGE STATUS AND AS A PERCENTAGE OF HOUSEHOLD INCOME, FOR THE UNITED STATES, THE 50 STATES, THE DISTRICT OF COLUMBIA, AND PUERTO RICO: 2015 AND 2016 -- Con.

Area	Median selected monthly owner costs				Median selected monthly owner costs as a percentage of household income			
	With a mortgage		Without a mortgage		With a mortgage		Without a mortgage	
	2015	2016	2015	2016	2015	2016	2015	2016
New Hampshire	1,828	1,821	767	743	23.0	22.4	15.5	15.0
New Jersey	2,349	2,343	988	988	25.7	24.7	17.6	17.1
New Mexico	1,214	1,210	340	339	21.9	21.7	(1/)	(1/)
New York	2,009	2,020	719	703	24.1	23.1	14.0	13.5
North Carolina	1,234	1,225	384	376	21.0	20.2	11.4	10.5
North Dakota	1,297	1,318	431	421	18.2	18.2	(1/)	(1/)
Ohio	1,228	1,211	456	447	19.9	19.4	12.0	11.4
Oklahoma	1,159	1,168	380	370	19.9	19.6	10.2	10.0
Oregon	1,534	1,572	485	488	23.3	22.7	11.9	11.8
Pennsylvania	1,414	1,416	513	498	21.3	20.6	12.9	12.7
Rhode Island	1,730	1,740	708	687	23.5	23.3	14.6	14.4
South Carolina	1,168	1,182	361	351	20.9	20.5	10.7	10.3
South Dakota	1,225	1,239	449	453	20.0	19.4	10.3	10.5
Tennessee	1,167	1,172	365	362	20.9	20.3	10.2	10.1
Texas	1,453	1,469	480	474	21.1	20.9	11.4	11.3
Utah	1,408	1,437	391	403	21.2	21.0	(1/)	(1/)
Vermont	1,530	1,507	653	632	23.9	23.2	15.2	15.3
Virginia	1,692	1,692	457	449	22.1	21.3	10.3	(1/)
Washington	1,704	1,727	517	531	22.7	22.5	11.2	11.1
West Virginia	972	997	300	307	18.3	18.4	(1/)	(1/)
Wisconsin	1,359	1,348	530	517	21.1	20.4	12.9	12.6
Wyoming	1,364	1,367	396	393	20.1	20.5	(1/)	(1/)
Puerto Rico	864	846	149	138	27.7	26.9	(1/)	(1/)

1/ The median falls in the lowest interval of an open-ended distribution.

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates for the United States and Hawaii, Universe: Owner-occupied housing units "B25088 Median Selected Monthly Owner Costs (Dollars) by Mortgage Status" (annual), and "B25092 Median Selected Monthly Owner Costs as a Percentage of Household Income in the Past 12 Months" (annual)

Table 14.11-- SINGLE-FAMILY HOME PRICE APPRECIATION FOR THE UNITED STATES, THE 50 STATES, AND THE DISTRICT OF COLUMBIA: 1991 TO 2017

[In percent change from previous period and number. Period ending December 31 unless otherwise indicated. The House Price Index is based on transactions involving conforming, conventional mortgages purchased or securitized by Fannie Mae or Freddie Mac. The HPI is a broad measure of the movement of single-family house prices. It serves as a timely, accurate indicator of house price trends at various geographic levels. The HPI is a weighted, repeat-sales index, meaning that it measures average price changes in repeat sales or refinancings on the same properties]

State	One-year (percent)	Rank 1/	Five-year (percent)	Since 1991, 1st quarter (percent)
United States 2/	6.68	(X)	34.71	152.69
District of Columbia	14.29	1	53.32	461.62
Washington	12.04	2	56.52	244.28
Idaho	11.49	3	48.85	202.64
Nevada	11.45	4	81.84	139.02
Utah	10.74	5	46.03	286.26
Colorado	9.76	6	59.70	341.31
Tennessee	9.37	7	37.45	155.11
Hawaii	8.70	8	38.55	153.81
Florida	8.66	9	59.19	193.48
Michigan	8.57	10	43.97	119.25
California	8.47	11	59.04	171.93
Nebraska	8.34	12	27.34	154.15
Arizona	8.27	13	50.87	201.79
Rhode Island	8.08	14	28.97	124.24
New Hampshire	7.58	15	27.91	142.50
Texas	7.33	16	41.45	180.78
Kentucky	7.18	17	24.94	133.66
Vermont	7.05	18	16.18	134.94
Indiana	6.93	19	26.16	101.26
Georgia	6.74	20	43.67	129.01
North Carolina	6.73	21	32.78	134.36
Oregon	6.55	23	56.24	306.85
South Carolina	6.49	24	34.98	136.73
Ohio	6.32	25	27.74	94.91
Arkansas	6.28	26	19.51	117.05
Minnesota	6.15	27	32.04	175.37
Massachusetts	6.07	28	29.90	177.27
New York	5.94	29	19.61	137.41
Missouri	5.90	30	26.21	130.09
Alabama	5.63	31	20.43	115.33
Oklahoma	5.62	32	21.53	139.57

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Table 14.11-- SINGLE-FAMILY HOME PRICE APPRECIATION FOR THE UNITED STATES, THE 50 STATES, AND THE DISTRICT OF COLUMBIA: 1991 TO 2017 -- Con.

State	One-year (percent)	Rank 1/	Five-year (percent)	Since 1991, 1st quarter (percent)
Wisconsin	5.59	33	25.89	148.31
Maine	5.47	34	21.74	143.18
South Dakota	5.45	35	25.71	185.77
New Mexico	5.13	36	17.83	137.47
Pennsylvania	4.94	37	18.69	119.65
Virginia	4.91	38	19.56	154.22
New Jersey	4.57	39	16.06	135.65
Iowa	4.41	40	20.77	139.08
Wyoming	4.15	41	13.62	236.13
Connecticut	3.70	42	7.91	73.77
Alaska	3.63	43	13.19	156.93
Maryland	3.54	44	18.71	147.00
Kansas	3.47	45	22.99	135.32
Illinois	3.16	46	21.81	100.70
Montana	2.95	47	25.32	278.46
Louisiana	2.69	48	20.58	177.58
Delaware	2.03	49	10.55	97.92
North Dakota	1.79	50	22.55	212.07
West Virginia	1.13	51	8.20	112.05
Mississippi	-0.57	52	11.75	97.29

X Not applicable.

1/ Rank based on one-year appreciation. The lower the rank, the higher the appreciation.

2/ United States figures based on weighted average of nine Census Divisions.

Source: Federal Housing Finance Agency (FHFA) "U.S. House Prices Rise 1.5 Percent in Fourth Quarter" pp. 16-17 (February 27, 2018) <https://www.fhfa.gov/AboutUs/Reports/ReportDocuments/2016Q4_HPI.pdf> accessed March 15, 2018.

**Table 14.12-- COST OF LIVING ANALYSES FOR HONOLULU
AND THE UNITED STATES AVERAGE: JULY 1, 2012**

[This formulation assumed consumption patterns vary according to earnings level. It compares the 'base city' to a the 'destination' using the same pattern but at the destination's prices. This profiles a cost-of-living model rental (approximates the rental equivalent of owner-occupied housing) situations for a family of 4, annual earnings of \$76,000, a 2,000 sq. ft. home, with 3 vehicles having a total value \$30,000 and driven a total of 30,000 miles annually. The Institute model may be considered as an evolution of the U.S. Department of Labor's "Urban Family of Four" model which the Bureau of Labor Statistics discontinued in 1981]

Category	Honolulu	Percent of total	U.S. average	Percent of total	Honolulu indexed to U.S. average
Total, earnings level #1	76,000	100.0	41,014	100	185.3
Goods and services	29,388	38.7	21,283	52	138.1
Consumables	20,850	27.4	14,212	35	146.7
Transportation	6,150	8.1	5,040	12	122.0
Health services	2,388	3.1	2,031	5	117.6
Rent, utilities, insurance	46,686	61.4	21,929	53	212.9
Income and payroll taxes	17,917	23.6	15,793	39	113.4
Miscellaneous 1/	-17,991	-23.7	-17,991	-44	100.0
Exhibit: monthly rent 2/	3,442	54.3	1,551	45	221.9
Total, earnings level #2	114,519	100.0	76,000	100	150.7
Goods and services	42,682	37.3	31,044	41	137.5
Consumables	29,031	25.4	19,722	26	147.2
Transportation	10,851	9.5	8,931	12	121.5
Health services	2,800	2.4	2,391	3	117.1
Rent, utilities, insurance	46,686	40.8	21,929	29	212.9
Income and payroll taxes	17,917	15.6	15,793	21	113.4
Miscellaneous	7,234	6.3	7,234	10	100.0
Exhibit: monthly rent 2/	3,442	36.1	1,551	24	221.9

1/ 'Miscellaneous' includes charitable contributions, tuition for dependents or child care, insurance premiums, personal savings, investments, credit card debt payments, vacations, etc. A negative value suggests that the spending pattern is 'too rich' for the earnings level.

2/ Percent of total is calculated based on annual rent.

Source: ERI Economic Research Institute, Relocation Assessor, "Relocation Analysis Report" (July 11, 2012) and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 14.13-- COST OF LIVING AMONG TOP STATES FOR BUSINESS
CATEGORY RANKINGS: 2015 TO 2018**

[The CNBC survey scored all 50 states on as many as 66 measures of competitiveness developed with input from business groups including the U.S. Chamber of Commerce and the Center for Regional Economic Competitiveness. States received points based on their rankings in each metric. The metrics are in ten broad categories, weighted according to how frequently they are cited in state economic development marketing materials. A rank of 1 indicates most favorable. Sorted by 2018 category weights]

Component	2015			2016			2017			2018		
	Category wt. 1/	Score	Rank	Category wt. 1/	Score	Rank	Category wt. 1/	Score	Rank	Category wt. 1/	Score	Rank
Overall	2,500	945	50	2,500	1,009	49	2,525	998	49	2,500	1,006	47
Workforce	400	162	46	400	165	48	450	188	48	425	148	48
Infrastructure 2/	350	94	49	350	116	46	400	152	40	400	173	40
Cost of doing business	350	45	50	350	45	50	350	49	50	350	70	49
Economy	340	123	3/ 42	340	181	25	300	135	35	300	134	33
Quality of life	325	310	1	325	295	1	300	268	1	300	264	2
Technology & innovation	250	93	3/ 36	250	90	38	225	64	45	225	63	42
Education	200	67	45	200	74	43	200	90	30	200	94	31
Business friendliness	160	35	44	160	27	46	150	29	47	150	37	43
Access to capital	50	14	37	50	14	37	100	22	41	100	22	42
Cost of living	75	2	50	75	2	50	50	1	50	50	1	50

1/ Weighting reevaluated for each study. See "America's Top States for Business: Our methodology and sources" for 2015 <<http://www.cnbc.com/id/102701598>> accessed June 26, 2015; for 2016 <<http://www.cnbc.com/2016/06/23/americas-top-states-for-business-2016-our-methodology.html>> accessed July 12, 2016; for 2017 <<http://www.cnbc.com/2017/06/12/heres-how-your-state-can-become-a-cnbc-top-state-for-business.html>> accessed June 30, 2017; and for 2018 <<https://www.cnbc.com/2018/06/13/cnbcs-top-states-for-business-2018-methodology-and-sources.html>> accessed July 10, 2018.

2/ Is variously 'Infrastructure' or 'Infrastructure & transportation'.

3/ Tied with Maine.

Source: CNBC "America's Top Ten States for Business: for 2015 <<http://www.cnbc.com/id/101747925>> and "Hawaii" <<http://www.cnbc.com/id/102570702>> and "Maine" <<http://www.cnbc.com/id/102573450>> accessed June 26, 2015; for 2016 <<http://www.cnbc.com/2016/07/12/americas-top-states-for-business-2016-the-list-and-ranking.html>> and "Hawaii" <<http://www.cnbc.com/2016/07/12/top-states-for-business-49-hawaii.html>> accessed July 14, 2016; and for 2017 <<http://www.cnbc.com/2017/07/11/americas-top-states-for-business-2017-overall-ranking.html>> and "Hawaii" <<http://www.cnbc.com/2017/06/12/heres-how-your-state-can-become-a-cnbc-top-state-for-business.html>> accessed July 12, 2017; for 2018 <<<https://www.cnbc.com/2018/07/10/americas-top-states-for-business-2018.html>> and "Hawaii" <<https://www.cnbc.com/2018/07/10/top-states-for-business-hawaii.html>> accessed July 10, 2018.

Table 14.14-- AVERAGE ANNUAL COST OF FULL-TIME CHILD CARE, BY PROVIDER, BY STATE AND THE DISTRICT OF COLUMBIA: 2016

[Data collected during Child Care Aware of America's February 2017 survey of Child Care Resource and Referral State Networks. Some states used the latest state market rate survey]

Area	Child care center			Family child care		
	Infant	4-year-old	School-age 1/	Infant	4-year-old	School-age 1/
Alabama 2/	5,715	4,938	5,381	4,867	5,003	4,858
Alaska	11,700	10,764	6,984	10,101	9,645	5,648
Arizona	10,412	8,275	5,295	7,057	6,603	4,773
Arkansas	6,188	5,150	4,689	5,211	4,748	2,873
California	13,671	9,406	3,466	8,878	8,444	3,722
Colorado 2/	15,138	11,229	4,766	9,741	8,735	3,690
Connecticut	14,924	12,220	3,315	10,452	9,984	3,627
Delaware	10,667	8,553	3,495	7,640	6,798	2,731
District of Columbia	23,089	18,202	13,898	16,329	13,944	8,628
Florida	8,894	7,028	3,309	7,700	6,523	3,325
Georgia	7,769	6,626	2,751	6,202	5,638	2,306
Hawaii	13,704	8,712	5,915	8,112	8,172	5,943
Idaho	7,032	6,429	4,582	6,388	5,834	4,159
Illinois	13,413	10,013	4,714	8,366	7,781	3,874
Indiana	11,949	9,380	5,603	6,637	6,182	4,432
Iowa	9,967	8,219	3,064	7,091	6,722	2,350
Kansas	11,911	8,398	3,974	7,051	6,240	2,043
Kentucky	6,105	6,007	5,389	6,624	5,829	3,378
Louisiana	5,683	5,582	2,340	3,900	4,290	2,294
Maine	8,999	7,898	3,761	7,849	7,215	3,309
Maryland	14,726	9,744	4,153	9,967	8,084	3,703
Massachusetts	20,125	14,256	7,115	12,636	11,834	3,260
Michigan	10,281	7,280	6,084	7,179	6,760	4,992
Minnesota	15,340	11,804	(NA)	8,320	7,540	(NA)
Mississippi 2/	5,178	4,556	1,939	3,483	2,744	874
Missouri	9,412	6,604	4,095	5,564	4,836	3,030
Montana	9,096	7,994	5,952	7,440	6,888	5,520
Nebraska 2/	9,157	8,035	(NA)	7,194	6,634	(NA)
Nevada	10,317	8,786	4,703	8,572	8,013	4,569
New Hampshire	12,220	9,932	3,471	9,152	8,632	4,056
New Jersey	12,370	10,339	5,538	9,311	8,477	4,835
New Mexico	7,906	7,663	4,004	7,851	7,532	4,135
New York	15,028	12,064	12,064	10,972	10,140	7,352

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**Table 14.14-- AVERAGE ANNUAL COST OF FULL-TIME CHILD CARE,
BY PROVIDER, BY STATE AND THE DISTRICT OF COLUMBIA:
2016 -- Con.**

Area	Child care center			Family child care		
	Infant	4-year-old	School-age 1/	Infant	4-year-old	School-age 1/
North Carolina	9,254	7,920	3,275	7,412	6,548	2,994
North Dakota	8,539	7,715	12,064	7,132	6,842	(NA)
Ohio	9,825	7,850	3,905	7,358	6,731	3,550
Oklahoma	8,237	6,296	5,046	6,848	5,964	5,231
Oregon	12,249	9,396	5,626	8,824	7,317	6,043
Pennsylvania	12,129	9,234	5,771	8,066	7,238	5,422
Rhode Island	13,044	10,179	5,448	10,179	9,375	4,554
South Carolina	6,673	5,720	2,340	4,680	4,420	1,950
South Dakota	(NA)	6,198	4,586	(NA)	5,221	3,931
Tennessee	8,524	7,290	2,487	6,183	5,715	2,542
Texas	8,880	6,823	3,260	6,726	5,272	2,683
Utah	12,249	6,396	5,626	8,824	7,317	6,043
Vermont	11,513	10,009	4,061	8,205	7,749	3,446
Virginia	12,792	9,568	4,485	9,516	8,060	3,471
Washington	13,742	10,434	4,816	10,457	8,333	4,422
West Virginia	8,320	7,280	4,875	6,500	5,720	3,900
Wisconsin	12,083	9,835	3,986	9,525	8,501	4,790
Wyoming	10,140	8,580	6,846	7,800	7,800	7,800

NA Not available or not reported.

1/ Based on a before-/after-school for 9-month school year.

2/ State did not report costs on 2017 survey. Data from previous year adjusted for inflation.

Source: Child Care Aware of America, *Parents and the High Cost of Child Care 2017 Appendices*, Appendix I: "2015 Average Annual Cost of Full-Time Center-Based Child Care by State" (p. 4) and Appendix II: "2015 Average Annual Cost of Full-Time Family Child Care by State" (p. 5) <<http://usa.childcareaware.org/advocacy-public-policy/resources/research/costofcare/>> accessed January 18, 2018.

Table 14.15-- HOUSING'S MOST EXPENSIVE 25 MARKETS AND MOST AFFORDABLE 25 MARKETS IN THE UNITED STATES: 2016

[The Coldwell Banker "U.S. Home Listing Report" analyzes the average listing price of four-bedroom, two-bathroom properties on coldwellbanker.com listed between January 2016 and June 2016 from 51,163 listings in 2,168 markets. Markets without 10 such properties were excluded]

Rank	Most expensive		Average listing price	Rank	Most affordable		Average listing price
1	Saratoga	CA	2,453,718	1	Detroit	MI	64,110
2	Newport Beach	CA	2,130,338	2	Cleveland	OH	73,073
3	Cupertino	CA	1,812,833	3	Park Forest	IL	78,392
4	Redwood City	CA	1,807,068	4	Jamestown	NY	88,891
5	Arcadia	CA	1,748,680	5	Utica	NY	92,891
6	Carmel	CA	1,722,500	6	Wilkes-Barre	PA	94,436
7	San Francisco	CA	1,672,100	7	Scranton	PA	104,842
8	La Canada Flintridge	CA	1,571,846	8	Huntington	IN	105,614
9	Sunnyvale	CA	1,566,616	9	Augusta	GA	106,567
10	Los Gatos	CA	1,470,524	10	Palatka	FL	110,655
11	San Mateo	CA	1,425,200	11	Geneva	NY	112,600
12	Greenwich	CT	1,349,048	12	Kankakee	IL	112,958
13	Wellesley	MA	1,294,684	13	Cheektowaga	NY	113,244
14	Honolulu	HI	1,202,219	14	Albertville	AL	114,258
15	Santa Barbara	CA	1,165,727	15	Jackson	MI	114,860
16	Danville	CA	1,152,886	16	Country Club Hills	IL	116,400
17	Westport	CT	1,119,279	17	Beloit	WI	117,655
18	San Rafael	CA	1,114,714	18	Hephzibah	GA	118,460
19	Pasadena	CA	1,082,091	19	Johnstown	PA	118,589
20	Bellevue	WA	1,078,976	20	Parsons	KS	118,628
21	Calabasas	CA	1,066,783	21	Danville	IL	118,970
22	Cambridge	MA	1,057,120	22	Binghamton	NY	119,251
23	Concord	MA	1,040,290	23	Jackson	MS	119,580
24	San Jose	CA	1,011,871	24	Bluefield	WV	119,945
25	Walnut Creek	CA	1,004,900	25	Grenada	MS	120,925

Source: Coldwell Banker, "Homebuyers: Report Reveals Most Expensive and Affordable Real Estate Markets in United States" (September 8, 2016) <<https://www.coldwellbanker.com/article/report-reveals-most-expensive-and-affordable-real-estate-markets-in-us>> accessed November 1, 2016.

Table 14.16-- AVERAGE GASOLINE PRICE FOR THE UNITED STATES AND FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: JULY 18, 2018

[Over 120,000 retail gasoline self-serve stations are surveyed and updated daily. Prices are in dollars per gallon. Rank of 1 indicates highest price per gallon. Rank is among 50 states and District of Columbia]

Item	Regular	Mid	Premium	Diesel
Hawaii	3.780	3.900	4.020	4.163
Hawaii rank	1	1	1	1
U. S. average	2.865	3.161	3.411	3.166
Hawaii as percent of U.S. average	131.9	123.4	117.9	131.5
Alabama	2.553	2.852	3.158	2.978
Alaska	3.401	3.468	3.581	3.420
Arizona	2.961	3.183	3.393	3.125
Arkansas	2.602	2.865	3.126	2.950
California	3.645	3.796	3.905	3.949
Colorado	2.832	3.096	3.369	3.157
Connecticut	3.079	3.346	3.548	3.324
Delaware	2.849	3.167	3.389	2.986
District of Columbia	3.014	3.471	3.625	3.193
Florida	2.785	3.086	3.362	3.094
Georgia	2.719	3.020	3.303	3.086
Hawaii	3.780	3.900	4.020	4.163
Idaho	3.130	3.279	3.454	3.487
Illinois	2.921	3.286	3.680	3.067
Indiana	2.881	3.201	3.512	3.219
Iowa	2.732	2.845	3.217	3.099
Kansas	2.665	2.878	3.104	3.014
Kentucky	2.771	3.080	3.383	3.025
Louisiana	2.600	2.856	3.117	2.929
Maine	2.853	3.126	3.346	3.198
Maryland	2.849	3.202	3.433	3.102
Massachusetts	2.901	3.142	3.311	3.179
Michigan	2.956	3.291	3.617	3.266
Minnesota	2.768	2.962	3.228	3.150
Mississippi	2.559	2.827	3.115	2.904
Missouri	2.642	2.896	3.142	2.935
Montana	2.938	3.139	3.427	3.256
Nebraska	2.748	2.831	3.152	3.086
Nevada	3.220	3.388	3.551	3.365
New Hampshire	2.808	3.085	3.300	3.109
New Jersey	2.911	3.214	3.389	3.207
New Mexico	2.810	3.054	3.277	3.133
New York	3.011	3.271	3.482	3.338

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Table 14.16-- AVERAGE GASOLINE PRICE FOR THE UNITED STATES AND FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: JULY 18, 2018 -- Con.

Item	Regular	Mid	Premium	Diesel
North Carolina	2.688	2.987	3.288	3.050
North Dakota	2.859	3.053	3.265	3.117
Ohio	2.792	3.107	3.419	3.059
Oklahoma	2.633	2.842	3.032	2.911
Oregon	3.308	3.471	3.639	3.422
Pennsylvania	3.045	3.322	3.575	3.543
Rhode Island	2.912	3.183	3.382	3.194
South Carolina	2.564	2.858	3.141	2.929
South Dakota	2.893	2.954	3.282	3.147
Tennessee	2.623	2.916	3.201	2.977
Texas	2.636	2.921	3.171	2.921
Utah	3.122	3.265	3.425	3.409
Vermont	2.913	3.143	3.377	3.216
Virginia	2.618	2.958	3.233	2.985
Washington	3.426	3.590	3.728	3.579
West Virginia	2.848	3.071	3.339	3.203
Wisconsin	2.813	3.136	3.502	3.172
Wyoming	2.964	3.151	3.377	3.417

Source: AAA's Daily Gas Prices, National Average, State Prices and Compare Prices <<http://gasprices.aaa.com/>> accessed July 19, 2018; and calculations by the Hawaii Department of Business, Economic Development & Tourism.

Table 14.17-- CENTRAL BUSINESS DISTRICT PARKING RATES FOR HONOLULU AND THE UNITED STATES AVERAGE: 2012

[Survey only includes covered and underground garages in prime central business districts (CBD) in 56 markets in North America, with 44 of them in the U.S. Parking rate data were collected during the month of June 2012 and includes all relevant taxes. Sources include third parties, owners/operators and Colliers International. For reserved parking, the customer is guaranteed the same space for every entry. For unreserved parking, the customer is guaranteed a space upon entry. For daily parking, the customer is permitted to park for a full day and is not impacted by "early bird" restrictions]

Category 1/	Segment	Honolulu	United States average	Honolulu as percent of United States average
Monthly unreserved	Parking rate – high	255.00	226.84	112.4
Monthly unreserved	Parking rate – low	195.00	108.06	180.5
Monthly unreserved	Parking rate – median	230.00	166.26	138.3
Monthly reserved	Parking rate – high	395.00	273.41	144.5
Monthly reserved	Parking rate – low	287.96	137.67	209.2
Monthly reserved	Parking rate – median	350.00	196.21	178.4
Daily parking	Rate – high	75.00	27.13	276.4
Daily parking	Rate – low	21.00	9.64	217.8
Daily parking	Rate – median	42.00	17.19	244.3
Hourly parking	Rate – high	10.00	9.73	102.8
Hourly parking	Rate – low	1.50	2.71	55.4
Hourly parking	Rate – median	6.50	5.77	112.7
Garages offering additional services (percent)		5	23.2	21.6
Garages with waiting lists (percent)		5	6.2	80.6
Typical wait period (number of months)		2.0	9.3	(X)
Availability of parking		2/ Fair	(X)	(X)
Additional garages within next 24 months		-	11	(X)
Parking spots to be added		-	4,042	(X)

X Not applicable.

1/ 'Early Bird' refers to discounted parking offered to those that park before the work day begins. Both 'Early Bird' and 'Hourly metered parking' were tabulated separately in previous reports but not in 2009 to 2011.

2/ Refers to parking garages usually full Monday to Friday and on weekends during special events.

Source: Colliers International North America, "2012 CBD Parking rates, North America, Central Business District, Parking Rate Survey" <<http://www.colliers.com/Country/UnitedStates/Research>> accessed July 7, 2012 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 14.18-- TOP 50 DESTINATION CAR RENTAL RATES IN THE UNITED STATES: 2015

[The table below compares car rental rates of 50 destinations in the United States. The prices shown reflect the average daily rate for the cheapest available rental car in each destination during the period spanning October 1, 2014 through September 30, 2015. Each city's main airport was chosen as the Pick-Up and Drop-Off location. Rank of 1 assigned to the highest car rental rate]

Rank	City and state	Rate (dollars)	Rank	City and state	Rate (dollars)
1	Philadelphia	65	26	Dallas	40
2	New York City	61	27	Buffalo	39
3	Detroit	58	27	Denver	39
3	Indianapolis	58	29	Honolulu	38
5	Austin	56	30	Minneapolis	37
6	Charlotte	55	30	San Antonio	37
7	Cincinnati	53	30	Salt Lake City	37
7	St. Louis	53	30	Atlanta	37
9	Baltimore	52	30	Pittsburgh	37
9	Cleveland	52	35	Sacramento	36
11	New Orleans	51	36	Oakland	35
11	Boston	51	37	Seattle	34
13	Kansas City	50	38	San Jose	33
14	Memphis	49	39	Savannah	32
14	Chicago	49	40	Las Vegas	31
14	Reno	49	41	Los Angeles	29
17	Nashville	48	41	Fort Lauderdale	29
17	Portland	48	41	Jacksonville	29
19	Tucson	47	41	San Diego	29
20	Milwaukee	46	45	Myrtle Beach	28
21	Anchorage	45	45	Tampa	28
21	Houston	45	47	Orlando	27
23	Albuquerque	44	48	San Francisco	26
24	Phoenix	41	48	Charleston	26
24	Washington	41	50	Miami	20

Source: CheapCarRental "The Most Expensive Car Rental Destinations in the USA" (October 1, 2015) <<http://www.cheapcarrental.net/press/usa2015.html>> accessed October 28, 2015.

**Table 14.19-- CAR RENTAL RATES FOR 30 MAJOR
UNITED STATES CITIES: THANKSGIVING PREMIUM 2017**

[The car rental rates of 30 major U.S. destinations were established on November 12, 2017 via a leading car rental comparison engine for the long Thanksgiving weekend, November 21 to 25, 2017. Regular rates reflect the average car rental prices for November. Each city's main airport was chosen as the pick-up and drop-off location. Rank of 1 assigned to the highest car rental rate]

Rank	City	Rate (dollars)	'Holiday' premium (percent)
1	New York City	116	125
2	Boston	74	24
3	Denver	64	18
4	Atlanta	62	84
5	Dallas	61	43
6	New Orleans	60	21
7	Chicago	60	47
8	Kansas City	60	12
9	Pittsburgh	56	21
10	Detroit	55	2
11	Washington D.C.	53	14
12	Charlotte	52	64
13	Portland	51	27
14	Baltimore	50	55
15	St Louis	49	43
16	Tampa	49	89
17	Minneapolis	49	5
18	Cleveland	46	7
19	Seattle	45	117
20	Houston	44	-6
21	Phoenix	44	47
22	San Francisco	44	38
23	Philadelphia	40	2
24	San Antonio	39	-25
25	Honolulu	39	37
26	Las Vegas	37	89
27	Orlando	30	12
28	San Diego	26	2
29	Miami	22	47
30	Los Angeles	21	-30

Source: CheapCarRental "The most expensive car rental destinations for Thanksgiving " (November 21, 2017) <<https://www.cheapcarrental.net/press/thanksgiving2017.html>> accessed April 17, 2018.

Table 14.20-- AVERAGE ANNUAL AUTO INSURANCE RATES AND AS PERCENT OF MEDIAN ANNUAL HOUSEHOLD INCOME FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: JUNE 2012

[Median car insurance rates are determined by a Quadrant Information Services and were based on actual customer profiles of online car insurance shoppers that can include multiple drivers, multiple vehicles and other variables. Income data are from the 2010 Census and car insurance data collected June 2012. Ranking based on car insurance as highest percent of household income]

Rank	State	Median price of annual car insurance	Median annual household income	Car insurance as percent of household income
1	Michigan	4,490	56,101	8.00
2	Louisiana	2,912	52,456	5.55
3	Kentucky	2,292	50,392	4.55
4	West Virginia	2,074	48,927	4.24
5	Mississippi	1,840	45,484	4.05
6	Arkansas	1,722	47,049	3.66
7	Delaware	2,456	68,746	3.57
8	New York	2,334	65,897	3.54
9	Nevada	2,070	60,192	3.44
10	Florida	1,784	53,093	3.36
11	District of Columbia	2,570	77,514	3.32
12	South Carolina	1,682	51,704	3.25
13	Rhode Island	2,132	67,814	3.14
14	Arizona	1,724	55,353	3.12
15	New Jersey	2,556	82,427	3.10
16	Oklahoma	1,610	51,958	3.10
17	Georgia	1,632	55,209	2.96
18	South Dakota	1,772	59,987	2.95
19	Pennsylvania	1,828	61,890	2.95
20	Alabama	1,476	50,429	2.93
21	Tennessee	1,452	51,083	2.84
22	Minnesota	1,924	69,625	2.76
23	Missouri	1,550	56,214	2.76
24	Illinois	1,716	65,417	2.62
25	New Mexico	1,306	51,020	2.56
26	Texas	1,420	56,575	2.51
27	Montana	1,354	54,507	2.48
28	Idaho	1,290	52,342	2.47
29	Connecticut	1,984	81,246	2.44
30	Maryland	2,030	83,137	2.44
31	Kansas	1,480	61,013	2.43
32	Colorado	1,562	67,800	2.30

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Table 14.20-- AVERAGE ANNUAL AUTO INSURANCE RATES AND AS PERCENT OF MEDIAN ANNUAL HOUSEHOLD INCOME FOR THE 50 STATES AND THE DISTRICT OF COLUMBIA: JUNE 2012 -- Con.

Rank	State	Median price of annual car insurance	Median annual household income	Car insurance as percent of household income
33	Indiana	1,268	55,368	2.29
34	Wisconsin	1,400	62,088	2.26
35	Nebraska	1,348	60,812	2.22
36	Vermont	1,380	62,575	2.21
37	Washington	1,458	67,328	2.17
38	North Dakota	1,384	65,207	2.12
39	Wyoming	1,394	65,841	2.12
40	Utah	1,270	61,618	2.06
41	Ohio	1,128	56,518	2.00
42	Maine	1,160	58,197	1.99
43	Virginia	1,444	72,476	1.99
44	California	1,304	65,481	1.99
45	New Hampshire	1,484	74,634	1.99
46	Iowa	1,202	60,917	1.97
47	Oregon	1,108	56,661	1.96
48	Alaska	1,348	76,962	1.75
49	Hawaii	1,244	76,134	1.63
50	North Carolina	860	52,920	1.63
51	Massachusetts	1,128	78,653	1.43

Source: CarInsurance.com "10 states where car insurance really bites your budget" <http://www.carinsurancequotes.com/car_insurance-costs> accessed July 30, 2012.

Table 14.21-- AVERAGE ANNUAL AUTO INSURANCE RATES FOR THE 50 STATES: 2018

[Average cost of car insurance from 6 of the largest auto insurance companies in the United States: Allstate, Farmers, GEICO, Nationwide, Progressive and State Farm. The premiums assume the policyholder is a 40-year-old male buying full coverage and commuting 12 miles to work each day. The policy purchased is a 100/300/50 (\$100,000 for individual injury liability, \$300,000 total bodily injury per accident, and \$50,000 for property damage), with a \$500 deductible on collision and comprehensive coverage]

Rank	State	Average price of annual car insurance	Rank	State	Average price of annual car insurance
1	Michigan	2,551	26	Arkansas	1,399
2	West Virginia	2,518	27	Tennessee	1,397
3	Georgia	2,201	28	Nevada	1,388
4	Rhode Island	2,020	29	Mississippi	1,385
5	Montana	2,013	30	New Mexico	1,371
6	Louisiana	1,971	31	Illinois	1,370
7	California	1,962	32	Minnesota	1,360
8	New Jersey	1,905	33	Kansas	1,358
9	Florida	1,830	34	Oregon	1,333
10	Maryland	1,810	35	Nebraska	1,317
11	North Dakota	1,710	36	South Carolina	1,316
12	Connecticut	1,638	37	Arizona	1,222
13	Texas	1,620	38	Missouri	1,207
14	Alaska	1,605	39	Indiana	1,202
15	Massachusetts	1,604	40	Utah	1,192
16	Delaware	1,580	41	New York	1,173
17	Oklahoma	1,568	42	Vermont	1,149
18	Colorado	1,558	43	Virginia	1,114
19	South Dakota	1,557	44	Wisconsin	1,087
20	Wyoming	1,541	45	North Carolina	1,060
21	Alabama	1,529	46	Iowa	1,058
22	Kentucky	1,503	47	Idaho	1,053
23	Washington	1,499	48	New Hampshire	983
24	Pennsylvania	1,440	49	Maine	964
25	Hawaii	1,400	50	Ohio	926

Source: MyCarInsurance123 "Average Car Insurance Rates By State 2018"
 <<https://www.mycarinsurance123.com/average-car-insurance-rates/>> accessed July 14, 2018.

Table 14.22-- AVERAGE MONTHLY AND ANNUAL AUTO INSURANCE RATES FOR EACH OF THE 50 STATES AND THE DISTRICT OF COLUMBIA: 2018

[According to a study done by ValuePenguin, the price of car insurance can vary greatly depending on a number of factors including age, gender, marital status, driving record, years of driving experience, credit history, the type of car you drive, your claims history, and more. This study does not standardize on one combination of factors but rather on the average policyholder's premium in each state]

Rank 1/	State	Average price of car insurance		Rank 1/	State	Average price of car insurance	
		Monthly	Annual			Monthly	Annual
1	Michigan	213	2,551	26	Hawaii	117	1,400
2	West Virginia	210	2,518	28	Nevada	116	1,388
3	Georgia	183	2,201	28	Tennessee	116	1,397
4	Dist. of Colum.	177	2,127	30	Mississippi	115	1,385
5	Montana	168	2,013	31	Illinois	114	1,370
5	Rhode Island	168	2,020	31	New Mexico	114	1,371
7	California	164	1,962	33	Kansas	113	1,358
7	Louisiana	164	1,971	33	Minnesota	113	1,360
9	New Jersey	159	1,905	35	Oregon	111	1,333
10	Florida	153	1,830	36	Nebraska	110	1,317
11	Maryland	151	1,810	36	South Carolina	110	1,316
12	North Dakota	143	1,710	38	Arizona	102	1,222
13	Connecticut	137	1,638	39	Missouri	101	1,207
14	Texas	135	1,620	40	Indiana	100	1,202
15	Alaska	134	1,605	41	Utah	99	1,192
15	Massachusetts	134	1,604	42	New York	98	1,173
17	Delaware	132	1,580	43	Vermont	96	1,149
18	Oklahoma	131	1,568	44	Virginia	93	1,114
19	Colorado	130	1,558	45	Wisconsin	91	1,087
19	South Dakota	130	1,557	46	Idaho	88	1,053
21	Wyoming	128	1,541	46	Iowa	88	1,058
22	Alabama	127	1,529	46	North Carolina	88	1,060
23	Kentucky	125	1,503	49	New Hampshire	82	983
23	Washington	125	1,499	50	Maine	80	964
25	Pennsylvania	120	1,440	51	Ohio	77	926
26	Arkansas	117	1,399				

1/ Rank of average monthly premium.

Source: Business Insider "Americans spend an average of \$125 a month on car insurance — here's what people pay in every state"

<<http://www.businessinsider.com/average-cost-car-insurance-in-every-state-ranked-2018-3>>
accessed July 14, 2018.

Table 14.23-- COST OF LIVING GLOBAL RANK FOR SELECTED MAJOR CITIES IN THE UNITED STATES: 2008 TO 2018

[The survey, conducted in March, covers 209 to 375 cities worldwide and measures the comparative cost of over 200 items in each location, including housing, food, clothing, utilities, transportation, and entertainment costs. The higher the index, the lower the rank where a rank of 1 indicates the most expensive city. New York City = 100.0]

City and state	Global rank										
	2008	2009	2010	2011	2012	2013 1/	2014 1/	2015	2016	2017	2018
Atlanta, GA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	147	103	78	83	95
Boston, MA	(NA)	(NA)	(NA)	(NA)	(NA)	123	109	64	47	51	70
Chicago, IL	84	50	(NA)	(NA)	(NA)	(NA)	85	42	34	31	51
Cleveland, OH	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	167	133	110	100	125
Dallas, TX	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	125	77	62	62	85
Detroit, MI	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	160	122	103	95	116
Honolulu, HI	77	41	(NA)	(NA)	(NA)	117	97	52	37	35	54
Houston, TX	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	143	92	75	74	86
Los Angeles, CA	55	23	55	(NA)	(NA)	(NA)	62	36	27	23	35
Miami, FL	75	45	(NA)	(NA)	(NA)	114	98	56	45	41	60
Minneapolis, MN	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	156	115	91	86	102
Morristown, NJ	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	132	88	71	81	97
New York City, NY	22	8	27	32	33	24	16	16	11	9	13
Pittsburgh, PA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	162	130	112	107	125
Portland, OR	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	166	135	117	115	130
San Francisco, CA	78	34	(NA)	(NA)	(NA)	92	74	37	26	21	28
Seattle, WA	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	153	106	83	76	90
St. Louis, MO	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	161	130	108	100	122
Washington, DC	(NA)	(NA)	111	(NA)	(NA)	(NA)	92	50	38	39	56
White Plains, NY	89	31	(NA)	(NA)	(NA)	(NA)	81	71	61	64	79
Winston Salem, NC	(NA)	(NA)	197	(NA)	(NA)	(NA)	182	157	147	140	161

Continued on next page.

Table 14.23-- COST OF LIVING GLOBAL RANK FOR SELECTED MAJOR CITIES IN THE UNITED STATES: 2008 TO 2018 -- Con.

NA Not available.

1/ Originally not available in the News Release, the rankings were derived from data in the following year's release.

Source: Mercer LLC, "Worldwide Cost of Living Survey 2009 – City ranking" (July 7, 2009) <<http://www.mercer.com/summary.htm?idContent=1311145>> accessed July 17, 2009; Ibid. "Worldwide Cost of Living Survey 2010 - City rankings" (June 29, 2010) <http://www.mercer.com/costoflivingpr#City_rankings> accessed July 8, 2010; Ibid. 2011 (July 12, 2011) <http://www.mercer.com/costoflivingpr#City_rankings> accessed July 12, 2011; Ibid. "Worldwide Cost of Living Survey 2012 – city ranking" (June 12, 2012) <http://www.mercer.com/costoflivingpr#City_rankings> accessed July 9, 2012; Ibid. 2013 "African, European, and Asian Cities Dominate the Top 10 Most Expensive Locations for Expatriates" (July 23, 2013) <http://www.mercer.com/costoflivingpr#City_rankings> accessed July 30, 2013; Ibid. 2014, (July 10, 2014) <http://www.mercer.com/newsroom/cost-of-living-survey.html#City_rankings> accessed July 10, 2014; "2015 Cost of Living Rankings" (June 17, 2015) <<http://www.mercer.com/newsroom/cost-of-living-survey.html>> accessed July 2, 2015; Ibid. 2016 "Continued Demand for Mobility in the Global Workforce Challenged by Cost of Expatriate Packages" (June 22, 2016) <<http://www.mercer.com/newsroom/continued-demand-for-mobility-in-the-global-workforce-challenged-by-cost-of-expatriate-packages.html>> accessed July 12, 2016; Ibid 2017 "Despite Worldwide Changes, Multinationals Focus on Mobile Workforces to Support Career Growth and Ensure Competitiveness" (June 21, 2017) <<https://www.mercer.com/newsroom/cost-of-living-2017.html>> accessed July 1, 2017; and "Mercer's Annual Cost of Living Survey Finds Asian, European, and African Cities Most Expensive Locations for Employees" (June 26, 2018) <<https://www.mercer.com/newsroom/cost-of-living-2018.html>> accessed June 27, 2018.

Table 14.24-- TOP 10 MOST EXPENSIVE AND 10 CHEAPEST STATES TO LIVE: 2018

[CNBC considered basic items in the most expensive and cheapest areas of the state. Average price data based on Council for Community and Economic Research C2ER Cost of Living Index, 2017 Annual Average. See also <<http://coli.org/About/>>]

Rank	State	Metro area 1/	Average home price	Half gallon of milk	Ribeye steak	Monthly energy bill	Doctor visit
Most expensive							
1	Hawaii	Honolulu	1,044,462	3.64	13.06	432.62	127.14
2	California	San Francisco- Redwood City- South San Francisco	1,182,092	2.72	12.94	235.44	142.61
3	Massachusetts	Boston	604,205	2.49	12.14	217.29	151.91
4	New York	Manhattan	1,739,037	3.24	12.88	210.06	105.00
5	Alaska	Juneau	509,408	2.81	13.59	262.85	193.50
6	Oregon	Portland	507,368	2.06	12.94	145.24	107.61
7	Maryland	Bethesda-Gaithers- burg-Frederick	746,332	2.32	13.62	176.24	94.00
8	Connecticut	Bridgeport-Stamford- Norwalk Metro	681,279	1.96	12.74	200.20	124.71
9	Rhode Island	Providence	435,485	2.39	12.39	212.39	146.33
10	New Jersey	Bergen-Passaic counties	555,231	2.30	11.80	189.76	97.06
Cheapest							
1	Mississippi	Gulfport-Biloxi- Pascagoula Metro	214,317	2.32	11.26	114.10	87.58
2	Arkansas	Little Rock	320,278	2.15	11.69	140.50	121.67
3	Oklahoma	Tulsa	219,227	2.17	10.80	147.64	109.67
4	Michigan	Detroit-Dearborn- Livonia Metro	295,582	1.73	12.84	150.83	97.81
5	Tennessee	Chattanooga	348,413	2.09	12.04	132.07	128.20
6	Missouri	Columbia	292,049	2.14	12.08	162.17	127.06
7	Kansas	Topeka	273,940	1.95	10.49	161.88	97.33
8	Alabama	Huntsville	243,562	1.71	10.82	155.88	93.11
9	Georgia	Atlanta	290,041	1.98	12.05	(NA)	105.10
10	Indiana	Bloomington	279,097	1.83	12.64	150.52	75.18

NA Not available.

1/ Average home price applies to indicated Metro area.

Source: CNBC, "America's Top States for Business - Most Expensive Places to Live in America" (July 10, 2018; <<https://www.cnbc.com/2018/06/28/these-are-americas-most-expensive-states-to-live-in-for-2018.html>> accessed July 10, 2018; and "America's 10 cheapest states to live in" <<https://www.cnbc.com/2018/06/28/americas-cheapest-states-to-live-in-2018.html>> accessed July 10, 2018.

**Table 14.25-- PAY DIFFERENTIALS AND COST OF LIVING INDEXES FOR
FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.,
BY COUNTY: 1996 TO 2018**

[As of April 19, 2018. Maui includes Kalawao]

Effective or survey date	Allowance category	Honolulu	Hawaii	Maui	Kauai
ALLOWANCE RATES					
March 25, 1997	All employees 1/	22.50	15.00	22.50	22.50
December 2, 1997	All employees 1/	22.50	15.00	22.50	22.50
October 21, 1998	All employees 2/	25.00	15.00	22.50	22.50
October 3, 2000	All employees 3/	25.00	16.50	23.75	23.25
November 9, 2001	All employees 4/	25.00	16.50	23.75	23.25
June 30, 2008	All employees 5/	25.00	18.00	25.00	25.00
COLA AND LOCALITY PAY RATES					
January 1, 2009	COLA 5/	25.00	18.00	25.00	25.00
	Locality rate 6/	0.00	0.00	0.00	0.00
January 1, 2010	COLA 6/ 7/	20.94	14.26	20.94	20.94
	Payable locality rate 6/	4.72	4.72	4.72	4.72
	Full locality rate 6/	14.16	14.16	14.16	14.16
January 1, 2011	COLA 6/ 8/	16.07	9.76	16.07	16.07
	Payable locality rate 6/	11.01	11.01	11.01	11.01
	Full locality rate 6/	16.51	16.51	16.51	16.51
January 1, 2012	COLA 6/ 8/	12.25	6.24	12.25	12.25
	Payable locality rate 6/	16.51	16.51	16.51	16.51
	Full locality rate 6/	16.51	16.51	16.51	16.51
January 1, 2016	COLA 6/	12.05	6.05	12.05	12.05
	Locality rate 6/	16.81	16.81	16.81	16.81
January 1, 2017	COLA 6/	11.32	5.39	11.32	11.32
	Locality rate 6/	17.92	17.92	17.92	17.92
January 1, 2018	COLA 6/	10.99	5.08	10.99	10.99
	Locality rate 6/	18.43	18.43	18.43	18.43
INDEXES					
1996 Survey	Cost of Living Index 9/	121.95	111.89	121.36	121.36
1998 Survey	Cost Comparison Index 10/	124.51	110.89	120.32	117.19
2007 Survey	Cost of Living Index 11/	121.37	111.71	123.62	118.14
2007 Survey, 2008 adj.	Cost Comparison Index 11/	121.40	111.74	123.65	118.17

Continued on next page.

Table 14.25-- PAY DIFFERENTIALS AND COST OF LIVING INDEXES FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C., BY COUNTY: 1996 TO 2018 -- Con.

- 1/ Interim Rule issued on March 25 and Final Rule issued on December 2, 1997.
 - 2/ As Interim Rule on October 21 and as corrected on November 13, 1998. Final Rule published July 17, 2000, effective August 16, 2000. Current law prohibits reduction in COLA rates through December 31, 2000. As part of the COLA Research in the litigation Caraballo et al vs United States and as requested by Congress, an Interim Rates and Survey Schedule was announced but not yet enacted. The rates, as of October 1, 2000, are raised for Hawaii and Maui to 16.50 and 23.75 percent respectively. The Interim Rates as well as those for Kauai may increase further depending upon the results of the 1998 price surveys and the surveys conducted under New Regulations. Also see OMP, Non-Foreign Area Cost-of-Living Allowances, Special COLA Research Announcement, July 17, 2000 and <<http://www.opm.gov/oca/cola/html/cola-n.htm>>.
 - 3/ Interim rule and invitation for comment issued in Federal Register: Vol. 65, No. 192.
 - 4/ Final rule issued in Federal Register: November 9, 2001 (Volume 66, Number 218).
 - 5/ Final rule issued in Federal Register: May 29, 2008 (Volume 73, Number 104).
 - 6/ As provided under the Nonforeign Area Retirement Equity Assurance Act of 2009 (NAREAA) (subtitle B of title XIX of the National Defense Authorization Act for Fiscal Year 2010 (Public Law 111-84, October 28, 2009)), the locality rate for each nonforeign area will be set at two-thirds of the applicable locality rate in January 2011 and the full applicable locality rate in January 2012. Employees in nonforeign areas, e.g. Hawaii, have corresponding reductions in their cost-of-living allowances (COLAs) when locality rates increase.
 - 7/ 2010 COLA rates are also shown in the Compensation Policy Memorandum posted at <<http://www.chcoc.gov/Transmittals/TransmittalDetails.aspx?TransmittalID=2732>>.
 - 8/ 2011 COLA rates are also shown in the Compensation Policy Memorandum posted at <<http://www.chcoc.gov/Transmittals/TransmittalDetails.aspx?TransmittalID=3300>>.
 - 9/ Washington, D.C. living costs=100. Based on a survey of comparative costs for Federal employees in February 1996. The Survey was conducted and indexes calculated by Runzheimer International. The detailed methodology is described in the *Federal Register*: March 25, 1997.
 - 10/ Similar explanation to footnote 8/ except the survey period was 1998 and publication in the Federal Register was July 17, 2000.
 - 11/ Similar explanation to footnote 8/ except the survey period was 2007 and publication in the Federal Register was May 29, 2008.
- Source: U.S. Office of Personnel Management, *Federal Register Online* via GPO Access <<http://www.wais.access.gpo.gov>>, Vol. 62, No. 57, March 25, 1997 (pp. 14187-14189); Vol. 62, No. 231, December 2, 1997 (pp. 63630-63631); Vol. 63, No. 203, October 21, 1998 (pp. 56430-56431); Vol. 63, No. 219, November 13, 1998 (p. 63385) and <<http://www.opm.gov/oca/cola/html/c-rates.html>> accessed May 15, 2000. OMP-announced Federal COLA Retro Settlement, 06-23-00 and further developments <<http://www.opm.gov/oca/compmemo/2000/2000-10.htm>>. OMP, Non-Foreign Area Cost-of-Living Allowances, Special COLA Research Announcement, July 17, 2000; OMP, Cost-of-Living Allowances Vol. 65, No. 192, October 3, 2000 (58901-58902) and <<http://www.opm.gov/oca/cola/html/c-rates.html>> accessed June 30, 2007; and *Federal Register*, Vol. 73, No. 104, May 29, 2008 (pp. 30727- 30734) <<http://edocket.access.gpo.gov/2008/pdf/E8-12020.pdf>> accessed May 29, 2008; OPM "Nonforeign Area Cost-of-Living Allowances" <<http://www.opm.gov/oca/cola/rates.asp>> accessed July 8, 2011; OPM, Memorandum for Heads of Executive Departments and Agencies "Executive Order for 2011 Pay Schedules" (December 20, 2010) <<http://www.chcoc.gov/Transmittals/TransmittalDetails.aspx?TransmittalID=3300>> accessed July 11, 2012; OPM, "COLA and Locality Pay Rates in Nonforeign Areas 2009-2015" <<https://www.opm.gov/policy-data-oversight/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates>> accessed July 22, 2015; "COLA and Locality Pay Rates in Nonforeign Areas 2016" <<https://www.opm.gov/policy-data-oversight/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates>> accessed June 6, 2016; OPM, "COLA and Locality Pay Rates in Nonforeign Areas 2017" <<https://www.opm.gov/policy-data-oversight/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates>> accessed April 18, 2017; OPM, "COLA and Locality Pay Rates in Nonforeign Areas 2018" <<https://www.opm.gov/policy-data-oversight/pay-leave/pay-systems/nonforeign-areas/#url=COLA-Rates>> accessed April 19, 2018.

Table 14.26-- COST OF LIVING ALLOWANCE INDEXES FOR MILITARY IN HAWAII RELATIVE TO CONTINENTAL UNITED STATES, BY ISLAND

[As of July 1, 2018. Index number continental United States=100]

Effective date	Locality	Locality code 1/	Index
September 1, 2017	Hawaii (island)	HI001	122
June 16, 2018	Kauai	HI003	130
June 16, 2018	Maui	HI005	130
June 16, 2018	Molokai	HI007	130
September 1, 2017	Oahu	HI009	120
November 8, 1989	Other islands	HI999	(1/)

1/ Locality Code is assigned by the Department of Defense to identify each area entitled to COLA. Location code "HI 999 - Other islands" is a valid location but COLA is not currently prescribed for this Hawaii location.

Source: U.S. Department of Defense, Defense Travel Management Committee, Overseas Cost-of-Living Program, "Changes Effective 1 July 2018, Table III - Cost-of-Living Allowance (COLA) Indexes", p.5 <http://www.defensetravel.dod.mil/Docs/perdiem/browse/Allowances/Appendix_J_Overseas_COLA_Tables/2018-COLA-Indexes/07-01-18_COLA_Indices.pdf> accessed July 6, 2018.

Table 14.27-- PER DIEM RATES FOR MILITARY IN HAWAII, BY ISLAND OR INSTALLATION

[As of July 1, 2018. In dollars per day. To calculate a per diem rate: maximum lodging plus meals (local, proportional, or government) plus incidental rate (local or onbase) as specified in the travel orders. Once effective, the rates apply January 1 - December 31, unless otherwise specified]

Locality	Maximum per diem rate 1/	Lodging	Local meals rate	Proportional meals rate	Local incidental rate 2/	Effective date
Camp H.M. Smith	315	177	111	63	27	August 1, 2017
EASTPAC Naval COMP TELE Area	315	177	111	63	27	August 1, 2017
Ft. DeRussey	315	177	111	63	27	August 1, 2017
Ft. Shafter	315	177	111	63	27	August 1, 2017
Hickam Air Force Base	315	177	111	63	27	August 1, 2017
Hilo (Island of Hawaii)	316	199	94	54	23	August 1, 2017
Honolulu	315	177	111	63	27	August 1, 2017
Isle of Hawaii: Hilo	316	199	94	54	23	August 1, 2017
Isle of Hawaii: Other 3/	350	189	129	72	32	August 1, 2017
Isle of Hawaii: Other 4/	400	239	129	72	32	August 1, 2017
Isle of Kauai	460	325	108	61	27	April 1, 2016
Isle of Maui	429	269	128	71	32	August 1, 2017
Isle of Oahu	315	177	111	63	27	August 1, 2017
Joint Base Pearl Harbor- Hickam	315	177	111	63	27	August 1, 2017
Kapolei	315	177	111	63	27	August 1, 2017
Kekaha Pacific Missile Range Fac.	460	325	108	61	27	April 1, 2016
Kilauea Military Camp	316	199	94	54	23	August 1, 2017
Lanai	365	254	89	52	22	August 1, 2017
Lihue (Island of Kauai)	460	325	108	61	27	April 1, 2016
Lualualei Naval Magazine	315	177	111	63	27	August 1, 2017
Marine Corps Base Hawaii	315	177	111	63	27	August 1, 2017
Molokai	291	176	92	53	23	August 1, 2017
NOSC Pearl Harbor 5/	315	177	111	63	27	August 1, 2017
Pearl Harbor	315	177	111	63	27	August 1, 2017
PMRF Barking Sands	460	325	108	61	27	October 1, 2016
Schofield Barracks	315	177	111	63	27	August 1, 2017
Tripler Army Medical Center	315	177	111	63	27	August 1, 2017
Wahiawa NCTAMS PAC 6/	315	177	111	63	27	August 1, 2017
Wheeler Army Airfield	315	177	111	63	27	August 1, 2017
Other 7/	316	199	94	54	23	August 1, 2017

1/ For reimbursement of subsistence expenses incurred during official OCONUS (Outside Continental United States) travel.

2/ The standard onbase incidental rate is \$3.50 OCONUS-wide.

3/ This rate is effective for the season beginning March 26 through December 17.

4/ This rate is effective for the season beginning December 18 through December 31.

5/ Naval Operations Support Center Pearl Harbor (NOSC Pearl Harbor).

6/ Wahiawa Naval Computer and Telecommunications Area Master Station, Pacific (NCTAMS PAC).

7/ Use this rate if neither the city nor military installation is listed.

Source: U.S. Department of Defense, Defense Management Travel Office, "Maximum Per Diem Rates Outside The Continental United States Travel Per Diem Allowances, Effective 01 July 2018"

<<http://www.defensetravel.dod.mil/site/perdiem.cfm>> accessed July 6, 2018.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks, savings and loans, and other financial institutions, insurance, fires, and business firms.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs, the Hawaii State Department of Taxation, county fire departments, major island banks, local health insurance plans, and the Hawaii Credit Union League. The U.S. Census Bureau also provides data from their Economic Censuses, County Business Patterns, and Local Employment Dynamics programs. *Historical Statistics of Hawaii*, Sections 22 and 23, provides information for earlier periods. Comparable national data appear in Sections 15 and 25 of the *Statistical Abstract of the United States: 2012*.

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Narrative

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15.32	Business Inquiries and Complaints Through the Better Business Bureau, by Type of Industry: 2017
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**Table 15.01-- NUMBER OF STATE CHARTERED FINANCIAL INSTITUTIONS:
1998 TO 2015**

[Only state chartered banks are included in this table which differs from tables in the *Data Books* prior to 2009. Tables in the previous *Data Books* included both state and federally chartered banks. This table includes the main offices, but excludes out-of-State branches of Hawaii-based institutions. As of December 31 unless otherwise specified]

Year	Banks		Savings and loan associations		Financial services loan companies	
	Firms	Locations	Associations	Locations	Firms	Locations
1998	5	177	2	29	38	126
1999	5	173	2	29	35	103
2000	5	180	2	19	32	98
2001	5	182	2	19	33	93
2002	5	181	1	2	29	88
2003	5	178	1	2	29	93
2004	5	178	1	5	24	88
2005	4	169	1	4	22	96
2006	6	173	1	4	21	99
2007	6	172	1	4	17	67
2008	6	177	1	5	16	53
2009	6	174	1	5	14	51
2010	5	187	(NA)	(NA)	(NA)	(NA)
2011	5	190	(NA)	(NA)	(NA)	(NA)
2012	5	189	(NA)	(NA)	(NA)	(NA)
2013	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2014	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2015 1/	4	(NA)	(NA)	(NA)	2/ 8	(NA)

NA Not available.

1/ As of September 16, 2015.

2/ State regulated but may not be incorporated here so institution may not be state chartered.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, "Comparative Statements of Conditions" (semi-annual) <<http://cca.hawaii.gov/dfi/>> accessed March 21, 2014, "Financial Institutions - 09.15.15" <<http://cca.hawaii.gov/dfi/files/2012/11/Financial-Institutions-09.15.2015.pdf>> accessed June 13, 2016 and records.

Table 15.02-- FINANCE AND INSURANCE SECTOR (NAICS 52): 2016

[Excludes data on self-employed individuals, employees of private households, railroad employees, agricultural production employees and most government employees.
 Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Major group	Number of establishments 1/	Number of employees 2/	Annual payroll (\$1,000)
52	Total	1,455	19,060	1,288,943
522	Credit intermediation and related activities	671	9,780	633,971
5221	Depository credit intermediation	451	8,785	558,138
52211	Commercial banking	216	4,970	339,376
52212	Savings institutions	94	1,646	108,914
52213	Credit unions	141	2,169	109,848
5222	Nondepository credit intermediation	110	589	53,611
52221	Credit card issuing	1	(3/)	(D)
52222	Sales financing	4	17	1,127
52229	Other nondepository credit intermediation	105	547	51,159
522291	Consumer lending	7	38	2,668
522292	Real estate credit	79	440	45,503
522298	All other nondepository credit intermediation	18	67	2,856
5223	Activities related to credit intermediation	110	406	22,222
52231	Mortgage and nonmortgage loan brokers	43	146	13,338
523	Securities, commodity contracts, and other financial investments, and related activities	240	978	113,417
5231	Securities and commodity contracts intermediation and brokerage	102	560	75,816
52311	Investment banking and securities dealing	2	(4/)	(D)
52312	Securities brokerage	93	535	74,692
5239	Other financial investment activities	138	418	37,601
52391	Miscellaneous intermediation	22	64	5,182
52392	Portfolio management	52	218	20,900
52393	Investment advice	62	116	9,949
524	Insurance carriers and related activities	540	8,299	541,331
5241	Insurance carriers	145	5,578	365,522
52411	Direct life health & medical insurance carriers	72	4,183	258,155
524113	Direct life insurance carriers	32	400	51,864
524114	Direct health & medical insurance carriers	40	3,783	206,291
52412	Direct insurance (except life, health, and medical) carriers	72	1,394	107,282
5242	Agencies, brokerages, and other insurance related activities	395	2,721	175,809
52421	Insurance agencies and brokerages	354	1,960	124,589
525	Funds, trusts, and other financial vehicles	4	3	224

Continued on next page.

**Table 15.02-- FINANCE AND INSURANCE SECTOR (NAICS 52):
2016 -- Con.**

D Withheld to avoid disclosing data for individual companies.

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

3/ 20 to 99 employees.

4/ 0 to 19 employees.

Source: U.S. Census Bureau, *2016 County Business Patterns*

<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed July 9, 2018.

**Table 15.03-- CHARACTERISTICS OF THE FINANCE AND
INSURANCE SECTOR (NAICS 52): 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS) which replaced the 2007 NAICS used in the 2007 Economic Census]

NAICS code	Kind of business	Establishments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees 1/
52	Total	1,401	(2/)	1,144,625	18,686
522	Credit intermediation and related activities	680	(2/)	559,560	9,997
5221	Depository credit intermediation	481	(2/)	501,028	9,104
52211	Commercial banking	228	(3/)	311,657	5,468
52212	Savings institutions	96	(3/)	(D)	(4/)
52213	Credit unions	157	(D)	(D)	(4/)
5222	Nondepository credit intermediation	82	134,488	39,424	510
52222	Sales financing	2	(D)	(D)	(5/)
52229	Other nondepository credit intermediation	79	118,853	36,862	464
5223	Activities related to credit intermediation	117	70,750	19,108	383
52231	Mortgage and nonmortgage loan brokers	56	47,139	14,028	155
52232	Financial transaction, processing, reserve & clearinghouse activities	5	965	209	4
52239	Other activity related to credit intermediation	56	22,646	4,871	224
523	Securities, commodity contracts, and other finance investments and related activities	219	199,879	92,275	975
5231	Securities and commodity contracts intermediation and brokerage	104	123,731	55,836	543
52312	Securities brokerage	93	119,754	54,423	515
52313	Commodity contracts dealing	5	1,304	294	18
5239	Other financial investment activities	115	76,148	36,439	432
52391	Miscellaneous intermediation	21	12,951	3,832	59
52392	Portfolio management	48	35,371	19,101	188
52393	Investment advice	41	22,920	11,339	152
52399	All other financial investment activities	5	4,906	2,167	33
524	Insurance carriers and related activities	502	(2/)	492,790	7,714
5241	Insurance carriers	114	(3/)	324,279	4,668
52411	Direct life, health, and medical insurance carriers	58	(3/)	(D)	(6/)
52412	Direct insurance (except life, health, and medical) carriers	56	(3/)	(D)	(4/)
5242	Agencies, brokerages, and other insurance related activities	388	624,866	168,511	3,046
52421	Insurance agencies and brokerages	342	425,207	124,170	2,303
52429	Other insurance related activities	46	199,659	44,341	743

Continued on next page.

**Table 15.03-- CHARACTERISTICS OF THE FINANCE AND
INSURANCE SECTOR (NAICS 52): 2012 -- Con.**

D Withheld to avoid disclosing data for individual companies.

1/ Pay period including March 12.

2/ Not available or not comparable.

3/ Revenue not collected at this level of detail for multiestablishment firms.

4/ 1,000 to 2,499 employees.

5/ 20 to 99 employees.

6/ 2,500 to 4,999 employees.

Source: U.S. Census Bureau, 2012 Economic Census, "EC1252A1: Finance and Insurance: Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012 Hawaii" (March 2015) <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml?_ts=445486742893> accessed July 2, 2015.

**Table 15.04-- CHARACTERISTICS OF COMMERCIAL BANKS
HEADQUARTERED IN HAWAII: 2015 TO 2017**

[As of December 31. Federal Deposit Insurance Corporation insured banks with assets greater than \$100 million. Includes out-of-State branches and facilities of banks. Excludes data for banks with branches and facilities in Hawaii but headquartered outside Hawaii]

Subject 1/	2015	2016	2017
Number of institutions reporting	6	6	6
Total employees (full-time equivalent)	5,464	5,392	5,476
Aggregate condition and income data (In millions of dollars)			
Net income (year-to-date)	447	476	418
Total assets	41,201	42,824	44,602
Total loans and leases	22,661	25,003	26,827
Total deposits	34,917	36,976	38,724
Equity capital	4,445	4,239	4,395
Performance ratios (year-to-date) (%)			
Yield on earning assets	3.09	3.15	3.28
Net charge-offs to loans and leases	0.05	0.05	0.13
Return on assets	1.11	1.14	0.95
Return on equity	10.11	11.06	9.60
Condition ratios (%)			
Net loans and losses to assets	54.23	57.66	59.45
Loss allowances to:			
Loans and leases	1.40	1.25	1.16
Noncurrent loans and leases	418.58	631.73	761.42
Noncurrent loans and leases to total loans and leases	0.33	0.20	0.15

1/ Definition of terms may be found on the Federal Deposit Insurance Corporation website in their glossary.

Source: Federal Deposit Insurance Corporation, Division of Insurance and Research, "State Banking Performance Summary - FDIC-Insured Institutions" <https://www5.fdic.gov/qbp/qbp_report.asp?menuitem=STBL&TBL1=cb11state&TBL2=cb11state&TBL3=cb11state&ST1=NT&ST2=NT&ST3=NT&CALLYM1=N24> accessed July 14, 2018.

Table 15.05-- CREDIT UNIONS: 1999 TO 2017

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Loans (dollars)	Number of credit union members
1999	106	3,911,720,684	3,371,485,431	2,009,832,724	589,935
2000	102	4,104,126,744	3,525,977,325	2,179,039,874	612,249
2001	100	4,728,549,611	4,120,888,846	2,333,021,385	646,174
2002	101	5,396,606,043	4,741,630,738	2,457,737,063	679,056
2003	97	6,016,158,791	5,296,893,195	2,531,788,633	703,475
2004	97	6,442,599,837	5,676,421,713	2,826,290,922	729,097
2005	97	6,675,454,552	5,816,437,373	3,166,759,388	750,866
2006	96	6,727,084,367	5,812,940,245	3,444,264,686	776,744
2007	93	7,107,175,278	6,146,573,223	3,751,577,727	806,760
2008	91	7,558,379,638	6,603,223,228	4,011,002,386	809,200
2009	89	8,755,497,641	7,551,135,979	4,096,716,913	810,030
2010	85	9,070,205,477	8,039,549,284	4,024,058,221	810,401
2011	83	9,285,044,502	8,227,197,584	3,975,405,068	810,675
2012	78	9,524,855,175	8,412,531,313	3,823,937,131	801,036
2013	76	9,683,184,997	8,571,854,063	3,867,199,282	808,286
2014	70	9,866,946,668	8,693,351,538	4,008,308,459	809,637
2015	64	10,171,532,130	8,952,063,288	4,363,415,160	806,212
2016	61	1/ 10,609,942,669	9,324,690,317	4,708,314,368	811,786
2017	57	10,928,596,738	9,592,106,628	5,221,237,779	823,550

1/ Revised from previous *Data Book*.

Source: Hawaii Credit Union League, records.

**Table 15.06-- INSURANCE BUSINESS TRANSACTED IN HAWAII:
1998 TO 2016**

[Includes data for all insurance companies, life or other, licensed in Hawaii]

Year	Number of companies licensed in Hawaii, Dec. 31	Premiums paid (\$1,000)	Losses, claims and benefits paid (\$1,000)	Cumulative net investments in Hawaii, Dec. 31 1/ (\$1,000)
1998	979	1,955,457	1,352,865	4,792,872
1999	992	1,997,905	2,187,970	4,241,739
2000	997	2,115,812	1,912,430	3,836,913
2001	988	2,186,640	1,648,415	3,609,657
2002	989	2,429,982	1,500,930	3,433,944
2003	987	2,732,865	1,538,481	3,471,284
2004	953	2,912,186	1,869,570	4,330,020
2005	963	3,117,115	2,014,646	4,102,635
2006	967	3,475,130	2,694,150	5,368,663
2007	966	3,606,984	3,136,056	5,845,236
2008	990	3,459,682	2,621,815	5,506,338
2009	1,005	3,805,409	3,140,699	5,430,239
2010	1,009	4,013,738	3,319,787	5,527,425
2011	1,009	4,116,217	3,606,903	5,399,057
2012	1,015	4,255,592	3,632,614	6,554,126
2013	1,018	4,540,193	3,794,453	7,153,558
2014	1,025	4,727,440	4,104,006	8,707,305
2015	1,025	4,896,975	4,715,970	7,757,282
2016	1,034	5,036,610	4,147,963	8,270,671

1/ Excludes bank balances.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii* (annual) <cca.hawaii.gov/ins/reports/> accessed January 12, 2018.

**Table 15.07-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII:
1998 TO 2016**

[Includes fraternal benefit societies]

Year	Number of companies licensed in Hawaii, Dec. 31	Face value of policies written 1/ (\$1,000)	Insurance in force, Dec. 31 2/ (\$1,000)	Premiums 3/ (\$1,000)	Losses, claims, and benefits paid 3/ (\$1,000)
1998	485	7,237,492	63,999,905	485,295	661,743
1999	483	12,397,141	69,661,030	519,003	1,552,836
2000	478	9,802,583	73,452,956	615,360	1,168,646
2001	472	7,528,187	71,621,301	509,806	925,602
2002	461	8,497,926	77,883,570	546,095	792,006
2003	448	15,195,349	87,362,008	602,830	804,336
2004	433	9,650,742	91,221,745	549,083	1,057,134
2005	434	10,245,838	97,239,187	576,730	1,177,491
2006	429	10,250,274	97,128,330	630,068	1,795,645
2007	417	14,116,865	101,684,178	715,494	2,100,785
2008	419	9,763,779	102,791,146	674,799	1,545,860
2009	414	9,246,551	104,710,661	614,930	1,599,618
2010	409	9,115,587	105,633,782	641,641	1,683,320
2011	409	10,134,347	115,645,455	642,757	1,883,141
2012	407	11,395,055	119,008,658	665,436	1,834,494
2013	405	8,879,709	122,061,596	784,961	1,841,062
2014	404	8,537,744	123,651,863	730,642	1,985,723
2015	405	10,502,976	128,704,097	725,516	2,446,863
2016	403	9,750,321	132,133,730	741,276	1,839,340

1/ Includes insurance revived, increased, or transferred. Excludes annuities. Data not audited.

2/ Excludes annuities. Data not audited.

3/ Life insurance portion excludes annuities, but fraternal portion includes it.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii* (annual) <<http://cca.hawaii.gov/ins/reports/>> accessed January 12, 2018 and records.

Table 15.08-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 2016

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	5,036,609,885	1/ 4,147,963,162
Life 2/	733,029,794	1,832,706,142
Fraternal 2/	8,245,766	6,634,170
Fire, marine, casualty, and miscellaneous	4,035,029,939	2,307,536,854
Accident and health 3/	1,710,245,074	1,383,038,640
Fire	49,130,898	6,304,883
Allied lines	70,497,062	8,631,341
Multiple peril crop	1,542,500	898,181
Federal flood	34,033,143	2,095,338
Private flood	2,782,987	-
Farmowners multiple peril	384	-
Homeowners multiple peril	371,000,359	96,543,598
Commercial multiple peril (non-liability portion)	94,993,257	23,663,888
Commercial multiple peril (liability portion)	61,385,296	18,171,653
Mortgage guaranty	20,172,484	7,815,921
Ocean marine	15,175,819	14,016,373
Inland marine	94,223,310	34,617,005
Financial guaranty	3,942,464	-
Medical malpractice	18,643,037	8,352,019
Earthquake	6,178,199	-
Workers' compensation	279,198,764	128,939,202
Other liability - occurrence	133,291,230	78,549,931
Other liability - claims-made	54,130,578	12,932,493
Excess workers' compensation	5,322,286	1,538,915
Products liability	6,196,536	2,635,277
Private passenger auto no-fault	82,695,901	47,647,548
Other private passenger auto liability	339,752,452	196,571,675
Commercial auto no-fault	5,774,912	2,121,658
Other commercial auto liability	81,300,664	33,056,309
Private passenger auto physical damage	300,101,309	176,726,052
Commercial auto physical damage	22,982,633	12,357,181
Aircraft (all perils)	7,481,945	3,295,891
Fidelity	4,398,757	179,237
Surety	55,550,671	-3,347,761
Burglary and theft	689,193	6,623
Boiler and machinery	4,061,905	657,262
Credit	5,905,568	2,421,377
Warranty	3,060,186	1,782,970
Title	86,918,694	3,249,474
All other	2,269,482	2,066,700
Foreign Risk Retention Group	7,357,071	1,085,996
Surplus lines (net of reinsurance)	252,947,315	(NA)

Continued on next page.

**Table 15.08-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF
INSURANCE: 2016 -- Con.**

NA Not available.

1/ Excludes surplus lines.

2/ Excludes annuities.

3/ Excludes mutual benefit societies and health maintenance organizations listed in the "Mutual Benefit Societies and Health Maintenance Organizations Authorized to Transact Insurance Business in Hawaii During 2016" table in the source document.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 2017* <cca.hawaii.gov/ins/reports/> accessed January 12, 2018.

**Table 15.09-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY
LOCATION OF HOME OFFICE: 2016**

[As of December 31. Money amounts in millions of dollars. For all insurance companies,
life and property & casualty, licensed to do business in Hawaii]

Subject	All companies	Domestic com- panies 1/	Foreign com- panies 2/	Alien com- panies 3/
Number of companies	1,034	28	997	9
Life (incl. fraternal benefit societies) and health companies	403	11	387	5
All other companies	631	17	610	4
Financial condition				
Assets	7,957,056	2,718	7,926,045	28,293
Liabilities exc. capital and surplus	6,914,625	1,599	6,886,496	26,530
Policyholders' surplus incl. capital	1,041,790	1,120	1,038,907	1,763
Capital	7,449	54	7,390	5
Net income or loss	77,139	-3	77,762	-620
Hawaii business				
Direct premiums written	6,076	777	5,290	9
Life	741	25	708	8
Annuities	1,300	(4/)	1,300	(4/)
Fire, casualty, and misc.	4,035	752	3,283	1
Claims and benefits paid	4,498	309	4,178	11
Life	1,839	10	1,819	10
Annuities	352	(4/)	351	(4/)
Fire, casualty, and misc.	2,308	299	2,008	1
Investments in Hawaii	8,271	622	7,649	-
Mortgage loans (principal indebtedness)	2,039	76	1,964	-
Collateral loans (amount loaned)	127	-	127	-
State and county bonds 5/	2,442	19	2,423	-
Utilities stocks and bonds 5/	375	3	372	-
Industrial and miscellaneous stocks and bonds 5/	2,882	413	2,469	-
Real estate 6/	405	112	293	-
Balances in Hawaii banks	354	291	63	-

Continued on next page.

**Table 15.09-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY
LOCATION OF HOME OFFICE: 2016 -- Con.**

- 1/ A domestic insurer is one formed under the laws of Hawaii.
- 2/ A foreign insurer is one formed under the laws of any state of the United States including the District of Columbia and Commonwealth of Puerto Rico other than Hawaii.
- 3/ An alien insurer is one formed under the laws of a nation other than the United States.
- 4/ Less than 1.
- 5/ Market value.
- 6/ Market value less encumbrances.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 2017*, pp. 15-45 <cca.hawaii.gov/ins/reports/> accessed January 12, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 15.10-- HEALTH PLANS: 2014 TO 2017

Subject	2014	2015	2016	2017
Hawaii Medical Service Association				
Persons covered, Dec. 31 1/	720,982	726,487	734,075	732,160
Membership dues 2/ (\$1,000)	2,873,034	2,978,731	3,157,987	3,332,650
Kaiser Foundation Health Plan				
Persons covered, annual average 1/	230,159	242,243	248,118	251,206
Persons covered, Dec. 31 1/	231,836	245,559	249,687	251,302
Membership dues 2/ (\$1,000)	900,502	942,297	1,049,396	1,144,295
University Health Alliance				
Persons covered, Dec. 31 1/	3/ 51,773	3/ 52,958	3/ 56,636	3/ 55,860
Membership dues 2/ (\$1,000)	3/ 227,927	3/ 240,724	3/ 272,632	3/ 286,982
Commercial carrier premiums for accident and health insurance (\$1,000)	1,596,471	1,711,307	1,710,245	(NA)

NA Not available.

1/ Subscribers and dependents, whether on a group or individual basis.

2/ Includes both employers' and employees' contributions.

3/ Does not include data relating to the Hawaii Health Connector.

Source: Hawaii Medical Service Association, Kaiser Foundation Health Plan, Inc., University Health Alliance, and Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner* (annual) <<http://cca.hawaii.gov/ins/reports/>> accessed January 12, 2018.

Table 15.11-- PERCENT OF PERSONS NOT COVERED BY HEALTH INSURANCE, FOR HAWAII AND THE UNITED STATES: 2012 TO 2016

[Civilian noninstitutionalized population. Based on a sample and subject to sampling variability]

Subject	Annual					Five year average
	2012	2013	2014	2015	2016	2012-2016
Hawaii						
Percent not covered	6.9	6.7	5.3	4.0	3.5	5.2
Standard error 1/	0.4	0.4	0.4	0.3	0.4	0.2
Rank 2/	4	3/ 2	3/ 3	4	2	3/ 2
U.S.						
Percent not covered	14.8	14.5	11.7	9.4	8.6	11.7
Standard error 1/	0.1	0.1	0.1	0.1	0.1	0.1

1/ Plus or minus percent. At the 90-percent confidence interval.

2/ Among 50 states and the District of Columbia, with lowest percentage ranking 1.

3/ Tied with the District of Columbia.

Source: U.S. Census Bureau, American Community Survey, "Percent Without Health Insurance Coverage" (annual ranking table) and "Selected Characteristics of Health Insurance Coverage in the United States" (S2701, five-year dataset) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed March 12, 2018.

**Table 15.12-- UNINSURED PERSONS BY SELECTED AGE GROUP,
BY COUNTY: 2016**

[The Small Area Health Insurance Estimates (SAHIE) program models health insurance coverage by combining survey data with population estimates and administrative records]

Age group and subject	State total 1/	Honolulu	Hawaii	Kauai	Maui
Under age 65					
Number in population group	1,155,656	799,844	160,061	58,418	137,333
Number uninsured	48,641	30,330	8,067	2,770	7,474
Percent uninsured	4.2	3.8	5.0	4.7	5.4
Under 19 years old					
Number in population group	320,376	220,066	45,292	16,788	38,230
Number uninsured	7,542	4,588	1,320	490	1,144
Percent uninsured	2.4	2.1	2.9	2.9	3.0
18 to 64 years old					
Number in population group	849,368	589,089	116,979	42,388	100,912
Number uninsured	41,900	26,246	6,878	2,333	6,443
Percent uninsured	4.9	4.5	5.9	5.5	6.4
21 to 64 years old					
Number in population group	807,108	560,515	110,680	40,200	95,713
Number uninsured	39,250	24,587	6,434	2,175	6,054
Percent uninsured	4.9	4.4	5.8	5.4	6.3
40 to 64 years old					
Number in population group	444,589	297,137	66,581	23,990	56,881
Number uninsured	19,491	11,859	3,638	1,073	2,921
Percent uninsured	4.4	4.0	5.5	4.5	5.1
50 to 64 years old					
Number in population group	274,496	179,496	44,064	15,383	35,553
Number uninsured	11,274	6,877	2,239	600	1,558
Percent uninsured	4.1	3.8	5.1	3.9	4.4

1/ Kalawao County figures were not available.

Source: U.S. Census Bureau, Small Area Health Insurance Estimates (SAHIE), Health Insurance Interactive Data Tool <https://census.gov/data-tools/demo/sahie/#/?s_statefips=15&s_agecat=0> accessed July 15, 2018.

Table 15.13-- FIRES, DEATHS, AND LOSSES, BY COUNTY: 2007 TO 2017

[Fiscal year ending June 30]

Subject and year	State total	Honolulu	Hawaii	Kauai	Maui
Number of fires					
2007	5,060	3,085	927	312	736
2008	4,148	2,625	892	308	323
2009	3,802	2,364	751	186	501
2010	4,105	2,383	889	292	541
2011	3,562	2,110	731	168	553
2012	3,699	2,147	681	272	599
2013	3,176	1,755	653	216	552
2014	2,995	1,669	671	191	464
2015	3,324	1,798	675	279	572
2016	3,480	1,836	750	258	636
2017	3,522	1,941	729	268	584
Fire deaths					
2007	6	5	1	-	-
2008	6	5	-	1	-
2009	2	2	-	-	-
2010	5	3	-	-	2
2011	12	11	-	1	-
2012	5	4	1	-	-
2013	3	3	-	-	-
2014	7	4	2	-	1
2015	5	2	3	-	-
2016	5	3	-	-	2
2017	5	3	1	-	1
Fire losses (\$1,000)					
2007	32,402	15,754	8,348	2,995	5,305
2008	28,005	16,566	6,775	1,279	3,385
2009	24,908	15,354	5,825	1,919	1,810
2010	44,263	13,696	3,995	6,081	20,491
2011	23,484	15,542	2,111	3,132	2,699
2012	27,946	16,041	3,512	5,121	3,272
2013	49,058	25,944	4,802	2,900	15,412
2014	29,680	12,800	5,230	1,200	10,450
2015	23,326	13,043	5,006	1,565	3,712
2016	31,803	21,018	3,626	1,329	5,830
2017	27,269	16,278	5,396	1,710	3,885

Source: County fire departments.

**Table 15.14-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS:
2004 TO 2016**

[Excludes data on self-employed individuals, employees of private households, railroad employees, agricultural production employees and most government employees.
Statistics based on the 2012 North American Industry Classification System (NAICS)]

Year	Number of employees 1/	Payroll (\$1,000)		Number of establishments by employment-size class 2/			
		First quarter	Annual	Total	1 to 4	5 to 9	
2004	473,500	3,552,027	15,074,629	31,605	16,503	6,431	
2005	490,682	3,784,859	16,163,137	32,244	16,848	6,504	
2006	512,543	4,225,680	17,287,011	33,118	17,119	6,681	
2007	519,060	4,501,332	18,306,259	33,388	17,177	6,835	
2008	518,168	4,667,451	18,539,010	32,904	16,903	6,720	
2009	488,403	4,415,214	17,742,683	32,372	16,862	6,494	
2010	478,838	4,158,617	17,541,821	31,939	16,709	6,357	
2011	485,548	4,410,075	18,362,124	31,472	16,364	6,358	
2012	492,089	4,636,495	19,078,553	31,496	16,326	6,432	
2013	502,530	4,871,307	19,881,066	31,622	16,268	6,425	
2014	519,130	5,101,194	20,847,140	31,801	16,339	6,388	
2015	523,677	5,326,980	22,068,393	31,915	16,431	6,361	
2016	528,415	5,472,006	22,892,445	32,350	16,688	6,392	
	Number of establishments by employment-size class 2/--Con.						
Year	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more
2004	4,208	2,766	1,012	479	121	58	27
2005	4,359	2,730	1,096	485	133	61	28
2006	4,555	2,884	1,121	548	126	58	26
2007	4,611	2,895	1,107	548	133	52	30
2008	4,518	2,912	1,067	556	138	62	28
2009	4,445	2,836	1,027	506	129	48	25
2010	4,445	2,729	1,012	481	134	49	23
2011	4,231	2,807	1,031	472	130	55	24
2012	4,249	2,751	1,048	480	128	54	28
2013	4,327	2,808	1,088	484	135	58	29
2014	4,336	2,881	1,126	500	139	64	28
2015	4,315	2,948	1,105	520	143	63	29
2016	4,307	3,052	1,134	544	145	60	28

1/ For week including March 12.

2/ Data refer to establishments active anytime during the year.

Source: U.S. Census Bureau, *County Business Patterns* (annual)

<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed April 27, 2018.

**Table 15.15-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS,
BY COUNTY: 2015 AND 2016**

[Excludes data on self-employed individuals, employees of private households, railroad employees, agricultural production employees and most government employees.
Statistics based on the 2012 North American Industry Classification System (NAICS)]

Year and county	Number of establishments 1/	Number of employees 2/	Payroll (\$1,000)	
			First quarter	Annual
2015				
State total	31,915	523,677	5,326,980	22,068,393
Hawaii	4,002	53,713	466,181	1,956,574
Honolulu	21,167	355,607	3,829,734	15,777,709
Kalawao	1	(3/)	(D)	(D)
Kauai	2,014	26,708	238,582	1,000,423
Maui	4,545	61,991	572,765	2,389,725
Statewide 4/	186	25,650	219,651	943,694
2016				
State total	32,350	528,415	5,472,006	22,892,445
Hawaii	4,032	54,561	484,340	2,027,850
Honolulu	21,404	359,766	3,936,057	16,368,921
Kalawao	2	(5/)	(D)	(D)
Kauai	2,087	27,328	249,272	1,063,478
Maui	4,618	64,146	594,368	2,509,664
Statewide 4/	207	22,592	207,763	921,711

D Withheld to avoid disclosing data for individual companies.

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

3/ 0 to 19 employees.

4/ Employers without a fixed location within a state (or of unknown county location) are included under a "statewide" classification at the end of the county tables. This incomplete detail causes only slight understatement of county employment.

5/ 20 to 99 employees.

Source: U.S. Census Bureau, *County Business Patterns* (annual) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed April 27, 2018.

**Table 15.16-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS,
BY MAJOR GROUP: 2016**

[Excludes data on self-employed individuals, employees of private households, railroad employees, agricultural production employees and most government employees.
Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Major group	Number of establishments 1/	Number of employees 2/	Annual payroll (\$1,000)
	Total	32,350	528,415	22,892,445
11	Agriculture, forestry, fishing and hunting	33	151	4,783
21	Mining, quarrying, and oil & gas extraction	7	176	13,315
22	Utilities	65	3,664	360,964
23	Construction	2,869	33,488	2,326,823
31-33	Manufacturing	779	13,040	565,822
311	Food	252	5,660	173,658
312	Beverage and tobacco product	35	944	42,823
315	Apparel	41	384	8,804
323	Printing and related support activities	89	926	34,345
327	Nonmetallic mineral product	46	1,076	75,010
332	Fabricated metal product	40	484	27,993
337	Furniture and related product	41	340	16,809
42	Wholesale trade	1,677	19,345	1,003,311
44-45	Retail trade	4,615	70,647	2,072,630
441	Motor vehicle and parts dealers	317	6,955	357,225
442	Furniture and home furnishing	158	1,346	40,679
443	Electronics and appliance stores	136	1,516	43,530
444	Bldg. mat, garden equip & supplies dealers	246	5,128	166,270
445	Food and beverage stores	697	14,529	387,579
446	Health and personal care stores	411	4,324	133,650
447	Gasoline stations	264	3,106	78,891
448	Clothing & clothing accessories stores	1,249	13,795	293,636
451	Sport, hobby, musical & book	229	2,182	45,084
452	General merchandise stores	86	12,284	385,993
48-49	Transportation and warehousing	904	30,155	1,544,994
481	Air transportation	72	9,474	610,971
484	Truck transportation	201	3,680	164,719
485	Transit & ground passenger transport	132	4,375	171,517
487	Scenic and sightseeing transportation	213	4,834	169,308
488	Support activities for transportation	163	4,012	212,062
51	Information	516	8,202	511,023
52	Finance and insurance	1,455	19,060	1,288,943
53	Real estate and rental and leasing	1,966	11,945	595,672
54	Professional, scientific & technical services	3,341	22,782	1,522,620
55	Management of companies & enterprises	266	6,395	484,316

Continued on next page.

**Table 15.16-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS,
BY MAJOR GROUP: 2016-- Con.**

NAICS code	Major group	Number of establishments 1/	Number of employees 2/	Annual payroll (\$1,000)
56	Administrative and support and waste management and remediation services	1,846	55,128	1,955,533
61	Educational services	536	18,190	629,686
62	Health care and social assistance	3,636	71,052	3,767,913
621	Ambulatory health care services	2,761	27,074	1,597,238
622	Hospitals	26	23,217	1,584,146
623	Nursing & residential care facilities	163	8,497	288,662
624	Social assistance	686	12,264	297,867
71	Arts, entertainment and recreation	522	11,380	287,928
72	Accommodation and food services	3,777	107,940	3,165,769
721	Accommodation	341	40,126	1,768,479
722	Food services and drinking places	3,436	67,814	1,397,290
81	Other services (except public administration)	3,492	25,580	787,902
99	Industries not classified	48	95	2,498

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

Source: U.S. Census Bureau, *2016 County Business Patterns*

<<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed April 27, 2018.

**Table 15.17-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS,
BY EMPLOYMENT-SIZE CLASS: 2015 AND 2016**

[Excludes data on self-employed individuals, employees of private households, railroad employees, agricultural production employees and most government employees]

Employment-size class	Number of establishments 1/		Number of employees 2/		Annual payroll (\$1,000)	
	2015	2016	2015	2016	2015	2016
Total	31,915	32,350	523,677	528,415	22,068,393	22,892,445
1 to 4	16,431	16,688	29,168	29,538	1,360,760	1,503,554
5 to 9	6,361	6,392	42,026	42,181	1,580,080	1,618,710
10 to 19	4,315	4,307	58,539	58,292	2,184,424	2,223,073
20 to 49	2,948	3,052	89,224	91,501	3,421,468	3,584,200
50 to 99	1,105	1,134	75,987	78,158	2,964,815	3,096,937
100 to 249	520	544	77,455	80,641	3,258,798	3,546,420
250 to 499	143	145	48,420	49,266	2,153,056	2,211,892
500 to 999	63	60	45,093	42,042	2,115,460	1,959,203
1,000 or more	29	28	57,765	56,796	3,029,532	3,148,456

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

Source: U.S. Census Bureau, "2015 Business Patterns: Geography Area Series: County Business Patterns by Employment Size Class" <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed April 21, 2017 and "2016 Business Patterns: Geography Area Series: County Business Patterns by Employment Size Class" <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed April 27, 2018.

**Table 15.18-- REGISTERED CORPORATIONS AND PARTNERSHIPS:
2014 TO 2017**

[Fiscal year ending June 30 unless otherwise specified. Excludes nonprofit corporations]

Subject	2014	2015	2016	2017
Domestic (Hawaii) corporations				
Formed	1,806	1,698	1,777	1,758
Dissolved or merged 1/	2,295	2,257	2,263	2,072
On record, June 30 2/	30,564	30,021	29,555	29,280
Foreign (non-Hawaii) corporations				
Qualified	1,153	1,157	1,203	1,232
Withdrawn, merged, or cancelled 1/	872	815	924	862
On record, June 30 2/	12,377	12,720	13,001	13,369
Partnerships				
Registered	407	390	392	312
Dissolved or cancelled 1/	524	464	470	439
On record, June 30 2/	4,610	4,530	4,441	4,317
Domestic (Hawaii) Limited Liability Companies				
Formed	9,342	9,682	10,183	10,569
Dissolved or merged 1/	5,359	5,668	5,879	6,182
On record, June 30 2/	56,239	60,281	64,606	69,036
Foreign (non-Hawaii) Limited Liability Companies				
Qualified	1,122	1,245	1,275	1,487
Withdrawn or merged 1/	551	567	644	547
On record, June 30 2/	7,205	7,882	8,516	9,451
Domestic (Hawaii) Limited Liability Partnerships				
Formed	79	80	91	67
Dissolved or merged 1/	84	75	66	66
On record, June 30 2/	451	455	478	480
Foreign (non-Hawaii) Limited Liability Partnerships				
Qualified	7	15	14	9
Withdrawn or cancelled 1/	3	3	4	6
On record, June 30 2/	83	95	105	108

1/ Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

2/ Number on record may be inconsistent with data on components of change or conversion from another type of entity, reflecting inaccuracy in manual tabulation. A discrepancy does occur when a domestic corporation converts to a limited liability company because the statistic is reflected for the domestic corporation and included in the dissolved or merged statistic, but it is not reflected in the limited liability company's formed statistic. Domestic entities that are reinstated after being involuntarily dissolved, cancelled or terminated are also not reflected in the formed statistic.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, records.

Table 15.19-- CHARACTERISTICS OF C CORPORATIONS, FINANCIAL CORPORATIONS, AND PROPRIETORSHIPS: 2015

[Includes the activities of C corporations, financial corporations and sole proprietorships whose accounting period ended 2015. Also includes real estate rental activities reported on 2015 federal Schedule E by resident individuals. S corporations and partnerships not included. Also not included are business entities with no income and no expenses other than those costs to maintain licenses and to file tax returns]

Subject	Total	C Corporations	Financial Corporations	Proprietorships	
				Non-Rental	Rental
Number of businesses	188,319	15,624	201	101,119	71,375
Percent	100.0	8.3	0.1	53.7	37.9
Number of businesses by taxation district					
First (Oahu)	122,602	13,199	185	60,947	48,271
Second (Maui, Molokai, Lanai)	25,898	(D)	(D)	15,016	9,904
Third (Hawaii)	28,616	1,113	(D)	18,503	(D)
Fourth (Kauai, Niihau)	11,203	(D)	(D)	6,653	(D)
Business receipts (\$1,000) 1/	79,646,910	71,381,649	2,410,816	4,148,736	1,705,708
Percent	100.0	89.6	3.0	5.2	2.1
Businesses with \$1 million or more in business receipts 1/	4,400	3,958	66	337	39
Percent	100.0	95.6	3.3	1.0	0.1
Businesses with net profit	105,379	5,441	128	69,496	30,314
Amount of net profit (\$1,000)	4,610,070	2,549,403	390,851	1,287,804	382,012
Amount of net loss (\$1,000)	1,931,159	1,477,888	54,856	190,863	207,552

D Data were suppressed to avoid potential disclosure of confidential taxpayer information.

1/ Business receipts refers to primary payments received for goods and services provided by the trade or business. It does not include passive income such as interest, rent, and capital gains, except where passive income is the major business activity of the entity.

Source: Hawaii State Department of Taxation, Tax Research and Planning Office, *Hawaii Business Income Tax Statistics: Tax Year 2015* (December 2017) <<http://files.hawaii.gov/tax/stats/stats/businc/15businc.pdf>> accessed July 11, 2018.

**Table 15.20-- ESTABLISHMENT AND EMPLOYMENT CHANGES
FROM ENTERPRISE BIRTHS, DEATHS, EXPANSIONS AND
CONTRACTIONS, BY EMPLOYMENT-SIZE CLASS: 2014 TO 2015**

[An enterprise is a business organization consisting of one or more domestic establishments that were specified under common ownership or control]

Subject	Employment size of the enterprise 1/							
	Total	Less than 500 employees						500+
		Total < 500	1-4	5-9	10-19	20-99	100-499	
Establishments 2/								
Number (initial year)	29,299	24,223	11,453	4,530	2,896	3,447	1,897	5,076
Numerical change	82	-2	53	-3	-24	-10	-18	84
Births 3/	2,480	2,089	1,488	284	147	116	54	391
Deaths 4/	2,398	2,091	1,435	287	171	126	72	307
Expansions	7,631	6,116	1,970	1,277	975	1,220	674	1,515
Contractions	7,170	5,620	1,261	1,493	1,121	1,187	558	1,550
Employment 5/								
Number (initial year)	518,946	267,612	24,073	29,315	36,794	95,226	82,204	251,334
Numerical change	4,725	3,718	2,483	171	-351	271	1,144	1,007
Change due to births	17,295	11,588	2,702	1,863	1,920	3,286	1,817	5,707
Change due to deaths	-17,469	-11,855	(6/)	-1,900	-2,104	-3,528	-1,674	-5,614
Change due to expansions	37,980	22,373	3,903	3,024	3,127	6,721	5,598	15,607
Change due to contractions	-33,081	-18,388	-1,473	-2,816	-3,294	-6,208	-4,597	-14,693

1/ An enterprise (or "company") is a business organization consisting of one or more domestic establishments that were specified under common ownership or control. The enterprise and the establishment are the same for single-establishment firms. Each multi-establishment company forms one enterprise - the enterprise employment and annual payroll are summed from the associated establishments.

2/ A single physical location where business is conducted or where services or industrial operations are performed.

3/ Establishments that have zero employment in the first quarter of the initial year and positive employment in the first quarter of the subsequent year.

4/ Establishments that have positive employment in the first quarter of the initial year and zero employment in the first quarter of the subsequent year.

5/ Full or part-time employees, including salaried officers and executives of corporations, who were on the payroll in the pay period including March 12. Included are employees on sick leave, holidays, and vacations; not included are proprietors and partners of unincorporated businesses.

6/ Withheld because estimate did not meet publication standard.

Source: U.S. Census Bureau, 1989-2015 Business Information Tracking Series "Number of Establishments with Corresponding Employment Change by Employment Size of the Enterprise for the United States and All States, Totals: 2014-2015" <<https://www.census.gov/data/tables/2015/econ/susb/2015-susb-employment.html>> accessed June 8, 2018.

Table 15.21--TOP INDUSTRIES FOR EMPLOYMENT: 2007 AND 2012

[Ranking based on greatest employment during pay period including March 12 at the 2-digit NAICS code-level. Greatest employment is ranked 1. Statistics based on the North American Industry Classification System (NAICS). The 2007 data is based on the 2007 NAICS and the 2012 data is based on the 2012 NAICS. Includes only establishments with payroll]

Rank	NAICS code 1/	Sector	Number of employees			Payroll per employee (\$)		
			2007	2012	Percent change	2007	2012	Percent change
1	72	Accommodation and food services	98,353	98,364	0.0	22,468	25,781	14 .7
2	44-45	Retail trade	70,661	68,360	-3.3	24,998	26,843	7 .4
3	62	Health care and social assistance	63,640	66,772	4.9	42,763	49,281	15 .2
4	56	Administrative and support and waste management and remediation services	46,823	47,307	1.0	26,722	28,645	7 .2
5	23	Construction	35,523	27,541	-22.5	53,672	56,800	5 .8
6	48-49	Transportation and warehousing 1/	32,361	26,839	-17.1	34,252	42,862	25 .1
7	54	Professional, scientific, and technical services	22,460	21,629	-3.7	54,741	58,515	6 .9

1/ Excludes railroad transportation and the U.S. Postal Service.

Source: U.S. Census Bureau, Economic Census, Economy-Wide Key Statistics File, 2007 Economic Census, "EC0700A1: All sectors: Geographic Area Series, Economy-Wide Key Statistics: 2007" Hawaii <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml?_ts=445486742893> accessed July 3, 2015; 2012 Economic Census, "EC1200A1: All sectors: Geographic Area Series, Economy-Wide Key Statistics 2012" Hawaii <http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml?_ts=445486742893> accessed July 3, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 15.22-- TOP INDUSTRIES OF PRIVATE FIRMS,
BY COUNTY: 2016-2017**

[These data are averaged for 3rd quarter of 2016 through 2nd quarter of 2017. Ranking based on greatest employment at the 3-digit NAICS code-level. Greatest employment is ranked 1. Includes persons 14 to 99 years of age in private firms only. Does not include data for Kalawao County because its data does not meet U.S. Census Bureau publication standards]

Rank	NAICS code	State/county and industry	Average quarterly employment	Average quarterly new hire employment	Average monthly earnings (\$)	New hire earnings (\$)
		State	462,402	39,664	4,018	2,640
1	722	Food services and drinking places	54,153	7,084	2,144	1,625
2	561	Administrative and support services	40,376	4,770	3,109	2,295
3	721	Accommodation	37,848	2,648	4,157	3,614
4	621	Ambulatory health care services	24,949	1,894	5,289	3,195
5	541	Professional, scientific, and technical services	21,835	1,528	6,158	4,629
6	238	Specialty trade contractors	18,114	1,625	5,742	4,529
7	622	Hospitals	15,412	579	6,328	4,815
8	624	Social assistance	13,757	1,151	2,099	1,450
9	445	Food and beverage stores	13,465	1,040	2,644	1,651
10	611	Educational services	12,278	947	3,141	1,634
		Hawaii County	47,042	4,318	3,372	2,314
1	721	Accommodation	5,285	441	3,733	3,140
2	722	Food services and drinking places	5,153	759	1,982	1,527
3	561	Administrative and support services	3,608	515	2,626	2,015
4	621	Ambulatory health care services	2,869	227	4,354	3,131
5	445	Food and beverage stores	2,147	165	2,574	1,559
6	624	Social assistance	2,107	180	1,688	1,154
7	452	General merchandise stores	1,953	190	2,626	1,670
8	238	Specialty trade contractors	1,585	144	4,409	3,396
9	541	Professional, scientific, and technical services	1,265	74	5,546	4,509
10	111	Crop production	1,194	78	2,419	1,958
		City & County of Honolulu	336,131	28,665	4,197	2,694
1	722	Food services and drinking places	37,750	4,885	2,113	1,614
2	561	Administrative and support services	30,709	3,593	3,187	2,379
3	541	Professional, scientific, and technical services	18,790	1,324	6,312	4,712

Continued on next page.

**Table 15.22-- TOP INDUSTRIES OF PRIVATE FIRMS,
BY COUNTY: 2016-2017 -- Con.**

Rank	NAICS code	State/county and industry	Average quarterly employment	Average quarterly new hire employment	Average monthly earnings (\$)	New hire earnings (\$)
City & County of Honolulu - con.						
4	621	Ambulatory health care services	18,427	1,392	5,322	3,076
5	721	Accommodation	17,353	1,424	4,208	3,812
6	622	Hospitals	14,354	540	6,349	4,747
7	238	Specialty trade contractors	13,922	1,232	6,074	4,846
8	611	Educational services	10,082	790	3,132	1,570
9	624	Social assistance	9,617	815	2,179	1,514
10	445	Food and beverage stores	8,685	674	2,671	1,657
Kauai County			21,613	1,776	3,632	2,918
1	721	Accommodation	4,048	212	4,102	3,474
2	722	Food services and drinking places	3,376	419	1,980	1,477
3	561	Administrative and support services	1,605	130	3,482	2,260
4	621	Ambulatory health care services	870	54	7,232	4,047
5	238	Specialty trade contractors	724	70	4,456	3,743
6	713	Amusement, gambling, and recreation industries	721	66	2,556	1,781
7	445	Food and beverage stores	604	45	2,549	1,797
8	452	General merchandise stores	588	24	2,639	1,486
9	236	Construction of buildings	574	56	5,386	5,386
10	624	Social assistance	536	41	2,036	1,264
Maui County			57,595	4,904	3,651	2,514
1	721	Accommodation	11,160	571	4,296	3,547
2	722	Food services and drinking places	7,872	1,020	2,473	1,812
3	561	Administrative and support services	4,453	531	2,832	2,026
4	621	Ambulatory health care services	2,782	220	5,459	3,853
5	445	Food and beverage stores	2,028	155	2,626	1,688
6	238	Specialty trade contractors	1,882	178	4,937	3,627
7	624	Social assistance	1,496	115	2,206	1,548
8	813	Religious, grantmaking, civic, professional, and similar organizations	1,396	100	3,236	2,230
9	452	General merchandise stores	1,387	113	2,694	1,634
10	541	Professional, scientific, and technical services	1,292	89	5,003	3,668

Source: U.S. Census Bureau, Local Employment Dynamics, QWI Explorer <<https://qwiexplorer.ces.census.gov/static/explore.html#x=0&g=0>> accessed July 11, 2018 and July 12, 2018.

Table 15.23-- LARGEST PUBLIC AND PRIVATE COMPANIES: 2016

[Highest gross sales in 2016 is ranked 1. Data may include sales and employment on the mainland or abroad]

Rank in sales	Company	Year founded 1/	Sales (million dollars)	Employees
1	Hawaii Medical Service Assn. (HMSA)	1938	3,451.8	1,815
2	Hawaiian Holdings, Inc.	1929	2,450.6	4,968
3	Hawaiian Electric Industries, Inc.	2/ 1891/1983	2,380.7	3,796
4	Matson, Inc.	(NA)	1,941.6	1,997
5	Par Hawaii	(NA)	1,655.0	670
6	University of Hawaii	1907	1,503.9	8,453
7	Island Energy Services, LLC	(NA)	1,500.0	320
8	Kaiser Permanente Hawaii	1958	1,473.9	4,410
9	Servco Pacific Inc.	(NA)	1,429.5	1,762
10	The Queen's Health Systems	2/ 1859/1985	1,255.5	7,455

NA Not available.

1/ Information on "Year founded" was obtained from previous *Hawaii Business* issues. From the 2009 issue, year founded information was no longer provided in their ranking table.

2/ The first year is the founding date of the original company and the second year is when it became a holding company, was sold, or legally changed its name or year of incorporation.

Source: *Hawaii Business*, "Top 250 List" (August 2017) <<https://www.hawaiibusiness.com/top-250-2017/>> accessed July 13, 2018 and various earlier issues.

**Table 15.24-- NET GAIN AND TOTAL GROSS ANNUAL SALES
OF SELECTED COMPANIES: 2015 TO 2016**

[Rank based on percentage increase in gross annual sales between 2015 and 2016]

Rank	Company 1/	Gross annual sales (million dollars)		
		2015	2016	% change
1	Na Ali'i Consulting & Sales, LLC	10.0	22.8	129.1
2	Maui Land & Pineapple Co. Inc.	23.0	47.0	104.3
3	Group Builders Inc.	50.0	91.3	82.5
4	Ralph S. Inouye Co. Ltd.	37.0	66.5	79.6
5	Pasha Hawaii	262.7	462.4	76.1
6	Nan, Inc.	196.7	302.6	53.8
7	Elite Pacific Construction, Inc.	11.3	17.3	53.5
8	Aqua Engineers Inc.	26.9	41.2	53.2
9	Alaka'i Mechanical Corp.	57.7	88.2	52.8
10	Royal Hawaiian Orchards, L.P.	18.5	26.7	44.0
11	Wasa Electrical Service Inc.	65.6	92.9	41.6
12	Contract Furnishers of Hawaii Inc. (dba Office Pavilion)	16.1	22.5	39.3
13	Pacific Marine & Supply Company, Ltd.	108.0	150.0	38.9
14	Child & Family Services	23.8	32.7	37.6
15	S & M Sakamoto, Inc.	20.9	27.4	31.1

1/ Companies with a percentage increase of over 30 percent.

Source: Hawaii Business, "Top 250 List" (August 2017)

<<https://www.hawaiiibusiness.com/top-250-2017/>> accessed July 13, 2018 and various earlier issues.

**Table 15.25-- NONEMPLOYER STATISTICS, FOR HAWAII
AND THE UNITED STATES: 2004 TO 2016**

[Data refer to businesses that have no paid employees, have annual business receipts of \$1,000 or more (\$1 or more in the Construction industry) and are subject to federal income taxes]

Year	Hawaii		United States	
	Number of firms 1/	Receipts 2/ (\$1,000)	Number of firms 1/	Receipts 2/ (\$1,000)
2004	84,331	3,694,870	19,523,741	887,001,820
2005	87,717	4,026,320	20,392,068	951,206,297
2006	90,353	4,194,469	20,768,555	970,384,137
2007	96,263	4,475,373	21,708,021	991,791,563
2008	93,704	4,334,702	21,351,320	962,791,527
2009 3/	91,496	4,168,129	21,695,828	923,018,039
2010 3/	92,126	4,065,985	22,110,628	950,813,840
2011 3/	94,118	4,303,253	22,491,080	989,628,512
2012 3/	97,151	4,544,558	22,735,915	1,030,932,886
2013 3/	98,490	4,567,498	23,005,620	1,052,025,268
2014 3/	102,544	4,857,765	23,836,937	1,115,921,379
2015 3/	104,707	5,039,049	24,331,403	1,148,715,541
2016 3/	108,308	5,285,508	24,813,048	1,165,668,336
Economic Census				
2007 4/	95,301	4,148,616	21,357,346	972,691,434
2012 4/	95,415	4,897,391	22,201,902	1,041,586,434

1/ Data refer to each distinct business income tax return filed by a nonemployer business.

2/ Includes gross receipts, sales, commissions and income received from trades and businesses, as reported on annual business income tax returns. Business income consists of all payments received for services rendered by nonemployer businesses, such as payments received as independent agents and contractors.

3/ When comparing the 2009 and later Nonemployers Statistics data to prior years, changes in methodology must be considered.

4/ Data are from the Economic Censuses taken every five years. All other data are from the annual Nonemployer Statistics series.

Source: U.S. Census Bureau, Nonemployer Statistics for 2002 to 2012 <<http://www.census.gov/econ/nonemployer/>> accessed April 24, 2014; Nonemployer Statistics (annual) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 21, 2018; and 2007 Economic Census, 2007 Survey of Business Owners, Company Statistics Series, SB0700CSA01: U.S. Firms by Geographic Area, Industry, Gender, Ethnicity, and Race: 2007 <http://factfinder.census.gov/servlet/EconSectorServlet?caller=dataset&sv_name=2007+Survey+of+Business+Owners&_SectorId=*&ds_name=EC0700A1> accessed July 29, 2011 and 2012 Economic Census, 2012 Survey of Business Owners, SB1200CSA01: Statistics for All U.S. Firms by Industry, Gender, Ethnicity, and Race for the U.S., States, Metro Areas, Counties, and Places: 2012 <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed July 15, 2016.

**Table 15.26-- CHARACTERISTICS OF NONEMPLOYER
BUSINESSES, BY MAJOR GROUP: 2012**

[Data are from the 2012 Economic Census which differs from data in the Census Bureau's annual nonemployers statistics used in other current as well as in previous *Data Book* tables. A firm without paid employees includes sole proprietors and partners of unincorporated businesses that do not have any other employees on the payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

2012 NAICS code	Major group	Number of firms 1/	Receipts 2/ (\$1,000)
	Total	95,415	4,897,391
11	Agriculture, forestry, fishing and hunting 3/	1,972	72,703
21	Mining, quarrying, and oil and gas extraction	16	826
22	Utilities	119	7,601
23	Construction	7,237	548,050
31-33	Manufacturing	2,132	79,119
42	Wholesale trade	2,491	(4/)
44-45	Retail trade	9,486	405,036
48-49	Transportation and warehousing 5/	2,872	92,757
51	Information	1,182	40,293
52	Finance and insurance 6/	2,850	268,527
53	Real estate and rental and leasing	11,165	971,015
54	Professional, scientific, and technical services	14,073	586,474
55	Management of companies and enterprises	-	-
56	Administrative and support and waste management and remediation services	8,094	217,659
61	Educational services	2,408	43,417
62	Health care and social assistance	7,552	379,106
71	Arts, entertainment, and recreation	5,776	147,436
72	Accommodation and food services	1,730	118,866
81	Other services (except public administration) 7/	14,258	538,958
99	Industries not classified	1	(4/)

Continued on next page.

**Table 15.26-- CHARACTERISTICS OF NONEMPLOYER
BUSINESSES, BY MAJOR GROUP: 2012 -- Con.**

1/ A firm is a business organization or entity consisting of one domestic establishment (location) or more under common ownership or control. A firm without paid employees includes sole proprietors and partners of unincorporated businesses that do not have any other employees on the payroll. All establishments of subsidiary firms are included as part of the owning or controlling firm. For the economic census, the terms "firm" and "company" are synonymous.

2/ Includes total sales, shipments, receipts, revenue, or business done by domestic establishments (excludes foreign subsidiaries) without paid employees and within the scope of the Survey of Business Owners.

3/ Crop and Animal Production (NAICS 111 and 112) are out of scope of the 2012 Survey of Business Owners.

4/ Withheld because estimate did not meet publication standards.

5/ Rail Transportation (NAICS 482) and the Postal Service (NAICS 491) are out of scope of the 2012 Survey of Business Owners.

6/ Monetary Authorities-Central Banks (NAICS 521) and Funds, Trusts, and Other Financial Vehicles (NAICS 525) are out of scope of the 2012 Survey of Business Owners.

7/ Religious, Grantmaking, Civic, Professional, and Similar Organizations (NAICS 813) and Private Households (NAICS 814) are out of scope of the 2012 Survey of Business Owners.

Source: U.S. Census Bureau, 2012 Economic Census, 2012 Survey of Business Owners "SB1200CSA01: Statistics for All U.S. Firms by Industry, Gender, Ethnicity, and Race for the U.S., States, Metro Areas, Counties, and Places: 2012" <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed July 11, 2016.

**Table 15.27-- CHARACTERISTICS OF NONEMPLOYER
BUSINESSES, BY MAJOR GROUP: 2016**

[Data refer to businesses that have no paid employees, have annual business receipts of \$1,000 or more (\$1 or more in the Construction industry) and are subject to federal income taxes. Statistics based on the 2012 North American Industry Classification System (NAICS)]

2012 NAICS code	Major group 1/	Number of firms 2/	Receipts 3/ (\$1,000)
	Total	108,308	5,285,508
11	Agriculture, forestry, fishing and hunting	1,894	83,629
21	Mining, quarrying, and oil and gas extraction	12	1,979
22	Utilities	193	15,037
23	Construction	7,865	543,803
236	Construction of buildings	2,569	209,465
238	Specialty trade contractors	5,196	325,577
31-33	Manufacturing	2,195	93,143
311	Food manufacturing	346	15,710
315	Apparel manufacturing	395	13,137
321	Wood product manufacturing	204	6,965
42	Wholesale trade	2,585	185,340
44-45	Retail trade	10,450	455,485
445	Food and beverage stores	571	47,924
446	Health and personal care stores	714	21,925
448	Clothing and clothing accessories stores	1,344	72,386
451	Sporting goods, hobby, music instrument & book	514	24,988
454	Nonstore retailers 4/	5,012	138,670
48-49	Transportation and warehousing	5,678	136,892
485	Transit and ground passenger transportation	4,501	83,267
51	Information	1,159	40,373
52	Finance and insurance	2,872	248,056
524	Insurance carriers and related activities	1,885	98,519
53	Real estate and rental and leasing	12,490	1,180,366
531	Real estate	11,976	1,141,198
54	Professional, scientific and technical services	15,516	680,756
56	Administrative and support and waste management and remediation services	8,994	263,636
61	Educational services	2,885	50,401
62	Health care and social assistance	8,059	421,054
621	Ambulatory health care services	5,366	333,419
71	Arts, entertainment and recreation	6,639	201,806
711	Performing arts, spectator sports, and related industries	5,635	135,907
72	Accommodation and food services	2,217	145,590
81	Other services (except public administration)	16,605	538,162
812	Personal and laundry services	12,139	367,002

Continued on next page.

**Table 15.27-- CHARACTERISTICS OF NONEMPLOYER
BUSINESSES, BY MAJOR GROUP: 2016 -- Con.**

1/ Major groups include other subgroups not shown separately in this table. Limited to industries in approximately 450 of the nearly 1,200 recognized North American Classification System industries. The universe contains only those codes that are available through administrative records sources and are common to all three legal forms of organization applicable to nonemployer businesses.

2/ Data refer to each distinct business income tax return filed by a nonemployer business.

3/ Includes gross receipts, sales, commissions and income from trades and businesses, as reported on annual business income tax returns. Business income consists of all payments received for services rendered.

4/ Industries in the Nonstore Retailers subsector retail merchandise using methods, such as the broadcasting of infomercials, the broadcasting and publishing of direct-response advertising, the publishing of paper and electronic catalogs, door-to-door solicitation, in-home demonstration, selling from portable stalls and distribution through vending machines. Includes mail-order houses, vending machine operators, home delivery sales, door-to-door sales, party plan sales, electronic shopping, and sales through portable stalls (e.g., include street vendors, except food). Also includes establishments engaged in direct sale (i.e., nonstore) of products, such as home heating oil dealers and newspaper delivery service providers.

Source: U.S. Census Bureau, Nonemployer Statistics for 2016 <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 21, 2018.

Table 15.28-- SELECTED MINORITY-OWNED BUSINESSES: 2012

[Includes all U.S. firms operating during 2012 with receipts of \$1,000 or more which are classified in the North American Industry Classification System (NAICS) sectors 11 through 99, except for NAICS 111, 112, 482, 491, 521, 525, 813, 814, and 92 which are not covered. Firms with more than one domestic establishment are counted in each geographic area and industry in which they operate, but only once in the U.S. total. Hispanic or Latino firms may be of any race and may also be included under that race. Moreover, each owner had the option of selecting more than one race and therefore is included in each race selected. Includes persons who own 51 percent or more of the equity, interest, or stock of the business]

Characteristics	All firms (whether or not owned by minorities)	Firms owned by selected minorities 1/		
		Asian- owned	Native Hawaiian- and Other Pacific Islander-owned	Hispanic- owned
All firms				
Number	118,454	60,967	14,537	5,544
Sales, receipts, value of shipments (\$1,000)	102,120,740	19,482,939	2,210,215	564,552
Firms with paid employees				
Number	23,038	11,237	1,285	524
Sales, receipts, value of shipments (\$1,000)	97,223,349	16,984,600	1,630,568	402,595
Employees 2/	464,922	104,791	10,341	2,497
Annual payroll (\$1,000)	17,913,118	3,436,922	350,276	92,365
Firms without paid employees				
Number	95,415	49,730	13,251	5,020
Sales, receipts, value of shipments (\$1,000)	4,897,391	2,498,339	579,647	161,957

1/ Minority-owned firms are firms in which Blacks, American Indians and Alaska Natives, Asians, Native Hawaiian and Other Pacific Islanders, or Hispanics own 51 percent or more of the equity, interest or stock of the business.

2/ For pay period including March 12.

Source: U.S. Census Bureau, 2012 Economic Census, 2012 Survey of Business Owners, "SB1200CSA01: Statistics for All U.S. Firms by Industry, Gender, Ethnicity, and Race for the U.S., States, Metro Areas, Counties, and Places: 2012" <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed December 31, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 15.29-- ASIAN-OWNED BUSINESSES FOR HAWAII
AND THE UNITED STATES: 2012**

[Includes all U.S. firms operating during 2012 with receipts of \$1,000 or more which are classified in the North American Industry Classification System (NAICS) sectors 11 through 99, except for NAICS 111, 112, 482, 491, 521, 525, 813, 814, and 92 which are not covered. Firms with more than one domestic establishment are counted in each geographic area and industry in which they operate, but only once in the U.S. total. Includes Asians who own 51 percent or more of the equity, interest, or stock of the business. Details may not add to total or subgroup total because a firm could be tabulated in more than one racial group]

Character- istics	All firms		Firms with paid employees				Firms without paid employees	
	Num- ber	Sales/ receipts/ value of shipments (\$1,000)	Num- ber	Sales/ receipts/ value of shipments (\$1,000)	Empley- ees 1/	Annual payroll (\$1,000)	Num- ber	Sales/ receipts/ value of shipments (\$1,000)
Hawaii								
Total Asian	60,967	19,482,939	11,237	16,984,600	104,791	3,436,922	49,730	2,498,339
Asian Indian	556	213,038	69	187,184	1,859	50,291	487	25,855
Chinese	16,225	4,522,360	2,708	3,749,682	27,569	799,808	13,517	772,679
Filipino	13,404	1,021,335	1,085	694,832	6,761	174,175	12,318	326,502
Japanese	27,631	11,385,707	5,905	10,170,062	58,089	2,114,774	21,727	1,215,645
Korean	4,879	1,983,721	1,312	1,802,896	8,083	247,647	3,567	180,825
Vietnamese	3,177	243,974	237	133,850	1,403	23,566	2,940	110,124
Other Asian	1,465	141,889	136	100,296	1,086	37,625	1,329	41,593
U.S.								
Total Asian	1,917,902	699,492,422	481,026	627,532,399	3,572,577	110,543,615	1,436,876	71,960,023
Asian Indian	377,486	227,148,254	137,720	209,778,561	1,124,943	39,121,409	239,766	17,369,692
Chinese	528,702	210,062,246	139,016	190,602,834	984,985	29,748,590	389,685	19,459,412
Filipino	193,336	25,845,518	24,548	20,460,768	186,397	5,888,012	168,788	5,384,749
Japanese	119,163	44,243,189	23,906	39,990,633	219,857	7,849,769	95,257	4,252,556
Korean	224,891	107,813,236	81,902	99,194,346	524,929	14,169,769	142,989	8,618,889
Vietnamese	310,864	34,649,696	37,015	24,193,204	200,583	5,164,102	273,849	10,456,492
Other Asian	194,061	50,242,621	38,454	43,128,485	320,739	7,830,139	155,606	7,114,136
Hawaii as a % of U.S.	3.2	2.8	2.3	2.7	2.9	3.1	3.5	3.5

1/ For pay period including March 12.

Source: U.S. Census Bureau, 2012 Economic Census, 2012 Survey of Business Owners, "SB1200CSA01: Statistics for All U.S. Firms by Industry, Gender, Ethnicity, and Race for the U.S., States, Metro Areas, Counties, and Places: 2012" <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed December 31, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 15.30-- NATIVE HAWAIIAN AND OTHER PACIFIC ISLANDER-OWNED BUSINESSES FOR HAWAII AND THE UNITED STATES: 2012

[Includes all U.S. firms operating during 2012 with receipts of \$1,000 or more which are classified in the North American Industry Classification System (NAICS) sectors 11 through 99, except for NAICS 111, 112, 482, 491, 521, 525, 813, 814, and 92 which are not covered. Firms with more than one domestic establishment are counted in each geographic area and industry in which they operate, but only once in the U.S. total. Includes Native Hawaiian and Other Pacific Islander (NHOP) who own 51 percent or more of the equity, interest, or stock of the business. Details may not add to total or subgroup total because a firm could be tabulated in more than one racial group]

Characteristics	All firms		Firms with paid employees				Firms without paid employees	
	Number	Sales/receipts/value of shipments (\$1,000)	Number	Sales/receipts/value of shipments (\$1,000)	Employees 1/	Annual payroll (\$1,000)	Number	Sales/receipts/value of shipments (\$1,000)
Hawaii								
Total Native Hawaiian & Other Pacific Islander	14,537	2,210,215	1,285	1,630,568	10,341	350,276	13,251	579,647
Native Hawaiian	13,147	1,939,023	1,202	1,536,199	9,521	329,196	11,945	402,824
Guamanian or Chamorro	124	10,008	11	8,047	104	2,170	114	1,961
Samoaan	622	(2/)	28	(2/)	(3/)	(2/)	595	(2/)
Other Pacific Islander	879	89,538	50	(2/)	(4/)	(2/)	829	20,687
U.S.								
Total Native Hawaiian & Other Pacific Islander	54,749	8,136,445	4,706	6,469,957	39,001	1,430,591	50,043	1,666,488
Native Hawaiian	25,774	4,524,772	2,753	3,767,988	21,680	838,495	23,021	756,784
Guamanian or Chamorro	6,559	702,685	441	493,623	5,194	137,867	6,118	209,062
Samoaan	5,892	856,219	348	564,382	2,856	96,987	5,544	(2/)
Other Pacific Islander	17,937	2,306,101	1,257	1,834,573	9,969	385,403	16,680	471,528
Hawaii as a % of U.S.	26.6	27.2	27.3	25.2	26.5	24.5	26.5	34.8

1/ For pay period including March 12.

2/ Withheld because estimates did not meet publication standards.

3/ 250 to 499 employees.

4/ 500 to 999 employees.

Source: U.S. Census Bureau, 2012 Economic Census, 2012 Survey of Business Owners, "SB1200CSA01: Statistics for All U.S. Firms by Industry, Gender, Ethnicity, and Race for the U.S., States, Metro Areas, Counties, and Places: 2012" <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed December 31, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 15.31-- WOMEN-OWNED BUSINESSES FOR
HAWAII AND THE UNITED STATES: 2012**

[Includes all U.S. firms operating during 2012 with receipts of \$1,000 or more which are classified in the North American Industry Classification System (NAICS) sectors 11 through 99, except for NAICS 111, 112, 482, 491, 521, 525, 813, 814, and 92 which are not covered. Firms with more than one domestic establishment are counted in each geographic area and industry in which they operate, but only once in the U.S. total. Includes women who own 51 percent or more of the equity, interest, or stock of the business. Businesses equally male-/female-owned are counted and tabulated as a separate entity]

Subject	Total 1/	Women- owned firms 2/	Percent women- owned
Hawaii			
All firms			
Number	118,454	44,453	37.5
Sales, receipts, value of shipments (\$1,000)	102,120,740	7,086,066	6.9
Firms with paid employees			
Number	23,038	4,717	20.5
Sales, receipts, value of shipments (\$1,000)	97,223,349	5,599,536	5.8
Employees 3/	464,922	39,796	8.6
Annual payroll (\$1,000)	17,913,118	1,095,518	6.1
Firms without paid employees			
Number	95,415	39,736	41.6
Sales, receipts, value of shipments (\$1,000)	4,897,391	1,486,530	30.4
U.S.			
All firms			
Number	27,626,360	9,878,397	35.8
Sales, receipts, value of shipments (\$1,000)	33,536,848,821	1,419,834,295	4.2
Firms with paid employees			
Number	5,424,458	1,035,655	19.1
Sales, receipts, value of shipments (\$1,000)	32,495,262,387	1,190,586,438	3.7
Employees 3/	115,249,007	8,431,614	7.3
Annual payroll (\$1,000)	5,236,446,058	263,720,252	5.0
Firms without paid employees			
Number	22,201,902	8,842,742	39.8
Sales, receipts, value of shipments (\$1,000)	1,041,586,434	229,247,857	22.0

1/ All firms whether or not they are owned by women.

2/ Women own 51 percent or more of the interest or stock of the business.

3/ For pay period including March 12.

Source: U.S. Census Bureau, 2012 Economic Census, 2012 Survey of Business Owners, "SB1200CSA01: Statistics for All U.S. Firms by Industry, Gender, Ethnicity, and Race for the U.S., States, Metro Areas, Counties, and Places: 2012" <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed December 31, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 15.32-- BUSINESS INQUIRIES AND COMPLAINTS THROUGH THE BETTER BUSINESS BUREAU, BY TYPE OF INDUSTRY: 2017

Type of industry 1/	Number of inquiries	Type of industry 1/	Number of complaints	Average settlement per consumer complaint (dollars)
General contractors	36,700	Auto dealers - new cars 2/	82	5,564.66
Roofing contractors	17,483	Airlines	72	851.65
Real estate	16,880	Auto dealers - used cars	35	2,602.73
Plumbers	16,115	Hotels	34	1,125.87
Electricians	14,183	Property management	32	1,280.35
Construction services	13,460	Health clubs	26	674.92
Property management	12,538	Towing companies	26	883.04
Lawyers	9,381	Restaurants	24	893.21
Air conditioning contractors	9,312	Banks	24	59,235.85
Dating services	8,732	Moving companies	23	1,329.48
Painting contractors	8,726	Internet marketing services	20	163.15
Pest control services	8,503	Real estate	19	1,747.42
Travel agencies	8,123	Tour operators	19	669.94
Building contractors	8,003	Auto renting & leasing	17	678.54
Auto dealers - new cars	6,759	Swimwear	15	90.00
Auto services	6,682	Travel clubs	14	4,567.33
Vacation rentals	6,357	General contractors	14	23,827.56
Moving companies	5,843	Perfume	14	4,062.62
Landscape contractors	5,442	Handyman services	14	1,488.89
Auto dealers - used cars	5,397	Collection agencies	13	565.00
Jewelry stores	5,344	Auto services	13	(NA)
Tour operators	5,080	Auto body repair & painting	13	830.81
Mason contractors	4,954	Sightseeing tours	13	352.79
Handyman services	4,940	Solar energy equipment dealers	12	102,400.00
Solar energy design	4,706	Air conditioning contractors	12	4,100.55
Financial consultants	4,685	Major appliance services	12	747.49
		Online shopping	12	46.46

NA Not available.

1/ Industries listed are those with the highest number of inquiries or complaints.

2/ Includes new car repair issues.

Source: Better Business Bureau of Hawaii, records.

Section 16

INFORMATION AND COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the Postal Service and of various information and communications media: telephone, radio, television, newspapers, periodicals, and books. Sections 12 and 15 contain employment and payroll data for communications establishments.

The major sources for statistics on information and communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, Hawaii State Department of Commerce and Consumer Affairs, and the U.S. Census Bureau. Earlier figures appear in *Historical Statistics of Hawaii*, Section 18. Data on communications for other states and for the nation as a whole are presented in the *Statistical Abstract of the United States: 2012*, Section 24.

Table
Number **Table Name**

(Click on the table number to go to corresponding table)

Narrative

16.01	Information Industry Establishments (NAICS 51): 2016
16.02	Information (NAICS 51), by Kind of Business or Operation: 2012
16.03	Information (NAICS 51), by County and Selected Economic Place: 2012
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Table 16.01-- INFORMATION INDUSTRY ESTABLISHMENTS (NAICS 51): 2016

[Excludes most government employees, railroad employees, and self-employed persons.
 Statistics based on the North American Industry Classification System (NAICS)]

NAICS code	Industry	No. of establishments	No. of paid employees for pay period including March 12	Annual payroll (\$1,000)
51	Information	516	8,202	511,023
511	Publishing industries (except internet)	105	1,243	80,341
5111	Newspaper, periodical, book, directory publishers	73	1,023	53,005
5112	Software publishers	32	220	27,336
512	Motion picture & sound recording industries	87	1,087	18,791
5121	Motion picture & video industries	72	1,044	16,742
5122	Sound recording industries	15	43	2,049
515	Broadcasting (except internet)	48	871	46,640
5151	Radio & television broadcasting	45	856	46,002
517	Telecommunications	206	4,203	310,685
5171	Wired telecommunications carriers	105	3,329	256,254
5172	Wireless telecommunications carriers (except satellite)	88	820	50,926
5174	Satellite telecommunications	5	27	1,960
5179	Other telecommunications	8	27	1,545
518	Data processing, hosting and related services	48	714	49,883
519	Other information services	22	84	4,683

Source: U.S. Census Bureau, *2016 County Business Patterns* <<https://factfinder.census.gov>> accessed May 2, 2018.

Table 16.02-- INFORMATION (NAICS 51), BY KIND OF BUSINESS OR OPERATION: 2012

[Includes establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

NAICS code	Kind of business or operation	Establishments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12 (number)
51	Information	543	(NA)	494,741	8,329
511	Publishing industries (except Internet)	95	462,648	87,415	1,510
5111	Newspaper, periodical, book, and directory publishers	74	389,350	64,800	1,306
5112	Software publishers	21	73,298	22,615	204
512	Motion picture and sound recording industries	97	(NA)	18,444	1,034
5121	Motion picture and video industries	85	(NA)	15,814	956
5122	Sound recording industries	12	(NA)	2,630	78
515	Broadcasting (except Internet)	52	(D)	(D)	(1/)
5151	Radio and television broadcasting	49	153,236	42,373	817
5152	Cable and other subscription programming	15	(D)	(D)	(2/)
517	Telecommunications	214	(NA)	282,407	4,051
5171	Wired telecommunications carriers	109	(NA)	219,367	3,058
5172	Wireless telecommunications carriers (except satellite)	87	(3/)	57,770	933
5174	Satellite telecommunications	6	17,425	3,133	28
5179	Other telecommunications	12	6,401	2,137	32
518	Data processing, hosting and related services	62	167,053	56,866	771
5182	Data processing, hosting, and related services	62	167,053	56,866	771
519	Other information services	23	(D)	(D)	(4/)
5191	Other information services	23	(D)	(D)	(4/)

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Table 16.02 -- INFORMATION (NAICS 51), BY KIND OF BUSINESS OR OPERATION: 2012 -- Con.

NA Not available.

D Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

1/ 500 to 999 employees.

2/ 0 to 19 employees.

3/ Receipts not collected at this level of detail for multiestablishment firms.

4/ 100 to 249 employees.

Source: U.S. Census Bureau, 2012 Economic Census, Sector 51: EC1251A1: Information:

Geographic Area Series, Summary Statistics for the United States, States, Metro Areas, Counties, and Places:

2012, Hawaii <[http://factfinder.census.gov/faces/tableservices/jsf/pages/](http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ECN_2012_US_51A1&prodType=table)

[productview.xhtml?pid=ECN_2012_US_51A1&prodType=table](http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ECN_2012_US_51A1&prodType=table)> accessed April 15, 2015.

**Table 16.03-- INFORMATION (NAICS 51), BY COUNTY AND SELECTED
ECONOMIC PLACE: 2012**

[Includes establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

Geographic area	Establishments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12 (number)
State total	543	(NA)	494,741	8,329
Honolulu County	384	(NA)	429,456	6,817
Ahuimanu	1	(NA)	(D)	(1/)
Aiea	2	(NA)	(D)	(1/)
East Honolulu	14	(NA)	(D)	(2/)
Ewa Beach	1	(NA)	(D)	(1/)
Halawa	2	(NA)	(D)	(2/)
Haleiwa	3	(NA)	(D)	(1/)
Heeia	1	(NA)	(D)	(1/)
Hickam Housing	1	(NA)	(D)	(1/)
Kahaluu	2	(NA)	(D)	(2/)
Kailua	10	(NA)	1,030	22
Kaneohe	9	(NA)	3,638	133
Kaneohe Station	2	(NA)	(D)	(1/)
Kapolei	5	(NA)	1,839	83
Laie	1	(NA)	(D)	(1/)
Makaha	2	(NA)	(D)	(1/)
Makakilo	1	(NA)	(D)	(1/)
Mililani Mauka	9	(NA)	74,605	956
Mililani Town	6	(NA)	2,247	89
Nanakuli	2	(NA)	(D)	(1/)
Pearl City	10	(NA)	5,151	125
Pupukea	6	(NA)	2,721	24
Royal Kunia	2	(NA)	(D)	(2/)
Schofield Barracks	1	(NA)	(D)	(1/)
Urban Honolulu	265	(NA)	314,145	4,877
Wahiawa	2	(NA)	(D)	(2/)
Waianae	1	(NA)	(D)	(1/)
Waikele	1	(NA)	(D)	(1/)
Waimalu	8	(NA)	3,679	120
Waimanalo	1	(NA)	(D)	(1/)
Waipahu	2	(NA)	(D)	(1/)
Waipio	1	(NA)	(D)	(1/)
Balance of Honolulu County	10	(NA)	6,925	127

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**Table 16.03-- INFORMATION (NAICS 51), BY COUNTY AND SELECTED
ECONOMIC PLACE: 2012 -- Con.**

Geographic area	Establishments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12 (number)
Hawaii County	66	(NA)	28,843	664
Hawaiian Ocean View	1	(NA)	(D)	(1/)
Hilo	19	(NA)	13,441	336
Holualoa	4	(NA)	(D)	(1/)
Kahaluu-Keauhou	3	(NA)	(D)	(1/)
Kailua	16	(NA)	9,259	209
Kalaoa	5	(NA)	(D)	(2/)
Waimea	1	(NA)	(D)	(1/)
Balance of Hawaii County	17	(NA)	2,313	56
Kauai County	24	(NA)	9,726	223
Hanapepe	1	(NA)	(D)	(1/)
Kapaa	4	(NA)	267	4
Kilauea	1	(NA)	(D)	(1/)
Lihue	13	(NA)	8,488	191
Puhi	1	(NA)	(D)	(1/)
Balance of Kauai County	4	(NA)	(D)	(1/)
Maui County	69	(NA)	26,716	625
Haiku-Pauwela	2	(NA)	(D)	(1/)
Kaanapali	1	(NA)	(D)	(1/)
Kahului	23	(NA)	16,863	388
Kaunakakai	1	(NA)	(D)	(1/)
Kihei	10	(NA)	1,662	61
Kula	2	(NA)	(D)	(1/)
Lahaina	10	(NA)	2,141	51
Lanai	1	(NA)	(D)	(1/)
Makawao	4	(NA)	46	3
Paia	3	(NA)	65	3
Wailea	1	(NA)	(D)	(1/)
Wailuku	8	(NA)	5,115	96
Balance of Maui County	3	(NA)	(D)	(1/)

NA Not available.

D Withheld to avoid disclosing data for individual companies.

1/ 0 to 19 employees.

2/ 20 to 99 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 51: EC1200A1: Information: Geographic Area Series, Summary Statistics for the United States, States, Metro Areas, Counties, and Places: 2012, Hawaii" <<http://factfinder.census.gov>> accessed April 15, 2015.

**Table 16.04-- NUMBER OF POST OFFICES AND STATIONS, BY ISLAND:
SEPTEMBER 30, 2017**

Island	Total	Cost Ascertainment Group (CAG) 1/				Stations	
		A-G	H-J	K	L	Classified 2/	Contract 3/
State total	109	35	25	8	3	23	15
Hawaii	33	10	10	6	-	2	5
Maui	11	8	2	-	-	1	-
Lanai	1	-	1	-	-	-	-
Molokai	5	1	1	1	2	-	-
Oahu	43	11	4	1	-	18	9
Kauai	16	5	7	-	1	2	1
Niihau 4/	-	-	-	-	-	-	-

1/ Changes in CAG assignments are made at the beginning of the fiscal year. They are determined by the gross revenue from the prior fiscal year as follows: Gross revenue is divided by a revenue unit factor. The revenue unit factor represents the average revenue from mail and special services, including fees, per one thousand pieces of originating mail and special services transactions. CAGs range from A to L.

2/ Staffed by career postal employees.

3/ Operated under a contractual agreement between the Postal Service and an individual contractor.

4/ Niihau is served by the Makaweli Post Office on Kauai.

Source: U.S. Postal Service, Honolulu District, records.

Table 16.05-- POSTAL SERVICE: 1997 TO 2017

[Fiscal year ending September 30]

Year	Post offices, September 30	Stations, September 30 1/	Gross postal receipts (\$1,000)	Pieces of mail (millions) 2/
1997	72	59	172,714	549
1998	72	58	171,816	556
1999	72	61	174,958	560
2000	72	63	176,923	551
2001	72	63	179,182	542
2002	72	63	180,761	540
2003	72	53	193,335	535
2004	72	53	193,148	584
2005	72	53	193,361	588
2006	72	54	193,574	592
2007	72	46	198,228	596
2008	72	46	220,775	536
2009	72	46	251,116	483
2010	72	46	247,727	446
2011	70	43	201,560	595
2012	71	41	202,658	574
2013	71	43	206,241	573
2014	71	42	205,496	554
2015	71	42	202,288	543
2016	71	38	199,705	556
2017	71	38	191,552	537

1/ Includes both classified and contract stations (see Table 16.04).

2/ Originating in Hawaii.

Source: U.S. Postal Service, Honolulu District, records.

Table 16.06-- TELEPHONE STATISTICAL SUMMARY: 2004 TO 2016

Subject	Number or percent
Telecommunications revenues (\$ million)	
2004	1,196
2005	1,229
2006	1,184
2007	1,261
2008 1/	1,055
2010 1/	1,022
2011 1/	943
2013 1/	880
2014 1/	794
2015 1/	685
Telephone penetration 2/	
2004	95.4
2005	94.8
2006	95.5
2007	96.0
2008	96.5
2009	97.7
2010	95.7
2011	94.9
2012	95.9
2013	96.4
2014	95.7
2015	94.6
2016	93.7
Mobile wireless telephone subscribers	
Dec. 2003	771,023
June 2004	819,262
Dec. 2004	880,965
June 2005	934,405
Dec. 2005	983,227
June 2006	1,010,341
Dec. 2006	1,034,788
June 2007	1,066,608
Dec. 2008	1,184 (1,000s)

1/ Only end-user revenues are included since 2008, carriers' carrier revenues are excluded.

2/ Annual average percentage of households with telephone service.

Source: Federal Communications Commission, *Trends in Telephone Service* <http://hraunfoss.fcc.gov/edocs_public/attachmatch/DOC-301823A1.pdf> accessed June 29, 2012; *Telephone Subscribership in the United States* <http://hraunfoss.fcc.gov/edocs_public/attachmatch/DOC-311523A1.pdf> accessed July 17, 2013; and *Universal Service Monitoring Report* (annual) <<https://www.fcc.gov/general/federal-state-joint-board-monitoring-reports>> accessed May 2, 2018.

**Table 16.07-- STATUS OF TELEPHONE USAGE OF HOUSEHOLD
POPULATION: 2014 TO 2016**

[Percent of persons living in household]

Year	2014		2015		2016	
	Adults aged 18 years and over	Children under age 18 years	Adults aged 18 years and over	Children under age 18 years	Adults aged 18 years and over	Children under age 18 years
Wireless-only	38.3	50.3	39.3	53.1	48.3	61.8
Wireless-mostly	12.5	15.3	15.9	20.0	16.5	17.6
Dual-use	30.5	28.0	27.5	17.3	21.5	13.7
Landline-mostly	9.5	1/ 1.9	9.8	3.9	5.8	(1/)
Landline-only	6.7	1/ 2.2	5.0	1/ 2.7	5.6	3.3
No telephone service 2/	2.6	1/ 2.3	2.4	3.1	2.6	2.7

1/ Estimate has relative standard error greater than 30 percent and less than or equal to 50 percent and is considered unreliable.

2/ The proportion of children and adults living in households with no telephone service was not modeled. Other proportions were adjusted so that this estimate agreed with the American Community Survey estimates for this proportion.

Source: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, *National Health Statistics Reports, Wireless Substitution: State-level Estimates From the National Health Interview Survey Early Release Program* (annual)
<<https://www.cdc.gov/nchs/nhis/releases.htm>> accessed May 2, 2018.

Table 16.08-- STATUS OF WIRELESS-ONLY TELEPHONE USAGE OF HOUSEHOLD POPULATION: 2007 TO 2016

[Percent of persons living in household]

Year	Adults aged 18 years and over	Children under age 18 years
January - December 2007	9.3	1/ 7.5
July 2007 - June 2008	10.5	11.1
January - December 2008	12.6	14.6
July 2008 - June 2009	15.6	16.1
January - December 2009	19.7	20.4
July 2009 - June 2010	21.8	23.6
January - December 2010	23.1	29.0
July 2010 - June 2011	24.8	34.2
January - December 2011	26.0	35.6
July 2011 - June 2012	29.2	38.8
January - December 2012	31.6	43.8
January - December 2013	35.6	(NA)
January - December 2014	38.3	50.3
January - December 2015	39.3	53.1
January - December 2016	48.3	61.8

NA Not available.

1/ Estimate has a relative standard error greater than 30% and does not meet National Center for Health Statistics standards for reliability or precision.

Source: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention, National Center for Health Statistics, *National Health Statistics Reports, Wireless Substitution: State-level Estimates From the National Health Interview Survey Early Release Program* (annual) <<https://www.cdc.gov/nchs/nhis/releases.htm>> accessed May 2, 2018.

Table 16.09-- PRESENCE AND TYPES OF INTERNET SUBSCRIPTIONS IN HOUSEHOLD: 2016

Subject 1/	Hawaii		United States	
	Number of households	Percentage of total	Number of households	Percentage of total
Total households	455,868	100.0	118,860,065	100.0
With an internet subscription	380,863	83.5	97,307,412	81.9
Dial-up alone	1,690	0.4	510,666	0.4
Broadband of any type	379,173	83.2	96,796,746	81.4
Cellular data plan	324,709	71.2	81,066,266	68.2
With no other type of internet subscription	36,861	8.1	12,405,627	10.4
Broadband such as cable, fiber optic or DSL	334,692	73.4	80,017,971	67.3
With no other type of internet subscription	50,642	11.1	13,576,540	11.4
Satellite internet service	15,780	3.5	7,450,939	6.3
With no other type of internet subscription	1,205	0.3	985,139	0.8
Other service with no other type of internet subscription	173	0.0	152,681	0.1
Internet access without a subscription	18,333	4.0	3,542,094	3.0
No internet access	56,672	12.4	18,010,559	15.2

1/ Data about computer and Internet use were collected by asking respondents to select "Yes" or "No" to each type of computer and each type of Internet subscription. Therefore, respondents were able to select more than one type of computer and more than one type of Internet subscription.

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "Presence and Types of an Internet Subscriptions in Household" (B28002) <<http://factfinder2.census.gov>> accessed May 2, 2018; and calculations by the Hawaii State Department of Business, Economic, Development & Tourism.

**Table 16.10-- PRESENCE AND TYPES OF INTERNET SUBSCRIPTIONS
BY HOUSEHOLD INCOME IN THE LAST 12 MONTHS: 2016**

Subject	Type of internet subscription			
	Total	With dial-up internet subscription	With a broadband internet subscription	Without an internet subscription
Households				
All income groups	455,868	1,690	379,173	75,005
Less than \$10,000	25,137	207	13,194	11,736
\$10,000 to \$19,999	28,541	150	15,026	13,365
\$20,000 to \$34,999	46,985	157	32,485	14,343
\$35,000 to \$49,999	47,723	221	37,966	9,536
\$50,000 to \$74,999	80,844	532	68,156	12,156
\$75,000 or more	226,638	423	212,346	13,869
Percent				
All income groups	100.0	0.4	83.2	16.5
Less than \$10,000	100.0	0.8	52.5	46.7
\$10,000 to \$19,999	100.0	0.5	52.6	46.8
\$20,000 to \$34,999	100.0	0.3	69.1	30.5
\$35,000 to \$49,999	100.0	0.5	79.6	20.0
\$50,000 to \$74,999	100.0	0.7	84.3	15.0
\$75,000 or more	100.0	0.2	93.7	6.1

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "Household Income in the Last 12 Months (in 2016 Inflation-Adjusted Dollars) by Presence and Type of Internet Subscription in Household" (B28004) <<http://factfinder2.census.gov>> accessed May 2, 2018 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 16.11-- PRESENCE AND TYPES OF INTERNET SUBSCRIPTIONS IN HAWAII AND THE UNITED STATES, BY AGE GROUP: 2016

Subject	Hawaii		United States	
	Number	Percentage of the age group	Number	Percentage of the age group
Total population	1,384,270	100.0	315,047,636	100.0
Has a computer	1,312,065	94.8	293,157,071	93.1
With dial-up internet subscription alone	2,348	0.2	1,017,504	0.3
With a broadband internet subscription	1,205,508	87.1	268,488,173	85.2
Without an internet subscription	104,209	7.5	23,651,394	7.5
No computer	72,205	5.2	21,890,565	6.9
Under 18 years	306,859	100.0	73,432,181	100.0
Has a computer	298,859	97.4	70,849,349	96.5
With dial-up internet subscription alone	70	0.0	116,734	0.2
With a broadband internet subscription	278,016	90.6	65,050,932	88.6
Without an Internet subscription	20,773	6.8	5,681,683	7.7
No computer	8,000	2.6	2,582,832	3.5
18 to 64 years	842,370	100.0	193,925,254	100.0
Has a computer	815,883	96.9	184,271,173	95.0
With dial-up internet subscription alone	945	0.1	445,720	0.2
With a broadband internet subscription	750,994	89.2	169,533,827	87.4
Without an internet subscription	63,944	7.6	14,291,626	7.4
No computer	26,487	3.1	9,654,081	5.0
65 years and over	235,041	100.0	47,690,201	100.0
Has a computer	197,323	84.0	38,036,549	79.8
With dial-up internet subscription alone	1,333	0.6	455,050	1.0
With a broadband internet subscription	176,498	75.1	33,903,414	71.1
Without an internet subscription	19,492	8.3	3,678,085	7.7
No computer	37,718	16.0	9,653,652	20.2

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates, "Age by Presence of a Computer and Types of Internet Subscription in Household" (B28005) <<http://factfinder2.census.gov>> accessed May 2, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 16.12-- CABLE TELEVISION SYSTEMS, SUBSCRIBERS,
AND REVENUES, BY COUNTY: 2004 TO 2017**

[As of December 31]

Category and year	State total	County			
		Hawaii	Maui	Honolulu	Kauai
Number of systems					
2004	1/ 6	2	2	1	1
2005	1/ 6	2	2	1	1
2006	1/ 6	2	2	1	1
2007	1/ 6	2	2	1	1
2008	1/ 6	2	2	1	1
2009	1/ 6	2	2	1	1
2010	1/ 6	2	2	1	1
2011	2/ 7	2	2	2	1
2012	2/ 7	2	2	2	1
2013	2/ 7	2	2	2	1
2014	2/ 7	2	2	2	1
2015	2/ 7	2	2	2	1
2016	3/ 6	1	2	2	1
2017	3/ 6	1	2	2	1
Subscribers					
2004	389,498	38,991	50,814	278,336	21,357
2005	394,184	38,955	51,626	282,225	21,378
2006	407,299	46,274	52,937	284,038	24,050
2007	411,957	47,959	54,637	285,811	23,550
2008	414,019	48,413	54,569	287,429	23,608
2009	413,373	48,149	54,447	287,266	23,511
2010	410,347	48,073	53,519	284,945	23,810
2011	403,515	47,041	53,014	279,730	23,730
2012	(D)	(D)	(D)	(D)	(D)
2013	(D)	(D)	(D)	(D)	(D)
2014	(D)	(D)	(D)	(D)	(D)
2015	(D)	(D)	(D)	(D)	(D)
2016	(D)	(D)	(D)	(D)	(D)
2017	(D)	(D)	(D)	(D)	(D)

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**Table 16.12-- CABLE TELEVISION SYSTEMS, SUBSCRIBERS,
AND REVENUES, BY COUNTY: 2004 TO 2017 -- Con.**

Category and year	State total	County			
		Hawaii	Maui	Honolulu	Kauai
Basic service revenue (\$1,000)					
2004	145,527	16,722	18,903	101,318	8,582
2005	153,095	17,883	19,861	106,248	9,102
2006	161,329	19,181	20,997	111,308	9,842
2007	168,551	20,478	22,066	115,633	10,373
2008	181,359	21,764	23,381	125,251	10,963
2009	187,954	22,340	24,034	130,298	11,281
2010	188,374	22,554	24,350	129,900	11,568
2011	195,002	23,763	25,127	133,934	12,176
2012	199,917	24,775	26,298	136,067	12,777
2013	(D)	(D)	(D)	(D)	(D)
2014	(D)	(D)	(D)	(D)	(D)
2015	(D)	(D)	(D)	(D)	(D)
2016	(D)	(D)	(D)	(D)	(D)
2017	(D)	(D)	(D)	(D)	(D)

D Data not shown separately to avoid disclosure of individual operations.

1/ Oceanic Time Warner Cable of Hawaii was the only cable TV provider before 2011.

2/ Oceanic Time Warner Cable of Hawaii has 6 systems. Hawaiian Telcom Services Co. has 1 system.

3/ Oceanic Time Warner Cable of Hawaii has 5 systems. Hawaiian Telcom Services Co. has 1 system.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division

Table 16.13-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION, 1945 TO 2018, AND BY COUNTY, 2018

Date and county	Commercial			Public or educational		
	AM	FM	TV 1/	AM	FM	TV 1/
1945: January 1	4	-	-	-	-	-
1950: June 7	12	-	-	-	-	-
1955: January 1	13	1	3	-	1	-
1960: January 1	17	1	7	-	2	-
1965: January 1	23	2	10	-	-	-
1970: January 1	25	4	10	-	1	2
1975: January 1	26	5	10	-	1	2
1980: January 1	25	10	10	-	1	2
1985: June 30	26	17	13	-	2	2
1990: June 30	28	21	19	-	3	2
1995: June 30	29	33	20	1	3	2
2000	28	40	23	1	7	2
2001	28	40	23	1	7	2
2002	31	45	23	1	8	2
2005: June 14	32	46	25	-	9	2
2006: June 20	31	45	25	-	10	2
2007: June 19	31	47	25	-	11	2
2008: June 16	31	53	25	-	11	2
2009: June 2	32	56	13	-	11	1
2010: June 22	32	57	21	-	11	1
2011: June 28	32	57	23	-	13	2
2012: June 13	33	57	24	-	13	2
2013: June 25	31	61	22	1	15	4
2014: June 2	32	60	22	2	18	4
2015: May 29	32	62	23	2	18	4
2016: June 30	31	64	23	2	21	4
2017: February 14	31	64	23	2	20	4
2018: May 2	43	64	23	-	22	4
COUNTY: 2018						
Hawaii	6	17	6	-	4	-
Maui	12	11	5	-	7	1
Honolulu	23	28	12	-	8	3
Kauai	2	8	-	-	3	-

1/ Includes licensed stations that are digital television.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), p. 482; Federal Communications Commission, Field Operations Bureau, Honolulu, records; R.R. Bowker, *Working Press of the Nation*, Vol. 3, TV & Radio Directory, annual (for 2000-2002) and Federal Communications Commission, Media Bureau, Internet Queries (for 2005-18) <<http://www.fcc.gov/encyclopedia/audio-division-media-bureau>> accessed May 2, 2018.

**Table 16.14-- AVERAGE CIRCULATION OF DAILY, WEEKLY,
AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS:
2016**

[As of December 31, unless otherwise noted. Data prior to 2016 found in previous editions of the *Data Book* may not be comparable]

Newspaper	Average circulation
Daily	
<i>Honolulu Star-Advertiser</i>	149,241
<i>Hawaii Tribune-Herald</i> (Hilo)	13,660
<i>West Hawaii Today</i> (Kailua-Kona)	7,373
<i>Maui News</i> (Wailuku)	(NA)
<i>Garden Island</i> (Lihue)	8,207
<i>USA Today Hawaii Edition</i>	6,794
Sunday	
<i>Honolulu Star-Advertiser</i>	162,917
<i>Hawaii Tribune-Herald</i> (Hilo)	15,451
<i>West Hawaii Today</i> (Kailua-Kona)	9,498
<i>Maui News</i> (Wailuku)	(NA)
<i>Garden Island</i> (Lihue)	8,275
Weekly	
<i>MidWeek</i>	267,859
<i>Street Pulse</i>	47,068
<i>Army Weekly</i>	13,093
<i>Marine Star</i>	6,396
<i>Ho'okele</i>	19,578
<i>Kauai Midweek</i> (Kauai)	23,426

NA Not available.

Source: *2017 Oahu Publications Media Kit* <http://www.oahupublications.com/opi/2017_OPI_Media_Kit.pdf> accessed May 16, 2018.

**Table 16.15-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU:
2000 TO 2018**

[In cents. As of July 1 unless otherwise specified]

Year	Domestic first-class postage rates			Newspaper price 1/			
	Letters		Postal and post cards	Daily	Sunday		
	First ounce	Each added ounce			<i>The Honolulu Star Advertiser</i>	<i>The Honolulu Advertiser</i>	<i>Honolulu Star-Bulletin</i>
2000	33	22	20	50	(X)	175	(X)
2001	34	23	21	50	(X)	175	(X)
2002	37	23	23	50	(X)	175	75
2003	37	23	23	50	(X)	175	75
2004	37	23	23	50	(X)	175	75
2005	37	23	23	50	(X)	175	75
2006	39	24	24	50	(X)	175	75
2007	41	2/ 17	26	50	(X)	175	75
2008	42	2/ 17	27	50	(X)	175	75
2009	44	3/ 17	28	(4/)	(X)	200	100
2010	44	3/ 17	28	(4/)(5/)	(X)	5/ 200	5/ 100
2011	44	6/ 20	29	75	200	(X)	(X)
2012	45	7/ 20	32	75	200	(X)	(X)
2013	46	8/ 20	33	100	225	(X)	(X)
2014	49	9/ 21	34	100	225	(X)	(X)
2015	49	10/ 22	35	100	225	(X)	(X)
2016	11/ 47	10/ 22	35	100	225	(X)	(X)
2017	49	9/ 21	34	100	225	(X)	(X)
2018	50	12/ 21	35	100	225	(X)	(X)

Continued on next page.

**Table 16.15-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU:
2000 TO 2018 -- Con.**

X Not applicable.

1/ Street sales, for *The Honolulu Advertiser* (daily, Oahu, all years), *Honolulu Star-Bulletin* (daily, all years), the *Sunday Star-Bulletin and Advertiser* (through February 27, 1993), and the *Sunday The Honolulu Advertiser* (beginning March 7, 1993). The *Honolulu Star-Bulletin*, under new owner Oahu Publications, began to publish on March 15, 2001, with the first Sunday edition on April 1, 2001.

2/ For weight not over 2 ounces \$0.59, for weight not over 3 ounces \$0.76, for weight not over 3.5 ounces \$0.93, and for weights over 3.5 ounces flat-size rates are used.

3/ For weight not over 2 ounces \$0.61, for weight not over 3 ounces \$0.78, for weight not over 3.5 ounces \$0.95, and for weights over 3.5 ounces flat-size rates are used.

4/ \$0.75 for *The Honolulu Advertiser*, \$0.50 for *The Honolulu Star-Bulletin*.

5/ As of June 4, 2010 for Daily and as of June 6, 2010 for Sunday paper. Star-Advertiser emerged from the sale of *The Honolulu Advertiser* to the *Honolulu Star-Bulletin* on June 7, 2010.

6/ For weight not over 2 ounces \$0.64, for weight not over 3 ounces \$0.84, for weight not over 3.5 ounces \$1.04, and for weights over 3.5 ounces flat-size rates are used.

7/ For weight not over 2 ounces \$0.65, for weight not over 3 ounces \$0.85, for weight not over 3.5 ounces \$1.05, and for items over 3.5 ounces, large envelope or package prices are used.

8/ For weight not over 2 ounces \$0.66, for weight not over 3 ounces \$0.86, for weight not over 3.5 ounces \$1.06, and for items over 3.5 ounces, large envelope or package prices are used.

9/ For weight not over 2 ounces \$0.70, for weight not over 3 ounces \$0.91, for weight not over 3.5 ounces \$1.12, and for items over 3.5 ounces, large envelope or package prices are used.

10/ For weight not over 2 ounces \$0.71, for weight not over 3 ounces \$0.93, for weight not over 3.5 ounces \$1.15, and for items over 3.5 ounces, large envelope or package prices are used.

11/ Revised from previous *Data Book*.

12/ For weight not over 2 ounces \$0.71, for weight not over 3 ounces \$0.92, for weight not over 3.5 ounces \$1.13, and for items over 3.5 ounces, large envelope or package prices are used.

"Source: Postal rates from U.S. Census Bureau, Statistical Abstract of the United States: 2002, table 1094, and U.S. Postal Service, Rates and Fees <<https://www.usps.com/ship/first-class-mail.htm>> accessed May 16, 2018; Newspaper rates from *The Honolulu Star-Advertiser* <<https://gateway.staradvertiser.com/index.html>> accessed May 16, 2018."

**Table 16.16-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE
UNIVERSITY OF HAWAII PRESS: 1991 TO 2017**

Year	Published titles 1/				New books and journals published 3/		Volumes sold 3/	Book sales revenues 3/ (dollars)
	Cumulative total 2/		In print		Books	Scholarly journals		
	Paper or cloth based	Digital editions	Paper or cloth based	Digital editions				
1991	1,024	(NA)	705	(NA)	53	12	365,790	2,721,480
1992	1,072	(NA)	717	(NA)	48	12	350,274	2,611,388
1993	1,123	(NA)	738	(NA)	51	12	354,063	2,859,494
1994	1,183	(NA)	772	(NA)	60	13	378,807	2,960,051
1995	1,257	(NA)	790	(NA)	74	13	385,673	3,014,268
1996	1,323	(NA)	823	(NA)	54	12	374,168	2,896,316
1997	1,402	(NA)	833	(NA)	65	12	322,378	3,182,690
1998	1,486	(NA)	818	(NA)	84	12	290,199	3,042,984
1999	1,572	(NA)	897	(NA)	83	12	272,407	3,365,336
2000	1,650	(NA)	930	(NA)	82	12	320,509	3,340,336
2001	1,748	(NA)	1,003	(NA)	84	12	316,978	3,583,534
2002	1,854	(NA)	1,063	(NA)	93	13	299,272	3,632,013
2003	1,948	(NA)	1,113	(NA)	83	14	310,407	3,221,852
2004	2,052	(NA)	1,169	(NA)	88	14	307,481	3,769,678
2005	2,143	(NA)	1,209	(NA)	78	13	282,093	3,595,126
2006	2,233	(NA)	1,294	(NA)	78	14	321,672	4,002,717
2007	2,323	(NA)	1,289	(NA)	80	14	283,047	3,719,467
2008	2,401	(NA)	1,396	(NA)	73	14	257,537	3,735,513
2009	2,497	(NA)	1,477	(NA)	90	14	225,861	3,271,155
2010	2,559	(NA)	1,485	(NA)	58	14	207,283	3,277,930
2011	2,636	(NA)	1,539	(NA)	77	14	210,459	3,135,110
2012	2,710	(NA)	1,591	(NA)	74	14	233,994	3,221,734
2013	2,771	(NA)	1,591	(NA)	61	16	229,405	3,346,534
2014	2,799	(NA)	1,357	(NA)	73	16	220,553	3,324,607
2015	2,892	(NA)	1,342	(NA)	92	16	190,706	3,521,581
2016	3,164	1,113	1,773	1,113	73	17	199,677	3,378,388
2017	3,453	1,840	2,034	1,840	61	19	220,094	3,409,451

1/ As of June 30. Excludes journals.

2/ Includes books and other media, but not journals.

3/ Year ending June 30.

Source: The University of Hawaii Press, *Annual Report* and records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on fuel resources, energy production and consumption, the electric and gas utility industries, research and development, and scientific, engineering, and technological resources. Related series are cited in Sections 12 (utility employment), 14 (prices), and 18 (gasoline consumption).

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy; U.S. Patent and Trademark Office; U.S. Bureau of Labor Statistics; National Science Foundation; Hawaii State Department of Taxation; Hawaii State Department of Commerce and Consumer Affairs; Hawaii State Department of Business, Economic Development & Tourism, Strategic Industries Division; University of Hawaii, Institute of Astronomy; and individual utility companies. *Historical Statistics of Hawaii*, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the *Statistical Abstract of the United States: 2012*, Sections 16 and 19.

Table
Number **Table Name**

(Click on the table number to go to corresponding table)

Narrative

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**Table 17.01-- CONSUMPTION OF ENERGY, BY SOURCE
(PHYSICAL UNITS): 1960 TO 2015**

Year	Coal (1,000 short tons)	Natural gas (billion cubic feet) 1/	Petroleum (1,000 barrels)	Hydroelectric power (million kWh) 2/	Fuel ethanol (1,000 barrels) 3/
1960	-	-	16,844	27	(NA)
1965	-	-	22,478	105	(NA)
1970	-	-	34,105	108	(NA)
1971	-	-	36,734	89	(NA)
1972	-	-	37,753	91	(NA)
1973	-	-	38,826	95	(NA)
1974	-	-	36,739	92	(NA)
1975	-	-	37,097	89	(NA)
1976	-	-	38,047	93	(NA)
1977	-	-	40,326	86	(NA)
1978	-	-	40,945	84	(NA)
1979	-	-	44,660	90	(NA)
1980	-	3	43,562	86	(NA)
1981	-	3	38,811	80	4
1982	47	3	35,706	90	1
1983	42	3	36,291	84	-
1984	38	2	37,297	82	-
1985	46	2	40,006	86	-
1986	16	2	39,044	78	-
1987	63	3	39,389	82	-
1988	50	3	45,902	81	-
1989	32	3	48,021	56	-
1990	29	3	50,015	80	-
1991	45	3	45,758	71	-
1992	303	3	46,655	61	-
1993	691	3	41,392	56	-
1994	704	3	44,843	139	-
1995	895	3	43,842	98	-
1996	930	3	41,631	104	-
1997	933	3	39,829	115	-
1998	822	3	40,493	121	-
1999	801	3	39,662	115	-
2000	816	3	40,591	103	-
2001	829	3	41,479	101	-
2002	748	3	44,772	95	-
2003	784	3	46,861	91	-
2004	797	3	49,098	94	-
2005	740	3	51,267	96	341
2006	714	3	51,564	120	390
2007	764	3	52,905	92	497

Continued on next page.

**Table 17.01-- CONSUMPTION OF ENERGY, BY SOURCE
(PHYSICAL UNITS): 1960 TO 2015 -- Con.**

Year	Coal (1,000 short tons)	Natural gas (billion cubic feet) 1/	Petroleum (1,000 barrels)	Hydroelectric power (million kWh) 2/	Fuel ethanol (1,000 barrels) 3/
2008	840	3	42,397	84	918
2009	791	3	42,472	113	1,051
2010	803	3	42,729	70	803
2011	783	3	44,334	93	931
2012	803	3	42,749	115	845
2013	753	3	4/ 42,319	78	873
2014	831	3	4/ 41,906	94	4/ 951
2015	747	3	42,625	121	1,135

NA Not available.

1/ Includes supplemental gaseous fuels.

2/ Conventional hydroelectric power. Does not include pumped-storage hydroelectricity.

3/ Includes denaturant.

4/ Revised from previous *Data Book*.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS) "Energy Consumption Estimates for Major Energy Sources in Physical Units, Selected Years, 1960-2015, Hawaii" (CT1) <https://www.eia.gov/state/seds/sep_use/notes/use_print.pdf> accessed October 23, 2017.

Table 17.02-- CONSUMPTION OF ENERGY, BY SOURCE: 1970 TO 2015

[Trillion Btu]

Year	Total 1/	Fossil fuels			Renewable energy					Fossil fuels (as commingled)	
		Coal	Natural gas 2/	Petroleum	Hydro- electric power 3/	Biomass	Geo- thermal	Solar/PV 4/	Wind	Natural gas 2/ 5/	Motor gasoline 2/ 6/
1970	197.0	-	-	195.4	1.1	0.4	-	(NA)	(NA)	-	29.9
1971	211.7	-	-	210.4	0.9	0.3	-	(NA)	(NA)	-	30.8
1972	218.1	-	-	216.6	0.9	0.6	-	(NA)	(NA)	-	32.6
1973	224.3	-	-	222.8	1.0	0.5	-	(NA)	(NA)	-	34.7
1974	212.1	-	-	210.6	1.0	0.6	-	(NA)	(NA)	-	34.4
1975	214.4	-	-	212.9	0.9	0.6	-	(NA)	(NA)	-	35.5
1976	220.1	-	-	218.4	1.0	0.7	-	(NA)	(NA)	-	36.9
1977	233.4	-	-	232.0	0.9	0.5	-	(NA)	(NA)	-	38.9
1978	237.0	-	-	235.8	0.9	0.3	-	(NA)	(NA)	-	40.1
1979	256.7	-	-	255.4	0.9	0.3	-	(NA)	(NA)	-	39.4
1980	262.5	-	-	249.6	0.9	11.9	-	(NA)	(NA)	3.0	38.0
1981	236.8	-	-	223.2	0.8	12.7	-	(NA)	(NA)	2.8	37.7
1982	218.3	1.1	-	203.8	0.9	12.4	-	(NA)	(NA)	2.8	38.1
1983	221.3	1.0	-	205.4	0.9	14.0	-	(NA)	-	2.7	38.0
1984	232.4	0.9	-	216.1	0.9	14.3	0.2	-	-	2.4	39.5
1985	248.6	1.1	-	232.1	0.9	14.2	0.2	-	-	2.7	39.9
1986	245.3	0.4	-	227.6	0.8	16.3	0.2	-	-	2.7	41.4
1987	249.5	1.6	0.2	228.9	0.9	17.8	0.2	-	-	2.8	43.0
1988	289.7	1.2	-	268.0	0.8	19.4	0.2	-	-	2.8	44.5
1989	309.8	0.8	-	280.1	0.6	27.0	0.2	0.8	0.3	2.9	46.0
1990	321.4	0.7	-	292.8	0.8	25.9	(7/)	0.9	0.3	3.0	45.5
1991	295.2	1.1	-	266.6	0.7	25.4	(7/)	1.0	0.4	2.9	47.1
1992	8/ 306.0	6.8	-	272.5	0.6	24.9	(7/)	1.0	0.2	2.9	46.6

Continued on next page.

Table 17.02-- CONSUMPTION OF ENERGY, BY SOURCE: 1970 TO 2015 -- Con.

[Trillion Btu]

Year	Total 1/	Fossil fuels			Renewable energy					Fossil fuels (as commingled)	
		Coal	Natural gas 2/	Petroleum	Hydro- electric power 3/	Biomass	Geo- thermal	Solar/PV 4/	Wind	Natural gas 2/ 5/	Motor gasoline 2/ 6/
1993	282.9	15.6	-	239.5	0.6	24.4	1.6	1.1	0.2	2.8	47.4
1994	8/ 299.3	15.7	-	258.2	1.4	20.7	1.9	1.1	0.2	2.9	48.9
1995	8/ 297.0	19.9	-	252.5	1.0	19.8	2.4	1.2	0.2	2.9	49.1
1996	283.3	20.4	-	238.8	1.1	19.1	2.5	1.2	0.2	2.8	48.9
1997	273.6	20.5	-	230.6	1.2	17.4	2.5	8/ 1.2	0.2	2.7	48.8
1998	8/ 273.5	18.2	-	233.6	1.2	16.5	2.4	1.3	0.2	2.8	48.7
1999	8/ 269.4	17.7	-	230.0	1.2	17.0	2.2	1.3	0.2	2.9	46.7
2000	8/ 273.4	17.7	0.1	235.3	1.1	15.2	2.7	1.3	0.2	3.0	48.4
2001	8/ 270.2	17.8	0.1	239.9	1.0	7.9	2.1	8/ 1.2	(7/)	2.9	50.6
2002	8/ 284.8	16.6	0.1	257.6	1.0	7.5	0.7	8/ 1.2	(7/)	2.9	54.3
2003	8/ 301.0	18.0	0.1	269.5	0.9	9.3	1.8	8/ 1.3	(7/)	2.9	55.1
2004	8/ 314.8	17.9	0.2	282.9	0.9	9.3	2.1	8/ 1.3	0.1	2.9	55.9
2005	8/ 324.7	16.5	0.2	293.9	1.0	9.6	2.2	8/ 1.3	0.1	2.9	57.1
2006	8/ 327.2	16.1	0.2	295.6	1.2	9.9	2.1	8/ 1.4	0.8	2.9	59.9
2007	8/ 337.7	17.1	0.2	303.7	0.9	9.7	2.3	8/ 1.5	2.4	3.0	58.5
2008	8/ 276.6	18.1	0.1	239.3	0.8	11.8	2.3	8/ 1.8	2.4	2.8	54.7
2009	8/ 276.0	17.1	0.2	239.3	1.1	12.2	1.6	8/ 2.0	2.5	2.7	55.3
2010	8/ 276.9	17.1	0.2	241.7	0.7	10.4	2.0	8/ 2.3	2.5	2.7	50.7
2011	8/ 285.3	16.1	0.2	249.3	0.9	10.6	2.2	8/ 2.8	3.3	2.7	56.5
2012	8/ 277.8	16.6	0.2	240.0	1.1	9.6	2.5	8/ 4.3	3.6	2.8	53.6
2013	8/ 278.4	15.3	0.2	8/ 237.4	0.7	11.2	2.6	8/ 6.1	4.8	8/ 2.9	54.4
2014	8/ 279.0	17.2	0.2	8/ 234.2	0.9	11.0	2.4	8/ 7.5	5.5	2.8	8/ 54.8
2015	282.4	15.6	0.2	237.8	1.1	11.5	2.2	8.4	5.7	2.9	55.4

Continued on next page.

Table 17.02-- CONSUMPTION OF ENERGY, BY SOURCE: 1970 TO 2015 -- Con.

NA Not available.

1/ Excluding fossil fuels as commingled.

2/ Supplemental gaseous fuels (SGF) and fuel ethanol are consumed with natural gas and motor gasoline, respectively. In this table, natural gas excluding SGF and motor gasoline excluding fuel ethanol are presented so that a fossil fuel total can be calculated. Natural gas including SGF and motor gasoline including fuel ethanol are presented separately for reference.

3/ Conventional hydroelectric power. Does not include pumped-storage hydroelectricity.

4/ Solar thermal and photovoltaic energy.

5/ Including supplemental gaseous fuels.

6/ Including fuel ethanol.

7/ Value less than +0.05 and greater than -0.05.

8/ Revised from previous *Data Book*.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS) "Primary Energy Consumption Estimates, Selected Years, 1960-2015, Hawaii" (CT2) <https://www.eia.gov/state/seds/sep_use/notes/use_print.pdf> accessed October 24, 2017.

**Table 17.03-- CONSUMPTION OF ENERGY, BY END-USE SECTOR:
1960 TO 2015**

[Trillion Btu]

Year	Residential 1/ 2/	Commercial 1/ 3/ 4/ 5/	Industrial 1/ 4/ 5/	Transportation 1/ 4/	Electric power 1/ 2/
1960	7.1	5.3	20.6	61.8	17.6
1961	7.3	5.6	26.8	74.0	19.4
1962	7.7	5.7	28.7	66.1	21.4
1963	8.7	6.2	29.9	69.5	24.2
1964	9.4	6.9	32.4	74.8	26.7
1965	9.9	7.0	34.7	79.0	27.6
1966	10.5	7.7	35.8	91.5	29.7
1967	11.7	8.4	38.7	105.1	31.3
1968	12.6	9.2	38.9	122.0	35.0
1969	14.1	10.7	41.0	125.1	38.7
1970	15.5	12.5	43.7	125.3	43.2
1971	16.8	12.5	43.6	138.8	47.7
1972	18.6	13.7	49.2	136.5	54.1
1973	19.0	14.5	49.9	140.9	55.6
1974	19.3	14.3	49.9	128.7	57.5
1975	19.0	14.5	50.4	130.5	58.8
1976	20.3	16.4	51.7	131.7	62.5
1977	20.7	18.0	53.3	141.3	65.2
1978	20.8	18.5	53.1	144.6	66.8
1979	21.4	19.7	59.2	156.4	67.7
1980	21.0	20.1	74.7	146.7	69.7
1981	20.9	18.1	73.7	124.1	69.9
1982	19.6	16.9	79.6	102.2	66.9
1983	20.1	17.2	66.2	117.9	68.6
1984	19.7	18.3	65.0	129.4	70.4
1985	19.9	18.4	67.3	142.9	69.8
1986	20.4	20.9	76.9	127.1	72.7
1987	22.0	23.8	79.6	124.1	76.5
1988	23.0	36.9	88.8	140.9	81.7
1989	25.4	36.1	93.8	154.5	86.5
1990	30.7	37.2	98.9	154.5	105.9
1991	26.1	28.8	89.0	151.2	88.7
1992	29.7	38.6	93.6	144.1	99.3
1993	29.6	30.7	92.3	130.4	99.5
1994	30.5	35.0	93.8	140.0	102.3
1995	31.3	34.6	93.0	138.2	105.5
1996	6/ 32.0	34.0	95.6	121.6	107.4
1997	6/ 32.1	35.5	88.7	117.3	107.3
1998	6/ 32.3	45.9	80.7	114.6	105.6

Continued on next page.

**Table 17.03-- CONSUMPTION OF ENERGY, BY END-USE SECTOR:
1960 TO 2015 -- Con.**

[Trillion Btu]

Year	Residential 1/ 2/	Commercial 1/ 3/ 4/ 5/	Industrial 1/ 4/ 5/	Transportation 1/ 4/	Electric power 1/ 2/
1999	32.4	36.0	78.0	123.1	106.6
2000	6/ 33.0	37.3	78.0	125.2	108.5
2001	32.2	36.6	69.5	132.0	105.3
2002	6/ 34.5	6/ 39.4	70.8	140.2	110.9
2003	6/ 31.8	37.5	68.8	162.9	102.7
2004	6/ 32.6	41.3	68.9	172.0	104.4
2005	6/ 33.3	39.9	72.4	179.1	104.1
2006	6/ 33.7	6/ 40.7	71.6	181.3	104.7
2007	6/ 34.1	40.2	69.0	194.4	105.7
2008	6/ 33.4	6/ 40.9	65.8	136.5	102.8
2009	6/ 33.3	6/ 40.7	69.1	133.0	100.3
2010	6/ 32.6	6/ 40.1	68.0	136.3	98.7
2011	6/ 32.4	6/ 41.1	67.4	144.3	6/ 98.9
2012	6/ 31.5	6/ 39.2	65.1	6/ 142.0	6/ 94.8
2013	6/ 30.9	6/ 40.6	6/ 65.3	141.5	6/ 92.3
2014	6/ 31.4	6/ 41.0	6/ 64.5	6/ 142.2	6/ 92.1
2015	31.8	41.3	64.1	145.2	91.6

1/ There is a discontinuity between 1988 and 1989 due to the expanded coverage of renewable energy sources beginning in 1989.

2/ Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

3/ Small amounts of solar thermal and photovoltaic energy consumed in the commercial sector cannot be separately identified and are included in residential consumption.

4/ From 1981 through 1992, includes fuel ethanol blended into motor gasoline that is not included in the motor gasoline column.

5/ Beginning in 1980, adjusted for the double-counting of supplemental gaseous fuels, which are included in both natural gas and the other fossil fuels from which they are mostly derived, but should be counted only once in net energy and total.

6/ Revised from previous *Data Book*.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS) Consumption Estimates, Selected Years, 1960-2015, Hawaii (CT4-CT8), and earlier editions <https://www.eia.gov/state/seds/sep_use/notes/use_print.pdf> accessed October 24, 2017.

**Table 17.04-- PRIMARY ENERGY CONSUMPTION AND ELECTRICITY SALES,
TOTAL AND PER CAPITA: 1994 TO 2016**

Year	Primary energy consumption		Electricity sales by utilities	
	Total (trillion Btu)	Per capita (million Btu) 2/	Total (1,000 kWh)	Per capita (kWh) 2/
1994	299.3730	232.1074	8,948	6,938
1995	297.0370	228.8467	9,188	7,078
1996	283.2620	217.2649	9,379	7,193
1997	273.5760	206.0455	9,363	7,037
1998	273.5160	205.0482	9,261	6,942
1999	269.4480	202.2617	9,381	7,040
2000	273.4300	204.7111	9,691	7,253
2001	270.2450	202.0927	9,785	7,309
2002	284.8020	210.5612	9,892	7,360
2003	300.9770	221.5970	10,391	7,512
2004	314.7600	226.9509	10,732	7,573
2005	324.7410	230.0269	10,539	7,461
2006	327.1870	228.8608	10,568	7,387
2007	337.7430	235.8076	10,585	7,384
2008	276.6460	193.4260	10,390	7,252
2009	276.0350	191.7964	10,126	7,020
2010 1/	277.1280	188.7087	10,017	6,819
2011 1/	285.5480	191.6064	9,962	6,691
2012 1/	277.9350	183.0864	9,639	6,361
2013 1/	278.5080	180.6185	9,503	6,179
2014 1/	279.3210	179.1634	9,475	6,073
2015 1/	283.1870	179.4748	9,511	6,008
2016	282.9120	178.6890	9,445	5,966

1/ 'Total' and 'Per capita' for 'Primary energy consumption' revised from previous *Data Book*.

2/ Based on estimated de facto population.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS) <<http://www.eia.gov/state/seds/seds-data-fuel.cfm?sid=HI>> accessed June 27, 2018 and calculations by Hawaii State Department of Business, Economic Development and Tourism.

**Table 17.05-- PRIMARY ENERGY CONSUMPTION, BY SOURCE:
2000 TO 2016**

[Billion Btu. Components may not sum to totals due to rounding]

Year	Total	Petroleum	Coal	Natural gas	Renewable
2000	273,430	235,315	17,653	76	20,386
2001	270,245	239,948	17,774	134	12,389
2002	284,802	257,593	16,618	140	10,452
2003	300,977	269,486	18,044	137	13,310
2004	314,760	282,923	17,913	155	13,769
2005	324,741	1/ 293,913	16,506	195	1/ 14,127
2006	327,186	1/ 295,546	16,102	179	1/ 15,360
2007	337,743	1/ 303,693	17,107	173	1/ 16,769
2008	276,646	1/ 239,265	18,095	148	1/ 19,136
2009	276,035	1/ 239,296	17,083	167	1/ 19,488
2010	1/ 277,128	1/ 241,897	17,117	161	1/ 17,953
2011	1/ 285,548	1/ 249,512	16,080	158	1/ 19,799
2012	1/ 277,935	1/ 240,114	16,572	187	1/ 21,062
2013	1/ 278,508	1/ 237,575	15,306	197	1/ 25,430
2014	1/ 279,321	1/ 234,532	17,241	167	1/ 27,381
2015	1/ 283,187	1/ 238,504	15,632	1/ 196	1/ 28,856
2016	282,912	234,946	16,431	163	31,372
Year	Biomass	Solar	Wind	Geothermal	Hydro
2000	15,194	1,282	173	2,681	1,055
2001	7,947	1,236	22	2,143	1,041
2002	7,480	1,240	16	748	967
2003	9,305	1,259	16	1,813	916
2004	9,336	1/ 1,272	75	2,144	941
2005	1/ 9,574	1,301	66	2,224	962
2006	1/ 9,885	1,380	790	2,114	1,191
2007	1/ 9,707	1/ 1,515	2,354	2,280	913
2008	1/ 11,834	1,790	2,365	2,316	831
2009	1/ 12,274	1/ 2,018	2,454	1,643	1,099
2010	1/ 10,464	2,291	2,547	1,964	687
2011	1/ 10,564	1/ 2,836	3,311	2,183	905
2012	1/ 9,616	1/ 4,264	3,599	2,491	1,090
2013	1/ 11,195	1/ 6,056	4,802	2,630	747
2014	1/ 11,023	1/ 7,538	5,503	2,422	895
2015	1/ 11,534	1/ 8,328	5,710	2,154	1,129
2016	12,459	9,765	5,900	2,409	839

1/ Revised from previous *Data Book*.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS) <<http://www.eia.gov/state/seds/seds-data-fuel.cfm?sid=HI>> accessed June 27, 2018 and calculations by Hawaii State Department of Business, Economic Development and Tourism.

Table 17.06-- ELECTRICITY GENERATION, BY SOURCE: 2000 TO 2016

[Millions of kWh generated]

Year	Total	Petroleum	Coal	Wind	Biomass
2000	10,593.4030	8,051.7820	1,578.5850	17.0030	538.3490
2001	10,633.0930	8,223.8240	1,604.7640	2.1220	287.7080
2002	11,663.0700	9,466.9900	1,545.7970	1.6140	296.5430
2003	10,976.3710	8,502.5500	1,644.1370	1.5720	347.1670
2004	11,410.4030	8,944.6960	1,603.7510	7.4950	328.8320
2005	11,522.8050	9,067.5920	1,630.9180	6.6320	309.7400
2006	11,559.1740	9,054.4740	1,548.5950	79.6740	325.6920
2007	11,533.3500	8,914.2070	1,578.9310	238.1840	285.2770
2008	11,376.3850	8,669.9340	1,647.5920	240.0230	302.4230
2009	11,010.5330	8,289.1070	1,500.1660	251.4270	284.4270
2010	10,836.0360	8,087.3370	1,545.5130	261.1200	283.4740
2011	10,723.3329	7,923.9252	1,424.0357	340.8120	312.6269
2012	10,469.2687	7,482.7604	1,537.3403	378.2340	280.9761
2013	10,267.0523	7,222.7658	1,403.7539	503.3100	329.3643
2014	10,204.1583	6,925.9187	1,511.1838	578.6170	334.0301
2015	10,120.0000	7,023.0000	1,337.0000	613.0000	320.0000
2016	9,948.8450	6,640.3160	1,497.3800	639.1270	359.4660

Year	Geothermal	Hydro	Other gases 1/	Solar	Others
2000	262.0530	103.4580	42.1730	-	-
2001	206.5920	100.7500	37.8550	-	169.4780
2002	72.7610	95.0680	40.8160	-	143.4810
2003	178.2920	90.5050	40.2510	-	171.8970
2004	213.2880	93.9010	47.9080	-	170.5320
2005	221.5970	96.1880	41.1330	-	149.0050
2006	212.2760	120.0870	42.7570	-	175.6190
2007	229.8860	92.3430	45.2260	-	149.2960
2008	234.3330	84.3430	38.5720	-	159.1470
2009	167.5910	112.6490	22.3450	1.3900	381.4310
2010	200.5950	70.4230	21.9150	1.7700	363.8890
2011	223.8880	93.1407	35.2502	3.5930	366.0612
2012	260.9970	114.5810	47.0363	4.6080	362.7356
2013	274.8410	78.2946	41.3297	19.4660	393.9271
2014	253.8410	94.0831	62.2040	39.2618	405.0189
2015	230.0000	121.0000	55.0000	54.4000	369.0000
2016	260.1020	90.8490	51.0060	88.5110	322.0890

1/ Other gases include blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS) Detailed State Data 1990-2016 Net Generation by State by Type of Producer by Energy Source (EIA-906, EIA-920, and EIA-923) <<http://www.eia.gov/electricity/data/state/>> accessed June 27, 2018.

**Table 17.07-- ELECTRICITY PRODUCTION, BY SOURCE, STATE TOTAL
AND BY ISLAND: 2016**

[Million kWh]

Island	Total	Petroleum	Coal	Wind	Biomass
State total	9,948.85	6,640.32	1,497.38	639.13	359.47
Hawaii	1,159.57	699.65	-	141.80	-
Maui	1,154.65	857.72	16.00	270.04	3.33
Lanai	31.05	31.05	-	-	-
Molokai	32.05	32.05	-	-	-
Oahu	7,109.65	4,670.33	1,481.38	227.29	318.38
Kauai	461.88	349.52	-	-	37.76
Island	Geothermal	Hydro	Other gases 1/	Solar	Others
State total	260.10	90.85	51.01	88.51	322.09
Hawaii	260.10	55.12	-	2.90	-
Maui	-	1.02	-	6.53	-
Lanai	-	-	-	-	-
Molokai	-	-	-	-	-
Oahu	-	-	51.01	39.18	322.09
Kauai	-	34.71	-	39.90	-

1/ Other gases include blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS), Detailed State Data 1990-2016 Net Generation: by State, Type of Producer, and Energy Source (EIA-906, EIA-920, and EIA-923) <<http://www.eia.gov/electricity/data/state/>> accessed July 2, 2018 and calculations by Hawaii State Department of Business, Economic Development and Tourism.

**Table 17.08 -- FUEL, ELECTRICITY, AND TOTAL ENERGY EXPENDITURES,
BY SOURCE: 1994 TO 2016**

[Millions of dollars]

Year	Total energy expenditures	Primary energy expenditures	Electricity additions	Retail electricity expenditures	Electricity fuel cost
1994	2,122.1	1,441.7	680.4	937.3	256.9
1995 1/	2,202.7	1,470.2	732.5	1,017.7	285.3
1996 1/	2,305.8	1,532.5	773.3	1,119.7	346.3
1997 1/	2,272.6	1,455.8	816.8	1,152.7	336.0
1998	2,092.5	1,296.7	795.8	1,054.4	258.6
1999	2,163.2	1,379.8	783.4	1,106.5	323.1
2000 1/	2,705.1	1,863.0	842.1	1,341.2	499.0
2001 1/	2,779.2	1,891.1	888.1	1,353.4	465.2
2002	2,688.2	1,882.7	805.5	1,300.2	494.7
2003	3,335.9	2,341.4	994.5	1,478.9	484.4
2004	4,024.6	2,886.3	1,138.3	1,654.9	516.6
2005 1/	4,996.9	3,892.2	1,104.7	1,897.8	793.2
2006	5,729.1	4,535.9	1,193.2	2,152.2	959.0
2007	6,177.1	4,994.8	1,182.3	2,213.3	1,031.0
2008 1/	6,828.5	5,297.3	1,531.2	2,978.3	1,447.2
2009	4,804.8	3,540.1	1,264.7	2,111.7	847.0
2010 2/	5,863.7	4,530.7	1,333.0	2,473.3	1,140.3
2011 2/	7,682.5	6,184.3	1,498.2	3,090.5	1,592.3
2012 2/	7,845.7	6,246.7	1,599.0	3,219.0	1,620.0
2013 2/	7,684.4	6,013.5	1,670.9	3,153.6	1,482.7
2014 2/	7,434.0	5,648.0	1,786.0	3,159.3	1,373.3
2015 2/	5,708.6	4,010.1	1,698.5	2,474.9	776.4
2016	5,037.8	3,403.0	1,634.8	2,242.6	607.8

1/ 'Energy additions' revised from previous *Data Book*.

2/ 'Total energy expenditures' and 'Primary energy expenditures' revised from previous *Data Book*.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data System (SEDS) <<http://www.eia.gov/state/seds/seds-data-fuel.cfm?sid=HI>> accessed June 26, 2018 and calculations by Hawaii State Department of Business, Economic Development and Tourism.

Table 17.09-- ELECTRIC UTILITIES: 2002 TO 2017

Year	Customers, Dec. 31			Power sold (1,000 kWh)		
	Total	Residen- tial 1/	Other	Total	Residen- tial 1/	Other
2002	441,323	380,608	60,715	9,958,768	2,921,563	7,037,206
2003	449,354	387,162	62,192	10,206,405	3,024,509	7,181,896
2004	455,278	391,567	63,711	10,508,642	3,156,499	7,352,143
2005	463,088	398,332	64,756	10,538,507	3,164,029	7,374,478
2006	469,013	403,278	65,735	10,567,912	3,182,431	7,385,481
2007	475,104	408,923	66,181	10,585,037	3,200,674	7,384,363
2008	476,124	410,477	65,647	10,390,010	3,085,183	7,304,827
2009	478,588	413,641	64,947	10,125,935	3,055,242	7,070,693
2010	480,918	416,141	64,777	10,013,104	2,989,437	7,023,667
2011	482,498	418,174	64,324	9,961,653	2,928,743	7,032,910
2012	484,716	420,240	64,476	9,639,157	2,739,299	6,899,858
2013	488,456	423,281	65,175	9,496,294	2,606,502	6,889,793
2014	492,358	426,862	65,496	9,406,155	2,538,865	6,867,290
2015	494,632	429,085	65,547	9,388,577	2,558,285	6,830,292
2016	497,292	431,496	65,796	9,284,424	2,496,694	6,787,729
2017	499,664	435,104	64,560	9,135,529	2,503,831	6,631,699

Year	Average annual use (kWh) 2/		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residen- tial 1/	Other	Residen- tial 1/	Other	Total	Residen- tial 1/	Other
2002	7,676	115,906	0.15703	0.12508	1,338,980	458,781	880,199
2003	7,812	115,479	0.16743	0.13629	1,485,234	506,399	978,835
2004	8,061	115,398	0.18031	0.14793	1,656,764	569,162	1,087,601
2005	7,943	113,881	0.20656	0.17280	1,927,872	653,568	1,274,304
2006	7,891	112,352	0.23347	0.19595	2,190,152	742,994	1,447,159
2007	7,827	111,578	0.24122	0.20061	2,253,431	772,064	1,481,367
2008	7,516	111,274	0.32497	0.27809	3,033,950	1,002,583	2,031,367
2009	7,386	108,869	0.24202	0.19923	2,148,123	739,416	1,408,707
2010	7,184	108,428	0.28101	0.23857	2,515,731	840,066	1,675,665
2011	7,004	109,336	0.34681	0.30304	3,146,960	1,015,703	2,131,256
2012	6,518	107,014	0.37343	0.32727	3,281,058	1,022,944	2,258,114
2013	6,158	105,712	0.36813	0.31735	3,146,011	959,542	2,186,468
2014	5,948	104,851	0.37342	0.32126	3,154,227	948,062	2,206,164
2015	5,962	104,204	0.29918	0.24909	2,466,759	765,399	1,701,360
2016	5,786	103,163	0.27819	0.22555	2,225,520	694,564	1,530,956
2017	5,755	102,722	0.29967	0.24800	2,394,971	750,316	1,644,655

Continued on next page.

Table 17.09-- ELECTRIC UTILITIES: 2002 TO 2017 -- Con.

1/ 'Residential' refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy; Hawaii State Department of Business, Economic Development and Tourism, Strategic Industries Division; *Monthly Financial Reports* issued by utility companies (Hawaiian Electric Company, Maui Electric Company, Hawaii Electric Light Company and Kauai Island Utility Cooperative); calculations by Hawaii State Department of Business, Economic Development and Tourism; and records.

Table 17.10-- ELECTRIC UTILITIES, BY ISLAND: 2017

Island	Customers, Dec. 31			Net peak demand (mW)	Power sold (1,000 kWh)		
	Total	Residential 1/	Other		Total	Residential 1/	Other
State total	499,664	435,104	64,560	1,693.3	9,135,529	2,503,831	6,631,699
Oahu	304,948	271,065	33,883	1,212.8	6,548,697	1,578,773	4,969,924
Hawaii	85,925	74,274	11,651	190.5	1,046,950	392,019	654,931
Kauai	37,439	28,863	8,576	75.2	445,098	169,346	275,752
Lanai	1,732	1,485	247	6.0	29,947	7,407	22,540
Maui	66,394	56,728	9,666	202.9	1,036,638	345,906	690,732
Molokai	3,226	2,689	537	5.9	28,199	10,379	17,820
Island	Average annual use (kWh) 2/		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	5,755	102,721	0.29967	0.24800	2,394,971	750,316	1,644,655
Oahu	5,824	146,679	0.28215	0.23070	1,592,016	445,453	1,146,563
Hawaii	5,278	56,212	0.34196	0.30178	331,697	134,055	197,642
Kauai	5,867	32,154	0.34521	0.32245	147,376	58,459	88,916
Lanai	4,988	91,257	0.35872	0.35839	10,735	2,657	8,078
Maui	6,098	71,460	0.30644	0.28580	303,413	105,999	197,414
Molokai	3,860	33,184	0.35574	0.33900	9,733	3,692	6,041

1/ 'Residential' refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: *Monthly Financial Reports* issued by utility companies (Hawaiian Electric Company, Maui Electric Company, Hawaii Electric Light Company and Kauai Island Utility Cooperative) and calculations by Hawaii State Department of Business, Economic Development and Tourism.

Table 17.11-- GAS UTILITIES: 2002 TO 2017

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (million therms)		
	Total	Residen- tial 1/	Other	Total	Residen- tial 1/	Other
2002	36,236	32,629	3,607	34.0	5.4	28.6
2003	36,046	32,415	3,631	33.6	5.2	28.4
2004	36,049	32,413	3,636	34.2	5.1	29.2
2005	35,850	32,229	3,621	34.2	5.0	29.2
2006	35,793	32,164	3,629	34.3	5.0	29.4
2007	35,692	32,078	3,614	34.7	4.9	29.8
2008	35,364	31,752	3,612	33.1	4.8	28.3
2009	35,449	31,821	3,628	31.9	4.7	27.2
2010	35,317	31,656	3,661	32.3	4.7	27.5
2011	35,226	31,552	3,674	32.4	4.5	27.9
2012	35,183	31,478	3,705	32.3	4.6	27.7
2013	35,116	31,412	3,704	33.1	4.4	28.7
2014	35,186	31,463	3,723	33.1	4.3	28.8
2015	35,248	31,482	3,766	34.1	4.3	29.8
2016	35,408	31,574	3,834	35.5	4.3	31.2
2017	35,494	31,638	3,856	36.2	4.3	31.8

Year	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000,000)		
	Residen- tial 1/	Other	Residen- tial 1/	Other	Total	Residen- tial 1/	Other
2002	164	7,934	2.87	1.51	58.5	15.4	43.1
2003	159	7,818	3.06	1.71	64.4	15.8	48.6
2004	157	8,018	3.23	1.88	71.2	16.5	54.8
2005	156	8,066	3.64	2.27	84.5	18.4	66.2
2006	155	8,090	3.87	2.46	91.6	19.3	72.3
2007	154	8,232	3.94	2.53	94.5	19.4	75.1
2008	151	7,833	4.89	3.47	121.7	23.5	98.2
2009	149	7,491	4.19	2.68	92.7	19.9	72.9
2010	150	7,522	4.99	3.27	113.8	23.6	90.2
2011	144	7,585	6.05	4.02	139.5	27.5	112.0
2012	146	7,481	5.61	4.28	144.5	25.8	118.7
2013	141	7,737	5.45	3.91	136.3	24.2	112.1
2014	137	7,738	5.48	3.89	135.8	23.6	112.2
2015	136	7,909	4.68	2.94	107.6	20.1	87.5
2016	138	8,129	4.31	2.50	96.8	18.7	78.0
2017	137	8,306	4.53	2.74	107.1	19.7	87.4

Continued on next page.

Table 17.11-- GAS UTILITIES: 2002 TO 2017 -- Con.

1/ 'Residential' refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy; Hawaii State Department of Business, Economic Development and Tourism, Strategic Industries Division; Hawai'i Gas The Clean Energy Company, *Hawaii Gas Utility Monthly Financial Reports*; calculations by Hawaii State Department of Business, Economic Development and Tourism; and records.

Table 17.12-- GAS UTILITIES, BY ISLAND: 2017

[Excludes bottled gas]

Island	Customers, December 31			Gas sold (1,000 therms)		
	Total	Residen- tial 1/	Other	Total	Residen- tial 1/	Other
State total	35,494	31,638	3,834	36,186	4,341	31,845
Oahu	31,828	28,414	3,388	32,460	3,743	28,718
Hawaii	2,000	1,665	338	2,676	361	2,315
Kauai	1,027	1,007	19	192	117	76
Lanai	22	22	-	4	4	-
Maui	535	448	89	838	102	736
Molokai	82	82	-	15	15	-

Island	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residen- tial 1/	Other	Residen- tial 1/	Other	Total	Residen- tial 1/	Other
State total	137	8,306	4.53416	2.74443	107,079	19,684	87,395
Oahu	132	8,476	4.62087	2.82806	98,510	17,295	81,215
Hawaii	217	6,850	4.13341	1.99611	6,113	1,492	4,621
Kauai	116	3,986	4.15992	2.02489	638	485	153
Lanai	176	-	4.41766	-	17	17	-
Maui	229	8,269	3.30761	1.90937	1,744	339	1,405
Molokai	180	-	3.84605	-	57	57	-

1/ 'Residential' refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawai'i Gas The Clean Energy Company, *Hawaii Gas Utility Monthly Financial Reports*, calculations by Hawaii State Department of Business, Economic Development and Tourism, and records.

**Table 17.13-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC COMPANY, INC.
ON OAHU: 1991 TO 2017**

Year	Number of customers, Dec. 31		Net input (1,000 kWh) 1/	Electricity sales (1,000 kWh)	Average annual residential use (kWh) 2/	Average residential rate (dollars per kWh)	Generating capability Dec. 31 (1,000 kW) 3/
	Total	Residential only					
1991	255,176	223,304	6,876,964	6,538,952	7,610	0.09354	1,440
1992	257,442	225,229	7,061,157	6,650,449	7,711	0.09925	1,666
1993	263,478	230,192	7,029,839	6,607,424	7,581	0.11414	1,669
1994	264,992	232,115	7,222,978	6,797,364	7,681	0.11342	1,669
1995	269,307	235,905	7,359,195	6,962,794	7,732	0.12302	1,669
1996	271,602	237,860	7,499,202	7,091,147	7,868	0.12944	1,669
1997	271,801	238,825	7,424,259	7,040,291	7,773	0.13360	1,669
1998	272,675	239,945	7,299,149	6,938,326	7,603	0.12556	1,669
1999	275,467	242,579	7,356,725	6,997,936	7,654	0.12741	1,669
2000	278,260	245,027	7,589,409	7,211,760	7,793	0.14477	1,669
2001	280,911	247,672	7,643,288	7,276,681	7,816	0.14255	1,669
2002	283,161	249,896	7,757,699	7,390,367	8,050	0.13859	1,669
2003	286,677	253,033	7,908,957	7,522,230	8,224	0.14888	1,669
2004	288,456	254,797	8,126,998	7,732,834	8,481	0.15690	1,669
2005	291,580	257,804	8,104,303	7,721,296	8,360	0.17673	1,712
2006	292,988	259,098	8,104,872	7,700,605	8,248	0.20063	1,722
2007	294,591	260,583	8,089,115	7,675,355	8,214	0.20519	1,727
2008	293,740	259,929	7,950,649	7,555,962	7,868	0.28892	1,727
2009	295,282	261,630	7,761,597	7,377,537	7,759	0.21533	1,847
2010	296,422	262,635	7,657,018	7,277,229	7,540	0.25474	1,817
2011	296,800	263,384	7,593,813	7,242,311	7,319	0.32041	1,817
2012	297,529	264,047	7,310,995	6,975,996	6,729	0.35101	1,817
2013	299,528	265,772	7,187,329	6,858,536	6,283	0.34625	1,840
2014	301,953	268,056	7,101,879	6,781,665	6,036	0.35479	1,848
2015	302,958	269,207	7,086,141	6,754,083	6,052	0.28019	1,735
2016	304,261	270,451	6,963,058	6,660,195	5,856	0.26069	1,735
2017	304,948	271,065	6,854,689	6,548,697	5,829	0.28215	1,735

1/ Net generation plus purchased power.

2/ Based on average number of customers during the year.

3/ Gross capability including firm purchase power.

Source: Hawaiian Electric Company, Inc., records.

**Table 17.14-- UTILITY SERVICE PROVIDED BY THE GAS COMPANY
ON OAHU: 1991 TO 2017**

Year	Customers, Dec. 31		Sales (1,000 therms) 1/		Average annual residential usage (therms) 1/
	Total	Residential	Total	Residential	
1991	32,487	29,278	30,866	5,331	182
1992	32,598	29,375	30,528	5,285	180
1993	33,206	29,984	30,027	5,287	176
1994	33,597	30,344	30,762	5,372	177
1995	33,472	30,492	30,582	5,332	175
1996	33,914	30,668	30,339	5,203	170
1997	33,800	30,574	29,836	5,176	169
1998	33,705	30,497	29,930	5,284	173
1999	33,614	30,384	30,830	5,154	170
2000	33,613	30,383	31,619	5,054	166
2001	33,625	30,403	31,071	4,990	164
2002	33,446	30,202	30,852	4,962	164
2003	33,252	29,990	30,470	4,781	159
2004	33,231	29,964	31,011	4,701	157
2005	32,991	29,744	30,965	4,641	156
2006	32,776	29,519	30,935	4,530	153
2007	32,673	29,434	31,219	4,447	151
2008	32,358	29,123	29,930	4,320	148
2009	32,179	28,951	28,957	4,263	147
2010	32,109	28,867	28,823	4,197	145
2011	32,121	28,872	29,266	4,059	141
2012	31,875	28,622	29,563	4,036	137
2013	31,730	28,481	29,711	3,923	141
2014	31,766	28,504	29,703	3,790	133
2015	31,772	28,475	30,642	3,768	132
2016	31,829	28,469	32,109	3,807	134
2017	35,470	31,661	36,185	4,346	137

1/ Includes liquefied petroleum gas.

Source: The Gas Company LLC, formerly The Gas Company, Inc., records.

Table 17.15-- LIQUID FUEL TAX BASE: 2003 TO 2017

[In thousands of gallons. Liquid fuel sold in a given month is usually reported the following month.
Annual totals accordingly refer to fuel sold during a 12-month period ending November 30]

Year reported	All types		Gasoline	Diesel oil		
	Total	Excluding aviation		Non-hwy.	Hwy. use	
2003	835,991	587,927	452,499	91,988	37,004	
2004	1,066,808	727,943	459,321	220,562	43,223	
2005	972,642	647,843	454,115	146,922	43,440	
2006	869,789	657,355	472,658	131,665	50,065	
2007	1,018,233	782,580	480,632	230,812	52,826	
2008	920,042	710,863	443,918	158,894	57,613	
2009	898,720	713,534	438,849	166,209	53,437	
2010	820,268	638,300	416,134	132,451	51,512	
2011	881,047	671,169	449,606	133,480	47,237	
2012	900,993	673,513	444,638	151,509	47,674	
2013	866,768	635,587	446,571	107,415	51,235	
2014	902,720	665,707	447,267	137,449	45,921	
2015	899,923	698,487	457,535	157,018	45,248	
2016	844,235	671,751	461,719	136,249	46,245	
2017	945,406	697,345	476,901	139,233	48,092	

Year reported	Liquefied petroleum gas		Aviation fuel	Small boats		Other fuel 1/
	Off hwy.	Hwy. use		Gasoline	Diesel oil	
2003	5,739	391	248,065	2	22	281
2004	3,368	246	338,866	8	16	1,200
2005	1,222	300	324,799	15	42	1,786
2006	1	142	212,434	23	45	2,756
2007	-	108	235,653	262	626	17,314
2008	-	96	209,179	452	5,004	44,886
2009	-	66	185,185	1,215	1,324	52,434
2010	-	62	181,968	787	947	36,406
2011	-	50	209,878	1,103	4,022	35,672
2012	-	35	227,480	1,144	399	28,113
2013	-	23	231,181	1,390	1,257	27,696
2014	-	22	237,012	1,565	2,763	30,721
2015	-	16	201,435	1,571	2,658	34,442
2016	-	12	172,483	541	3,221	23,765
2017	-	7	248,061	1,034	3,422	28,656

1/ Includes ethanol, methanol, biodiesel, naphtha, nompresed natural gas, and liquefied natural gas.

Source: Hawaii State Department of Taxation, Tax Research & Planning, "Liquid Fuel Tax Base & Tax Collections" (annual) <http://tax.hawaii.gov/stats/a5_3txcolrpt/> accessed May 3, 2018.

Table 17.16-- LIQUID FUEL TAX BASE, BY COUNTY: 2017

[In thousands of gallons. Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ending November 30]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	945,406	547,528	160,165	152,675	85,039
Gasoline	476,901	296,478	67,005	82,191	31,226
Diesel oil, non-hwy.	139,233	107,752	10,834	9,657	10,990
Diesel oil, hwy. use	48,092	26,171	6,726	12,033	3,163
Liq. pet. gas, hwy. use	7	6	(2/)	(2/)	(2/)
Small boats, gasoline	1,034	691	149	194	-
Small boats, diesel oil	3,422	3,422	-	-	-
Aviation fuel	248,061	110,315	75,064	37,428	25,254
Other fuel 1/	28,656	2,692	386	11,172	14,405

1/ Includes Ethanol, Methanol, Biodiesel, Naphtha, Compressed Natural Gas, and Liquefied Natural Gas.

2/ Value rounds to zero.

Source: Hawaii State Department of Taxation, Tax Research & Planning, "Liquid Fuel Tax Base & Tax Collections - CY Ending December 31, 2017" <<http://files.hawaii.gov/tax/stats/monthly/2017cy-fuels-base.pdf>> accessed May 3, 2018.

**Table 17.17-- GASOLINE STATIONS (NAICS 447), BY COUNTY:
1998 TO 2015**

[Excludes most government employees, railroad employees, and self-employed persons]

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1998	350	219	67	19	45
1999	334	206	63	19	46
2000	328	207	61	20	40
2001	322	204	61	17	40
2002	321	200	62	19	40
2003	314	194	63	19	38
2004	294	181	60	18	35
2005	301	188	59	19	35
2006	305	190	63	17	35
2007	289	179	58	14	38
2008	281	177	57	14	33
2009	277	169	58	15	35
2010	283	168	58	17	40
2011	283	168	61	16	38
2012	283	174	58	14	37
2013	286	176	58	15	37
2014	284	171	57	17	39
2015	284	166	57	23	38

Source: U.S. Census Bureau, *County Business Patterns* "Geography Area Series: County Business Patterns" (CB1500A11) (annual) <<http://factfinder.census.gov/>> accessed October 24, 2017.

Table 17.18-- BOILERS AND PRESSURE VESSELS, BY ISLAND: 2017

[As of December 31]

Island	Total	Power boilers	Heating boilers	Pressure vessels
State total	10,282	429	2,507	7,346
Hawaii	1,461	77	334	1,050
Maui	1,308	59	357	892
Lanai	48	2	17	29
Molokai	27	2	3	22
Oahu	6,902	263	1,668	4,971
Kauai	536	26	128	382

Source: Hawaii State Department of Labor and Industrial Relations, Hawaii Occupational Safety & Health Division (HIOSH), Boiler and Elevator Inspection Branch, records.

Table 17.19-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT AND FOR R&D PLANT IN HAWAII: 2000 TO 2015

[Millions of dollars. For fiscal year ending September 30]

Year	Total	R&D	R&D plant
2000	236.1	234.3	1.8
2001	438.5	435.7	2.8
2002	434.7	428.3	6.4
2003	415.8	413.9	1.9
2004	495.2	488.2	7.0
2005	644.1	600.3	43.8
2006	385.9	380.3	5.6
2007	387.2	379.2	8.0
2008	350.9	347.8	3.1
2009	412.8	387.5	25.3
2010	427.5	389.4	38.1
2011	426.9	403.6	23.3
2012	397.9	382.5	15.4
2013	361.0	348.0	13.0
2014	341.7	326.5	15.2
2015	319.6	305.4	14.2

Source: National Science Foundation/Division of Science Resources Statistics, *Federal Funds for Research and Development*, Tables 100, 139-142 <<https://ncesdata.nsf.gov/fedfunds>> accessed October 24, 2017; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 17.20-- PRIVATE SECTOR TECHNOLOGY JOBS AND AVERAGE EARNINGS: 2008 TO 2017

[Jobs includes paid employees and proprietors. 2008-2016 revised from previous *Data Book*]

	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Average earnings in 2017 1/
Technology sector	23,953	23,601	23,367	23,374	23,751	23,830	23,452	23,762	23,780	23,875	79,049
Computer services	6,398	6,487	6,321	6,242	6,364	6,451	6,375	6,533	6,451	6,548	83,946
Engineering and related services	6,225	5,998	5,907	5,966	6,079	6,074	6,162	6,272	6,335	6,359	93,742
Technical consulting services	3,986	3,913	4,055	4,093	4,261	4,459	4,422	4,525	4,691	4,858	60,831
Research & development services	2,611	2,620	2,566	2,527	2,491	2,323	1,967	1,904	1,903	1,697	83,480
Research & devel. in biotech.	705	675	657	692	687	607	554	516	512	436	70,318
Information & telecoms tech.	1,445	1,294	1,286	1,240	1,286	1,410	1,445	1,424	1,308	1,337	63,973
Medical labs and imaging centers	1,719	1,688	1,697	1,742	1,701	1,689	1,743	1,779	1,771	1,757	62,571
Technology equipment distribution	863	853	801	775	776	740	731	754	722	728	98,509
Technology manufacturing	708	748	734	790	794	684	609	571	600	591	62,876
Alternate power generation	58	46	50	23	46	42	1	(2/)	5	(2/)	105,871
Chemical & pharm. manufacturing	80	100	90	92	106	157	181	96	100	104	95,563
Other technology manufacturing	115	96	87	126	157	129	84	96	100	110	50,150
Medical device manufacturing	455	506	507	549	485	355	342	379	395	377	57,570

1/ Average earnings include wages and salaries, supplements to wages and salaries, and proprietors' income.

2/ Less than 1.

Source: Hawaii State Department of Business, Economic Development and Tourism, records; see also *Hawaii's Targeted & Emerging Industries Report* (annual) <http://dbedt.hawaii.gov/economic/reports_studies/emerging-industries/> accessed July 30, 2018.

Table 17.21-- TECHNOLOGY AND SCIENCE INDEX, BY STATE: 2016

[The State Technology and Science Index observes 79 unique indicators that are categorized into the five major components shown below]

State	Average score	Ranking					
		Overall	Human capital invest.	Risk capital & entrepreneurial infrast.	Research & dev't inputs	Tech. concentration & dynamism	Tech. & science workforce
Massachusetts	83.66	1	2	2	1	5	2
Colorado	80.40	2	1	3	3	3	3
Maryland	80.30	3	4	8	2	1	1
California	75.94	4	11	1	5	2	7
Washington	71.83	5	16	15	7	8	5
Connecticut	71.04	6	3	11	8	10	10
Minnesota	69.57	7	5	16	19	15	4
Utah	69.14	8	11	6	14	13	6
Virginia	65.87	9	7	25	20	7	8
Delaware	65.38	10	9	29	6	12	12
New Hampshire	65.31	11	10	14	4	10	26
North Carolina	62.64	12	24	5	22	5	21
Oregon	62.32	13	17	10	12	17	19
Pennsylvania	61.54	14	27	24	9	14	14
Rhode Island	59.83	15	8	28	10	22	21
Michigan	58.75	16	23	23	13	16	23
Illinois	59.50	17	20	17	15	18	24
New Jersey	59.39	18	21	21	17	19	19
New York	57.54	19	15	4	21	24	36
Texas	58.65	20	35	12	32	4	15
New Mexico	55.18	21	14	32	16	23	31
Wisconsin	55.06	22	26	20	18	38	17
Arizona	54.87	23	41	18	11	20	27
Nebraska	53.52	24	19	19	35	36	11
Georgia	53.53	25	36	9	30	9	35
Ohio	52.31	26	32	33	26	25	18
Vermont	52.58	27	13	13	24	30	38
Missouri	50.60	28	33	7	37	26	33
North Dakota	49.72	29	6	40	33	48	13
Indiana	49.23	30	28	43	23	29	28
Kansas	48.43	31	29	30	34	27	32
Idaho	46.30	32	39	27	29	39	25
Alaska	44.86	33	37	44	39	43	9
Wyoming	43.01	34	22	47	50	31	15
Montana	43.73	35	30	45	27	47	29
Iowa	43.51	36	18	46	31	40	37
Alabama	42.67	37	42	38	28	35	34
Hawaii	40.34	38	31	50	25	32	40

Continued on next page.

Table 17.21-- TECHNOLOGY AND SCIENCE INDEX, BY STATE: 2016 -- Con.

State	Average score	Ranking					
		Overall	Human capital invest.	Risk capital & entrepreneurial infrast.	Research & dev't inputs	Tech. concentration & dynamism	Tech. & science workforce
South Dakota	41.55	39	25	34	42	48	29
Tennessee	40.21	40	40	22	36	41	42
Maine	38.39	41	34	31	38	43	43
Florida	38.81	42	46	26	43	20	44
South Carolina	35.84	43	48	42	40	32	39
Oklahoma	34.62	44	38	35	45	45	40
Nevada	32.75	45	50	37	41	28	50
Mississippi	29.84	46	47	49	44	32	48
Louisiana	31.40	47	43	36	48	36	45
Kentucky	30.53	48	44	39	46	42	45
Arkansas	27.95	49	49	41	49	45	49
West Virginia	25.83	50	45	48	47	50	45

Source: Milken Institute *State Technology and Science Index: Sustaining America's Innovation Economy* 2016 Overall Ranking <<http://statetechandscience.org/statetech.taf?page=state-ranking>> accessed May 5, 2017.

**Table 17.22-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING,
FOR THE UNIVERSITY OF HAWAII: 1992 TO 2017**

[Research and non-research awards received through the Office of Research Services, University of Hawaii, and non-competitive awards from the U.S. Department of Agriculture. Fiscal year ending June 30]

Year	Total		Research		Non-research	
	Awards	Amount (dollars)	Awards	Amount (dollars)	Awards	Amount (dollars)
1992	1,221	124,876,638	703	65,791,624	518	59,085,014
1993	1,146	131,075,215	636	61,059,928	510	70,015,287
1994	1,322	142,563,794	755	77,763,782	567	64,800,012
1995	1,147	139,199,221	616	70,222,653	531	68,976,568
1996	1,191	134,469,155	697	76,698,552	494	57,770,603
1997	1,255	160,859,800	724	89,131,636	531	71,728,164
1998	1,300	159,948,612	763	91,746,988	537	68,201,624
1999	1,254	164,168,101	707	92,737,645	547	71,430,456
2000	1,379	180,629,855	767	102,845,010	612	77,784,845
2001	1,405	216,233,918	835	132,833,308	570	83,400,610
2002	1,629	252,370,477	971	141,875,022	658	110,495,455
2003	1,646	323,868,218	976	190,374,465	670	133,493,753
2004	1,675	328,982,431	1,002	199,944,709	673	129,037,722
2005	1,742	354,127,142	1,022	209,196,531	720	144,930,611
2006	1,785	433,360,395	1,068	236,708,881	717	196,651,514
2007	1,778	354,031,667	1,081	209,909,883	697	144,121,784
2008	1,758	367,580,150	1,093	211,778,184	665	155,801,966
2009	1,990	413,963,739	1,147	246,546,713	843	167,417,026
2010	1,944	452,408,669	1,161	255,734,059	783	196,674,610
2011	1,799	488,597,908	1,070	281,745,764	729	206,852,144
2012	1,727	435,874,967	1,039	256,980,266	688	178,894,701
2013	1,801	409,783,318	1,006	222,207,539	795	187,575,779
2014	1,774	392,314,955	1,081	238,286,786	693	154,028,169
2015	1,823	425,650,338	1,080	236,114,373	743	189,535,965
2016	1,855	391,334,528	1,025	199,840,628	830	191,493,900
2017	1,886	387,001,705	1,077	209,249,788	809	177,751,917

Source: University of Hawaii, Office of Research Services, *2015-2016 Online Executive Managerial Report* <<http://www.ors.hawaii.edu/index.php/forms/111-reports/annual-reports/372-2016-2017-annual-report>> accessed May 3, 2018 and previous reports.

Table 17.23-- RESEARCH AND DEVELOPMENT EXPENDITURES AT HIGHER EDUCATION INSTITUTIONS: 1994 TO 2016

[In thousands of dollars. For fiscal year ending June 30]

Year	Total	Federally financed	State and local government financed	Business 1/	Nonprofit	Institutionally financed	All other sources
1994 2/	70,079	39,392	25,204	434	(NA)	3,290	1,759
1995 2/	78,429	44,238	26,789	299	(NA)	3,738	3,365
1996 2/	111,202	66,902	31,826	8,088	(NA)	4,386	-
1997 2/	120,107	72,421	28,440	5,944	(NA)	13,297	5
1998 3/	148,007	86,886	37,002	10,949	(NA)	13,170	-
1999 3/	156,810	93,418	35,111	13,021	(NA)	15,260	-
2000 3/	161,300	95,419	35,474	11,158	(NA)	19,249	-
2001 3/	156,976	97,716	33,125	7,232	(NA)	18,903	-
2002 3/	172,664	119,381	31,062	9,971	(NA)	12,232	18
2003 3/	184,602	148,662	11,822	6,931	(NA)	17,171	16
2004 4/	241,346	191,252	8,815	21,234	(NA)	19,892	153
2005 4/	240,247	199,135	7,077	12,155	(NA)	21,282	598
2006 4/	257,478	210,097	8,933	12,551	(NA)	25,888	9
2007 4/	274,373	215,806	15,534	22,080	(NA)	16,352	4,601
2008 4/	278,751	200,385	18,192	26,928	(NA)	28,132	5,114
2009 4/	300,302	211,256	17,479	30,357	(NA)	32,198	9,012
2010 5/	317,942	208,540	23,669	24,315	7,989	45,016	8,413
2011 5/	363,887	241,686	22,399	23,362	11,019	57,502	7,919
2012 5/	335,704	215,593	16,406	21,389	6,642	67,934	7,740
2013 5/	343,802	241,600	11,812	73,645	3,863	6,270	6,612
2014 5/	330,897	212,525	8,115	3,436	6,759	89,409	10,653
2015 5/	332,233	213,763	14,140	6,702	9,748	85,793	2,087
2016 5/	318,134	201,809	15,402	5,834	12,110	80,463	2,516

NA Not available.

1/ Category called 'industry financed' before 2010.

2/ Survey includes a sample of institutions with doctoral programs in S&E, are HBCUs with R&D expenditures in S&E, and/or are other institutions that expend at least \$50,000 in separately budgeted R&D in S&E.

3/ Survey includes institutions with doctoral programs in S&E, are HBCUs with R&D expenditures in S&E, or are master's or bachelor's degree-granting institutions that expend at least \$150,000 in separate R&D in S&E.

4/ Survey includes S&E bachelor's and higher degree-granting institutions that reported at least \$150,000 in separately budgeted R&D expenditures in S&E.

5/ Survey includes institutions which grant a bachelor's degree or higher, expend at least \$150,000 in separately budgeted R&D, and were geographically separate campuses headed by a president, chancellor, or equivalent.

Source: National Science Foundation, Division of Science Resources Statistics, *Academic Research and Development Expenditures: Fiscal Year* (annual) <<http://www.nsf.gov/statistics/rdexpenditures/>> accessed April 26, 2017 and *Higher Education Research and Development Survey: Fiscal Year* (annual) <<http://ncesdata.nsf.gov/herd/2013/>> accessed April 26, 2017.

Table 17.24-- PATENTS ISSUED TO HAWAII RESIDENTS: 1992 TO 2017

Year	Patents	Year	Patents	Year	Patents
1992	81	2001	107	2010	144
1993	106	2002	91	2011	128
1994	99	2003	96	2012	131
1995	84	2004	86	2013	146
1996	104	2005	58	2014	160
1997	93	2006	101	2015	166
1998	93	2007	82	2016	178
1999	97	2008	101	2017	153
2000	93	2009	96		

Source: U.S. Patent and Trademark Office, Electronic Information Products Division / PTMT, *Patent Counts by Country/State and Year, All Patents, All Types, January 1, 1977 -- December 31, 2015* (December 2015) <http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_all.htm> accessed May 8, 2017 and records.

**Table 17.25-- ASTRONOMY AND RELATED FACILITIES AT
THE SUMMITS OF MAUNAKEA FOR 2016 AND HALEAKALA FOR 2017**

[Categories may not sum to totals due to rounding]

Facility and year (mirror diameter in meters)	Capital cost (\$ mil) 1/	Annual operating cost (\$ mil)	County based staff	Opera- tional
Maunakea observatories, 2016				
Total	601	72.4	501	(X)
UH 2.2-m (Optical/Infrared)	5	1.0	6	1970
Canada-France-Hawaii 3.6-m (Optical/Infrared) 2/	30	7.5	49	1979
NASA IRTF 3.0-m (Infrared)	10	5.1	19	1979
UKIRT 3.8-m (Infrared)	5	2.2	6	1979
James Clerk Maxwell 15-m Submillimeter 2/	32	4.5	36	1986
VLBA Antenna 25-m (Radio)	7	0.4	2	1992
W.M. Keck Observatory (Keck I & II) 10-m x 2 (Optical/Infrared) 2/	170	14.2	125	1992/1996
Subaru 8-m (Optical/Infrared)	170	17.0	101	1999
Fredrick C. Gillett Gemini 8-m (Optical/Infrared) 2/	92	15.0	83	1999
Submillimeter Array 8x6-m	80	5.5	23	2003
Maunakea Observatories Support Services 2/	(X)	3/ 5.4	51	1980
Haleakala observatories, 2017				
Total	749	40.7	202	(X)
Mees Solar Observatory	1	0.2	1	1963
Haleakala Observatories Projects	(X)	0.2	2	(X)
Maui Space Surveillance Site (MSSS) 4/	250	26.3	117	1965
Ground-Based Electro-Optical Deep Space Surveillance (GEODSS)	25	6.1	16	1983
Faulkes 2-m Telescope	10	0.6	2	2003
Transportable Laser Ranging System (TLRS4)	1	0.8	5	2005
Panoramic Survey Telescope And Rapid Response System (Pan-STARRS)	110	5.6	11	2009
UH Haleakala Support Facilities	9	1.2	15	1962/2008
Daniel K. Inouye Solar Telescope (DKIST)	344	5/ 18.0	35	(6/)

X Not applicable.

1/ Historical cost, not adjusted for inflation, and not including subsequent capital improvements for Maunakea Observatories.

2/ 'Annual operating cost' and 'County based staff' revised from previous *Data Book*.

3/ Only \$1.9 million are included in total, as the other \$3.5 million are part of facility operating costs.

4/ Formerly Air Force Maui Optical Station (AMOS).

5/ Operational cost of 18 million not included in the total.

6/ Daniel K. Inouye Solar Telescope scheduled to be operational by 2020.

Source: University of Hawaii at Manoa, Institute for Astronomy, records.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic. Other information bearing on transportation appears in Sections 7, 12, 14, and 24.

The chief source for transportation statistics is the Hawaii State Department of Transportation's Highways, Harbors and Airports Divisions, and the Motor Vehicle Safety Office. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, the U.S. Census Bureau, Honolulu Public Transit Authority, county finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in *Historical Statistics of Hawaii*, Section 17. Another source of long-term trend information is *What People Paid to Travel*, published by the Hawaiian Historical Society in 1991. Similar statistics for other areas are reported in the *Statistical Abstract of the United States: 2012*, Section 23.

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**Table 18.01-- DISTANCES OF SELECTED STATE ROUTES
AND INTERSTATES: 2017**

Route	Description	Miles
Oahu		
Interstates		
H-1	Queen Lili'uokalani Freeway, Lunalilo Freeway	27.15
H-2	Veterans Memorial Freeway	8.32
H-3	John A. Burns Freeway	15.32
H-201	Moanalua Freeway	4.08
State Routes		
61	Pali Hwy, Kalaniana'ole Hwy, Kailua Rd.	10.59
63	Kalihi St, Likelike Hwy	8.30
72	Kalaniana'ole Hwy	18.43
83	Kam. Hwy, Kahekili Hwy, Likelike Hwy	43.90
92	Nimitz Hwy, Ala Moana Blvd	9.28
93	Farrington Hwy.	19.52
99	Kam. Hwy, Kamananui Rd, Wilikina Dr, Farrington Hwy	23.84
750	Kunia Rd	8.05
Hawaii		
State Routes		
11	Kanoiehua Ave, Mamalahoa Hwy, Hawaii Belt Rd, Volcano Rd Kuakini Hwy, Queen Kaahumanu Ext	121.97
19	Kuhio St, Kalaniana'ole St, Kamehameha Ave, Pauahi St Bayfront Hwy, Mamalahoa Hwy, Lindsey Rd, Hawaii Belt Rd Kawaihae Rd, Queen Kaahumanu Hwy	99.49
130	Keaau-Pahoa Rd, Pahoa-Kalapana Rd, Kaimu-Chain of Craters Rd 1/	21.82
190	Mamalahoa Hwy, Palani Rd	38.97
200	Saddle Rd 2/	43.22
250	Kohala Mountain Rd, Hawi Rd	19.28
270	Kawaihae Rd, Akoni Pule Hwy	27.00
Maui		
State Routes		
30	High St, Honoapiilani Hwy, Kahekili Hwy	41.62
31	Piilani Hwy 3/	7.15
36	Hana Hwy	16.21
37	Haleakala Hwy, Kula Hwy	21.34
360	Hana Hwy, Keawa Pl	34.83
378	Haleakala Crater Rd	10.10

Continued on next page.

**Table 18.01-- DISTANCES OF SELECTED STATE ROUTES
AND INTERSTATES: 2017 -- Con.**

Route	Description	Miles
Kauai		
State Routes		
50	Kaumualii Hwy	32.92
56	Kuhio Hwy	28.12
550	Waimea Canyon Dr, Kokee Rd	14.08
560	Kuhio Hwy (Starts at end of Route 56)	10.00
Molokai		
State Routes		
450	Kamehameha V Hwy	27.50
460	Kaunakakai PI & Maunaloa Hwy	16.55
Lanai		
State Routes		
440	Kaumalapau Hwy & Manele Rd	13.17

1/ Designated length and the real traveled length are different due to lava flows, between 21.83 and 25.32 miles.

2/ Not including 26 miles proposed.

3/ Not including 4.86 miles proposed.

Source: Hawaii State Department of Transportation, Highways Division, network database accessed on June 2018.

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLAND: 2015 TO 2017

[As of December 31. Excludes private roads and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
2015				
State total	4,455.08	88.49	4,194.18	172.41
Hawaii	1,505.33	-	1,446.03	59.30
Maui	646.40	-	589.70	56.70
Lanai	48.00	-	34.00	14.00
Molokai	136.32	-	124.32	12.00
Oahu	1,678.07	88.49	1,581.65	7.92
Kauai	440.97	-	418.48	22.49
Niihau	-	-	-	-
2016				
State total	4,468.56	88.49	4,206.95	173.11
Hawaii	1,509.94	-	1,449.94	60.00
Maui	648.33	-	591.63	56.70
Lanai	48.00	-	34.00	14.00
Molokai	136.32	-	124.32	12.00
Oahu	1,684.04	88.49	1,587.63	7.92
Kauai	441.93	-	419.44	22.49
Niihau	-	-	-	-
2017				
State total	4,476.27	88.49	4,214.66	173.11
Hawaii	1,510.44	-	1,450.44	60.00
Maui	649.81	-	593.11	56.70
Lanai	48.00	-	34.00	14.00
Molokai	136.32	-	124.32	12.00
Oahu	1,689.77	88.49	1,593.35	7.92
Kauai	441.93	-	419.44	22.49
Niihau	-	-	-	-

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.03-- HIGHWAY BRIDGES, BY ISLAND: DECEMBER 31, 2017

Island	Number of bridges 1/	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State	752	Airport Viaduct	14,890	Nanue	208
Hawaii	135	Hakalau	775	Nanue	208
Maui	98	Honokahua	600	Uaoa	79
Lanai	-	None	-	None	-
Molokai	19	Manawainui	360	Manawainui	50
Oahu	445	Airport Viaduct	14,890	Kipapa	156
Kauai	55	Hanamaulu	1,150	Wahiawa, Koloa	90

1/ Limited to bridges under State jurisdiction and longer than 20 feet.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.04-- CONDITION OF BRIDGES: 2012 TO 2017

Area	Number of bridges	Deficient and obsolete					
		Total		Structurally deficient 1/		Functionally obsolete 2/	
		Number	Percent	Number	Percent	Number	Percent
2012							
U.S.	607,380	151,497	24.9	66,749	11.0	84,748	14.0
Hawaii	1,131	505	44.7	146	12.9	359	31.7
2013							
U.S.	607,751	147,870	24.3	63,522	10.5	84,348	13.9
Hawaii	1,125	494	43.9	144	12.8	350	31.1
2014							
U.S.	610,749	145,890	23.9	61,365	10.0	84,525	13.8
Hawaii	1,137	483	42.5	61	5.4	422	37.1
2015							
U.S.	611,845	142,915	23.4	58,791	9.6	84,124	13.7
Hawaii	1,142	495	43.3	60	5.3	435	38.1
2016							
U.S.	614,387	(NA)	(NA)	56,007	9.1	(NA)	(NA)
Hawaii	1,132	(NA)	(NA)	64	5.7	(NA)	(NA)
2017							
U.S.	615,002	(NA)	(NA)	54,560	8.9	(NA)	(NA)
Hawaii	1,135	(NA)	(NA)	66	5.8	(NA)	(NA)

NA Not available.

1/ Bridges are structurally deficient if they have been restricted to light vehicles, require immediate rehabilitation to remain open, or are closed.

2/ Bridges are functionally obsolete if they have deck geometry, load carrying capacity, clearance or approach roadway alignment that no longer meet the criteria for the system of which the bridge is a part.

Source: U.S. Department of Transportation, Federal Highway Administration, Structures, Deficient Bridges by State and Highway System <<http://www.fhwa.dot.gov/bridge/deficient.cfm>> accessed June 20, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 2017

Island and name of tunnel	Length (feet)
Oahu	
Pali, Honolulu side	1,049
to Honolulu	1,076
from Honolulu	
Pali, Kailua side	524
to Honolulu	531
from Honolulu	
Wilson	2,786
to Honolulu	2,804
from Honolulu	
H-3	5,579
to Honolulu	5,569
from Honolulu	
H-3, Hospital Rock	389
to Honolulu	382
from Honolulu	
Middle Street	359
Maui	
Olowalu	318
Kauai	
Kipu-Mahaulepu (private road)	2,200

Source: Hawaii State Department of Transportation, Highways Division, records; McBryde Sugar Plantation, records.

**Table 18.06-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
2007 TO 2017**

[Taxable and exempt vehicles. Includes vehicles registered but subsequently scrapped or shipped out of State]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
2007	1,167,240	1,134,542	911,607	47	2,260
2008	1,160,643	1,127,567	903,518	57	2,213
2009	1,149,928	1,117,790	895,770	63	2,143
2010	1,151,681	1,120,080	898,452	64	2,103
2011	1,210,370	1,181,148	951,170	79	2,320
2012	1,310,286	1,278,233	1,033,975	91	2,621
2013	1,371,341	1,341,152	1,089,709	98	2,669
2014	1,312,445	1,284,193	1,042,818	105	2,565
2015	1,261,343	1,233,523	1,001,879	108	2,465
2016	1,261,557	1,232,731	1,000,684	119	2,377
2017	1,288,554	1,259,544	1,016,088	114	2,344
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor-scooters 2/	Trailers and semi-trailers
2007	192,175	696	779	26,978	32,698
2008	191,459	799	1,074	28,447	33,076
2009	188,860	813	1,262	28,879	32,138
2010	187,733	861	1,431	29,436	31,601
2011	191,850	989	1,718	33,022	29,222
2012	200,124	1,183	2,016	38,223	32,053
2013	203,790	1,329	2,377	41,180	30,189
2014	196,892	1,405	2,637	37,771	28,252
2015	191,984	1,439	2,817	32,831	27,820
2016	194,043	1,454	2,972	31,082	28,826
2017	197,005	1,519	3,162	39,312	29,010

1/ Vans, pickups, and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: Hawaii State Department of Transportation, Safe Communities Program, records.

**Table 18.07-- MOTOR VEHICLES REGISTERED, BY COUNTY:
1995 TO 2017**

[Taxable and exempt vehicles. Includes passenger cars, ambulances, buses, trucks, motorcycles and vehicles registered but subsequently scrapped or shipped out of State. Excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1995	877,756	601,239	111,624	52,364	112,529
1996	884,617	598,772	115,647	52,984	117,214
1997	884,267	595,121	118,364	53,904	116,878
1998	893,427	594,096	121,959	56,554	120,818
1999	906,935	597,610	126,039	57,882	125,404
2000	941,242	614,985	132,305	61,316	132,636
2001	967,146	631,232	136,786	62,655	136,473
2002	987,598	643,810	142,150	63,580	138,058
2003	1,030,845	667,565	150,983	67,312	144,985
2004	1,072,211	688,163	159,627	71,517	152,904
2005	1,119,838	714,604	169,396	75,561	160,277
2006	1,127,467	719,606	173,786	74,734	159,341
2007	1,134,542	722,486	176,386	75,594	160,076
2008	1,127,567	719,640	175,166	74,344	158,417
2009	1,117,790	718,253	172,209	73,847	153,481
2010	1,120,080	720,267	171,974	73,563	154,276
2011	1,181,148	755,425	181,931	78,373	165,419
2012	1,278,233	814,361	197,273	85,292	181,307
2013	1,341,152	848,567	208,624	90,351	193,610
2014	1,284,193	816,738	199,336	85,652	182,467
2015	1,233,523	780,909	194,633	81,947	176,034
2016	1,232,731	776,653	196,647	81,751	177,680
2017	1,259,544	791,739	202,744	84,259	180,802

Source: Hawaii State Department of Transportation, Safe Communities Program, records.

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE,
BY COUNTY: 2016**

[Taxable and exempt vehicles. Includes vehicles registered but
subsequently scrapped or shipped out of State]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	1,261,557	790,220	204,541	85,195	181,601
Motor vehicles	1,232,731	776,653	196,647	81,751	177,680
Passenger vehicles 1/	1,000,684	652,013	150,990	57,825	139,856
Ambulances	119	59	23	14	23
Buses	2,377	1,798	302	85	192
Trucks 1/	194,043	99,160	40,068	21,642	33,173
Truck tractors	1,454	696	201	475	82
Truck cranes	2,972	2,640	161	85	86
Motorcycles, motorscooters 2/	31,082	20,287	4,902	1,625	4,268
Trailers and semi-trailers	28,826	13,567	7,894	3,444	3,921

1/ Vans, pickups, and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: Hawaii State Department of Transportation, Safe Communities Program, records.

**Table 18.09-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE,
BY COUNTY: 2017**

[Taxable and exempt vehicles. Includes vehicles registered but
subsequently scrapped or shipped out of State]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	1,288,554	805,254	210,767	87,760	184,773
Motor vehicles	1,259,544	791,739	202,744	84,259	180,802
Passenger vehicles 1/	1,016,088	659,474	155,353	59,836	141,425
Ambulances	114	56	22	15	21
Buses	2,344	1,758	336	89	161
Trucks 1/	197,005	100,950	41,096	21,389	33,570
Truck tractors	1,519	711	209	517	82
Truck cranes	3,162	2,832	164	77	89
Motorcycles, motorscooters 2/	39,312	25,958	5,564	2,336	5,454
Trailers and semi-trailers	29,010	13,515	8,023	3,501	3,971

1/ Vans, pickups, and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: Hawaii State Department of Transportation, Safe Communities Program, records.

**Table 18.10-- VEHICLE REGISTRATION, BY TAXATION STATUS,
BY COUNTY: 2016**

[Includes vehicles registered but subsequently scrapped or shipped out of State. Excludes trailers, semi-trailers and motorcycles]

Taxation status	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Total registered	1,201,649	756,366	191,745	80,126	173,412
Taxable vehicles	1,104,524	665,542	189,103	78,976	170,903
Exempt vehicles	97,125	90,824	2,642	1,150	2,509
Federal government	439	430	6	-	3
State government	6,881	6,874	5	-	2
County government	8,237	5,279	1,131	604	1,223
Fire department	347	61	150	65	71
Police department	1,918	1,313	433	36	136
Consulates	51	49	2	-	-
Disabled veterans	390	89	289	7	5
Military non-resident	67,714	67,424	60	160	70
Farm	126	44	56	1	25
Horseless carriage	58	48	1	9	-
Electric vehicles	5,213	4,024	243	172	774
National Guard	5,751	5,189	266	96	200

Source: Hawaii State Department of Transportation, Safe Communities Program, records.

**Table 18.11-- VEHICLE REGISTRATION, BY TAXATION STATUS,
BY COUNTY: 2017**

[Includes vehicles registered but subsequently scrapped or shipped out of State. Excludes trailers, semi-trailers and motorcycles]

Taxation status	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Total registered	1,220,232	765,781	197,180	81,923	175,348
Taxable vehicles	1,121,908	674,137	194,384	80,735	172,652
Exempt vehicles	98,324	91,644	2,796	1,188	2,696
Federal government	432	423	6	-	3
State government	6,998	6,990	6	-	2
County government	8,404	5,406	1,166	583	1,249
Fire department	345	61	148	66	70
Police department	1,863	1,274	411	41	137
Consulates	54	52	2	-	-
Disabled veterans	430	112	303	6	9
Military non-resident	66,954	66,661	62	165	66
Farm	133	48	60	2	23
Horseless carriage	58	49	1	8	-
Electric vehicles	6,791	5,284	359	230	918
National Guard	5,862	5,284	272	87	219

Source: Hawaii State Department of Transportation, Safe Communities Program, records.

**Table 18.12-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,
BY COUNTY: 2016**

[For the American Community Survey 1-Year Estimates, data were released for geographic areas with populations of 65,000 or more. At this time Kalawao county does not meet these thresholds. Data are based on a sample and are subject to sampling variability]

Vehicles available	State total	Hawaii	Honolulu	Kauai	Maui
Occupied units	455,868	69,818	309,169	23,214	53,612
None	38,044	3,354	31,138	1,208	2,344
1	152,591	23,221	105,924	6,459	16,964
2	160,875	26,758	105,594	7,912	20,606
3	64,578	11,801	39,300	5,100	8,377
4 or more	39,780	4,684	27,213	2,535	5,321

Source: U.S. Census Bureau, 2016 American Community Survey 1-Year Estimates
<<https://www.census.gov/programs-surveys/acs/>> accessed July 9, 2018.

Table 18.13-- TRUCK CHARACTERISTICS: 1987 TO 2002

Category (100 percent)	Selected characteristic	Percent of category			
		1987	1992	1997	2002
Total trucks (1,000)		160.8	280.3	294.2	351.4
Business 1/ Body type	Personal transportation Pickup, mini-van, other light van, and sport utility	60.5	61.7	70.1	74.0
Vehicle size	Light	91.2	93.8	94.9	95.9
Annual miles	Less than 10,000 2/	94.6	95.6	95.9	96.9
Model year	Over 4 years old	57.0	50.0	44.3	51.1
Vehicle acquisition	New	62.1	66.8	74.1	68.0
Truck type	Single-unit, 2 axles 3/	49.6	54.3	48.3	50.4
Range of operation	50 miles or less	96.4	96.6	97.7	98.1
Fuel type	Gasoline	80.2	79.3	81.2	70.5
		94.6	94.6	95.1	93.7

1/ Comparability of estimates may vary across survey years due to changes in category definitions.

2/ Includes vehicles not in use.

3/ Excludes truck-tractors not in use.

Source: U.S. Bureau of the Census, *Truck Inventory and Use Survey, 1992 Census of Transportation*, TC92-T-12 (December 1994), table 2 <<http://www.census.gov/prod/1/trans/92trkinv/tct12.pdf>>; U.S. Census Bureau, *2002 Economic Census, Vehicle Inventory and Use Survey, Geographic Area Series, Hawaii*, EC02TV-HI (October 2004), tables 1a and 2a <<http://www.census.gov/svsd/www/02vehinv.html>> accessed May 12, 2005.

**Table 18.14-- NEW RETAIL LIGHT VEHICLE REGISTRATIONS:
1989 TO 2017**

Year	Number	Year	Number	Year	Number
1989	57,456	1999	45,054	2009	32,878
1990	54,544	2000	51,500	2010	32,649
1991	47,783	2001	51,388	2011	35,576
1992	44,865	2002	53,314	2012	42,463
1993	45,249	2003	62,712	2013	48,705
1994	44,175	2004	65,882	2014	54,039
1995	41,083	2005	70,268	2015	57,094
1996	41,480	2006	67,224	2016	58,485
1997	42,487	2007	54,492	2017	59,137
1998	40,673	2008	41,184		

Source: Hawaii Automobile Dealers Association, *HawaiiDealer 2018 First Quarter Edition* and previous editions.

**Table 18.15-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY NAMEPLATE: 2015 TO 2017**

Nameplate	2015	2016	2017
Total	57,094	58,485	59,137
Toyota/Scion	16,109	16,230	15,705
Honda	7,851	8,387	9,018
Nissan	5,957	5,754	5,874
Ford	4,392	4,617	4,194
Kia	2,314	2,293	2,164
Chevrolet	2,280	3,011	3,594
Mazda	1,585	1,497	1,571
Hyundai	1,717	1,518	1,497
BMW	1,633	1,583	1,567
Lexus	1,760	1,773	1,597
Subaru	1,696	1,816	1,824
Jeep	1,416	1,395	1,488
Mercedes	1,352	1,397	1,438
Dodge	1,152	963	780
Acura	714	739	839
Volkswagen	904	753	845
Ram	735	781	729
Audi	490	575	565
GMC	545	658	841
MINI	499	475	420
Infiniti	297	278	371
Cadillac	153	144	178
Chrysler	258	293	286
Porsche	223	227	243
All others	243	1/ 105	195
Volvo	159	151	89
Land Rover	181	196	213
Mitsubishi	118	107	112
Fiat	105	94	112
Buick	148	244	262
Telsa	(NA)	1/ 306	364
Lincoln	72	45	33
Jaguar	36	80	129

NA Not available.

1/ Data revised from previous *Data Book*.

Source: Hawaii Automobile Dealers Association, *HawaiiDealer*, 2018 First Quarter.

**Table 18.16-- NEW RETAIL CAR AND LIGHT TRUCK (VAN)
REGISTRATIONS, BY PLACE OF MANUFACTURE: 2015 TO 2017**

Type and place of manufacture	2015	2016	2017
Total	57,094	58,485	59,137
Car	24,828	22,566	21,084
Light truck	32,266	35,919	38,053
Domestic Brands	11,276	12,469	12,763
European Brands	5,695	5,613	5,772
Japanese Brands	36,092	36,584	36,912
Korean Brands	4,031	3,819	3,690

Source: Hawaii Automobile Dealers Association, *HawaiiDealer*, 2018 First Quarter.

**Table 18.17-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTY:
1991 TO 2017**

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1991	699,664	501,260	86,181	38,894	73,329
1992	716,545	510,901	89,436	39,947	76,261
1993	734,381	522,016	92,264	41,910	78,191
1994	745,392	527,756	94,257	42,736	80,643
1995	732,508	516,780	94,048	42,041	79,639
1996	733,486	515,780	94,943	41,775	80,988
1997	738,865	517,904	96,665	42,079	82,217
1998	746,329	520,734	98,252	42,363	84,980
1999	752,693	521,671	100,331	43,141	87,550
2000	769,383	529,890	104,058	44,471	90,964
2001	787,820	542,244	106,557	45,424	93,595
2002	814,668	560,222	110,561	46,840	97,045
2003	834,188	572,665	113,760	48,047	99,716
2004	843,876	577,507	116,486	48,967	100,916
2005	856,163	584,492	119,741	49,880	102,050
2006	867,003	590,975	122,087	50,539	103,402
2007	882,466	600,264	125,063	51,504	105,635
2008	895,941	607,747	127,456	52,479	108,259
2009	905,704	614,783	128,692	52,925	109,304
2010	911,417	618,975	129,041	52,981	110,420
2011	915,033	621,769	129,087	53,184	110,993
2012	910,265	618,492	128,423	52,683	110,666
2013	904,500	612,380	128,537	52,998	110,585
2014	902,590	607,823	129,753	53,350	111,664
2015	918,768	617,293	132,461	54,445	114,569
2016	941,878	629,476	137,450	56,100	118,852
2017	950,481	634,231	139,028	56,519	120,703

Source: Hawaii State Department of Transportation, Motor Vehicle Safety, records.

**Table 18.18-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: 2016 AND 2017**

[As of December 31]

Years of age	Both sexes		Male		Female	
	2016	2017	2016	2017	2016	2017
Total	941,878	950,481	486,383	490,148	455,495	460,333
15 to 19	23,653	24,530	12,429	12,854	11,224	11,676
20 to 24	62,235	61,975	32,589	32,314	29,646	29,661
25 to 29	71,677	72,427	36,784	37,138	34,893	35,289
30 to 34	84,216	83,932	42,854	42,782	41,362	41,150
35 to 39	84,568	85,971	42,944	43,604	41,624	42,367
40 to 44	78,526	78,369	40,106	39,851	38,420	38,518
45 to 49	83,438	82,993	43,129	42,951	40,309	40,042
50 to 54	86,092	83,670	44,470	43,056	41,622	40,614
55 to 59	88,612	88,380	45,578	45,635	43,034	42,745
60 to 64	86,763	87,118	44,685	44,707	42,078	42,411
65 to 69	76,687	78,055	40,163	40,758	36,524	37,297
70 to 74	55,400	59,960	29,321	31,562	26,079	28,398
75 to 79	30,165	32,836	15,817	17,292	14,348	15,544
80 to 84	16,692	16,930	8,448	8,651	8,244	8,279
85 to 89	9,718	9,730	5,008	4,914	4,710	4,816
90 to 94	3,087	3,199	1,809	1,815	1,278	1,384
95 to 99	349	406	249	264	100	142

Source: Hawaii State Department of Transportation, Motor Vehicle Safety, records.

Table 18.19-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1993 TO 2017, AND BY COUNTY, 2016 AND 2017

Year and county	Highway fuel consumption 1/		Annual vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1993	409,940	468	7,945.3	9,063
1994	428,558	490	7,925.2	9,056
1995	422,884	482	7,944.1	9,051
1996	426,370	482	8,005.9	9,050
1997	421,499	477	8,003.0	9,050
1998	422,928	473	8,090.2	9,055
1999	417,374	460	8,215.2	9,058
2000	428,425	455	8,525.7	9,058
2001	445,558	461	8,754.3	9,052
2002	477,518	484	8,937.3	9,050
2003	483,232	469	9,325.0	9,046
2004	498,816	463	9,734.6	9,042
2005	505,418	459	10,129.1	9,045
2006	531,505	471	10,196.3	9,044
2007	541,956	478	10,259.9	9,043
2008	540,910	480	10,189.1	9,036
2009	545,413	488	10,095.2	9,031
2010	500,987	447	10,111.0	9,027
2011	546,247	462	10,653.9	9,020
2012	520,544	407	11,517.7	9,011
2013	523,856	391	12,078.2	9,006
2014	524,642	416	10,173.5	8,409
2015	540,559	480	11,129.7	9,465
2016	531,740	457	11,132.0	9,430
2017	553,656	478	11,350.6	9,415
County: 2016				
Honolulu	319,243	411	6,782.2	8,741
Hawaii	100,947	513	1,910.1	9,710
Kauai	42,995	516	861.9	10,341
Maui	68,556	388	1,577.7	8,926
County: 2017				
Honolulu	325,348	411	6,891.9	8,712
Hawaii	105,396	520	1,966.9	9,702
Kauai	48,795	568	886.2	10,322
Maui	74,117	412	1,605.6	8,926

Continued on next page.

Table 18.19-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1993 TO 2017, AND BY COUNTY, 2016 AND 2017 -- Con.

1/ Includes gasoline, diesel oil, and butanol.

2/ Based on motor vehicle total by county of inspection; includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.20-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED SURVEY SITES: 2015 TO 2017

[Annual average daily traffic (AADT), the average of 24 hour counts collected every day in the year, unless otherwise specified]

Site	Route	Milepoint	2015	2016	2017
Oahu					
H-1 west of Kualalalai Pkwy overpass	H-1	3.41	91,600	94,300	92,800
H-1 west of Kaonohi St overpass	H-1	11.74	231,100	240,800	247,700
H-1 at Halawa Stream bridge	H-1	13.54	103,300	109,100	110,500
H-1 at airport off-ramp	H-1	16.22	105,800	96,700	96,900
H-1 west of King St tunnel	H-1	18.77	63,100	66,500	124,050
H-1 at Kalihi interchange	H-1	19.27	170,300	177,900	124,050
H-1 at Kapalama drainage canal bridge	H-1	20.24	186,700	193,400	196,900
H-1 at McCully St overpass	H-1	23.55	137,200	140,600	142,000
H-1 at Manoa-Palolo drainage canal	H-1	24.60	110,100	111,700	112,200
H-2 south of Pineapple Rd overpass	H-2	4.02	95,200	96,800	98,700
H-3 west of North Halawa Valley bridge	H-3	1.28	47,400	48,700	49,100
H-3 west of Kamehaha Hwy interchange	H-3	10.37	26,500	27,100	27,200
Moanalua Freeway west of Kahuapaani St overpass	H-201	0.21	46,200	46,800	47,300
Moanalua Freeway west of Moanalua St bridge	H-201	3.19	104,800	108,500	108,900
Pali Hwy at tunnels	61	5.69	41,900	41,600	42,100
Likelike Hwy north of Valley View Drive	63	2.96	31,600	32,300	31,200
Sand Island Parkway north of Pascule bridge	64	1.41	13,300	12,700	12,800
Kalaniana'ole Hwy east of Ainakoa Ave	72	18.32	82,600	83,900	84,800
Kamehameha Hwy at Wilson Bridge	80	0.01	49,600	32,483	56,500
Kamehameha Hwy 1.6 miles northeast of Johnson Rd	83	30.59	12,300	12,600	12,800
Nimitz Hwy east of Sand Island Access Rd	92	4.04	56,700	56,500	57,200
Farrington Hwy at Makaha bridge #2	93	12.50	18,500	18,900	18,700
Kalaeloa Blvd south of H-1 on-ramp	95	0.27	35,400	36,200	36,900

Continued on next page.

**Table 18.20-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED
SURVEY SITES: 2015 TO 2017 -- Con.**

Site	Route	Milepoint	2015	2016	2017
Oahu con.					
Kamehameha Hwy at Kalauao bridge	99	20.67	51,816	51,816	38,200
Kunia Rd near Kunia Dr	750	4.81	14,400	14,400	13,900
Hawaii					
Volcano Rd near Ikaika St	11	5.29	41,700	43,400	44,300
Volcano Rd at Glenwood Park	11	19.66	6,700	7,100	7,500
Mamalahoa Hwy at states' south Kona baseyard	11	104.14	6,700	6,767	7,300
Queen Kaahumanu Hwy near Hualalai Rd	11	120.77	25,900	25,800	24,700
Hawaii Belt Rd north of Kalaoa bridge	19	8.01	9,800	10,100	10,400
Queen Kaahumanu Hwy near Kaupulehu Dr	19	83.60	13,700	13,700	13,400
Queen Kaahumanu Hwy north of OTEC access Rd	19	93.74	24,400	24,000	24,400
Keaau-Paho Rd south of waste station Rd	130	2.51	28,900	28,900	30,800
Maui					
Honoapiilani Hwy south of Kaanapali Pkwy	30	23.58	42,100	43,300	43,800
Honoapiilani Hwy north of Kahana Kai bridge	30	28.37	15,787	14,819	15,483
Piilani Hwy near Lipoa Pkwy	31	1.47	36,900	34,721	42,400
Hana Hwy near Central Power Plant Rd	36	1.70	41,000	37,525	37,400
Hana Hwy near Baldwin Park	36	6.28	18,700	18,800	18,800
Keolani Pl near Palapala Dr	36A	0.50	15,500	14,400	9,500
Kaleakala Hwy near North Firebreak Rd	37	0.61	31,200	32,000	32,700
North Kihei Hwy near 9th St	310	0.86	16,800	17,100	17,100
Mokulele Hwy near Nakii Rd	311	2.38	32,300	33,400	34,300
Kuihelani Hwy near Mauilani Pkwy	380	1.52	24,500	24,900	25,700

Continued on next page.

**Table 18.20-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED
SURVEY SITES: 2015 TO 2017 -- Con.**

Site	Route	Milepoint	2015	2016	2017
Kauai					
Kaumualii Hwy near Nani St	50	1.51	26,800	25,605	28,400
Kaumualii Hwy at Punee Rd	50	8.35	14,600	14,900	15,200
Kaumualii Hwy near Alawai Rd	50	22.69	11,600	11,100	11,500
Rice St near Mokoī St	51	0.79	14,100	13,400	13,600
Kuhio Hwy near Huilei Rd	56	2.40	15,200	15,500	15,100
Kuhio Hwy northwest of Kolo Rd and Kalamania Rd	56	23.53	14,700	15,000	15,500
Nawiliwili Rd near Kanani St	58	1.44	12,500	11,500	12,200
Akuhuni Rd near Palai St	570	0.31	12,800	13,600	14,200

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

**Table 18.21-- ROADWAY CONGESTION FOR THE HONOLULU
URBANIZED AREA: 2011 TO 2014**

Subject	2011	2012	2013	2014
Population (1,000s)	800	820	835	845
Peak commuters (1,000s) 1/	364	374	381	379
Daily vehicle-miles of travel (1,000s)				
Freeway	6,265	5,855	5,959	6,066
Arterial streets	3,148	3,125	3,139	3,252
Cost components				
Value of time (\$/hour)	16.79	17.14	17.39	17.67
Commercial cost (\$/hour)	86.81	89.56	89.60	94.04
Gasoline (\$/gallon)	3.66	4.11	4.35	4.21
Diesel (\$/gallon)	4.43	4.79	4.91	4.86
Annual excess fuel consumed 2/				
Total fuel (1,000 gallons)	13,478	13,738	13,951	14,118
Fuel per peak auto commuter (gallons)	25	25	25	26
Annual delay 3/				
Total delay (1,000s of person-hours)	26,417	26,926	27,344	27,672
Delay per peak auto commuter (person-hours) 4/	50	50	50	50
Congestion cost (constant 2014 \$) 5/				
Total cost (\$ million)	619	618	619	616
Cost per peak auto commuter (\$)	1,130	1,128	1,129	1,125

1/ Number of travelers who begin a trip during the morning or evening peak travel periods (6 to 10 a.m. and 3 to 7 p.m.). "Commuters" are private vehicle users unless specifically noted.

2/ Increased fuel consumption due to travel in congested conditions rather than free-flow conditions.

3/ The overall size of the congestion problem. Measured by the total travel time above that needed to complete a trip at free-flow speeds.

4/ A yearly sum of all the per-trip delays for those persons who travel in the peak period (6 to 10 a.m. and 3 to 7 p.m.). This measure illustrates the effect of traffic slowdowns as well as the length of each trip.

5/ Value of travel delay for 2014 (estimated at \$17.67 per hour of person travel and \$94.04 per hour of truck time) and excess fuel consumption estimated using state average cost per gallon.

Source: Texas Transportation Institute, *Urban Mobility Scorecard* <<http://mobility.tamu.edu/ums/report/>> accessed July 8, 2016.

Table 18.22-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1997 TO 2016, AND BY COUNTY, 2015 AND 2016

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal 2/	Injured only	Killed 2/
1997	12,445	117	11,190	131
1998	11,546	113	10,304	120
1999	10,632	90	9,604	98
2000	11,112	116	9,893	132
2001	10,872	133	8,647	140
2002	10,659	116	8,947	119
2003	11,289	117	9,088	133
2004	11,002	128	8,827	142
2005	10,592	129	8,574	140
2006	10,260	144	8,151	161
2007	9,531	123	7,476	138
2008	8,247	102	6,427	107
2009	7,377	99	5,784	109
2010	7,944	108	6,444	113
2011	7,457	97	6,584	100
2012 3/	4/ 4,511	115	4/ 3,957	125
2013 3/	4/ 3,708	94	4/ 3,467	102
2014 3/	4/ 4,052	95	4/ 3,555	95
2015 3/	4/ 3,759	85	4/ 3,345	93
2016 3/	22	109	23	120
County: 2015 3/				
Honolulu	4/ 2,304	48	4/ 2,021	48
Hawaii	4/ 491	17	4/ 404	21
Kauai	4/ 386	3	4/ 284	3
Maui	4/ 578	17	4/ 636	21
County: 2016 3/				
Honolulu	7	55	6	59
Hawaii	1	27	-	32
Kauai	-	8	-	8
Maui	14	19	17	21

1/ Effective 1991, includes only accidents with damage of \$1,000 or more or causing injury or death.
 Effective June 20, 1995, includes only accidents with damage of \$3,000 or more or causing injury or death.

2/ Effective 2005, based on Fatality Analysis Reporting System (FARS) data published by the National Highway Traffic Safety Administration.

3/ Preliminary.

4/ Revised from previous *Data Book*.

Source: Hawaii State Department of Transportation, Highways Division/Traffic Branch, records.

Table 18.23-- DRIVERS INVOLVED IN FATAL CRASHES AND BLOOD ALCOHOL CONCENTRATION (BAC) OF THE DRIVER: 2014 TO 2016

[Blood alcohol concentration (BAC) is measured in grams per deciliter (g/dl), one decileter = 1/10 liter. Totals may not equal sum of county totals due to independent rounding. Also, percentages as displayed are calculated from unrounded number of estimated fatalities and may not equal those calculated from the rounded numbers (especially for counties with very few fatalities)]

County	All drivers	No alcohol BAC = 0.00		Any alcohol BAC = 0.01 +		BAC = 0.01 - 0.07		BAC = 0.08 +	
		Number	Percent	Number	Percent	Number	Percent	Number	Percent
2014, State total	128	90	70	38	30	3	3	35	27
Hawaii	17	12	73	5	27	1	3	4	24
Honolulu	70	49	70	21	30	2	3	19	27
Kauai	13	11	85	2	15	-	-	2	15
Maui	28	18	63	10	37	1	3	10	34
2015, State total	125	90	72	35	28	5	4	30	24
Hawaii	32	25	78	7	22	1	4	6	18
Honolulu	66	49	74	17	26	2	2	15	23
Kauai	4	3	70	1	30	-	-	1	30
Maui	23	13	58	10	42	2	9	8	33
2016, State total	153	113	74	40	26	6	4	34	22
Hawaii	40	32	80	8	20	2	4	6	16
Honolulu	75	56	75	19	25	2	3	17	22
Kauai	11	6	57	5	43	1	9	4	34
Maui	27	19	69	8	31	1	4	7	27

Source: U.S. Department of Transportation, National Highway Traffic Safety Administration (NHTSA), National Center for Statistics & Analysis (NCSA), Fatality Analysis Reporting System (FARS), FARS Encyclopedia: Reports, FARS Encyclopedia: States - Alcohol <<http://www-fars.nhtsa.dot.gov/>> accessed July 10, 2018.

**Table 18.24-- REGISTERED TAXICABS AND BICYCLES, BY ISLAND:
2015 TO 2017**

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	2015	2016	2017	2015	2016	2017
Hawaii	256	266	254	4,864	5,054	5,078
Maui	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Lanai	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Molokai	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Oahu	2,479	1,791	(3/)	498,223	526,636	549,895
Kauai 4/	-	-	-	5/ 944	(NA)	(NA)

NA Not available.

1/ Taxicabs are licensed annually, except in Kauai County where registration is not required. Maui data are for the County of Maui. Oahu data are for fiscal year July 1 to June 30.

2/ Bicycles with wheels having a diameter of 20 inches or more were formerly licensed on an annual basis, have, since November 1, 1988, been registered biennially, see SLH 1988, Act 264, sec. 1; the Honolulu County registrations are permanent with no annual renewals. Act 200 of the Hawaii Session Laws of 2016, requires the annual registration and safety inspection of mopeds beginning January 1, 2017.

3/ Taxicabs are no longer inspected by the city, as they are now self-certifying.

4/ As of January 1, 1999, bicycles are issued a permanent bicycle tag which is good for the life of the bicycle.

5/ Due to a misinterpretation on the retail level that has been corrected in 2015, 2015 figure might not be comparable to previous years.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism. Data provided by the Department of Finance of the Counties of Hawaii, Maui and Kauai, and the Department of Customer Services of the City & County of Honolulu.

**Table 18.25-- PASSENGER CAR RENTAL AND LEASING
(NAICS 53211): 1997 TO 2012**

[Includes only establishments with payroll. Statistics based on the North American Industry Classification System (NAICS)]

Subject	State total	County			
		Hawaii	Honolulu	Kauai	Maui
Number of establishments					
1997	63	11	25	(NA)	19
2002	64	13	19	10	22
2007	102	25	40	11	26
2012	116	26	45	16	29
Revenue (\$1,000)					
1997	347,624	45,172	154,679	(NA)	104,759
2002	478,241	70,509	208,435	61,100	138,197
2007	(D)	103,774	(D)	82,207	(D)
2012	728,725	108,308	(D)	96,896	(D)

NA Not available.

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Census Bureau, *1997 Economic Census, Real Estate and Rental and Leasing, Geographic Area Series, Hawaii*, EC97F53A-HI, (Aug. 1999), tables 1 and 3 <<http://www.census.gov/epcd/www/97EC53.HTM>>; *2002 Economic Census, Real Estate and Rental and Leasing, Geographic Area Series, Hawaii*, EC02-53A-HI, (Dec. 2004), tables 1 and 3 <http://www.census.gov/econ/census02/guide/02EC_HI.HTM> accessed February 25, 2005; *2007 Economic Census, Real Estate and Rental and Leasing: Geographic Area Series: Hawaii* <<http://www.census.gov/econ/census07/>> accessed June 1, 2010; *2012 Economic Census, Real Estate and Rental and Leasing: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012* <<http://www.census.gov/econ/census/help/sector/gas.html>> accessed June 19, 2015.

**Table 18.26-- MOTOR CARRIER CHARACTERISTICS, BY COUNTY:
2014 TO 2016**

[As of September]

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
2014					
State total	1,776	6,493	153,099	6,106	31,297
Hawaii	290	954	22,652	1,339	5,233
Maui	242	1,048	25,700	910	3,827
Honolulu	1,153	4,169	97,135	3,260	20,135
Kauai	91	322	7,612	597	2,102
2015					
State total	1,659	6,717	158,419	5,172	26,632
Hawaii	245	943	22,391	1,005	4,464
Maui	237	1,110	27,220	828	3,201
Honolulu	1,078	4,239	98,766	2,797	17,137
Kauai	99	425	10,042	542	1,830
2016					
State total	1,543	6,225	147,308	4,739	23,013
Hawaii	236	919	22,013	899	3,586
Maui	234	1,241	30,432	828	3,256
Honolulu	965	3,605	83,996	2,490	14,420
Kauai	108	460	10,867	522	1,751

1/ Includes mostly tour bus operators; excludes public transit, school buses, taxicabs, and rental car companies.

2/ Includes truckers, moving companies, etc.

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.27-- PUBLIC TRANSIT, FOR OAHU: 1993 TO 2017

[As of June 30. Service provided by City and County of Honolulu bus system]

Year	Number of buses 1/	Bus mileage 2/	Total passengers 3/	Revenues (dollars)
1993	470	18,120,044	76,136,390	19,837,616
1994	501	18,396,694	77,338,147	23,897,154
1995	508	19,031,466	72,745,086	25,058,736
1996	523	19,090,912	68,923,459	30,420,976
1997	524	19,452,526	68,634,884	29,804,091
1998	525	19,665,805	71,822,553	29,197,402
1999	525	19,639,602	66,236,147	27,819,265
2000	525	20,359,607	66,602,820	27,055,656
2001	529	21,710,838	70,384,025	26,963,518
2002	525	21,800,354	73,524,474	30,602,648
2003	525	21,482,533	69,100,627	30,114,566
2004 4/	536	19,380,256	61,297,980	33,652,238
2005	496	21,558,149	67,406,827	39,925,419
2006	499	21,166,957	70,384,355	41,531,437
2007	524	21,075,502	71,749,376	41,742,352
2008	528	21,536,584	69,759,954	41,984,132
2009	530	21,502,920	77,329,706	42,454,923
2010	530	21,324,615	73,158,633	45,874,670
2011	516	21,378,394	73,832,127	51,721,436
2012	515	21,233,308	76,296,482	54,774,006
2013	526	20,310,301	69,242,214	55,038,042
2014	519	20,707,063	66,285,449	54,976,149
2015	521	21,229,733	69,327,213	55,064,804
2016 5/	543	21,545,265	68,314,175	53,216,236
2017 5/	546	20,999,788	65,276,018	51,441,589

1/ Number of buses refers to number of buses in active fleet and an additional shuttle service.

2/ Estimated number of vehicle miles.

3/ Estimated number of passengers, including senior citizens and disabled.

4/ Bus strike for 34 days.

5/ As of 2016 all statistics compiled include statistic for an additional shuttle service.

Source: City and County of Honolulu, Department of Transportation Services, Public Transit Division, records.

**Table 18.28-- BUS FARE CHRONOLOGY, FOR OAHU:
1971 TO 2018**

[As of July 1, 2018. In dollars]

Effective date	One-way cash fare		Monthly pass	
	Adult 1/	Youth 2/	Adult 1/	Youth 2/
March 1, 1971	.25	.15	(X)	(X)
March 2, 1971	.25	.10	(X)	(X)
June 9, 1972 3/	.25, .50	.10, .25	(X)	(X)
March 15, 1974	.25	.10	(X)	(X)
November 1, 1979	.50	.25	15.00	7.50
June 18, 1984	.60	.25	15.00	7.50
October 1, 1993	.85	.25	20.00	7.50
July 1, 1995	1.00	.50	25.00	12.50
July 1, 2001	1.50	.75	27.00	13.50
July 1, 2003	1.75	.75	30.00	13.50
October 1, 2003	2.00	1.00	40.00	20.00
July 1, 2009 4/	2.25	1.00	50.00	25.00
July 1, 2010 5/	2.50	1.25	60.00	30.00
January 1, 2018 6/	2.75	1.25	70.00	35.00

X Not applicable.

1/ Adult means any person over the age of 17 who does not qualify as a youth.

2/ Youth means a person 6 through 17 years of age, subject to the presentation of a valid identification card establishing the age of the person. The term includes high school students, up to 19 years of age, with a valid high school identification card establishing the age of the students and the student's current enrollment, but excludes college, university and vocational training students if over the age of 17.

3/ Zone fares initiated and later eliminated.

4/ Other fares. Annual pass, adult: \$550.00, youth: \$275.00.

5/ Other fares. Annual pass, adult: \$660.00, youth: \$330.00.

6/ As of October 1, 2017 transfers have been discontinued. Other fares. 1-day pass, adult: \$5.50, youth: \$2.50; Annual pass, adult: \$770.00, youth: \$385.00.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records; TheBus Oahu Transit Services, Inc.

<<http://www.thebus.org/Fare/FarePasses.asp>> accessed July 1, 2018.

**Table 18.29-- AIRPORTS AND HELIPORTS, BY CONTROL,
BY ISLAND: 2016**

[As of December 31]

Island	Airports 1/				Heliports 3/	
	State 2/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
State total	9	7	4	1	-	6
Hawaii	2	2	1	-	-	5
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	2	-	-	1
Kauai	1	1	1	1	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	1	-	-	-	-	-

1/ Excludes private airports.

2/ Three airports classified as general aviation fields (Waimea-Kohala, Hana, and Kalaupapa) provide regular air service.

3/ Excludes military and private heliports.

4/ Owned by the U.S. Department of the Interior, Fish and Wildlife Service.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.30-- HONOLULU INTERNATIONAL AIRPORT AIRCRAFT OPERATIONS AND ENPLANED PASSENGERS: 2000 TO 2016

[Fiscal year ending June 30]

Year	Aircraft operations 1/	Enplaned passengers 2/	Rank 3/
2000	237,188	10,815,367	23
2001	231,388	10,150,357	24
2002	219,286	9,108,574	25
2003	213,995	9,148,533	24
2004	217,151	9,250,413	25
2005	250,780	9,629,674	26
2006	246,383	9,583,299	25
2007	249,607	10,237,304	25
2008	228,420	9,450,696	25
2009	219,158	8,615,603	25
2010	202,150	8,633,599	25
2011	206,789	8,598,902	27
2012	214,947	9,014,375	27
2013	223,083	9,484,443	27
2014	234,594	9,422,406	27
2015	242,442	9,483,424	28
2016	244,612	9,668,758	28

1/ Include itinerant air carrier and air taxi only.

2/ Include air carrier, commuter and international.

3/ Ranking of top 100 FAA towers by total enplanements, 1 for highest number of passengers.

Source: U.S. Department of Transportation, Federal Aviation Administration, *Terminal Area Forecast Summary* (annual) <https://www.faa.gov/data_research/aviation/taf/> accessed June 21, 2018.

Table 18.31-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 2015 TO 2017

[An FAA directive dated December 8, 1987, requires all aircraft with 60 seats or less to be designated as air taxis, even if such aircraft are operated by a designated air carrier. This reclassification especially affects the data for Molokai Airport]

Airport	Total operations	Air carrier	Air taxi	General aviation	Military
2015					
Honolulu International	312,655	154,429	88,620	50,813	18,793
Kahului	134,674	51,988	65,356	14,878	2,452
Kona International	135,064	24,809	22,350	71,545	16,360
Lihue	132,398	23,598	77,497	24,659	6,644
Hilo International	81,269	15,650	47,663	8,376	9,580
Molokai	37,328	-	31,728	4,180	1,420
Kalaeloa	128,558	9	2,075	101,424	25,050
2016					
Honolulu International	305,608	159,799	84,996	44,021	16,792
Kahului	136,654	52,768	63,743	18,156	1,987
Kona International	116,710	27,428	20,864	52,995	15,423
Lihue	129,120	25,717	76,012	22,906	4,485
Hilo International	80,713	15,485	50,617	7,894	6,717
Molokai	44,822	2	38,896	4,546	1,378
Kalaeloa	115,035	21	1,356	94,239	19,419
2017					
Honolulu International	311,857	165,494	94,070	38,496	13,797
Kahului	147,386	55,292	72,084	18,510	1,500
Kona International	113,947	32,182	23,520	51,401	6,844
Lihue	129,572	28,759	77,470	20,630	2,713
Hilo International	91,411	16,527	45,772	23,560	5,552
Molokai	38,622	332	33,349	4,034	907
Kalaeloa	127,883	38	24	107,471	20,350

Source: For 2015, Hawaii State Department of Transportation, Airports Division, records; For 2016 and 2017 Federal Aviation Administration, Air Traffic Activity System, Airport Operations: Standard Report <<https://aspm.faa.gov/opsnet/sys/main.asp>> accessed on June 20, 2018.

**Table 18.32-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1991 TO 2017**

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	Hilo International Airport	Kona International Airport 1/	Kahului Airport	Lihue Airport	Molokai Airport
1991	403,566	88,206	56,140	180,857	112,679	47,898
1992	403,628	91,055	63,939	178,752	103,686	35,662
1993	358,505	92,297	59,904	172,265	70,910	39,057
1994	359,569	86,292	66,438	179,227	91,582	38,369
1995	373,926	84,917	73,537	179,883	97,400	45,517
1996	372,268	87,862	77,025	178,590	106,332	49,221
1997	358,784	101,521	87,358	173,342	111,349	44,667
1998	334,046	112,479	81,285	180,890	105,979	49,353
1999	346,609	115,820	82,955	188,385	115,523	49,184
2000	345,771	115,546	98,052	174,855	113,850	44,691
2001	327,006	96,238	107,793	160,324	103,655	43,806
2002	323,726	97,540	123,704	157,868	102,426	43,065
2003	301,919	99,415	119,210	151,558	97,576	40,944
2004	320,520	107,880	137,918	160,552	104,506	36,757
2005	330,506	108,462	154,967	168,449	107,497	39,364
2006	317,317	96,724	143,411	164,992	118,169	39,685
2007	310,607	96,011	144,537	148,034	116,461	37,615
2008	286,593	75,598	127,796	128,022	113,371	31,200
2009	274,434	67,851	109,581	118,800	99,171	24,295
2010	263,440	78,663	124,889	118,896	106,815	26,491
2011	263,354	78,687	111,968	122,449	100,487	30,274
2012	278,145	79,064	116,654	130,010	118,431	34,672
2013	290,237	94,311	118,037	128,303	126,302	34,518
2014	311,138	86,983	129,655	128,612	126,577	34,363
2015	312,655	81,269	135,064	134,674	132,398	37,328
2016	305,608	80,713	116,710	136,654	129,120	44,822
2017	311,857	91,411	113,947	147,386	129,572	38,622

1/ Formerly Keahole Airport; effective June 16, 1997, the new name is The Kona International Airport at Keahole.

Source: For 1991-2015, Hawaii State Department of Transportation, Airports Division, records; For 2016 and 2017 Federal Aviation Administration, Air Traffic Activity System, Airport Operations: Standard Report <<https://aspm.faa.gov/opsnet/sys/main.asp>> accessed on June 20, 2018.

**Table 18.33-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS
SERVING HAWAII: 2006 TO 2017**

[As of June 30. Includes both scheduled and nonscheduled service,
and also commuter lines and other air taxi service]

Service	2006	2007	2008	2009	2010	2011
All carriers	42	39	37	39	33	37
Transpacific only	32	30	28	30	24	26
Domestic	14	14	13	12	11	12
Foreign	18	16	15	18	13	14
Transpacific and interisland	2	2	2	1	2	1
Interisland only	8	7	7	8	7	10
Passenger carriers	4	3	3	3	4	6
Cargo and mail only	4	4	4	5	3	4
Service	2012	2013	2014	2015	2016	2017
All carriers	38	36	36	36	35	42
Transpacific only	28	26	27	28	27	35
Domestic	16	14	14	14	13	19
Foreign	12	12	13	14	14	16
Transpacific and interisland	1	1	1	1	1	1
Interisland only	9	9	8	7	7	6
Passenger carriers	6	6	5	4	4	3
Cargo and mail only	3	3	3	3	3	3

Source: Hawaii State Department of Transportation, Airports Division, records;
and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 18.34-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR
ARRIVING FLIGHTS: 2015 TO 2017**

[Non-stop flights only]

Airport	2015	2016 1/	2017
State of Hawaii	11,937,726	12,020,545	12,235,608
Honolulu International	8,135,126	8,085,502	8,113,768
Kahului	2,271,354	2,335,214	2,329,750
Kona International	810,479	852,562	984,420
Hilo International	44,540	45,045	48,180
Lihue	676,227	702,222	759,490
Domestic	8,224,564	8,315,458	8,409,740
International	3,713,162	3,705,087	3,825,868

1/ Revised from previous *Data Book*.

Source: Hawaii Tourism Authority, Tourism Research, *Monthly Visitors Statistics December 2016* and Hawaii Tourism Authority, Tourism Research, *Monthly Visitor Statistics, December 2017*
<<https://www.hawaii tourism authority.org/research/monthly-visitor-statistics/>> accessed June 20, 2018.

Table 18.35-- CIVIL AIRMEN: 2013 TO 2017

[As of December 31]

Item	2013	2014	2015	2016	2017
Estimated active personnel					
Pilots, except instructors	3,150	3,134	3,145	3,126	3,281
Commercial 1/	735	707	694	678	686
Flight instructors	656	661	698	731	738
Nonpilot airmen 2/ 3/	6,700	6,833	7,004	6,773	6,964
Flight attendant	3,653	3,735	3,889	4,115	4,255
Estimated active women personnel					
Pilots, except instructors	322	332	354	357	385
Commercial 1/	78	78	80	71	72
Flight instructors	73	73	77	81	82
Nonpilot airmen 2/ 3/	2,809	2,865	2,990	3,126	3,224
Flight attendant	2,614	2,664	2,781	2,956	3,060

1/ Includes those with an airplane and/or a helicopter and or glider certificate. Includes pilots under the "Rotorcraft (only)" and "Glider (only)" class certificates.

2/ Includes ground instructors, flight engineers, mechanics, repairmen, parachute riggers, dispatchers, flight navigators and flight attendants.

3/ Data for dispatchers, mechanics, repairmen, parachute riggers and ground instructors represent total ratings issued to date. These ratings retain their validity and have been limited to those held by person under 70 years of age.

Source: U.S. Department of Transportation, Federal Aviation Administration, *U.S. Civil Airmen Statistics* (annual) <https://www.faa.gov/data_research/aviation_data_statistics/civil_airmen_statistics/> accessed on June 21, 2018.

**Table 18.36-- SELECTED STATISTICS FOR HAWAIIAN
AIRLINES: 2007 TO 2010**

Subject	2007	2008	2009	2010
Operating aircraft (year-end)	29	32	33	(NA)
Employees (full-time equivalents)	3,105	3,190	3,600	3,600
Aircraft departures (thousands) 1/	57	65	74	(NA)
Passengers enplaned (millions) 2/	7.1	7.8	8.3	8.4
Revenue passenger miles (billions) 2/	7.9	7.8	8.1	8.7
Cargo revenue ton miles (millions) 1/	70.0	76.7	75.0	84.0

NA Not available.

1/ All services.

2/ Scheduled services only.

Source: Airlines for America, *Economic Report* (annual) <<http://www.airlines.org/Pages/A4A-Economic-Reports-of-the-U.S.-Airline-Industry.aspx>> accessed June 18, 2013.

Table 18.37-- RANK OF HAWAII LOCATIONS AMONG THE TOP DOMESTIC AIRLINE MARKETS: 2007 TO 2010

Rank	Origin or destination	Daily passengers (average, each way)	Average one-way ticket price 1/
2007			
7	Honolulu - Kahului	2,660	35.38
22	Honolulu - Lihue	1,847	35.70
26	Honolulu - Kona	1,771	37.40
29	Honolulu - Hilo	1,694	38.20
34	Honolulu - Los Angeles	1,615	195.14
2008			
11	Honolulu - Kahului	2,091	53.46
30	Honolulu - Lihue	1,497	54.57
32	Honolulu - Kona	1,463	61.24
36	Honolulu - Los Angeles	1,449	231.83
2009			
30	Honolulu - Los Angeles	1,446	214.69
2010			
11	Honolulu - Maui	1,895	59.89

1/ Includes government-imposed taxes and fees.

Source: Airlines for America, *Economic Report* (annual) <<http://www.airlines.org/Pages/A4A-Economic-Reports-of-the-U.S.-Airline-Industry.aspx>> accessed June 18, 2013.

**Table 18.38-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1988 TO 2017**

[Revenue and non-revenue passengers, excluding Military Airlift Command (MAC)]

Year	Overseas passengers 1/		Honolulu transit	Inter-island passengers
	Arrivals	Departures		
1988	6,653,346	6,713,621	1,421,707	8,964,928
1989	7,022,986	7,234,653	1,167,954	9,634,077
1990	7,310,635	7,562,156	1,065,408	9,907,154
1991	7,135,595	7,215,323	1,020,464	9,368,576
1992	7,248,645	7,087,463	1,318,044	9,568,434
1993	6,924,571	6,907,236	1,298,684	9,345,320
1994	7,309,894	7,478,052	956,926	9,920,709
1995	7,517,273	7,692,494	750,495	10,388,281
1996	7,700,229	7,992,620	690,833	10,581,825
1997	7,788,367	7,874,798	706,030	10,448,099
1998	7,576,988	7,728,768	466,807	10,075,448
1999	7,699,676	7,737,494	376,236	10,173,069
2000	7,981,640	7,959,325	407,359	10,378,775
2001	7,270,532	7,263,415	275,853	9,169,182
2002	7,414,344	7,370,010	232,806	8,587,568
2003	7,492,272	7,472,568	125,253	7,820,545
2004	8,033,491	8,058,756	175,507	7,713,639
2005	8,730,582	8,749,733	100,172	7,867,942
2006	8,330,646	8,382,891	112,158	8,273,740
2007	8,920,759	8,910,032	100,783	9,188,139
2008	8,015,424	8,027,546	13,092	7,707,047
2009	7,707,730	7,725,872	9,004	7,420,174
2010	8,352,599	8,358,377	3,275	6,882,052
2011	8,503,087	8,428,828	45,913	6,658,445
2012	9,178,412	9,190,908	15,578	7,018,163
2013	9,294,068	9,283,476	230,494	7,122,158
2014	9,457,823	9,453,566	233,302	6,982,281
2015	9,901,345	9,908,484	230,725	7,071,105
2016	10,223,372	10,241,737	240,053	7,198,710
2017	10,794,436	10,785,967	125,935	7,217,969

1/ At airports in Honolulu, Kahului, Kona, Lihue and Hilo.

Source: For Data 1988-2016, Hawaii State Department of Transportation, Airports Division, records and for 2017, Hawaii State Department of Business, Economic, Development & Tourism, Airline data compilation and United States, Department of Transportation, Bureau of Transportation Statistics, Database <https://www.transtats.bts.gov/databases.asp?Mode_ID=1&Mode_Desc=Aviation&Subject_ID2=0> accessed on June 22, 2018.

Table 18.39-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 2017

Airport	Passengers 1/		Cargo (U.S. tons)		Mail (U.S. tons)	
	Departures	Arrivals	Outgoing	Incoming	Outgoing	Incoming
OVERSEAS						
Total	10,785,967	10,794,436	214,896	349,198	6,466	8,810
Honolulu	7,197,718	7,180,498	207,650	328,943	6,454	8,808
Kahului	2,072,007	2,075,936	1,400	9,691	12	-
Kona 2/	847,937	859,265	5,808	9,903	-	1
Lihue	632,257	644,773	34	656	-	-
Hilo	36,048	33,964	4	4	-	-
INTERISLAND						
Total	7,217,969	7,217,969	95,490	95,490	16,948	16,948
Honolulu	3,181,062	3,178,844	61,135	25,694	14,022	2,869
Kahului	1,411,198	1,424,625	8,478	25,211	1,741	6,277
Kona 2/	944,987	929,256	11,125	18,718	1	-
Lihue	894,305	885,013	5,862	12,420	46	3,465
Hilo	616,210	627,635	8,419	11,882	1,139	4,337
Molokai	84,139	87,488	156	353	-	-
Lanai	37,864	37,492	127	144	-	-
Kapalua	35,760	35,729	188	1,069	-	-
Waimea-Kohala	4,407	4,322	-	-	-	-
Kalaupapa	5,598	5,354	-	-	-	-
Kalaelo	-	-	-	-	-	-
Hana	2,439	2,211	-	-	-	-

1/ Revenue and non-revenue passengers, excluding passengers in transit and Military Airlift Command (MAC).

2/ Formerly Keahole Airport.

Source: Hawaii State Department of Business, Economic, Development & Tourism, Airline compilation and United States, Department of Transportation, Bureau of Transportation Statistics, Database

<https://www.transtats.bts.gov/databases.asp?Mode_ID=1&Mode_Desc=Aviation&Subject_ID2=0>

accessed on June 22, 2018.

Table 18.40-- AIR CARGO AND AIRMAIL: 1989 TO 2017

[In thousands of pounds]

Year	Overseas air cargo		Overseas airmail		Interisland	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: outgoing & incoming	Airmail: outgoing & incoming
1989	313,402	301,674	28,258	33,542	146,960	20,706
1990	295,326	337,724	32,022	38,198	145,418	22,848
1991	306,376	342,032	33,658	44,281	144,104	23,673
1992	305,224	305,658	39,268	66,052	153,912	25,594
1993	307,302	255,516	52,324	112,970	147,054	26,406
1994	339,086	308,962	47,921	121,964	148,904	27,964
1995	336,764	276,416	49,056	118,098	149,174	27,646
1996	355,466	296,856	48,654	114,408	160,784	29,572
1997	424,990	363,598	51,212	110,336	173,154	31,272
1998	508,858	311,196	56,902	107,039	140,034	40,548
1999	414,678	359,426	61,410	110,975	138,368	47,786
2000	359,762	320,502	59,480	110,396	142,380	60,768
2001	242,956	204,588	50,680	102,582	150,074	42,866
2002	320,952	335,252	51,492	98,266	148,104	30,138
2003	392,530	368,656	72,564	93,030	146,188	34,916
2004	304,544	403,002	55,330	88,069	145,364	41,995
2005	298,381	409,956	60,351	101,662	144,955	48,445
2006	270,910	404,195	69,827	115,104	138,670	37,538
2007	262,473	428,361	62,718	117,636	140,212	35,117
2008	238,648	401,225	55,186	116,443	126,376	35,606
2009	222,112	373,800	51,720	111,637	120,804	32,354
2010	253,571	394,315	54,643	158,671	132,666	35,945
2011	231,234	367,534	42,326	95,390	130,115	29,554
2012	282,198	390,037	38,920	98,617	129,929	24,605
2013	267,976	404,957	36,199	90,771	138,963	33,768
2014	288,057	430,502	46,232	109,619	140,422	38,248
2015	280,468	427,713	51,234	122,864	151,851	42,809
2016	227,922	382,116	42,605	115,608	150,680	38,527
2017 1/	429,791	698,396	12,932	17,619	190,980	33,897

1/ Data for 2017 includes commercial airlines and cargo airlines, data might not be comparable to previous years as mail and cargo data might be categorized differently.

Source: For Data 1989-2016, Hawaii State Department of Transportation, Airports Division, records and for 2017, Hawaii State Department of Business, Economic, Development & Tourism, Airline data compilation and United States, Department of Transportation, Bureau of Transportation Statistics, Database <https://www.transtats.bts.gov/databases.asp?Mode_ID=1&Mode_Desc=Aviation&Subject_ID2=0> accessed on June 22, 2018.

**Table 18.41-- NON-STOP FLIGHTS TO DEPART STATE OF HAWAII,
BY DESTINATION: JULY 2017**

[Transpacific flights to depart from the State of Hawaii during a one-month period,
including scheduled and chartered flights]

Destination	Flights during month	Destination	Flights during month
Transpacific	5,011	Japan	
U.S.	3,785	Fukuoka	31
West		Nagoya	62
Anchorage	31	Osaka	130
Denver	98	Sapporo	13
Las Vegas	88	Tokyo - Haneda	93
Los Angeles	1,301	Tokyo - Narita	396
Oakland	199	Other Asia	
Phoenix	250	Beijing	27
Portland	119	Seoul	99
Sacramento	62	Shanghai	27
Salt Lake City	31	Taipei	9
San Diego	142	Oceania	
San Francisco	537	Auckland	38
San Jose	155	Brisbane	13
Seattle	395	Melbourne	18
East		Sydney	80
Atlanta	31	Other	
Chicago	36	Apia	4
Dallas / Fort Worth	160	Christmas Island	4
Houston	31	Guam	31
Minneapolis	26	Majuro	13
New York	31	Manila	22
Newark	31	Nadi	5
Washington, D.C.	31	Pago Pago	13
Canada		Papeete	5
Vancouver	93		

Source: Diio - Mi[®], Hawai'i Tourism Authority, Tourism Research.

**Table 18.42-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY
HAWAIIAN AIRLINES: 2013 TO 2017**

[As of July 1. Includes all taxes]

Category	2013	2014	2015	2016	2017
Regular fare	191.40	185.00	187.00	182.40	189.40
Lowest capacity-controlled fare	85.10	68.70	69.40	76.40	79.40

Source: Hawaiian Airlines, records.

Table 18.43-- ANNUAL AVERAGE ROUND TRIP AIRFARES BETWEEN HONOLULU AND SELECTED DESTINATIONS: 2002 TO 2017

[Annual average, origin and destination round-trip base airfares in dollars, includes all airlines, includes all classes, excludes taxes and fees]

Year	Los Angeles	San Francisco	Las Vegas	Portland, Oregon	Seattle	Dallas/Fort Worth	Chicago
2002 1/	386	399	385	401	460	460	511
2003 1/	348	347	380	415	431	444	493
2004 1/	364	379	410	421	428	514	500
2005 1/	373	375	406	403	439	553	546
2006 1/	374	378	425	434	466	602	590
2007 1/	398	391	430	404	421	601	602
2008 1/	480	485	510	451	456	676	676
2009 1/	444	427	449	390	395	642	657
2010 1/	434	421	449	399	410	674	659
2011 1/	512	494	468	428	479	777	704
2012 1/	527	489	493	500	524	802	803
2013 1/	549	550	525	488	506	798	849
2014 1/	555	578	529	486	536	871	896
2015 1/	554	563	540	467	502	855	883
2016 1/	580	552	560	495	531	887	908
2017	613	582	597	516	550	967	955

1/ Data revised from previous *Data Book*. Although changes in data before 2012 tend to be less than 1.

Source: United States Department of Transportation, Origin and Destination data from Diio - Mi[®].

Table 18.44-- STATE COMMERCIAL HARBORS: 2017

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet) 1/	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded 1/	Open 1/
Hawaii							
Hilo	35	35	2,300	1,400	2/ 3,650	3/ 105	3/ 1,151
Kawaihae	40	35	1,500	1,450	1,625	16	4/ 1,199
Maui							
Kahului	40	35	2,400	2,050	3,535	62	1,659
Molokai							
Kaunakakai	23	23	1,500	600	690	10	116
Lanai							
Kaunapali	60	30-50	800	500	400	-	89
Oahu							
Honolulu Main	} 45	40	{ 3,600	1,520	} 5/ 33,345	944	12,750
Kapalama			{ 3,500	1,100			
Kalaheo							
Barbers Point	42	38	2,300	1,800	3,260	36	6/ 1,841
Kauai							
Nawiliwili	40	35	1,950	1,540	2,555	83	1,230
Port Allen	35	35	1,500	1,200	1,200	38	35

1/ Revised from previous *Data Book*. Area calculated based on aerial imagery using GIS software.

2/ Construction of Hilo Pier 4 (602 feet long) continuing through 2015.

3/ In 2015 Hilo Harbor, Pier 1 had 40% of its shed demolished.

4/ Yard area includes unpaved areas.

5/ Honolulu Harbor Pier 12 rebuilt, completed in 2016.

6/ Yard area includes unpaved areas.

Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 18.45-- HARBOR DEPTHS: 2016

[In feet]

Harbor	Controlling depth		Project depth	
	Entrance channel	Basin	Entrance channel	Basin
Hilo	(NA)	34	(NA)	35
Kawaihae	42	36	40	35
Kahului	(NA)	34	(NA)	35
Barbers Point	42	37	42	1/ 38
Honolulu	45	2/ 40	45	3/ 40
Nawiliwili	4/ 41	34	40	35

NA Not available.

1/ 21 feet in light-draft harbor basin.

2/ 40 feet in Kapalama Basin and in connecting channel.

3/ 40 feet in connecting channel, 23 feet in Kalihi channel.

4/ Outer and inner channel.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018.

**Table 18.46-- SMALL CRAFT MOORING FACILITIES,
BY ISLAND: DECEMBER 31, 2017**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,838	1,672	214	182	1/ 539+	444
Hawaii	378	345	30	21	1/ 100+	94
Maui	188	187	-	-	150	105
Oahu	1,147	1,016	168	145	1/ 250+	231
Kauai	125	124	16	16	39	14

1/ '+' means equal to or greater (=>) than the number shown.

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, records.

Table 18.47-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLAND

[Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

Island	Number of aids to navigation			Lighthouses	Greatest nominal range (naut. miles)	Highest above sea level (feet)	Highest structure height (feet)
	By control						
	Total	Federal	Other 1/				
Total	548	317	231	21	2/ 25	2/ 931	3/ 153
Hawaii	65	52	13	8	24	156	153
Maui	75	34	41	2	10	161	40
Molokini	1	1	-	-	21	186	138
Kahoolawe	1	1	-	-	7	120	20
Lanai	16	8	8	1	8	91	37
Molokai	19	10	9	1	21	321	8
Oahu	242	156	86	5	25	931	25
Kauai	45	28	17	4	24	174	10
Niihau	-	-	-	-	-	-	-
Lehua	1	1	-	-	7	704	10
Midway	19	19	-	-	4	51	51
At sea	64	7	57	-	-	-	-

1/ State and private. Includes State-maintained fish aggregating buoys at sea.

2/ Kaena Point Light.

3/ Cape Kumukahi Light.

Source: United States Coast Guard, Fourteenth Coast Guard District, records.

**Table 18.48-- UNDOCUMENTED VESSEL REGISTRATION:
DECEMBER 31, 2017**

Subject	Number	Subject	Number
Registered vessels	11,658	Type of vessel	
Length		Aux. powered sailing vessel	1,007
Under 16 feet	3,789	Cabin motorboat	2,160
16 to less than 26 feet	6,085	Open motorboat	5,116
26 to less than 40 feet	1,566	Runabout	1,271
40 to 65 feet	207	Sail only	549
Over 65 feet	11	Houseboat	2
Hull material		Motor vessel over 65 feet in length	9
Aluminum	396	Thrill craft	962
Fiberglass / plastic	10,543	Other	582
Rubber / fabric	356	Uses	
Wood	271	Pleasure	11,241
Other	73	Livery	46
Steel	19	Dealer	9
Propulsion		Manufacturer	1
Inboard	2,521	Youth group - fee exempt	84
Outboard	5,440	Government - fee exempt	254
Inboard / outboard	1,169	Other	23
Sail / inboard	527	Island where vessel is kept	
Sail / outboard	380	Hawaii	2,013
Sail only	450	Kauai	1,235
Manual	61	Lanai	51
Other	121	Maui	1,156
Waterjet	989	Molokai	147
Mooring location		Oahu	7,056
Moored on water	2,649		
Moored on land	9,009		

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *State of Hawaii Report of Undocumented Vessel Registration* (annual).

**Table 18.49-- NUMBERED VESSELS REGISTERED IN HAWAII:
1998 TO 2017**

[Non-documented numbered vessels registered with the Hawaii State Department of Land & Natural Resources, Division of Boating & Ocean Recreation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered. As of December 31]

Year	Number of vessels	Year	Number of vessels
1998	15,138	2008	16,744
1999	15,481	2009	15,709
2000	14,874	2010	14,847
2001	14,273	2011	14,073
2002	15,445	2012	13,328
2003	15,587	2013	13,928
2004	17,130	2014	12,034
2005	15,302	2015	11,230
2006	15,015	2016	11,689
2007	15,094	2017	11,658

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *State of Hawaii Report of Undocumented Vessel Registration* (annual) and records.

Table 18.50-- BOATING ACCIDENTS: 1991 TO 2017

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured, not fatally		
1991	19	3	5	14	19	189.5
1992	19	(NA)	3	5	(NA)	472.4
1993	19	3	3	4	25	219.4
1994	25	3	4	9	28	256.9
1995	91	(NA)	18	(NA)	(NA)	(NA)
1996	46	(NA)	3	(NA)	(NA)	(NA)
1997	43	(NA)	3	(NA)	(NA)	(NA)
1998	42	(NA)	4	(NA)	(NA)	(NA)
1999	26	1	1	11	(NA)	(NA)
2000	22	2	2	11	22	244.8
2001	19	3	3	5	18	46.0
2002	22	2	2	7	24	118.0
2003	30	1	1	10	38	82.3
2004	24	1/ 5	5	6	32	107.2
2005	22	4	4	7	24	35.9
2006	30	7	7	6	32	431.3
2007	18	4	4	4	22	1,190.0
2008	27	5	5	22	30	299.0
2009	31	8	8	-	34	31.0
2010	21	4	4	3	21	(NA)
2011	28	6	6	1	32	55.4
2012	32	5	5	7	35	242.9
2013	18	4	4	7	19	217.2
2014	12	3	3	3	12	7.5
2015	15	5	2	7	16	165.0
2016	16	8	8	4	17	129.0
2017	15	3	3	2	15	809.5

NA Not available.

1/ Only two are termed U.S. Coast Guard reportable.

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics* (annual); Hawaii State Department of Transportation, Harbors Division, Boating Branch, *Recreational Boating Accident Statistics (Reportable) 1989 to 1991*; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Recreational Boating Accident Statistics* (annual) and records.

Table 18.51-- VESSEL ARRIVALS, BY DRAFT: 2015 AND 2016

[Excludes domestic fishing craft]

Harbor	2015			2016		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	908	515	393	592	409	183
Kawaihae	791	606	185	455	404	51
Kahului	1,364	955	409	802	595	207
Barbers Point	1,150	1,015	135	1,215	1,082	133
Honolulu	4,212	2,725	1,487	2,829	2,011	818
Nawiliwili	883	573	310	596	425	171
Kaunakakai	117	117	-	126	126	-
Port Allen	21	21	-	3	3	-

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2015, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels* <<http://www.navigationdatacenter.us/wcsc/pdf/wcuspac15.pdf>> accessed July 10, 2017; *Waterborne Commerce of the United States Calendar Year 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 2 Trips and Drafts of Vessels* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018.

Table 18.52-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1985 TO 2017

[Cargo tonnage in short tons, based on wharfage/tariff. Fiscal years ending June 30]

Year	Overseas vessels		Inter-island vessels	
	Number	Cargo tonnage	Number	Cargo tonnage
1985	1,749	5,071,250	2,412	1,884,925
1986	1,825	5,379,135	2,697	2,121,858
1987	2,080	5,736,005	2,848	2,135,235
1988	2,014	6,586,749	3,172	2,746,776
1989	2,024	6,877,963	3,101	2,892,709
1990	2,159	7,439,568	3,212	2,917,984
1991	2,066	6,939,735	3,190	3,962,085
1992	2,104	8,235,947	3,207	3,101,050
1993	1,918	7,462,619	2,440	2,731,645
1994	1,603	6,434,257	2,737	2,372,971
1995	1,790	6,064,842	2,996	2,096,597
1996	1,650	6,150,398	2,831	2,349,354
1997	1,604	6,244,158	2,679	2,312,266
1998	1,320	6,732,716	4,309	1,765,496
1999	1,262	5,721,503	2,249	1,730,662
2000	1,292	6,325,580	2,215	1,872,074
2001	1,295	6,467,388	2,280	1,863,218
2002	1,270	6,425,288	2,663	1,796,910
2003	1,169	(NA)	2,521	(NA)
2004 1/	1,133	6,671,523	2,418	1,892,904
2005 1/	1,121	7,013,833	2,580	2,212,657
2006 1/	1,061	7,141,689	2,972	2,335,518
2007 1/	1,027	7,474,649	3,157	2,504,483
2008 1/	1,002	7,547,740	2,964	2,330,907
2009 1/	931	6,516,235	2,512	2,237,140
2010 1/	896	6,529,057	2,264	2,233,594
2011 1/ 2/	884	6,487,533	2,390	3,220,416
2012 1/ 2/	861	6,781,058	2,316	3,162,839
2013 1/ 2/	729	7,454,768	1,923	3,333,040
2014 1/ 2/	(NA)	7,333,941	(NA)	3,845,180
2015 1/ 2/	(NA)	7,267,137	(NA)	3,793,661
2016 1/ 2/	(NA)	7,552,323	(NA)	3,766,320
2017 1/ 2/	(NA)	7,554,958	(NA)	3,415,817

NA Not available.

1/ As of fiscal year 2004, cargo tonnage does not include tonnage for bunkering, that is fuel for the use of the vessel to which the fuel is delivered.

2/ Increase in cargo volume for inter-island due to new tariff structure effective March 2010. Cargo volume has been adjusted to pre-March 2010 tariff structure.

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.53-- CRUISE SHIP PASSENGER ARRIVALS AND DEPARTURES,
FOR HONOLULU HARBOR: 2012 TO 2017**

[Fiscal years ending June 30. Includes cruise ships from out-of-state
and cruise ships home-ported in Hawaii]

Type of passenger	2012	2013	2014	2015	2016	2017
In	240,245	176,996	196,984	172,382	166,570	177,137
Out	269,359	282,070	274,462	236,400	240,382	241,551

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.54-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1993 TO 2016**

[In 1,000 short tons. Excludes cargo carried by Army and Navy vessels and cargo in transit]

Year	Hilo	Kawaihae	Kahului	Barbers Point	Honolulu	Nawiliwili
1993	1,469	655	2,216	9,357	10,595	1,283
1994	1,455	736	2,368	9,022	11,672	1,151
1995	1,354	873	2,586	8,233	11,545	1,130
1996	1,442	969	2,828	8,745	12,010	1,203
1997	1,489	980	2,895	10,513	10,353	1,091
1998	1,630	886	2,851	6,658	13,723	938
1999	1,701	1,090	3,513	8,707	12,259	1,348
2000	1,651	1,310	3,477	6,778	15,501	1,581
2001	1,680	1,378	3,695	6,079	16,562	1,478
2002	1,765	1,645	3,458	5,990	16,636	1,619
2003	1,850	1,801	3,778	5,930	17,836	1,721
2004	1,850	2,277	3,901	6,086	19,085	1,757
2005	1,996	2,217	4,132	6,344	20,394	1,977
2006	2,408	2,728	4,794	10,724	16,224	1,864
2007	2,782	2,558	5,630	11,295	17,582	2,333
2008	2,068	2,063	3,958	10,137	14,006	1,680
2009	1,088	1,112	2,139	9,670	9,161	951
2010	1,135	1,050	2,114	9,171	8,903	877
2011	1,984	1,811	3,504	9,800	12,658	1,667
2012	1,968	1,837	4,711	10,046	14,321	1,947
2013	2,062	1,887	3,669	8,671	14,274	1,710
2014	2,188	1,836	3,739	10,058	14,613	1,874
2015	2,130	1,995	3,720	10,570	13,832	1,929
2016	2,158	2,010	3,858	10,226	13,727	2,048

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018 and other annuals.

**Table 18.55-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC,
FOR SPECIFIED HARBORS: 2016**

[In 1,000 short tons. Categories may not sum to totals because of rounding]

Category	Hilo	Kawaihae	Kahului	Barbers Point	Honolulu	Nawiliwili
All freight traffic	2,158	2,010	3,858	10,226	13,727	2,048
Foreign						
Inbound	31	14	21	5,914	865	12
Outbound	-	1	-	694	289	-
Canadian						
Inbound	-	-	-	569	115	-
Outbound	-	-	-	68	39	-
Domestic						
Coastwise	2,127	1,995	3,837	2,980	12,419	2,036
Receipts	1,524	1,228	2,375	1,707	6,196	1,357
Shipments	604	767	1,453	1,250	6,223	679
Internal, inbound, upbound	-	-	9	22	-	-

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2017.

**Table 18.56-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,
FOR SPECIFIED HARBORS: 2016**

[In 1,000 short tons. Categories may not sum to totals due to rounding]

Port and commodity	All commodities	Foreign		Canadian		Total	Domestic		
		Inbound	Outbound	Inbound	Outbound		Coastwise		Internal 1/
							Receipts	Shipments	
Hilo	2,158	31	-	-	-	2,127	1,524	604	-
Petroleum and petroleum products	366	31	-	-	-	335	335	(2/)	-
Primary manufactured goods	30	-	-	-	-	30	27	3	-
Food and farm products	35	-	-	-	-	35	19	16	-
Manufactured equipment, machinery and products	1,693	-	-	-	-	1,693	1,116	577	-
Kawaihae	2,010	14	1	-	-	1,995	1,228	767	-
Petroleum and petroleum products	86	-	-	-	-	86	86	-	-
Primary manufactured goods	48	-	-	-	-	48	45	3	-
Food and farm products	120	-	-	-	-	120	76	44	-
Manufactured equipment, machinery and products	1,694	-	-	-	-	1,694	993	701	-
Kahului	3,858	21	-	-	-	3,837	2,375	1,453	9
Petroleum and petroleum products	410	21	-	-	-	389	388	1	-
Primary manufactured goods	68	-	-	-	-	68	63	5	-
Food and farm products	313	-	-	-	-	313	113	191	9
Manufactured equipment, machinery and products	3,016	-	-	-	-	3,016	1,775	1,241	-
Barbers Point	10,226	5,914	694	569	68	2,980	1,707	1,250	22
Petroleum and petroleum products	8,357	4,841	602	234	68	2,612	1,491	1,099	22
Primary manufactured goods	507	384	-	-	-	123	2	121	-
Food and farm products	(2/)	(2/)	-	-	-	-	-	-	-
Manufactured equipment, machinery and products	164	17	-	(2/)	-	147	147	-	-

Continued on next page.

**Table 18.56-- WATERBORNE COMMERCE, BY SELECTED COMMODITIES,
FOR SPECIFIED HARBORS: 2016 -- Con.**

Port and commodity	All commodities	Foreign		Canadian		Total	Domestic		
		Inbound	Outbound	Inbound	Outbound		Coastwise		Internal 1/
							Receipts	Shipments	
Honolulu	13,727	865	289	115	39	12,419	6,196	6,223	-
Petroleum and petroleum products	1,086	602	156	115	39	174	84	90	-
Primary manufactured goods	300	45	5	(2/)	-	250	199	51	-
Food and farm products	1,761	58	15	-	-	1,689	1,221	468	-
Manufactured equipment, machinery and products	10,003	86	15	(2/)	-	9,901	4,400	5,501	-
Nawiliwili	2,048	12	-	-	-	2,036	1,357	679	-
Petroleum and petroleum products	195	12	-	-	-	183	183	(2/)	-
Primary manufactured goods	28	-	-	-	-	28	24	4	-
Food and farm products	41	-	-	-	-	41	35	6	-
Manufactured equipment, machinery and products	1,759	-	-	-	-	1,759	1,096	663	-

1/ Includes intraport, upbound and downbound.

2/ Figure rounds down to zero.

Source: U.S. Army Corps of Engineers, Institute for Water Resources, *Waterborne Commerce of the United States Calendar Year 2016, Part 4 Waterways and Harbors Pacific Coast, Alaska and Hawaii, Section 1 Freight Traffic* <<https://ndclibrary.planusace.us/#/home>> accessed July 10, 2018.

Table 18.57-- TRANSPORTATION AND WAREHOUSING, EMPLOYMENT AND WAGES (NAICS 48-49), SELECTED CODES: 2016

[Includes only establishments with payroll. Statistics based on the North American Industry Classification System (NAICS)]

NAICS code	Kind of business	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
	Total	1,006	27,864	1,445,672	51,883
481	Air transportation	82	9,013	609,292	67,601
4811	Scheduled air transportation	55	8,674	591,093	68,145
4812	Nonscheduled air transportation	27	339	18,199	53,670
483	Water transportation	22	1,727	126,548	73,266
484	Truck transportation	199	3,376	151,463	44,863
4841	General freight trucking	100	1,808	82,123	45,422
4842	Specialized freight trucking	100	1,568	69,340	44,219
485	Transit & ground passenger transp.	136	2,695	67,003	24,860
4854	School & employee bus transp.	16	1,037	24,447	23,580
4859	Other ground passenger transp.	51	1,082	26,035	24,060
487	Scenic & sightseeing transportation	231	4,250	152,124	35,790
4871	Scenic & sightseeing transp., land	48	1,713	57,678	33,663
4872	Scenic & sightseeing transp., water	159	1,967	63,696	32,382
4879	Scenic & sightseeing transp., other	24	570	30,749	53,946
488	Support activities for transportation	231	4,586	244,054	53,213
4881	Support activities for air transp.	66	2,366	66,932	28,290
4883	Support activities for water transp.	36	1,278	139,869	109,451
4885	Freight transportation arrangement	68	462	24,049	52,044
492	Couriers & messengers	63	1,592	66,181	41,582
4921	Couriers and express delivery services	39	1,471	62,903	42,753
4922	Local messengers and local delivery	23	120	3,277	27,255

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2016*, table 10 <https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 25, 2018.

Table 18.58-- TRANSPORTATION AND WAREHOUSING, EMPLOYMENT AND WAGES (NAICS 48-49), SELECTED CODES: 2017

[Includes only establishments with payroll. Statistics based on the North American Industry Classification System (NAICS)]

NAICS code	Kind of business	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
	Total	1,046	28,937	1,611,903	55,703
481	Air transportation	86	9,527	735,309	77,184
4811	Scheduled air transportation	55	9,162	713,813	77,914
4812	Nonscheduled air transportation	31	365	21,495	58,864
483	Water transportation	23	1,743	127,479	73,124
484	Truck transportation	211	3,388	151,798	44,811
4841	General freight trucking	104	1,840	85,195	46,301
4842	Specialized freight trucking	106	1,548	66,604	43,040
485	Transit & ground passenger transp.	140	2,528	67,201	26,582
4854	School & employee bus transp.	15	1,007	25,555	25,367
4859	Other ground passenger transp.	57	1,022	26,512	25,933
487	Scenic & sightseeing transportation	242	4,394	162,665	37,021
4871	Scenic & sightseeing transp., land	52	1,782	62,884	35,284
4872	Scenic & sightseeing transp., water	167	1,995	65,951	33,061
4879	Scenic & sightseeing transp., other	23	617	33,831	54,846
488	Support activities for transportation	233	4,765	261,192	54,813
4881	Support activities for air transp.	72	2,513	72,052	28,669
4883	Support activities for water transp.	35	1,267	150,896	119,066
4885	Freight transportation arrangement	67	486	25,982	53,507
492	Couriers & messengers	68	1,980	74,864	37,809
4921	Couriers and express delivery services	41	1,607	65,381	40,677
4922	Local messengers and local delivery	26	373	9,483	25,441

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Employment and Wages, Annual Averages 2017*, table 10 <https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 25, 2018.

**Table 18.59-- SHIPMENT CHARACTERISTICS BY STATES OF ORIGIN
AND DESTINATION: 2012**

Characteristics	Value (million dollars)	Tons (thousands)	Ton-miles (millions)
Total originating in Hawaii	22,156	25,730	(1/)
Destination			
Hawaii	20,721	24,793	485
California	(1/)	(1/)	(1/)
Oregon	13	(1/)	(1/)
Washington	35	(1/)	(1/)
Mode of transportation			
Single modes	20,259	25,112	(1/)
Truck	11,256	14,514	199
Water	602	406	117
Air (includes truck and air)	1,027	150	81
Pipeline	7,366	10,030	(1/)
Multiple modes	1,896	618	272
Parcel, U.S. Postal Service or courier	934	17	22
Truck and water	957	597	230
Other multiple modes	(1/)	(1/)	(1/)
Distance shipped (miles)			
Less than 50	18,373	23,572	270
50 to 99	781	488	55
100 to 249	1,533	702	147
250 to 499	33	(1/)	(1/)
500 to 2,000	-	-	-
More than 2,000	(1/)	(1/)	(1/)
Commodity			
Agricultural products	673	276	55
Meat, poultry, fish, seafood, and their preparations	652	137	(1/)
Other prepared foodstuffs and fats and oils	1,445	823	65
Alcoholic beverages and denatured alcohol	663	169	10
Gasoline, aviation turbine fuel and ethanol	4,261	5,337	94
Fuel oils	4,871	6,836	(1/)
Other coal and petroleum products, NEC	627	686	8
Pharmaceutical products	1,508	(1/)	7
Wood products	235	118	5
Textiles, leather, and articles of textiles or leather	829	23	7
Machinery	395	21	1
Electronic and other electrical equipment and components and office equipment	468	38	(1/)

1/ Withheld because estimate did not meet publication standards.

Source: U.S. Census Bureau, 2012 *Economic Census, 2012 Commodity Flow Survey*, various tables
<<http://www.census.gov/econ/cfs/>> accessed June 26, 2015.

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms and organic farms, agricultural employment and operation costs, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 6 (land use) and 22 (food processing).

Important sources for data on agriculture include the *United States Census of Agriculture*, most recently published for 2012; the annual report on *Statistics of Hawaii Agriculture* issued by the Hawaii Agricultural Statistics Service; the Bureau of Economic Analysis; data compiled by the former Hawaiian Sugar Planters' Association, now the Hawaii Agriculture Research Center; and the Aquaculture Development Program of the Hawaii State Department of Agriculture. Agricultural data for earlier years are summarized in *Historical Statistics of Hawaii*, Section 13. National statistics appear in Section 17 of the *Statistical Abstract of the United States: 2012*.

Table
Number **Table Name**

(Click on the table number to go to corresponding table)

Narrative

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Table 19.01-- FARMS BY SIZE, LAND IN FARMS, AND VALUE OF LAND, BUILDINGS, AND EQUIPMENT: 2007 AND 2012

Item	Unit	2007	2012
Farms	number	7,521	7,000
Land in farms	acres	1,121,329	1,129,317
Farms by size			
1 to 9 acres	number	4,813	4,412
10 to 49 acres	number	1,972	1,752
50 to 179 acres	number	423	480
180 to 499 acres	number	154	172
500 to 999 acres	number	44	57
1,000 to 1,999 acres	number	50	48
2,000 acres or more	number	65	79
Average size of farm	acres	149	161
Median size of farm	acres	5	5
Total cropland	farms	6,281	5,551
	acres	177,626	174,042
Harvested cropland	farms	6,044	5,293
	acres	103,120	99,031
Irrigated land	farms	2,810	2,498
	acres	58,635	81,813
Value of land and buildings			
Average per farm	dollars	1,146,213	1,461,342
Average per acre	dollars	7,688	9,058
Estimated market value of all machinery and equipment			
Total	\$1,000	304,997	307,994
Average per farm	dollars	40,666	43,999

Source: USDA National Agricultural Statistics Service, *2007 Census of Agriculture, Vol. 1, Chapter 2: State Level Data* (December 2009), "Table 1. State Summary Highlights: 2007", pp. 276-293, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii* (May 2014), "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8, *2012 Census of Agriculture, Vol. 1, Chapter 2: State Level Data*, "Table 1. State Summary Highlights: 2012", pp. 245-260 (May 2014).

**Table 19.02-- FARMS, MARKET VALUE AND VALUE OF SALES:
2007 AND 2012**

Item	Unit	2007	2012
Total farms in Hawaii	Number	7,521	7,000
Farms by value of sales			
Less than \$2,500	Number	2,932	2,130
\$2,500 to \$4,999	Number	1,012	902
\$5,000 to \$9,999	Number	996	1,058
\$10,000 to \$24,999	Number	1,143	1,397
\$25,000 to \$49,999	Number	557	684
\$50,000 to \$99,999	Number	353	323
\$100,000 to \$499,999	Number	380	358
\$500,000 or more	Number	148	148
Market value of agricultural products sold	\$1,000	513,626	661,347
Crops, including nursery and greenhouse crops	\$1,000	429,916	538,873
Livestock, poultry, and their products	\$1,000	83,711	122,474
Average market value of agricultural products sold per farm	Dollars	68,292	94,478

Source: USDA National Agricultural Statistics Service, *2012 Census of Agriculture, Vol. 1, Part 1, Hawaii*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8 (May 2014).

**Table 19.03-- FARMS BY SIZE, LAND IN FARMS, AND VALUE OF LAND,
BUILDINGS AND EQUIPMENT, BY COUNTY: 2012**

Item	Unit	State total	County of Hawaii	City and Co. of Honolulu	County of Kauai	County of Maui
Farms	number	7,000	4,282	999	591	1,128
Land in farms	acres	1,129,317	686,856	69,168	144,127	229,166
Farms by size						
1 to 9 acres	number	4,412	2,610	743	348	711
10 to 49 acres	number	1,752	1,141	162	156	293
50 to 179 acres	number	480	326	51	42	61
180 to 499 acres	number	172	106	22	20	24
500 to 999 acres	number	57	37	3	7	10
1,000 or more acres	number	127	62	18	18	29
Average size of farm	acres	161	160	69	244	203
Median size of farm	acres	5	6	3	7	5
Total cropland	farms	5,551	3,398	835	416	902
	acres	174,042	72,028	22,200	30,236	49,578
Harvested cropland	farms	5,293	3,229	821	391	852
	acres	99,031	57,807	(D)	6,800	(D)
Irrigated land	farms	2,498	1,026	603	266	603
	acres	81,813	6,966	10,776	22,523	41,548
Value of land & buildings						
Average per farm	dollars	1,461,342	1,280,898	1,396,597	1,853,486	1,998,208
Average per acre	dollars	9,058	7,985	20,171	7,600	9,836
Estim. market value of all machinery & equipment	\$1,000	307,994	157,140	56,851	33,961	60,042
Average per farm	dollars	43,999	36,698	56,908	57,464	53,228
Market value of agricultural products sold	\$1,000	661,347	247,245	161,488	64,514	188,100
Average per farm	dollars	94,478	57,741	161,650	109,160	166,755
Crops, including nursery & greenhouse crops	\$1,000	538,873	156,384	145,313	55,696	181,480
Livestock, poultry, & their products	\$1,000	122,474	90,860	16,176	8,817	6,620

D Withheld to avoid disclosing data for individual farms.

Source: USDA National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii* (May 2014), "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8, *2012 Census of Agriculture, Vol.1, Part 11, Hawaii*, "Table 1. County Summary Highlights: 2012", pp. 208-209, and *2012 Census of Agriculture, Vol. 1, Chapter 2: State Level Data* (May 2014), "Table 1. State Summary Highlights: 2012", pp. 245-260 (May 2014).

Table 19.04-- FARM PRODUCTION EXPENSES: 2007 AND 2012

[In thousands of dollars]

Item	2007	2012
Total farm production expenses	486,648	659,262
Selected farm production expenses		
Livestock and poultry purchased or leased	3,343	3,880
Feed purchased	24,678	43,811
Fertilizer, lime, and soil conditioners purchased	29,807	46,584
Gasoline, fuels, and oils purchased	24,443	33,157
Hired farm labor	178,496	269,907
Interest expense	14,838	13,208
Chemicals purchased	17,238	32,993

Source: USDA National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8 (May 2014).

Table 19.05-- FARM INCOME AND EXPENSES: 2013 TO 2016[In thousands of dollars. Data for 2014 and 2015 were revised from previous *Data Book*]

Item	2013	2014	2015	2016
Cash receipts from marketings	457,484	495,764	478,706	450,211
Livestock and products	99,286	138,458	138,695	113,112
Crops	358,198	357,306	340,011	337,099
Other income	127,171	126,610	113,957	78,255
Government payments	13,155	24,665	24,841	12,081
Imputed and misc. income received 1/	114,016	101,945	89,116	66,174
Production expenses	765,490	816,800	742,105	787,297
Feed purchased	36,135	36,891	33,876	34,175
Livestock purchased	3,915	5,344	5,513	3,852
Seed purchased	21,173	21,332	20,593	20,111
Fertilizer, lime, and ag. chemicals	75,609	77,559	71,029	64,408
Petroleum products purchased	34,693	35,415	26,341	22,850
Hired farm labor expenses 2/	286,074	297,784	276,555	301,188
All other production expenses 3/	307,891	342,475	308,198	340,713
Value of inventory change	-2,860	6,082	5,969	1,249
Livestock	-2,351	-72	8,014	2,107
Crops	-	-	-	-
Materials and supplies	-509	6,154	-2,045	-858

1/ Consists of the value of home consumption and other farm related income components, such as machine hire and custom work income and income from forest products.

2/ Consists of hired workers' cash pay and perquisites, employers' contributions for social security and Medicare, and payments for contract labor, machine hire, and custom work.

3/ Consists of repair and operation of machinery and depreciation, interest, rent and taxes.

Source: Bureau of Economic Analysis, "Local Area Personal Income and Employment, Farm Income and Expenses (CA45)" (November 16, 2017) <<https://www.bea.gov/itable/>> accessed May 7, 2018.

Table 19.06-- FARM ORGANIZATION AND PRINCIPAL OPERATOR CHARACTERISTICS: 2007 AND 2012

Item	2007	2012
Farm by type of organization		
Family or individual	6,363	5,685
Partnership	437	446
Corporation	617	637
Other- cooperative, estate or trust, institutional, etc.	104	232
Principal operator by primary occupation		
Farming	3,861	3,642
Other	3,660	3,358
Principal operator by days worked off farm		
None	1,903	2,223
Any	5,618	4,777
1 to 49 days	1,015	690
50 to 99 days	857	562
100 to 199 days	919	927
200 days or more	2,827	2,598
Principal operator's place of residence		
On farm operated	5,355	4,649
Not on farm operated	2,166	2,351
Principal operator by sex		
Male	5,715	5,426
Female	1,806	1,574
Average age of principal operator	58.6	60.4
Principal operator by race		
American Indian or Alaska Native	41	32
Asian	2,544	2,824
Black or African American	10	18
Native Hawaiian or Other Pacific Islander	625	689
White	3,627	2,749
More than one race	674	688

Source: USDA National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8 and "Table 62. Selected Principal Operator Characteristics by Race: 2012 and 2007", p. 48 (May 2014).

**Table 19.07-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT:
2000 TO 2017**

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators 4/	Unpaid family members 4/ 5/	Hired workers
2000	5,500	1,440	3,100	1,000	7,800
2001	5,500	1,350	3,300	1,100	7,400
2002	5,500	1,320	3,000	1,100	7,500
2003	5,500	1,300	(NA)	(NA)	7,300
2004	5,500	1,300	(NA)	(NA)	7,300
2005	5,500	1,300	(NA)	(NA)	7,000
2006	5,500	1,160	(NA)	(NA)	7,000
2007	7,500	1,120	(NA)	(NA)	6,500
2008	7,500	1,110	3,300	900	6,200
2009	7,500	1,110	3,500	1,000	6,200
2010	7,500	1,110	3,800	1,000	6,400
2011	7,500	1,110	(6/)	(6/)	7/ 7,100
2012	7,000	1,129	(6/)	(6/)	6,500
2013	7,000	1,129	(6/)	(6/)	6,500
2014	7,000	1,129	(6/)	(6/)	7,000
2015	7,000	1,120	(6/)	(6/)	6,500
2016	7,000	1,120	(6/)	(6/)	6,000
2017	7,000	1,120	(6/)	(6/)	8/ 6,000

NA Not available.

1/ Based on farm definition of \$1,000 or more of agricultural sales.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

3/ Working 15 or more hours per week.

4/ Total farm workforce, self-employed operators, and unpaid workers estimates were discontinued from July 2002 to April 2007 due to a change in the National labor statistics program.

5/ Unpaid farm workers include family members and others that worked 15 or more hours during the survey week.

6/ Beginning October 2011, data series discontinued.

7/ Annual averages are based on survey data for January, July, and October.

8/ Annual averages are based on survey data for January, April, July, October.

Source: USDA National Agricultural Statistics Service, *Hawaii Annual Statistics Bulletin* (annual) <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/index.asp> accessed June 17, 2013, and Hawaii Agricultural Statistics Service, records; U.S. Dept. of Agriculture, National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8 (May 2014); USDA National Agricultural Statistics Service, *Farm Labor* <http://usda.mannlib.cornell.edu/usda/current/FarmLabo/FarmLabo-12-05-2013_revision.pdf> accessed May 19, 2014 and records; and USDA National Agricultural Statistics Service, Quick Stats <<https://quickstats.nass.usda.gov>> accessed May 7, 2018.

Table 19.08-- FARM EMPLOYMENT: 1998 TO 2016

[The estimates of employment for 1998-2006 are based on the 2002 North American Industry Classification System (NAICS). The estimates for 2007-2010 are based on the 2007 NAICS. The estimates for 2011 forward are based on the 2012 NAICS]

Year	Total farm employment 1/	Farm proprietors employment 2/	Farm wage and salary employment 3/
1998	12,501	5,297	7,204
1999	12,292	5,274	7,018
2000	12,839	5,258	7,581
2001	12,289	5,236	7,053
2002	11,962	4,795	7,167
2003	11,917	4,719	7,198
2004	11,596	4,604	6,992
2005	11,395	4,605	6,790
2006	11,304	4,513	6,791
2007	12,485	6,154	6,331
2008	11,653	6,006	5,647
2009	11,281	5,903	5,378
2010	11,510	5,848	5,662
2011	12,304	5,776	6,528
2012	11,757	5,658	6,099
2013	11,869	5,693	6,176
2014	13,071	5,696	7,375
2015	4/ 12,446	4/ 5,712	6,734
2016	12,003	5,708	6,295

1/ 'Total farm employment' is the number of workers engaged in the direct production of agricultural commodities, either livestock or crops; whether as a sole proprietor, partner, or hired laborer.

2/ Consists of sole proprietors and non-corporate partners in the farm industry.

3/ 'Farm wage and salary employment' is the number of hired laborers engaged in the direct production of agricultural commodities, either livestock or crops.

4/ Revised from previous *Data Book*.

Source: Bureau of Economic Analysis, "Annual State Personal Income and Employment, Total Full-Time and Part-Time Employment by Industry" (SA25N) (September 26, 2017) <<https://www.bea.gov/itable/>> accessed May 7, 2018 and "Full-Time and Part-Time Wage and Salary Employment by Industry" (SA27N) (September 26, 2017) <<https://www.bea.gov/itable/>> accessed May 7, 2018.

Table 19.09-- FARM EMPLOYMENT, BY COUNTY: 2001 TO 2016

The estimates of employment for 2001-2006 are based on the 2002 North American Industry Classification System (NAICS). The estimates for 2007-2010 are based on the 2007 NAICS. The estimates for 2011 forward are based on the 2012 NAICS]

County and year	Total farm employment 1/	Farm proprietors employment 2/	Farm wage and salary employment 3/
State			
2001	12,289	5,236	7,053
2002	11,962	4,795	7,167
2003	11,917	4,719	7,198
2004	11,596	4,604	6,992
2005	11,395	4,605	6,790
2006	11,304	4,513	6,791
2007	12,485	6,154	6,331
2008	11,653	6,006	5,647
2009	11,281	5,903	5,378
2010	11,510	5,848	5,662
2011	12,304	5,776	6,528
2012	11,757	5,658	6,099
2013	11,869	5,693	6,176
2014	13,071	5,696	7,375
2015 4/	12,446	5,712	6,734
2016	12,003	5,708	6,295
Hawaii			
2001	5,330	3,171	2,159
2002	5,099	2,890	2,209
2003	5,099	2,873	2,226
2004	5,028	2,828	2,200
2005	5,093	2,847	2,246
2006	5,164	2,807	2,357
2007	6,362	3,850	2,512
2008	5,912	3,752	2,160
2009	5,663	3,680	1,983
2010	5,599	3,638	1,961
2011	5,776	3,584	2,192
2012	5,589	3,503	2,086
2013	5,576	3,520	2,056
2014	6,116	3,522	2,594
2015 4/	5,954	3,519	2,435
2016	5,852	3,518	2,334

Continued on next page.

**Table 19.09-- FARM EMPLOYMENT, BY COUNTY:
2001 TO 2016-- Con.**

County and year	Total farm employment 1/	Farm proprietors employment 2/	Farm wage and salary employment 3/
Honolulu			
2001	2,818	732	2,086
2002	2,813	656	2,157
2003	2,918	627	2,291
2004	2,684	594	2,090
2005	2,529	579	1,950
2006	2,384	554	1,830
2007	2,166	738	1,428
2008	2,068	735	1,333
2009	2,118	736	1,382
2010	2,352	744	1,608
2011	2,717	750	1,967
2012	2,586	750	1,836
2013	2,698	756	1,942
2014	2,998	757	2,241
2015 4/	2,851	763	2,088
2016	2,724	762	1,962
Maui 5/			
2001	2,816	792	2,024
2002	2,723	731	1,992
2003	2,597	719	1,878
2004	2,630	702	1,928
2005	2,526	704	1,822
2006	2,569	691	1,878
2007	2,872	942	1,930
2008	2,658	930	1,728
2009	2,461	925	1,536
2010	2,572	928	1,644
2011	2,790	929	1,861
2012	2,595	923	1,672
2013	2,597	931	1,666
2014	2,865	931	1,934
2015 4/	2,576	941	1,635
2016	2,409	939	1,470
Kauai			
2001	1,325	541	784
2002	1,327	518	809
2003	1,303	500	803
2004	1,254	480	774

Continued on next page.

**Table 19.09-- FARM EMPLOYMENT, BY COUNTY:
2001 TO 2016-- Con.**

County and year	Total farm employment 1/	Farm proprietors employment 2/	Farm wage and salary employment 3/
Kauai (con.)			
2005	1,247	475	772
2006	1,187	461	726
2007	1,085	624	461
2008	1,015	589	426
2009	1,039	562	477
2010	987	538	449
2011	1,021	513	508
2012	987	482	505
2013	998	486	512
2014	1,101	486	615
2015 4/	1,065	489	576
2016	1,018	489	529

1/ 'Total farm employment' is the number of workers engaged in the direct production of agricultural commodities, either livestock or crops; whether as a sole proprietor, partner, or hired laborer.

2/ Consists of sole proprietors and non-corporate partners in the farm industry.

3/ 'Farm wage and salary employment' is the number of hired laborers engaged in the direct production of agricultural commodities, either livestock or crops. It is calculated by subtracting 'Farm proprietors employment' from 'Total farm employment'. The calculated residuals might include corporate partners.

4/ Revised from previous *Data Book*.

5/ Maui County includes Kalawao County.

Source: Bureau of Economic Analysis, "Local Area Personal Income and Employment, Total Full-Time and Part-Time Employment by Industry" (CA25N) (November 16, 2017)
<<https://www.bea.gov/itable/>>accessed May 7, 2018 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 19.10-- VALUE OF CROP, LIVESTOCK, AND AQUACULTURE SALES:
1990 TO 2016**

[Thousands of dollars]

Year	All crops, livestock, and aquaculture	Crops				Livestock	Aquaculture
		All crops 1/ 2/	Sugar (unpro- cessed cane)	Pine- apples (fresh equiv.)	Other crops		
1990	604,271	506,586	213,800	106,365	186,421	88,444	9,241
1991	558,266	464,139	174,900	107,775	181,464	87,243	6,884
1992	527,361	431,958	153,700	102,100	176,158	88,269	7,134
1993	513,944	421,593	163,000	79,850	178,743	84,882	7,469
1994	512,816	427,150	160,100	78,890	188,160	76,630	9,036
1995	506,692	421,089	127,700	87,360	206,029	72,296	13,307
1996	511,343	428,671	108,100	95,914	224,657	67,017	15,655
1997	504,705	420,306	85,500	91,721	243,085	67,799	16,600
1998	509,962	420,634	87,300	92,776	240,558	72,708	16,620
1999	531,094	443,111	86,800	101,448	254,863	69,881	18,102
2000	521,941	431,482	62,200	101,530	267,752	68,289	22,170
2001	524,378	437,438	57,800	96,337	283,301	64,740	22,200
2002	539,518	453,400	64,300	100,616	288,484	60,938	25,180
2003	548,123	461,680	64,400	101,470	295,810	58,793	27,650
2004	552,057	459,702	61,500	83,104	315,098	64,255	28,100
2005	582,785	493,991	58,900	79,288	355,803	60,396	28,398
2006	579,590	499,684	50,200	73,652	375,832	58,649	21,257
2007	577,999	498,338	47,600	(D)	450,738	54,551	25,110
2008	605,570	522,139	44,200	(D)	477,939	48,781	34,650
2009	641,850	553,862	44,200	(D)	509,662	55,658	32,330
2010	674,590	583,680	69,800	(D)	513,880	60,940	29,970
2011	719,474	602,881	78,100	(D)	524,781	76,623	39,970
2012	646,318	527,554	73,322	(D)	454,222	63,024	55,740
2013	(NA)	521,182	77,740	(D)	443,442	61,856	(NA)
2014	631,063	474,707	54,349	(D)	420,358	78,115	78,241
2015	604,052	446,850	48,148	(D)	398,702	80,968	76,234
2016	578,595	445,717	54,375	(D)	391,342	57,168	75,710

D Data not shown separately to avoid disclosure of individual operations but combined and included in total crop value.

NA Not available.

1/ Sum of individual commodities may not add to total. Forage crops' and forest products' value combined and included in total crop value.

2/ Since 2007 pineapples included.

Source: USDA National Agricultural Statistics Service, *Hawaii Annual Statistics Bulletin* (annual) <https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/> accessed July 26, 2017, *Hawaii Aquaculture* (annual) <https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Miscellaneous/11022015HawaiiAquaculture.pdf> accessed June 30, 2017 and records.

**Table 19.11-- CROPS, BY ACREAGE, NUMBER OF FARMS, AND SALES:
2013 TO 2016**

Subject	2013	2014	2015	2016
Acreage in crop (1,000 acres)				
Sugarcane	35.6	35.4	35.5	35.0
Pineapples	(D)	(D)	(D)	(D)
Vegetables and melons (harvested acreage)	3.6	3.4	5.4	5.7
Fruits, excluding pineapples	3.7	4.0	2.8	2.4
Coffee	8.2	7.8	7.8	7.0
Macadamia nuts	16.0	16.0	16.0	16.0
All other crops	18.0	18.1	18.2	19.6
Number of crop farms				
Sugar	(D)	(D)	(D)	(D)
Pineapples	(D)	(D)	(D)	(D)
Vegetables and melons 1/	(D)	(D)	(D)	(D)
Fruits (excluding pineapples)	(D)	(D)	(D)	(D)
Coffee	(D)	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
Taro	(D)	(D)	(D)	(D)
Flowers and nursery products	(D)	(D)	(D)	(D)
Value of crop sales (\$1,000)				
Sugar (unprocessed cane)	77,740	54,349	48,148	54,375
Pineapples (fresh equivalent)	(D)	(D)	(D)	(D)
Vegetables, ginger root, herbs, and melons 2/ 3/	43,491	39,790	45,190	55,325
Fruits (excluding pineapples) 3/	22,380	24,972	22,271	19,906
Coffee 4/	52,080	54,270	62,622	48,856
Macadamia nuts (in shell)	35,670	40,020	46,000	42,000
Taro	1,934	1,944	2,381	2,312
Seed crops	184,235	158,800	140,830	148,400
Flowers and nursery products	72,292	67,162	67,399	74,543

D Data not shown separately to avoid disclosure of individual operations.

1/ Beginning 2007, ginger root, herbs, noni, kava (ʻawa) and others combined and included in the total (non-duplicated).

2/ Includes noni, kava (ʻawa), and others. Beginning 2007, non-published commodities not included to avoid disclosure of individual operations but combined and included in total crop value.

3/ Values include commodities from Tropical Specialties survey for 2016.

4/ Value is expressed in parchment basis for 2013-2014; 2015-2016 values are expressed in cherry basis.

Source: USDA National Agricultural Statistics Service, *Hawaii Annual Statistics Bulletin* (annual) <https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/> accessed July 26, 2017, *Hawaii Top 20 Commodities* (March 2017) <https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/2015/2015HawaiiTop20Commodities.pdf> accessed May 2, 2017, and records.

Table 19.12-- SEED CROPS, BY NUMBER OF FARMS, ACREAGE, OUTSHIPMENTS, AND VALUE: 2005/2006 TO 2017/2018

[Seed crops are grown year-round in Hawaii with the main season from November to June]

Crop year	Number of farms	Acreage	Outshipments of seed (1,000 lb.)	Value (\$1,000) 1/		
				Total	Seed corn	Other seed crops
2005/2006	10	4,140	7,550	77,330	74,800	2,530
2006/2007	10	4,260	10,470	103,040	98,050	4,990
2007/2008	10	5,300	8,380	140,710	135,580	5,130
2008/2009	10	5,990	11,275	176,990	169,275	7,715
2009/2010	11	6,500	12,000	236,410	224,490	11,920
2010/2011	10	6,205	10,230	239,370	229,935	9,435
2011/2012	10	6,910	10,750	241,615	230,450	11,165
2012/2013	10	5,900	8,245	184,235	178,615	5,620
2013/2014	10	4,840	7,970	158,800	155,000	3,800
2014/2015	10	4,260	8,590	140,830	137,680	3,150
2015/2016	10	3,980	5,740	144,530	140,000	4,530
2016/2017 2/	11	4,100	7,600	148,400	144,100	4,300
2017/2018 3/	10	3,210	12,700	120,800	114,500	6,300

1/ Value is based on sales or gross operational budgets.

2/ Revised to final data.

3/ Preliminary.

Source: USDA National Agricultural Statistics Service, *Hawaii Seed Crops* (annual)

<https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Sugarcane_and_Specialty_Crops/index.php> accessed July 19, 2017 and records.

Table 19.13-- SELECTED CROPS HARVESTED AND LAND IN ORCHARDS, BY NUMBER OF FARMS, ACRES AND WEIGHT: 2007 AND 2012

Item	Unit	2007	2012
Corn for grain	farms	14	15
	acres	3,115	5,198
	bushels	124,878	367,142
Pineapples	farms	42	42
	acres	(D)	(D)
	tons	(D)	(D)
Sugarcane for sugar	farms	9	18
	acres	(D)	(D)
	tons	(D)	(D)
Vegetables harvested	farms	901	960
	acres	6,845	8,880
Potatoes	farms	15	38
	acres	7	26
Sweet potatoes	farms	94	143
	acres	297	882
Land in orchards	farms	4,443	3,488
	acres	36,652	35,832

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *2012 Census of Agriculture, Vol.1, Part 1, Hawaii*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8 (May 2014).

Table 19.14-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 2016

Crop	Acreage harvested	Yield per acre (1,000 lb.) 1/	Production (1,000 lb.) 1/	Farm price (cents per lb.) 1/	Value of sales (\$1,000)
Specialty crops					
Coffee 2/ 3/	7,000	4.2	29,260	171.0	48,856
Macadamia nuts 3/ 4/ 5/	16,000	2.6	42,000	100.0	42,000
Seed crops	4,100	(X)	(X)	(X)	148,400
Fruits					
Bananas 5/	700	8.0	5,550	101.0	5,592
Papayas 5/	1,300	15.2	19,750	49.2	9,713
Avocados 1/ 3/ 4/	430	1.2	530	(NA)	1,031
Vegetables					
Cabbage, Chinese	200	17.2	3,435	57.6	1,980
Cabbage, head	590	14.7	8,660	52.5	4,550
Cucumbers	270	20.9	5,635	100.0	5,635
Kale	65	6.4	415	212.0	880
Lettuce, head	70	13.8	965	157.5	1,520
Lettuce, leaf	210	7.6	1,600	245.3	3,925
Lettuce, romaine	165	10.2	1,675	129.9	2,175
Onions, green	90	12.3	1,105	203.2	2,245
Snap beans	170	2.7	460	141.3	650
Watercress	(D)	(D)	(D)	(D)	(D)

X Not applicable.

NA Not available.

D Data not shown separately to avoid disclosure of individual operations.

1/ Reported in tons for avocados.

2/ Valuation of coffee is in cherry basis.

3/ Excluding organic.

4/ Bearing acreage.

5/ Utilized production only.

Source: USDA National Agricultural Statistics Service, Quick Stats <<https://quickstats.nass.usda.gov>> accessed May 21, 2018 and records.

Table 19.15-- TOP 20 AGRICULTURAL COMMODITIES: 2016

Commodity	Rank	Value of production (\$1,000)
Seed crops	1	145,300
Coffee	2	48,856
Sugarcane	3	48,148
Cattle	4	45,209
Macadamia nuts	5	42,000
Other aquaculture	6	41,361
Algae	7	34,349
Landscape plant material	8	23,064
Papayas	9	9,713
Milk	10	9,318
Lettuce	11	9,270
Cucumbers	12	6,490
Palms, potted	13	5,737
Bananas	14	5,592
Honey	15	4,176
Cabbage, head	16	3,805
Dendrobiums, potted	17	3,280
Plant rentals	18	3,193
Hogs	19	2,745
Anthurium	20	2,743

Source: USDA National Agricultural Statistics Service, *2016 Top 20 Commodities, State of Hawaii*, <https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/2016/2016HawaiiTop20Commodities.pdf> accessed May 7, 2017.

**Table 19.16-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1993 TO 2016**

Year	Total cane land	Irrigated cane land		Unirrigated cane land
		Drip	Furrow or overhead	
1993	121,322	74,557	11,595	35,170
1994	98,413	68,547	10,753	19,113
1995	81,957	62,462	8,416	11,079
1996	68,816	56,147	7,511	5,158
1997	67,820	55,585	7,115	5,120
1998	67,585	55,828	6,620	5,137
1999	60,758	51,234	4,602	4,922
2000	43,821	43,821	-	-
2001	50,410	50,410	-	-
2002	47,476	47,476	-	-
2003	47,733	47,733	-	-
2004	43,465	43,465	-	-
2005	40,145	40,145	-	-
2006	42,080	42,080	-	-
2007	41,762	41,762	-	-
2008	39,663	39,663	-	-
2009	39,812	39,812	-	-
2010	34,693	34,693	-	-
2011	35,532	35,532	-	-
2012	36,746	36,746	-	-
2013	35,556	35,556	-	-
2014	35,556	35,556	-	-
2015	35,556	35,556	-	-
2016 1/	17,500	17,500	-	-

1/ Hawaii Commercial & Sugar Company ended its sugar operation at the end of 2016.

Source: Hawaii Agriculture Research Center; Hawaiian Commercial & Sugar Company, records.

Table 19.17-- LIVESTOCK INVENTORY: 1987 TO 2017

[In thousands]

Year	All cattle and calves 1/	Milk cows 1/	Hogs and pigs 2/	Chickens (excluding broilers) 2/	Bee colonies
1987	203	12.0	47.0	1,212	9
1988	212	12.0	43.0	1,217	9
1989	205	11.0	39.0	1,216	9
1990	215	11.0	36.0	1,183	10
1991	200	10.0	34.0	1,213	10
1992	178	11.0	35.0	1,109	9
1993	165	11.0	33.0	1,012	9
1994	178	11.0	35.0	981	9
1995	174	10.0	34.0	933	8
1996	172	10.0	28.0	876	8
1997	180	9.0	29.0	863	9
1998	173	9.0	29.0	747	8
1999	164	9.0	28.0	721	8
2000	150	7.0	26.0	722	7
2001	152	7.0	27.0	659	8
2002	151	7.0	24.0	625	7
2003	156	6.0	23.0	600	7
2004	155	5.7	22.0	598	8
2005	161	4.6	19.0	547	9
2006	158	3.8	16.0	470	10
2007	152	2.3	15.0	398	10
2008	150	1.6	13.0	373	10
2009	151	1.8	13.0	379	10
2010	141	2.0	12.5	364	11
2011	140	1.9	11.5	(D)	9
2012	140	1.9	11.5	(D)	10
2013	135	2.2	11.5	(D)	13
2014	133	2.2	9.0	(D)	15
2015	133	2.2	9.0	(D)	14
2016	140	2.2	9.0	(D)	11
2017	142	2.4	(NA)	(D)	12

D Data not shown separately to avoid disclosure of individual operations but combined and included in the State total.

NA Not available.

1/ As of January 1 of the following year.

2/ As of December 1.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaii Agriculture* (annual)

<https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/>

accessed July 26, 2017 and records.

Table 19.18-- LIVESTOCK, BY TYPE AND VALUE OF SALES: 2013 TO 2017

Subject	2013	2014	2015	2016	2017
Number of livestock operations, Dec. 31					
Cattle 1/	(D)	(D)	(D)	(D)	(D)
Hogs	(D)	(D)	(D)	(D)	(D)
Milk	(D)	(D)	(D)	(D)	(D)
Eggs	(D)	(D)	(D)	(D)	(D)
Honey	(D)	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000)					
Cattle 2/	50,771	61,444	68,251	45,209	43,891
Hogs 2/	2,191	4,972	2,742	3/ 2,161	(NA)
Milk	10,079	10,514	10,080	3/ 9,214	11,125
Eggs	(D)	(D)	(D)	(D)	(D)
Honey	2,126	3,195	2,785	2,727	2,374

D Data not shown separately to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement operations.

2/ Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

3/ Revised from previous *Data Book*.

Source: USDA National Agricultural Statistics Service, *Hawaii Top 20 Commodities* (March 2017)

<https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Annual_Statistical_Bulletin/2015/2015HawaiiTop20Commodities.pdf> accessed May 8, 2017 and records.

**Table 19.19-- LIVESTOCK AND POULTRY, INVENTORY AND SALES, BY
NUMBER AND FARMS: 2007 AND 2012**

Item	Unit	2007	2012
Cattle and calves inventory	farms	1,142	1,314
	number	151,479	133,957
Beef cows	farms	853	1,173
	number	86,000	(D)
Milk cows	farms	15	12
	number	2,296	(D)
Cattle and calves sold	farms	713	711
	number	70,567	56,159
Hogs and pigs inventory	farms	225	231
	number	14,933	11,441
Hogs and pigs sold	farms	148	131
	number	20,569	12,529
Broilers and other meat-type chickens sold	farms	7	22
	number	(D)	2,639

D Withheld to avoid disclosing data for individual farms.

Source: USDA National Agricultural Statistics Service, *2012 Census of Agriculture, Vol. 1, Part 1, Hawaii*, "Table 1. Historical Highlights: 2012 and Earlier Census Years", pp. 7-8 (May 2014).

Table 19.20-- FLORICULTURE AND NURSERY PRODUCTS: 1998 TO 2016

Year	Number of farms	Growing area					Whole-sale value (\$1,000)
		Total (acres) 1/	Green-house (1,000 sq. ft.) 2/	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
1998	745	2,679	2,810	24,200	9	2,050	73,207
1999	765	2,712	2,910	25,695	15	2,040	75,725
2000	735	2,719	3,235	25,180	7	2,060	82,684
2001	790	3,049	3,175	26,660	9	2,355	88,597
2002	870	3,648	3,030	30,415	10	2,870	95,715
2003	865	3,890	2,540	27,465	16	3,185	95,601
2004	920	3,830	2,620	26,560	-	3,160	95,178
2005	955	3,988	2,095	27,015	-	3,320	100,962
2006	930	4,064	2,190	25,410	(NA)	3,430	98,725
2007	1,060	4,376	2,020	25,015	(NA)	3,755	108,710
2008	1,025	3,170	2,120	23,570	(NA)	2,580	94,662
2009	1,010	2,780	1,930	24,615	(NA)	2,170	76,814
2010	970	2,650	1,875	20,940	(NA)	2,120	71,100
2011	970	2,695	1,770	19,990	(NA)	2,195	69,600
2012	(NA)	2,987	1,748	19,987	(NA)	2,488	70,300
2013	(NA)	2,615	1,419	19,873	(NA)	2,126	72,292
2014 3/	(NA)	2,620	1,794	21,332	(NA)	2,089	67,935
2015	(NA)	2,281	1,770	19,505	(NA)	1,793	67,399
2016	(NA)	2,264	1,822	19,061	(NA)	1,785	74,543

NA Not available.

1/ Details may not sum to total due to rounding and categories not shown separately.

2/ Glass or glass substitute structure.

3/ Revised from previous *Data Book*.

Source: USDA, National Agricultural Statistics Service, Hawaii Field Office, *Hawaii Floriculture and Nursery Products* (annual) <http://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products/> accessed June 25, 2018 and records.

**Table 19.21-- SELECTED FLORICULTURE AND NURSERY PRODUCTS,
BY COMMODITY: 2016**

[Shown for commodities with value of sales over \$500,000 and excludes "Other" categories.
Includes only producers having total sales of \$10,000 or more. Preliminary data]

Commodity	Number of farms having sales 1/	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers				
Anthuriums	38	1,000 stems	2,942	2,743
Proteas	20	1,000 stems	634	1,075
Orchids				
Cut, Dendrobiums	25	1,000 stems	2,052	1,375
Potted, Dendrobiums	51	1,000 pots	576	3,280
Potted, Phalaenopsis	25	1,000 pots	237	2,097
Foliage				
Potted, dracaena	22	1,000 pots	(NA)	(D)
Potted, palms	20	1,000 pots	(NA)	5,737
Potted flowering plants				
Anthuriums	17	1,000 pots	96	683
Poinsettias	16	1,000 pots	214	1,109
Plant rentals	35	(X)	(NA)	2,813
Landscape plants 2/	167	(X)	(NA)	23,064

X Not applicable.

NA Not available.

D Data not shown separately to avoid disclosure of individual operations.

1/ Number of farms having sales during that year; "Total" is unduplicated count.

2/ Includes broadleaf and coniferous evergreens, deciduous and flower trees, palms, and citrus, fruit and nut trees, and sod. Does not include palms or potted foliage for indoor or patio use, bedding and garden plants, propagative floriculture material, and items which are included in published categories.

Source: USDA National Agricultural Statistics Service, *Hawaii Floriculture and Nursery Products* (October 5, 2017) <https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Flowers_and_Nursery_Products> accessed October 24, 2017.

Table 19.22-- AQUACULTURE OPERATIONS, BY NUMBER, PRODUCTION AND VALUE: 2011 TO 2016

Subject	2011	2012	2013 1/	2014	2015	2016
Farms	70	70	(NA)	(NA)	(NA)	(NA)
Peak number of workers	(NA)	(NA)	(NA)	(NA)	406	500
Production (1,000 lb.)						
Shellfish	55	(D)	(NA)	(D)	(D)	(D)
Finfish	315	(D)	(NA)	(D)	(D)	(D)
Value (\$1,000)	39,970	55,740	(NA)	78,241	76,234	75,710
Shellfish	413	(D)	(NA)	(D)	(D)	(D)
Finfish	1,493	(D)	(NA)	(D)	(D)	(D)
Algae	25,230	28,420	(NA)	33,086	33,808	34,349
Ornamental	2,514	(D)	(NA)	(D)	(D)	(D)
Other 2/	10,320	27,320	(NA)	45,155	42,426	41,361

NA Not available.

D Withheld to avoid disclosing data for individual farms but included in 'Other'.

1/ 2013 data were collected by the Census of Aquaculture. Numbers are not comparable.

2/ Includes seed stock, brood stock, and items not sold by weight which includes number count.

Source: USDA National Agricultural Statistics Service, *Hawaii Aquaculture* (annual)

<https://www.nass.usda.gov/Statistics_by_State/Hawaii/Publications/Miscellaneous/index.php>

October 31, 2017.

Table 19.23-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER: 2007 AND 2012

Chemicals used	Unit	2007	2012
Any fertilizer, manure, or chemicals used	farms	5,742	4,457
Manure used	farms	705	634
	acres on which used	3,859	5,165
Any fertilizer or chemical expense	farms	6,158	5,101
	\$1,000	47,046	79,577
Commercial fertilizer, lime and soil conditioners used	farms	4,785	3,450
	acres on which used	116,530	109,503
Commercial fertilizer, lime and soil conditioners expenses	farms	5,653	4,428
	\$1,000	29,807	46,584
Chemical expenses	farms	4,207	4,487
	\$1,000	17,238	32,993
Chemicals used to control			
Insects	farms	2,012	2,349
	acres on which used	33,474	30,417
Nematodes	farms	253	379
	acres on which used	6,889	4,089
Diseases in crops and orchards	farms	836	963
	acres on which used	9,716	9,143
Weeds, grass, or brush	farms	3,053	3,299
	acres on which used	98,108	114,713
Chemicals used on crops to control growth, thin fruit, ripen, or defoliate	farms	255	338
	acres on which used	15,677	19,000

Source: U.S. Department of Agriculture, *2012 Census of Agriculture, Hawaii*, p. 34 (May 2014).

**Table 19.24-- FARMS, LAND, AND VALUE OF SALES OF
CERTIFIED ORGANIC AGRICULTURAL PRODUCTS: 2016**

Subject	Farms	Acres	Amount (\$1,000)
Certified organic farms	113	(NA)	(X)
Certified organic acres operated	113	7,163	(X)
Cropland	108	6,597	(X)
Pastureland/rangeland	13	566	(X)
Land owned	87	6,390	(X)
Land rented from others	36	773	(X)
Land rented to others	-	-	(X)
Total value of certified organic agricultural products sold	113	(NA)	13,408
Crops, including nursery and greenhouse	108	(NA)	11,718
All vegetables	45	255	6,153
All citrus fruits	24	(D)	(D)
All berries and other fruits	55	411	3,895
All tree nuts	4	(D)	(D)
All field crops	12	420	994
Propagative materials	2	(D)	(D)
Crops under glass or other protection 1/			
Mushrooms	2	(D)	(D)
Tomatoes	5	18,000	39
Other vegetables and fresh herbs	7	22,000	89
Christmas trees harvested	2	(D)	(D)
Livestock and poultry	3	(NA)	(D)
Livestock and poultry products	3	(NA)	(D)

X Not applicable.

NA Not available.

D Withheld to avoid disclosing data for individual farms.

1/ Area reported in square feet rather than acres.

Source: USDA National Agricultural Statistics Service, *Certified Organic Survey 2016 Summary* (September 2017) <https://www.nass.usda.gov/Publications/Todays_Reports/reports/census17.pdf> accessed June 28, 2018.

**Table 19.25-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1998 TO 2017**

[In thousands of dollars. Data are on a cash basis accounting. "Producing" refers to the raising and production of agricultural products in their natural state, the production of natural resource products, fishing, and aquaculture]

Year 1/	Amount	Year 1/	Amount
1998	478,201	2008	448,975
1999	501,501	2009	351,578
2000	519,272	2010	339,035
2001	499,896	2011	399,078
2002	522,418	2012	401,496
2003	543,561	2013	392,735
2004	550,949	2014	336,675
2005	613,694	2015	337,702
2006	480,012	2016	283,553
2007	475,827	2017	346,653

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release) <http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed May 21, 2018.

Section 20

FORESTRY, FISHERIES, AND MINING

This section presents data on forests and forest reserves, commercial fishing and fish populations, and mining and mineral products.

Important sources of data on these subjects are the *United States Census of Mineral Industries* and *Mineral Industry Surveys*, U.S. Census Bureau, *2012 Economic Census, Geographic Area Series*, Mining, and reports and records of the Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources and Division of Forestry and Wildlife. *Historical Statistics of Hawaii*, Section 14, summarizes the data for earlier periods. Comparable national statistics are reported in the *Statistical Abstract of the United States: 2012*, Sections 18.

Table
Number Table Name

(Click on the table number to go to corresponding table)

Narrative

20.01	Forest and Natural Area Acreage, by Island: June 30, 2017
20.02	Woodland on Farms, 2002, 2007 and 2012, and by County, 2012
20.03	Forest and Brushland Fires, by Cause of Fire: 2014 to 2017
20.04	Commercial Fishing: 2003 to 2017
20.05	Commercial Fish Catch, by Species: 2015 to 2017
20.06	Commercial Sea Landings, by Island: 2015 to 2017
20.07	Commercial Sea Landings, by Fishing Method: 2015 to 2017
20.08	Mineral Industries (NAICS 21): 1987 to 2012
20.09	Nonfuel Mineral Production: 2012 to 2014
20.10	Crushed Stone Sold or Used: 2011 to 2013

**Table 20.01-- FOREST AND NATURAL AREA ACREAGE, BY ISLAND:
JUNE 30, 2017**

Island	Conservation district forest land		Natural areas	
	Forest reserve land 1/	Private forest land 2/	Number of areas	Acres
State total	657,841	328,742	21	123,810
Hawaii	453,242	106,745	8	94,954
Maui	67,769	53,180	5	18,543
Kahoolawe	-	-	-	-
Lanai	-	6,150	-	-
Molokai	11,690	-	2	2,950
Oahu	38,966	88,817	4	2,148
Kauai	86,174	73,850	2	5,215
Niihau	-	-	-	-

1/ State-owned and privately-owned lands under surrender agreement in forest reserve system.

2/ Private forest land within conservation district. The majority of these lands were previously in the forest reserve system.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife and records.

Table 20.02-- WOODLAND ON FARMS, 2002, 2007 AND 2012, AND BY COUNTY, 2012

[Acres]

Use	2002	2007	2012				
			State total	Hawaii	Honolulu	Kauai	Maui
Total	117,685	79,041	92,734	57,747	(D)	6,972	(D)
Pastured	41,467	22,570	23,766	10,823	(D)	374	(D)
Not pastured	76,218	56,471	68,968	46,924	(D)	6,598	(D)

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Department of Agriculture, *2007 Census of Agriculture, Hawaii*, (February 2009), p. 240.
2012 Census of Agriculture, Hawaii, (February 2014) p. 217.

**Table 20.03-- FOREST AND BRUSHLAND FIRES, BY CAUSE OF FIRE:
2014 TO 2017**

Cause of fire	Number of fires				Acres burned			
	2014	2015 1/	2016	2017 2/	2014	2015 1/	2016	2017 2/
State total	8	306	16	524	634	5,594	18,124	7,697
Lightning	1	-	1	2	2	-	1,787	2
Campfire	-	-	-	1	-	-	-	1
Smoking	-	-	-	-	-	-	-	-
Debris burning	-	1	1	2	-	20	75	2,950
Arson	-	-	2	1	-	-	5,801	11
Equipment	-	-	2	2	-	-	4,701	560
Railroads	-	-	-	-	-	-	-	-
Children	1	1	-	-	550	-	-	-
Miscellaneous	6	304	10	516	82	5,574	5,760	4,173

1/ In 2015, Honolulu Fire Department data was included with the State reporting data.

2/ In 2017, data from the counties was included with the State reporting data.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, Fire Management Program and records.

Table 20.04-- COMMERCIAL FISHING: 2003 TO 2017

[Fiscal year ending June 30. Represents the total sea catches of all licensed commercial fishers. Excludes pond catches, the Aquaculture and Development Program, Department of Agriculture, surveys pond harvest market information]

Year	Number of commercial fishermen	Commercial fish catch		
		Pounds landed	Pounds sold	Value to primary producers (dollars)
2003	3,434	24,054,939	(1/)	(1/)
2004	2,971	22,230,489	(1/)	(1/)
2005	3,248	24,876,316	(1/)	(1/)
2006	3,137	24,636,892	(1/)	(1/)
2007	3,220	26,563,127	(1/)	(1/)
2008	3,196	33,310,542	(1/)	(1/)
2009	3,557	28,065,282	(1/)	(1/)
2010	3,373	29,164,222	(1/)	(1/)
2011	3,691	33,032,579	(1/)	(1/)
2012	3,992	31,786,440	(1/)	(1/)
2013	3,970	33,761,150	(1/)	(1/)
2014	3,930	36,237,755	(1/)	(1/)
2015	3,800	36,828,996	(1/)	(1/)
2016	3,805	37,356,054	(1/)	(1/)
2017	3,714	36,152,719	(1/)	(1/)

1/ Due to revisions to the commercial fishing report forms in October 2002, licensed commercial fishers no longer report ex-vessel landing values. The latter information is collected from a fish dealer reporting system. The Division of Aquatic Resources is developing an application to integrate the fishing and fish dealer reporting systems to summarize landings with ex-vessel landing value information. Therefore, only total landings reported by commercial fishers are available at this time.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings for Fiscal Year* (annual) and records.

Table 20.05-- COMMERCIAL FISH CATCH, BY SPECIES: 2015 TO 2017

[Fiscal year ending June 30, pounds landed, excludes pond catches]

Species	2015	2016	2017
Total catch	36,828,996	37,356,054	36,152,719
Tunas	23,166,066	24,596,840	23,701,646
Aku (skipjack)	615,342	552,955	725,108
Tombo	699,106	656,335	311,781
Bigeye (ahi)	18,361,496	19,123,205	16,866,477
Yellowfin (ahi)	3,442,190	4,242,043	5,786,360
Billfishes	5,173,349	4,970,409	5,907,222
Blue marlin	1,436,469	1,349,369	1,662,184
Shortnose spearfish	540,003	727,588	731,200
Striped marlin	1,027,346	1,293,065	835,502
Swordfish	2,106,059	1,549,415	2,634,648
Miscellaneous pelagic species	6,805,423	6,163,522	5,171,189
Mahimahi	1,878,826	1,342,183	1,002,334
Monchong	1,369,821	1,190,483	918,855
Ono	1,244,753	1,185,412	905,596
Opah	1,803,555	1,951,558	1,978,256
Walu	484,327	476,807	360,052
Deep bottom fishes	471,580	431,234	412,615
Ehu	31,660	31,519	25,708
Hapuupuu	9,121	10,268	8,300
Opakapaka	153,969	137,862	135,116
Uku	112,705	110,817	118,544
Ulaula (onaga)	79,777	62,217	47,132
Akule/opelu	595,211	646,358	477,071
Akule	347,265	419,958	331,287
Opelu	207,691	218,034	118,622
Jacks	36,599	33,359	38,486
Inshore fishes	336,022	299,468	234,964
Sharks	113,408	107,501	137,253
Mako	100,619	98,667	122,444
Lobsters	9,224	5,914	3,885
Crabs	29,191	20,596	20,486
Shells	(NA)	(NA)	(NA)
Shrimps	27,305	27,041	(1/)
Seaweeds	5,500	3,528	5,244
Unclassified / miscellaneous	60,118	50,284	17,192

NA Not available.

1/ Withheld due to low level of fishermen reporting and to preserve confidentiality.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 2015-2017* and records.

Table 20.06-- COMMERCIAL SEA LANDINGS, BY ISLAND: 2015 TO 2017

[Fiscal year ending June 30, pounds landed]

Island	2015	2016	2017
State total	36,828,996	37,356,054	36,152,719
Hawaii	3,165,245	2,533,304	1,930,624
Maui	893,616	765,185	648,428
Lanai	7,095	8,614	8,719
Molokai	37,727	30,353	21,389
Oahu	31,983,066	33,246,769	32,956,903
Kauai and Niihau	742,247	771,829	586,656

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources and records.

**Table 20.07-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD:
2015 TO 2017**

[Fiscal year ending June 30, pounds landed]

Fishing method	2015	2016	2017
All methods	36,828,996	37,356,054	36,152,719
Aku pole and line	(1/)	(1/)	(1/)
Longline	30,041,517	31,642,861	31,398,569
Handline	2,109,885	2,022,837	1,685,893
Trolling	3,207,164	2,687,445	2,331,685
Net	537,716	606,129	480,575
Trap	87,822	65,047	42,006
All other methods	844,892	331,735	213,992

1/ Due to low level of fishermen reporting and to preserve confidentiality, data for these methods are pooled under all other methods.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 2015-2017* and records.

Table 20.08-- MINERAL INDUSTRIES (NAICS 21): 1987 TO 2012

[Includes establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

Subject	1987	1992	1997	2002	2007	2012
Number of establishments	9	7	7	8	8	7
With 20 employees or more	4	4	2	1	4	1
All employees						
Number (1,000) 1/	0.2	0.2	0.1	0.1	0.2	(2/)
Annual payroll (million dollars)	7.4	9.4	5.6	7.3	9.6	(D)
Production, development, and exploration workers						
Number (1,000) 1/	0.2	0.2	0.1	0.1	0.1	(D)
Annual hours (millions)	0.4	0.4	0.2	0.2	0.3	(D)
Annual wages (million dollars)	5.7	8.1	4.7	5.1	7.9	(D)
Value added (million dollars)	23.5	27.3	22.0	20.7	49.0	(D)
Total cost of supplies (million dollars)	10.4	11.3	(D)	6.6	12.9	(D)
Total value of shipments and receipts for services (million dollars)	31.1	33.7	33.3	25.6	55.4	(D)
Capital expenditures (million dollars)	2.8	4.8	(D)	1.7	6.4	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ For pay period including March 12.

2/ 100 to 249 employees.

Source: U.S. Census Bureau, *1987 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC87-A-9 (October 1990), Hawaii table 1; *1992 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC92-A-9 (May 1996), Hawaii table 1; *1997 Economic Census, Mining, Geographic Area Series, Hawaii*, EC97N21A-HI (May 2000), table 1; *2002 Economic Census, Mining, Geographic Area Series, Hawaii*, EC02-21A-HI (April 2005), table 1; 2007 Economic Census, Sector 21: EC0721A2: Mining: Geographic Area Series: Detailed Statistics for the State or Offshore Areas: 2007; 2012 Economic Census, Sector 21: EC1221A2: Mining: Geographic Area Series: Detailed Statistics for the State or Offshore Areas: 2012 <http://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?pid=ECN_2012_US_21A2&prodType=table> accessed April 6, 2016.

Table 20.09-- NONFUEL MINERAL PRODUCTION: 2012 TO 2014

[Production as measured by mine shipments, sales, or marketable production (including consumption by producers). Data are rounded to no more than three significant digits; may not add to totals shown]

Minerals	2012	2013 1/	2014
Quantity (1,000 metric tons)			
Gemstones	(NA)	(NA)	(NA)
Sand and gravel (construction)	786	658	492
Stone (crushed)	4,990	5,420	5,650
Value (\$1,000)			
Total	108,000	102,000	115,000
Gemstones	151	139	136
Sand and gravel (construction)	15,000	10,100	7,830
Stone (crushed)	93,100	92,300	107,000

NA Not available.

1/ Revised from previous *Data Book*.

Source: U.S. Geological Survey, Minerals Information, *2014 Minerals Yearbook, Hawaii [Advance Release]* (April 2018) <https://minerals.usgs.gov/minerals/pubs/commodity/statistical_summary/myb1-2014-stati.pdf> accessed May 22, 2018.

Table 20.10-- CRUSHED STONE SOLD OR USED: 2011 TO 2013

[Due to rounding, components may not add to totals shown]

Type	2011	2012	2013
Number of quarries	(X)	(X)	(X)
Limestone 1/	2	-	-
Traprock	16	16	15
Volcanic cinder and scoria	3	3	2
Miscellaneous stone	6	5	4
Quantity (1,000 metric tons)	4,490	4,990	5,180
Limestone 1/	23	-	-
Traprock	3,860	4,440	4,800
Volcanic cinder and scoria	365	212	28
Miscellaneous stone	240	338	350
Value (\$1,000)	86,000	93,100	89,600
Limestone 1/	442	-	-
Traprock	77,700	85,100	83,800
Volcanic cinder and scoria	2,990	1,410	522
Miscellaneous stone	4,880	6,600	5,310
Unit value (dollars) 2/	19.18	18.66	17.29
Limestone 1/	19.33	-	-
Traprock	20.14	19.17	17.44
Volcanic cinder and scoria	8.19	6.67	18.64
Miscellaneous stone	20.35	19.51	15.17

X Not applicable.

1/ Includes limestone-dolomite reported with no distinction between the two kinds of stone.

2/ Average.

Source: U.S. Geological Survey, Minerals Information, *2010-2011 Minerals Yearbook, Hawaii [Advance Release]* (April 2015) <<http://minerals.er.usgs.gov/minerals/pubs/state/hi.html>> accessed April 17, 2015 and *2012-2013 Minerals Yearbook, Hawaii [Advance Release]* (July 2016) <https://minerals.usgs.gov/minerals/pubs/state/2012_13/myb2-2012_13-hi.pdf> accessed April 27, 2017.

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing units and office buildings, home sales, and residential financing. Related series are included in Sections 6 (land use) and 14 (prices).

The principal sources for these data are the U.S. Census Bureau, various series compiled by state and county agencies (primarily the Hawaii State Department of Business, Economic Development & Tourism; Hawaii State Department of Commerce and Consumer Affairs; Hawaii State Department of Taxation; the Hawaii Housing Finance and Development Corporation; the Hawaii Public Housing Authority; the Hawaii Bureau of Conveyances; and the four county building departments) and local real estate companies. Persons interested in figures for earlier periods should consult *Historical Statistics of Hawaii*, Section 15. National statistics appear in Section 20 of the *Statistical Abstract of the United States: 2012*.

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**Table 21.01-- NUMBER AND VALUE OF BUILDING PERMITS, BY
COUNTY: 2006 TO 2017**

Year	State total 1/	City and County of Honolulu	Hawaii County	Kauai County 1/	Maui County
Number issued 2/					
2006	24,117	16,019	5,184	510	2,404
2007	21,248	13,954	4,580	518	2,196
2008	21,164	15,001	4,324	232	1,607
2009	18,154	13,794	2,990	240	1,130
2010	18,197	14,254	2,756	171	1,016
2011	21,523	17,712	2,603	132	1,076
2012	35,136	29,142	4,590	235	1,169
2013	32,246	26,568	4,320	158	1,200
2014	24,806	18,541	4,811	187	1,267
2015	27,051	20,146	5,426	199	1,280
2016	21,783	16,983	3,393	229	1,178
2017	19,286	14,759	2,943	236	1,348
Estimated value 2/ (\$1,000)					
2006	3,770,051	1,625,328	926,019	239,294	979,412
2007	3,585,447	1,676,232	912,529	268,915	727,772
2008	2,906,578	1,481,272	704,317	277,149	443,840
2009	1,998,908	1,247,196	309,165	218,111	224,437
2010	1,980,296	1,357,314	360,328	68,047	194,607
2011	1,858,763	1,272,923	282,638	59,520	243,683
2012	2,643,840	1,769,454	427,394	79,998	366,994
2013	2,720,519	1,866,352	443,739	85,413	325,014
2014	3,315,078	2,072,202	697,063	102,195	443,617
2015	3,963,607	2,436,954	689,454	105,707	731,491
2016	3,240,649	2,141,467	576,015	138,481	384,686
2017	3,127,828	2,007,815	497,218	145,266	477,528

1/ Prior to 2002, Kauai County data were obtained from the Kauai County Building Department. Beginning in 2002, Kauai County estimates are the sum of monthly U.S. Census Bureau residential data only and may differ from annual model-based Census Bureau data.

2/ Includes residential, hotel, non-residential and additions and alterations permits. Other types of permits such as for demolitions are not included.

Source: County building departments and U.S. Census Bureau, building permits data.

**Table 21.02-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTY:
2015 TO 2017**

[In thousands of dollars]

Category	State total 1/	City and County of Honolulu	Hawaii County	Kauai County 1/	Maui County
2015					
Total	3,963,607	2,436,954	689,454	105,707	731,491
Residential	1,651,336	951,917	416,116	105,707	177,596
Hotel	339,640	31,649	-	(NA)	307,990
Non-residential	363,281	190,830	50,045	(NA)	122,405
Additions and alterations	1,609,350	1,262,557	223,293	(NA)	123,500
2016					
Total	3,240,649	2,141,467	576,015	138,481	384,686
Residential	1,447,978	745,437	371,084	138,481	192,976
Hotel	6,000	6,000	-	(NA)	-
Non-residential	204,952	62,303	43,070	(NA)	99,579
Additions and alterations	1,581,719	1,327,727	161,861	(NA)	92,131
2017					
Total	3,127,828	2,007,815	497,218	145,266	477,528
Residential	1,504,674	869,555	279,915	145,266	209,937
Hotel	15,700	15,700	-	(NA)	-
Non-residential	380,150	211,720	48,693	(NA)	119,738
Additions and alterations	1,227,303	910,840	168,610	(NA)	147,853

NA Not available.

1/ Totals do not include hotel, non-residential and additions/alterations data for Kauai County. Only Kauai County residential data was available from the U.S. Census Bureau. Kauai County estimates are the sum of monthly U.S. Census Bureau residential data only and may differ from annual model-based Census Bureau data.

Source: County building departments and U.S. Census Bureau, building permits data.

**Table 21.03-- ACCEPTED VALUE PER HOUSING UNIT,
BY COUNTY: 2017**

[Not comparable to *Data Books* prior to 2006. In dollars. Excludes building permits for additions, alterations and repair. "Accepted value" is the cost of construction for which building permits are issued]

Type of structure	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
One-family	366,006	391,009	347,989	482,188	305,542
Two-family	321,859	346,510	298,168	382,311	231,893
Multi-family	308,760	337,737	462,400	447,191	152,974

Source: County building departments and U.S. Census Bureau, building permits data.

**Table 21.04-- GENERAL EXCISE TAX BASE FOR CONTRACTING,
BY TAXATION DISTRICT: 1997 TO 2017**

[Data are on a cash basis accounting. Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to income received in the 12-month period ending November 30. Taxation districts cover the same areas as counties]

Year	State total	Oahu	Maui	Hawaii	Kauai
1997	2,944,426,975	2,550,529,925	161,468,800	165,146,225	67,282,025
1998	3,015,976,700	2,570,586,400	193,365,375	180,875,700	71,149,225
1999	2,991,200,575	2,377,630,700	259,711,650	263,906,725	89,951,500
2000	3,613,485,025	2,800,712,550	326,777,275	367,672,100	118,323,100
2001	3,766,403,750	2,832,649,550	360,568,625	446,027,500	127,158,075
2002	4,274,955,575	3,266,988,350	364,438,350	501,577,600	141,951,275
2003	4,536,323,150	3,406,143,325	425,070,200	550,418,975	154,690,650
2004	4,921,512,300	3,754,257,925	452,890,850	533,308,625	181,054,900
2005	6,023,996,950	4,528,358,950	608,407,100	661,365,400	225,865,500
2006	7,223,333,825	5,405,648,475	728,682,550	789,189,250	299,813,550
2007	8,072,911,800	6,060,562,900	828,132,400	863,832,825	320,383,675
2008	7,987,126,150	6,108,692,775	750,457,450	785,465,450	342,510,475
2009	6,641,660,400	5,266,870,075	574,894,650	533,871,075	266,024,600
2010	5,589,766,225	4,435,203,750	500,098,600	439,744,725	214,719,150
2011	5,837,444,675	4,701,571,600	485,970,550	439,583,975	210,318,550
2012	7,006,133,075	5,727,310,125	584,092,725	474,661,300	220,068,925
2013	7,329,960,150	5,981,165,975	603,158,925	526,519,650	219,115,600
2014	7,024,043,900	5,611,443,525	662,255,275	546,117,525	204,227,575
2015	8,112,237,975	6,477,255,450	747,761,100	662,853,275	224,368,150
2016	8,288,207,150	6,571,972,725	801,753,300	665,740,700	248,740,425
2017	8,384,358,050	6,708,683,775	796,437,725	624,410,250	254,826,300

Source: Hawaii State Department of Taxation, General Excise and Use Tax Collections (annual calendar year summary) <http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed April 30, 2018.

**Table 21.05-- GENERAL CONSTRUCTION
STATISTICS (NAICS 23): 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS) which replaced the 2007 NAICS used in the 2007 Economic Census]

Measure	Amount
Number of establishments	2,378
Total number of employees	27,541
Construction workers	
Number in 1/	
March	18,389
June	19,524
September	19,785
December	20,000
Average	19,425
Other employees	
Number in 1/	
March	8,292
June	8,078
September	8,024
December	8,072
Average	8,116
Annual payroll (\$1,000)	1,564,321
Total fringe benefits (\$1,000)	511,941
Annual wages (\$1,000)	
Construction workers	1,036,189
Other employees	528,133
Annual hours (1,000)	
Construction workers	34,525
Total selected costs (\$1,000)	4,208,435
Materials, components, and supplies	2,234,407
Construction work subcontracted out to others	1,892,121
Selected power, fuels, and lubricants	81,907
Purchased electricity	13,787
Natural gas and manufactured gas	985
Gasoline and diesel fuel	65,013
On-highway use of gasoline and diesel fuel	46,812
Off-highway use of gasoline and diesel fuel	18,201
All other fuels and lubricants	2,122

Continued on next page.

**Table 21.05-- GENERAL CONSTRUCTION STATISTICS
(NAICS 23): 2012 -- Con.**

Measure	Amount
Value of business done (\$1,000)	7,938,958
Construction work 2/	7,814,295
Construction work on government owned projects	2,542,142
Federally owned projects	960,585
State & locally owned projects	1,581,557
Construction work on privately owned projects	5,272,153
Other business done	124,663
Value of construction work subcontracted in from others (\$1,000)	1,833,024
Net value of construction work (\$1,000)	5,922,174
Value added (\$1,000)	3,730,523
Total capital expenditures (\$1,000)	77,545
Total retirements of depreciable assets (\$1,000)	39,054
Gross value of depreciable assets (acquisition costs), end-of-year (\$1,000)	1,528,467
Total depreciation during year (\$1,000)	165,929
Total rental payments or lease payments (\$1,000) 3/	107,568
Buildings and other structures	67,012
Machinery and equipment rentals	40,556
Total other expenses (\$1,000)	553,148
Temporary staff and leased employee expenses	22,742
Expensed computer hardware and other equipment	7,585
Expensed purchases of software	1,755
Data processing and other purchased computer services	7,116
Communication services	18,717
Repair and maintenance services of buildings and/or machinery	27,042
Refuse removal (including hazardous waste) services	8,426
Advertising and promotional services	11,250
Purchased professional and technical services	45,728
Taxes and license fees	125,996
All other operating expenses	276,791

1/ Pay period including the 12th of the month.

2/ In the 1987, 1992, and 1997 censuses, the value of construction work was collected to measure actual construction activity done during the year. Studies have shown that respondents were not able to accurately report these data. In 2007 and 2012, receipts, billings, or sales for construction work was collected. This item includes receipts, billings, or sales for construction work done by building contractors, heavy and civil engineering construction contractors, and specialty trade contractors. Included are new construction, additions, alterations or reconstruction, and maintenance and repair construction work.

3/ Includes the total rental costs for renting and/or leasing construction machinery and equipment, transportation equipment, production equipment, office equipment, furniture and fixtures, scaffolding, office space, and buildings. It excludes costs for the rental of land. It also excludes costs under agreements that in effect are conditional sales contracts such as capital leases. Such costs are included in capital expenditures.

Source: U.S. Census Bureau, 2012 Economic Census, Construction: Geographic Area Series, Detailed Statistics for the State: 2012 <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml?ts=445347674499>> accessed April 27, 2015.

**Table 21.06-- CHARACTERISTICS OF THE CONSTRUCTION
INDUSTRY (NAICS 23): 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS) which replaced the 2007 NAICS used in the 2007 Economic Census. The Standard Industrial Classification (SIC) system was used in Economic Censuses prior to 1997]

NAICS code	Kind of business	Estab-lish-ments	No. of employees		Annual payroll - all employees (\$1,000)	Annual wages - con-struction workers (\$1,000)	Value of construct-ion work (\$1,000) 3/
			All 1/	Con-struction workers (avg) 2/			
23	Total	2,378	27,541	19,425	1,564,321	1,036,189	7,814,295
236	Construction of buildings	713	7,523	4,769	450,076	250,635	3,491,956
236115	New single-family housing construction (except for-sale builders)	213	1,259	909	57,684	37,965	362,072
236116	New multifamily housing construction (except for-sale builders)	2/ 17	210	120	13,483	5,610	98,138
236117	New housing for-sale builders	74	479	102	32,239	6,643	609,615
236118	Residential remodelers	208	891	626	34,825	23,426	131,527
236210	Industrial building construction	4	24	19	1,323	943	3,188
236220	Commercial and institutional building construction	197	4,661	2,994	310,522	176,049	2,287,415
237	Heavy and civil engineering construction	105	2,639	1,714	181,249	119,842	828,345
237110	Water and sewer line and related structures construction	29	708	448	49,844	36,325	198,597
237120	Oil and gas pipeline and related structures construction	3	59	(D)	(D)	(D)	7,487
237130	Power and communication line and related structures construction	18	341	300	22,275	19,081	115,813
237210	Land subdivision	2/ 12	98	(D)	(D)	(D)	53,025
237310	Highway, street, & bridge construction	36	1,143	743	87,955	52,784	389,040
237990	Other heavy and civil engineering construction	7	290	131	13,081	(D)	64,384
238	Specialty trade contractors	1,559	17,379	12,942	932,997	665,711	3,493,993
238110	Pour concrete foundation and structure contractors	48	620	511	28,839	21,873	113,955
238120	Structural steel and precast concrete contractors	20	409	277	24,905	16,586	89,000
238130	Framing contractors	31	666	551	37,268	33,526	118,980
238140	Masonry contractors	2/ 39	316	289	10,614	9,178	32,374
238150	Glass and glazing contractors	32	313	180	16,000	8,737	47,973
238160	Roofing contractors	91	991	813	35,761	25,480	155,849
238170	Siding contractors	15	109	84	4,683	3,475	13,498
238190	Other foundation, structure & building exterior contractors	16	61	39	2,916	1,692	10,980
238210	Electrical contractors and other wiring installation contractors	329	3,060	2,373	183,249	138,024	699,276
238220	Plumbing, heating and air-conditioning contractors	302	3,869	2,753	232,173	156,807	983,355
238290	Other building equipment contractors	25	620	312	49,092	27,397	148,859
238310	Drywall and insulation contractors	33	1,170	935	57,970	41,844	153,746
238320	Painting and wall covering contractors	137	1,445	994	64,225	46,848	180,454
238330	Flooring contractors	72	424	321	15,468	10,993	67,983

Continued on next page.

**Table 21.06-- CHARACTERISTICS OF THE CONSTRUCTION
INDUSTRY (NAICS 23): 2012 -- Con.**

NAICS code	Kind of business	Estab-lish-ments	No. of employees		Annual payroll - all employees (\$1,000)	Annual wages - construction workers (\$1,000)	Value of construction work (\$1,000) 3/
			All 1/	Con-struction workers (avg) 2/			
238	Specialty trade contractors (con.)						
238340	Tile and terrazzo contractors	43	301	252	14,792	11,534	42,402
238350	Finish carpentry contractors	154	739	470	32,892	22,165	196,546
238390	Other building finishing contractors	14	302	266	12,026	9,172	41,778
238910	Site preparation contractors	82	1,232	1,009	74,323	56,462	285,234
238990	All other specialty trade contractors	77	732	511	35,801	23,919	111,754

D Withheld to avoid disclosing data of individual companies.

1/ Includes all permanent full-time and part-time nonleased individuals on the payrolls of construction establishments during any part of the pay period which included the 12th of March, June, September, and December. Excluded are subcontractors and their employees, temporary staffing obtained from a staffing service, and proprietors and partners of unincorporated businesses.

2/ Includes all nonleased payroll workers (up through the working supervisory level) directly engaged in construction operations, such as painters, carpenters, plumbers, and electricians. Supervisory employees above the working foreman level are excluded from this category and are included in the other employees category. The average number of nonleased construction workers is the sum of establishment averages of nonleased construction workers who were on the payroll during the pay periods including the 12th of March, June, September and December.

3/ Receipts, billings, or sales for construction work was collected in 2007 and 2012. This item includes receipts, billings, or sales for construction work done by building contractors, heavy and civil engineering construction contractors, and specialty trade contractors. Included are new construction, additions, alterations or reconstruction, and maintenance and repair construction work.

Source: U.S. Census Bureau, 2012 Economic Census, Construction: Geographic Area Series, Detailed Statistics for the State: 2012 <<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed April 27, 2015.

**Table 21.07-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION
AUTHORIZED BY PERMITS, BY COUNTY: 2012 TO 2017**

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New single family units						
2012	(NA)	950	(NA)	456	(NA)	251
2013	(NA)	1,070	(NA)	735	(NA)	329
2014	(NA)	809	(NA)	(NA)	178	331
2015	2,215	892	1,323	784	201	338
2016	1,968	716	1,252	721	273	258
2017	(NA)	(NA)	1,577	710	384	483
New duplex units						
2012	(NA)	85	(NA)	4	(NA)	6
2013	(NA)	104	(NA)	2	(NA)	4
2014	(NA)	110	(NA)	(NA)	10	14
2015	162	124	38	28	-	10
2016	294	236	58	16	2	40
2017	(NA)	(NA)	47	8	34	5
New apartment units						
2012	(NA)	1,037	(NA)	59	(NA)	249
2013	(NA)	1,505	(NA)	-	(NA)	16
2014	(NA)	900	(NA)	(NA)	325	-
2015	2,732	2,707	25	-	-	25
2016	1/ 1,816	1,728	1/ 88	1/ 85	-	3
2017	(NA)	(NA)	541	(NA)	137	404
Units demolished						
2012	(NA)	293	(NA)	27	(NA)	26
2013	(NA)	277	(NA)	35	(NA)	30
2014	(NA)	364	(NA)	(NA)	9	44
2015	423	329	94	54	11	29
2016	410	385	25	22	3	-
2017	(NA)	(NA)	55	19	11	25

NA Not available.

1/ Hawaii County new apartment unit figure based on adjustment to annual database information.

Source: City and County of Honolulu, Department of Planning and Permitting, "Monthly Bulletin - Building Permits" (annual calendar year data) <<http://www.honolulu.gov/ReportsNotices/CalendarYearBulletins.aspx>> and records; County of Hawaii, Department of Public Works, Building Division "Yearly Building Permits – Hawaii County" (annual databases) <<http://records.co.hawaii.hi.us/Weblink8/1/doc/76382/Electronic.aspx>> and records; County of Kauai, Department of Public Works, Building Division, records; and County of Maui, Department of Public Works, Development Services Administration, records.

Table 21.08-- REVENUES OF TOP CONTRACTORS: 2015 TO 2017

[In millions of dollars. Contractors with the highest Hawaii revenues based on 2017 survey responses. List represents only those companies that responded to requests for information]

Rank	Contractor	2015 1/	2016 2/	2017
1	Hawaiian Dredging Construction Co. Inc.	662.0	695.0	589.0
2	Albert C. Kobayashi Inc.	367.0	414.0	355.4
3	Nan Inc.	197.5	302.5	302.9
4	Layton Construction Co. LLC	167.1	221.8	254.0
5	Hensel Phelps Construction Co.	190.1	340.0	214.0
6	Nordic PCL Construction Inc.	433.0	436.9	206.7
7	Dorvin D. Leis Co. Inc.	137.0	144.0	150.9
8	Watts Constructors LLC	87.0	92.6	129.6
9	Swinerton Builders	195.0	240.0	120.0
10	Unlimited Construction Services Inc.	(3/)	88.7	117.0
11	Royal Contracting Co. Ltd.	50.7	61.8	102.2
12	Wasa Electrical Services Inc.	65.0	92.9	100.8
13	Group Builders Inc.	50.1	92.8	82.1
14	Alakai Mechanical Corp.	(3/)	88.6	81.1
15	Isemoto Contracting Co. Ltd.	83.1	83.4	74.7
16	Ralph S. Inouye Co. Ltd	37.0	66.4	66.9
17	Shioi Construction Inc.	60.0	68.7	66.0
18	Arita Poulson General Contracting LLC	37.0	25.0	60.9
19	Allied Builders System	75.4	92.4	60.5
20	Coastal Construction Co. Inc.	81.9	61.9	57.5
21	F&H Construction	33.9	50.3	54.9
22	Healy Tibbitts Builders Inc.	(3/)	27.1	40.9
23	S&M Sakamoto Inc.	27.4	27.5	28.8
24	Paradigm Construction LLC	25.0	25.1	25.6
25	Honolulu Builders LLC	26.0	31.8	24.8

1/ Figures furnished in 2016 by the 2015 Top 25 listees.

2/ Figures furnished in 2017 by the 2016 Top 25 listees.

3/ Not ranked.

Source: *Building Industry*, "Hawaii's Top 25 Contractors" (July 2017) pp. 33 and 49 and "Hawaii's Top 25 Contractors 2018" (July 2018) pp. 33 and 53 <<http://www.tradepublishing.com/building-industry-hawaii/>> accessed July 13, 2018.

Table 21.09-- HONOLULU CONSTRUCTION COST INDEXES: 1990 TO 2017

[January 1992=100. Data are annual averages]

Year	Single-family residence			High-rise building		
	All components	Materials' prices	Labor 1/	All components	Materials' prices	Labor 1/
1990	95.1	96.2	93.9	95.4	98.0	92.9
1991	98.4	99.5	97.2	99.2	101.6	97.1
1992	102.7	103.8	101.4	99.5	97.1	101.5
1993	111.5	116.0	106.2	104.0	100.7	106.8
1994	121.2	129.4	111.7	109.9	107.0	112.5
1995	118.2	119.9	116.1	114.1	110.8	117.1
1996	125.6	129.1	121.3	116.9	110.9	122.1
1997	129.3	132.7	125.3	119.3	111.8	126.0
1998	129.2	131.4	126.5	119.4	111.4	127.4
1999	129.8	(NA)	(NA)	121.1	111.4	131.3
2000	135.2	(NA)	(NA)	126.6	(NA)	(NA)
2001	142.6	(NA)	(NA)	134.1	(NA)	(NA)
2002	149.9	(NA)	(NA)	139.5	(NA)	(NA)
2003	154.7	(NA)	(NA)	143.7	(NA)	(NA)
2004	163.1	(NA)	(NA)	151.6	(NA)	(NA)
2005	175.1	(NA)	(NA)	159.5	(NA)	(NA)
2006	192.4	(NA)	(NA)	174.2	(NA)	(NA)
2007	207.6	(NA)	(NA)	188.0	(NA)	(NA)
2008	219.2	(NA)	(NA)	199.1	(NA)	(NA)
2009	222.3	(NA)	(NA)	202.5	(NA)	(NA)
2010	221.6	(NA)	(NA)	201.9	(NA)	(NA)
2011	226.2	(NA)	(NA)	206.7	(NA)	(NA)
2012	232.2	(NA)	(NA)	213.1	(NA)	(NA)
2013	243.9	(NA)	(NA)	224.0	(NA)	(NA)
2014	260.3	(NA)	(NA)	239.3	(NA)	(NA)
2015	273.6	(NA)	(NA)	250.8	(NA)	(NA)
2016	278.6	(NA)	(NA)	254.4	(NA)	(NA)
2017	281.0	(NA)	(NA)	255.8	(NA)	(NA)

NA Not available.

1/ Wages and benefits.

Source: First Hawaiian Bank, Research Department, records; Hawaii State Department of Business, Economic Development & Tourism, Research and Economic Analysis Division, *Quarterly Statistical and Economic Report - 2nd Quarter* <<http://dbedt.hawaii.gov/economic/qser/>> accessed May 25, 2018 and records.

Table 21.10-- CONDOMINIUM ASSOCIATIONS REGISTERED WITH THE STATE OF HAWAII AND APARTMENTS REPRESENTED: 1990 TO 2017

[Fiscal year ending June 30. Biennial registration was started in June 1997]

Year	Condominium associations registered	Apartments represented	Year	Condominium associations registered	Apartments represented
1990	201	20,066	2004	1,469	135,708
1991	809	74,916	2005	1,501	138,334
1992	968	87,127	2006	1,546	142,171
1993	1,049	91,424	2007	1,565	145,124
1994	1,114	95,827	2008	1,601	151,238
1995	1,171	101,628	2009	1,629	153,856
1996	1,249	107,580	2010	1,634	154,625
1997	1,277	106,052	2011	1,670	156,511
1998 1/	1,339	112,832	2012	1,649	156,846
1999	1,361	114,449	2013	1,668	158,294
2000	1,389	116,750	2014	1,591	151,320
2001	1,419	118,209	2015	1,693	160,854
2002	1,439	133,276	2016	1,646	158,865
2003	1,456	134,444	2017	1,709	170,100

1/ The first biennial registration, for the July 1, 1997 through June 30, 1999 biennium, was due on June 30, 1997. As a result, registrations were received in both the 1997 and 1998 fiscal years. The numbers reported here show the number of associations and apartments that registered for the biennium and include registrations received during each fiscal year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Branch, *Annual Report Real Estate Commission* (annual) <<http://cca.hawaii.gov/reb/reports/>> accessed January 12, 2018 and other annuals.

**Table 21.11-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE
OF HAWAII: 1994 TO 2017**

[Fiscal year ending June 30. Registration is required only for projects that are being offered for sale, whether they are new or are already existing. In mixed use condominium projects, the predominant use is reported. This is done to prevent the multiple counting of a project filing]

Year	Projects	Individual units
1994	228	4,229
1995	255	4,654
1996	188	2,150
1997	201	2,765
1998	226	2,025
1999	211	2,363
2000	225	1,693
2001	210	2,918
2002	201	3,094
2003	301	4,705
2004	411	10,106
2005	469	15,695
2006	543	11,243
2007	459	11,157
2008	417	9,128
2009	347	6,504
2010	272	7,210
2011	250	5,347
2012	210	5,827
2013	234	8,464
2014	261	6,715
2015	253	10,652
2016	1/ 277	7,322
2017	232	7,971

1/ Revised from previous *Data Book*.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Branch, *Annual Report Real Estate Commission* (annual)
<<http://cca.hawaii.gov/reb/reports/>> accessed January 12, 2018.

Table 21.12-- NEW CONDOMINIUM PROJECTS, BY TYPE: 2013 TO 2017

[Fiscal years ending June 30. In mixed use condominium projects, the predominant use is reported. This is done to prevent the multiple counting of a project filing]

Type of project	2013	2014	2015	2016	2017
All types	128	153	160	1/ 163	139
Total residential 2/	102	121	125	1/ 139	116
Commercial and other	10	9	9	4	4
Agricultural	16	23	26	20	19
New residential projects by size 2/	102	115	125	1/ 139	116
2 units or fewer	18	25	34	58	30
3 to 15 units	37	47	34	39	39
16 to 50 units	14	8	10	13	15
More than 50 units	33	35	47	29	32

1/ Revised from previous *Data Book*.

2/ The "Total residential" figure was obtained from the "Condominium Project Filings" table in the source and may differ from the total figure shown in the "New Residential Projects - By Size" table of the source. The "Total residential" figures which is from the "Condominium Project Filings" table of the source reflects the total number of projects received which includes projects that were eventually withdrawn or returned. The table with new residential projects by size figures, however, reflect only the projects that had an issuance of the developer's public report.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Branch, *2016 Annual Report Real Estate Commission*
<<http://cca.hawaii.gov/reb/reports/>> accessed January 12, 2018.

**Table 21.13-- HOUSING UNITS CONVERTED TO CONDOMINIUM UNITS:
1994 TO 2017**

[Fiscal year ending June 30. Previous *Data Book* tables containing these data were titled "Housing Units Converted From Rental Units to Condominium Units" and "Condominium Units". Data contained in this table reflect the number of housing units converted to condominium units. This conversion is not exclusively from rental units to condominium units, but includes all types of units that were converted to condominium units during the current fiscal year]

Year	Projects	Individual units
1994	73	491
1995	89	1,060
1996	74	386
1997	66	981
1998	54	665
1999	73	368
2000	55	342
2001	44	454
2002	58	591
2003	92	740
2004	116	1,422
2005	135	2,347
2006	164	1,177
2007	157	903
2008	132	664
2009	112	1,592
2010	89	618
2011	79	575
2012	64	219
2013	75	553
2014	75	633
2015	71	596
2016	76	365
2017	62	332

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Branch, *Annual Report Real Estate Commission* (annual) <<http://cca.hawaii.gov/reb/reports/>> accessed January 12, 2018.

**Table 21.14-- TIMESHARE PROPERTIES AND UNITS,
BY ISLAND: 2016 AND 2017**

Subject	State total	Oahu	Hawaii	Kauai	Maui	Molokai
2016						
Properties 1/	76	17	17	19	22	1
Registered units 2/	10,673	3,262	1,848	2,396	3,160	7
Operated units 3/	10,716	3,193	1,728	2,628	3,160	7
2017						
Properties 1/	73	16	15	19	22	1
Registered units 2/	11,337	3,683	1,960	2,330	3,357	7
Operated units 3/	11,105	3,339	1,840	2,562	3,357	7

1/ Includes any property which contains one or more operated timeshare units. Data were obtained directly from the Hawaii Tourism Authority summary information on properties with operated units. For the data years prior to 2013, the *Data Book* tables included any property with registered timeshare units. Therefore, *Data Book* tables with data prior to 2013 are not comparable to those displaying data from 2013 and onward.

2/ The number of units registered included those that were available for sale in a timeshare program (as well as those already sold in such a program).

3/ There was a change in the reporting procedure from the 2009 data and onward. The number of units operated represented the units that were in use. Certain timeshares properties have the ability to split a given registered timeshare unit into more than one operated visitor unit (i.e. it may be possible for a two-bedroom unit to be rented as two keys: one studio unit and one 1-bedroom unit). Operated units were defined as number of salable keys that were operated for visitor use. In some cases, the number of operating units exceed the number of registered units for a given timeshare property. This change in reporting procedure resulted in a higher inventory count for certain timeshare properties, but did not necessarily reflect a change in the physical plant.

Source: Hawaii Tourism Authority, Tourism Research, *Visitor Plant Inventory* (annual)
<<http://www.hawaii tourism authority.org/research/reports/visitor-plant-inventory/>> accessed January 12, 2018.

Table 21.15-- HOME EXEMPTIONS CLAIMED: 2013 TO 2018

[Fiscal year ending June 30]

Tenure and county	2013	2014	2015	2016	2017	2018
Total Owner-occupied 1/						
State total	217,935	217,768	217,108	217,439	218,805	229,618
Honolulu	141,258	140,865	140,582	140,950	142,015	152,280
Maui	25,842	25,681	25,431	25,364	25,310	25,053
Hawaii	38,528	38,856	38,720	38,599	38,749	39,432
Kauai	12,307	12,366	12,375	12,526	12,731	12,853
Fee simple						
State total	212,396	212,433	212,010	212,486	214,002	224,939
Honolulu	136,866	136,641	136,524	137,025	138,232	148,607
Maui	25,081	24,953	24,755	24,724	24,673	24,432
Hawaii	38,350	38,692	38,576	38,466	38,632	39,331
Kauai	12,099	12,147	12,155	12,271	12,465	12,569
Leasehold						
State total	5,539	5,335	5,098	4,953	4,803	4,679
Honolulu	4,392	4,224	4,058	3,925	3,783	3,673
Maui	761	728	676	640	637	621
Hawaii	178	164	144	133	117	101
Kauai	208	219	220	255	266	284

1/ "Owner-occupied" is the sum of the "fee simple" and "leasehold" home exemptions categories.

Source: City and County of Honolulu, Budget and Fiscal Services Department, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii*, "Number and Amount of Exemption by Type and County" (annual)

<<https://www.realpropertyhonolulu.com/rpa-report/#2017>> accessed May 3, 2018 and records.

Table 21.16-- SELECTED HOUSING CHARACTERISTICS, BY COUNTY: 2010

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
All housing units	519,508	336,899	82,324	29,793	70,492
Occupied housing units	455,338	311,047	67,096	23,240	53,955
Owner-occupied housing units	262,682	174,387	44,271	13,968	30,056
Renter-occupied housing units	192,656	136,660	22,825	9,272	23,899
Average household size					
Owner-occupied housing units	3.02	3.11	2.69	2.96	3.02
Renter-occupied housing units	2.72	2.75	2.73	2.64	2.57
Vacant housing units	64,170	25,852	15,228	6,553	16,537
For rent	16,441	8,633	2,995	1,312	3,501
Rented, not occupied	954	625	101	61	167
For sale only	4,277	1,941	1,338	251	747
Sold, not occupied	1,151	645	289	51	166
For seasonal, recreational, or occasional use 2/	30,079	8,799	7,135	4,172	9,973
All other vacants	11,268	5,209	3,370	706	1,983
Homeowner vacancy rate (percent)	1.60	1.10	2.90	1.80	2.41
Rental vacancy rate (percent)	7.80	5.90	11.60	12.30	12.70
Owner-occupied	262,682	174,387	44,271	13,968	30,056
Family households	198,891	134,249	31,369	10,754	22,519
Husband-wife family	155,722	104,825	24,627	8,443	17,827
Other family	43,169	29,424	6,742	2,311	4,692
Nonfamily households	63,791	40,138	12,902	3,214	7,537
Renter-occupied	192,656	136,660	22,825	9,272	23,899
Family households	115,016	83,593	13,038	5,393	12,992
Husband-wife family	74,354	56,347	7,207	3,211	7,589
Other family	40,662	27,246	5,831	2,182	5,403
Nonfamily household	77,640	53,067	9,787	3,879	10,907

1/ Maui County includes Kalawao County. Kalawao County had 113 housing units, 1 owner-occupied housing unit and 68 renter-occupied housing units.

2/ Used or intended for use only in certain seasons or for weekends or other occasional use throughout the year. Seasonal units include those used for summer or winter sports or recreation, such as beach cottages and hunting cabins. Seasonal units also may include quarters for such workers as herders and loggers. Interval ownership units, sometimes called shared-ownership or time-sharing condominiums, also are included here.

Source: U.S. Census Bureau, 2010 Census "DP-1 - Hawaii Profile of General 2010 Demographic Profile Data" (May 19, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 19, 2011 and 2010 Census Summary File 1 (June 16, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed July 11, 2011.

**Table 21.17-- SUMMARY HOUSING CHARACTERISTICS,
BY COUNTY: 2012-2016**

[Based on a sample and subject to sampling variability. Figures displayed
are the average values over the 5-year period of 2012 to 2016]

Characteristic	State total	City and County of Honolulu	Hawaii County	Kalawao County	Kauai County	Maui County
All housing units	530,289	342,982	85,328	98	30,388	71,493
Occupied	452,030	309,548	66,094	55	22,430	53,903
Vacant	78,259	33,434	19,234	43	7,958	17,590
Units in structure						
1 unit, detached	284,886	155,387	67,467	80	21,394	40,558
1 unit, attached	45,318	37,512	2,091	2	1,196	4,517
2 units	12,498	6,641	1,844	4	1,419	2,590
3 or more units	186,501	143,018	13,621	12	6,306	23,544
Mobile home, boat, RV, van, etc	1,086	424	305	-	73	284
Tenure						
Owner-occupied	259,854	170,220	44,013	2	14,204	31,415
Renter-occupied	192,176	139,328	22,081	53	8,226	22,488
Average household size of unit						
Owner-occupied	3.15	3.24	2.84	(NA)	3.17	3.11
Renter-occupied	2.86	2.86	2.96	1.47	3.00	2.76
Percent						
Structure built 2010 or later	2.4	2.7	1.9	0.0	1.4	1.7
Structure built 2000 to 2009	14.0	11.0	22.8	1.0	14.6	17.6
Structure built 1990 to 1999	14.6	12.2	20.4	5.1	19.6	16.9
Structure built 1940 to 1989	65.6	70.8	51.0	57.1	61.1	60.3
Structure built before 1940	3.5	3.4	3.9	36.7	3.2	3.4
Lacking complete plumbing	0.7	0.4	1.6	0.0	0.6	0.9
Lacking complete kitchen facilities	1.7	1.5	2.4	0.0	1.2	2.0
With no telephone service	2.5	2.3	2.2	5.5	3.8	3.1
Median number of rooms	4.6	4.6	4.9	3.6	4.7	4.1
Percent householder moved into unit						
Moved into unit 2010 or later	37.6	39.2	33.1	40.0	30.8	37.1
Moved into unit 2000 to 2009	28.4	26.7	33.4	30.9	30.1	31.8
Moved into unit 1990 to 1999	13.6	13.0	15.6	20.0	17.2	13.4
Moved into unit before 1990	20.3	21.2	18.0	9.1	22.0	17.7
Percent of units with occupants per room of 1.51 or more	3.3	3.3	2.8	0.0	2.5	4.3

Continued on next page.

**Table 21.17-- SUMMARY HOUSING CHARACTERISTICS,
BY COUNTY: 2012-2016 -- Con.**

Characteristic	State total	City and County of Honolulu	Hawaii County	Kalawao County	Kauai County	Maui County
Median value (dollars) for owner-occupied units	538,400	602,700	306,000	(NA)	493,800	528,500
Selected monthly owner costs						
Housing units with a mortgage	173,799	117,738	26,360	-	8,621	21,080
Median (dollars)	2,267	2,424	1,599	(X)	2,156	2,279
Housing units without a mortgage	86,055	52,482	17,653	2	5,583	10,335
Median (dollars)	504	568	324	(NA)	482	452
Selected monthly owner costs as a percentage of household income (SMOCAPI) 1/						
Housing units with a mortgage (excluding units where SMOCAPI cannot be computed)	172,740	117,160	26,032	-	8,555	20,993
Monthly costs were 35 percent or more of household income	56,082	35,633	8,921	-	3,491	8,037
Housing units without a mortgage (excluding units where SMOCAPI cannot be computed)	84,641	51,833	17,173	2	5,489	10,144
Monthly costs were 35 percent or more of household income	8,266	5,166	1,749	-	521	830
Gross rent						
Occupied units paying rent	179,362	132,181	18,993	36	7,437	20,715
Median(dollars)	1,456	1,587	1,095	960	1,279	1,308
Gross rent as a percentage of household income (GRAPI)						
Occupied units paying rent (excluding units where GRAPI cannot be computed)	176,036	129,791	18,440	36	7,339	20,430
35.0 percent or more	81,822	62,458	8,628	10	2,613	8,113

NA Not available.

X Not applicable.

1/ Selected monthly owner costs as a percentage of household income (SMOCAPI) is the computed ratio of selected monthly owner costs to monthly household income. The ratio was computed separately for each unit and rounded to the nearest whole percentage. In prior years, the data are tabulated for all owner-occupied units. It is now restricted to only those units where SMOCAPI is computed, that is SMOC and household income are valid values. It provides information on the monthly housing cost expenses for owners.

Source: U.S. Census Bureau, 2012-2016 American Community Survey 5-Year Estimates, "DP04 Selected Housing Characteristics" <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed December 7, 2017.

Table 21.18-- TENURE BY AGE OF HOUSEHOLDER: 2000 AND 2010

Subject	April 1, 2000	April 1, 2010	Percent change
Total housing units	460,542	519,508	12.8
Households by age of householder, total	403,240	455,338	12.9
Owner-occupied housing units	227,888	262,682	15.3
15 to 24 years	1,667	1,892	13.5
25 to 34 years	17,239	16,752	-2.8
35 to 44 years	43,073	36,459	-15.4
45 to 54 years	56,886	57,404	0.9
55 to 64 years	41,370	66,267	60.2
65 years and over	67,653	83,908	24.0
65 to 74 years	35,461	42,574	20.1
75 to 84 years	25,824	28,781	11.5
85 years and over	6,368	12,553	97.1
Renter-occupied housing units	175,352	192,656	9.9
15 to 24 years	14,657	14,705	0.3
25 to 34 years	43,668	44,670	2.3
35 to 44 years	45,181	39,337	-12.9
45 to 54 years	32,856	36,589	11.4
55 to 64 years	16,564	28,383	71.4
65 years and over	22,426	28,972	29.2
65 to 74 years	11,835	14,743	24.6
75 to 84 years	8,133	9,620	18.3
85 years and over	2,458	4,609	87.5

Source: U.S. Census Bureau, Census 2000 Summary File 1 Hawaii (July 25, 2001) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 20, 2011 and 2010 Census Summary File 1 Hawaii (June 16, 2011) <<http://factfinder2.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 20, 2011.

**Table 21.19-- CHARACTERISTICS OF HOUSING UNITS AND HOUSEHOLDS,
FOR THE STATE, 2011 AND 2016, AND COUNTY, 2016**

Subject	State		County, 2016			
	2011	2016	Honolulu	Maui	Hawaii	Kauai
Total households	455,311	462,876	317,459	55,059	66,989	23,369
Tenure (%)						
Own	57	57	55	57	66	63
Rent	43	43	45	43	34	37
Unit size (bedrooms) (%)						
Studio or 1 bedroom	15	16	17	16	12	13
2 bedrooms	22	25	26	25	23	17
3 bedrooms	39	36	32	38	46	50
4+ bedrooms	24	23	25	20	18	19
Crowded (%) 1/	12.1	10.5	11.4	9.8	7.4	8.9
Doubled up (%) 2/	13.2	12.0	11.9	14.1	11.1	11.5
Median household income (dollars)	58,700	72,868	73,859	59,799	44,876	58,869
Average monthly mortgage payment (dollars)	1,355	1,987	2,140	2,045	1,357	1,824
Average monthly rent (dollars)	1,421	1,554	1,652	1,444	1,164	1,256
Monthly shelter payment as percent of monthly household income						
No shelter payment	15.7	21.4	21.3	15.0	27.0	20.8
Under 30 percent	35.4	36.8	37.1	35.2	37.2	36.8
30 to 40 percent	10.7	11.3	11.4	12.4	10.3	10.8
Over 40 percent	29.6	24.6	24.4	31.4	19.3	26.3
Not enough information	8.6	5.9	5.9	6.0	6.2	5.2
Household type (%)						
Single member	22.9	23.9	23.5	23.9	26.5	22.9
Married, no children	21.0	21.6	20.2	22.2	26.3	25.3
Parent(s) and children	13.9	13.8	13.8	13.9	13.5	15.3
Unrelated roommates	5.5	5.7	5.5	6.7	5.9	5.7
Other 3/	35.2	34.4	36.5	32.4	27.5	30.3
Undetermined	1.6	0.2	0.1	0.9	0.3	0.5

1/ Based on more than 2 persons per bedroom.

2/ Housing units that are occupied by two or more families or groups of persons who are not related by birth, marriage, or adoption.

3/ Other household types include a mixture of related and unrelated individuals.

Source: SMS Research & Marketing Services, Inc., *Hawai'i Housing Planning Study, 2016* (December 2016) <https://dbedt.hawaii.gov/hhfdc/files/2017/03/State_HHPS2016_Report_031317_final.pdf> accessed June 6, 2017.

Table 21.20-- HOUSING UNITS, BY COUNTY: 2007 TO 2017

Year	State total	Honolulu	Hawaii	Kauai	Maui 1/
2007: July 1 2/	507,743	333,338	78,331	28,667	67,407
2008: July 1 2/	514,132	335,640	80,371	29,159	68,962
2009: July 1 2/	517,829	336,525	81,806	29,508	69,990
2010: April 1	519,508	336,899	82,324	29,793	70,492
2010: April 1 estimates base 3/	519,508	336,900	82,321	29,794	70,493
2010: July 1 3/	520,083	337,112	82,477	29,914	70,580
2011: July 1 3/	523,208	338,801	83,516	30,069	70,822
2012: July 1 3/	525,672	340,339	84,159	30,175	70,999
2013: July 1 3/	528,387	341,881	84,750	30,289	71,467
2014: July 1 3/	531,961	344,314	85,430	30,433	71,784
2015: July 1 3/	534,733	345,705	86,335	30,608	72,085
2016: July 1 3/	539,816	349,308	87,165	30,796	72,547
2017: July 1 3/	542,904	350,786	88,096	30,947	73,075
Share of state total April 1, 2010 estimates base	100.0	64.8	15.8	5.7	13.6
July 1, 2017	100.0	64.6	16.2	5.7	13.5
April 1, 2010 estimates base to July 1, 2017 Percent change	4.5	4.1	7.0	3.9	3.7
Average annual	0.6	0.6	0.9	0.5	0.5

1/ Maui County including Kalawao County.

2/ Housing unit estimates for 2007 through 2009 were revised on October 9, 2012 based upon the April 1, 2010 Census figures.

3/ Housing unit estimates are based on revisions released in May 2018 and may differ from figures in previous *Data Books*. The estimates are based on the 2010 Census and reflect changes to the April 1, 2010 housing units due to the Count Question Resolution program and geographic program revisions.

Source: U.S. Census Bureau, "Table 2. Intercensal Estimates of Housing Units for Counties of Hawaii: April 1, 2000 to July 1, 2010" <<http://www.census.gov/popest/data/intercensal/housing/tables/HU-EST00INT-02/HU-EST00INT-02-15.xls>> accessed May 28, 2013; U.S. Census Bureau, Population Division "Annual Estimates of Housing Units for the United States, Regions, Divisions, States, and Counties: April 1, 2010 to July 1, 2017" (PEPANNHU) (May 24, 2018) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed May 24, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 21.21-- NUMBER OF HOUSING UNITS IN OAHU NEIGHBORHOODS:
2000 AND 2010**

Neighborhood area 1/ (see maps)	2000 2/	2010 3/	Percent change
Oahu total	315,988	340,906	7.9
1 Hawaii Kai	10,175	11,462	12.6
2 Kuliouou-Kalani Iki	5,677	5,765	1.6
3 Waialae-Kahala	3,982	4,261	7.0
4 Kaimuki	6,991	7,042	0.7
5 Diamond Head/Kapahulu/St. Louis Heights	8,252	8,285	0.4
6 Palolo	4,279	4,324	1.1
7 Manoa	7,616	7,667	0.7
8 McCully/Moilili	14,098	14,382	2.0
9 Waikiki	18,370	19,196	4.5
10 Makiki/Lower Punchbowl/Tantalus	16,141	16,708	3.5
11 Ala Moana/Kakaako	9,440	12,583	33.3
12 Nuuanu/Punchbowl	6,759	6,837	1.2
13 Downtown	7,341	8,208	11.8
14 Liliha/Kapalama	6,974	7,019	0.6
15 Kalihi-Palama	11,108	11,523	3.7
16 Kalihi Valley	4,169	4,186	0.4
17 Moanalua	3,462	3,468	0.2
18 Aliamanu/Salt Lake/Foster Village	12,927	13,208	2.2
19 Airport Area	6,477	6,492	0.2
20 Aiea	10,194	10,461	2.6
21 Pearl City	15,040	15,079	0.3
22 Waipahu	17,263	18,704	8.3
23 Ewa	13,044	18,868	44.6
24 Waianae Coast	12,141	13,333	9.8
25 Mililani/Waipio/Melemanu	12,001	12,569	4.7
26 Wahiawa	11,972	12,305	2.8
27 North Shore	6,648	6,677	0.4
28 Koolauloa	4,473	4,532	1.3
29 Kahaluu	4,587	4,620	0.7
30 Kaneohe	11,347	11,474	1.1
31 Kailua	15,752	15,768	0.1
32 Waimanalo	2,890	2,987	3.4
33 Mokapu	2,388	2,388	0.0
34 Makakilo/Kapolei/Honokai Hale	7,968	11,254	41.2
35 Mililani Mauka-Launani Valley	4,042	7,271	79.9

1/ Data in this table pertain to neighborhood areas whose boundaries are very close but do not match exactly to the Neighborhood Board boundaries. Neighborhood Board numbers are displayed next to the Neighborhood Board names.

2/ As of April 1, 2000. Year 2000 census data aggregated by traffic zone data. This may differ from data aggregated by census blocks which are shown in Table 21.22.

3/ As of June 30. Estimated housing units based on traffic zones.

Source: City and County of Honolulu Planning and Permitting Department, Planning Division, records.

**Table 21.22-- HOUSING CHARACTERISTICS OF OAHU
NEIGHBORHOODS: 2000**

Neighborhood area 1/ (see maps)	Total housing units 2/	Occupied		Home- ownership rate	Vacancy rate (%)	
		Owner	Renter		Home- owner	Rental
Oahu total	315,988	156,290	130,160	54.6	1.6	8.6
1 Hawaii Kai	10,175	7,669	1,997	79.3	1.0	3.7
2 Kuliouou-Kalani Iki	5,733	4,540	926	83.1	1.0	2.2
3 Waialae-Kahala	3,926	2,729	809	77.1	1.2	5.8
4 Kaimuki	6,632	4,193	2,169	65.9	0.8	4.7
5 Diamond Head/Kapahulu/ St. Louis Heights	8,809	4,162	3,696	53.0	3.2	8.4
6 Palolo	4,347	2,318	1,823	56.0	1.0	6.1
7 Manoa	7,420	4,224	2,827	59.9	0.8	6.3
8 McCully/Moiliili	14,098	3,596	9,074	28.4	1.5	9.2
9 Waikiki	18,370	3,819	7,578	33.5	3.0	30.3
10 Makiki/Lower Punchbowl/Tantalus	16,122	5,717	9,050	38.7	2.1	7.8
11 Ala Moana/Kakaako	9,440	2,475	5,322	31.7	8.4	8.1
12 Nuuanu/Punchbowl	6,830	3,756	2,655	58.6	0.6	7.1
13 Downtown	7,341	1,554	5,263	22.8	4.6	5.8
14 Liliha/Kapalama	6,852	3,669	2,826	56.5	1.0	6.1
15 Kalihi-Palama	11,108	2,945	7,313	28.7	1.1	7.2
16 Kalihi Valley	4,169	2,363	1,578	60.0	0.8	6.0
17 Moanalua	3,462	1,615	1,604	50.2	0.6	3.0
18 Aliamanu/Salt Lake/ Foster Village	12,927	5,687	6,045	48.5	1.3	10.1
19 Airport	5,627	87	4,914	1.7	7.4	0.6
20 Aiea	11,044	6,188	4,392	58.5	0.9	5.5
21 Pearl City	14,440	9,980	4,030	71.2	0.7	4.0
22 Waipahu	18,453	11,216	6,257	64.2	1.9	7.1
23 Ewa	12,895	8,020	3,690	68.5	2.7	6.0
24 Waianae Coast	12,357	6,094	4,442	57.8	2.9	16.7
25 Mililani/Waipio/Melemanu	11,261	7,889	2,972	72.6	1.0	5.7
26 Wahiawa	12,115	3,350	7,253	31.6	2.6	5.4
27 North Shore	6,648	2,595	3,298	44.0	1.1	5.7
28 Koolauloa	4,473	1,801	1,881	48.9	2.0	9.9
29 Kahaluu	4,587	3,072	1,312	70.1	0.7	4.7
30 Kaneohe	13,351	9,030	3,770	70.5	0.8	5.3
31 Kailua	14,063	9,597	3,887	71.2	0.7	4.0
32 Waimanalo	2,575	1,670	772	68.4	0.9	3.1
33 Mokapu	2,388	29	2,303	1.2	0.0	2.1

Continued on next page.

**Table 21.22-- HOUSING CHARACTERISTICS OF
OAHU NEIGHBORHOODS: 2000 -- Con.**

Neighborhood area 1/ (see maps)	Total housing units 2/	Occupied		Home- ownership rate	Vacancy rate (%)	
		Owner	Renter		Home- owner	Rental
34 Makakilo/Kapolei/ Honokai Hale	7,908	5,236	1,985	72.5	2.7	5.6
35 Mililani Mauka-Launani Valley	4,042	3,405	447	88.4	2.2	9.7

1/ Data in this table pertain to neighborhood areas whose boundaries are very close but do not match exactly to the Neighborhood Board boundaries. Neighborhood Board numbers are displayed next to the Neighborhood Board names.

2/ Year 2000 census data aggregated by census blocks. This may differ from data aggregated by traffic zones which are shown in Table 21.20.

Source: City and County of Honolulu Planning and Permitting Department, Planning Division, Community Profiles for Neighborhood Areas

<<http://honolulu.gov/planning/demographics2/2000/NA/general.pdf>> accessed July 3, 2007.

Table 21.23-- VACANCY AND HOMEOWNERSHIP RATES, FOR THE STATE AND URBAN HONOLULU MSA: 2001 TO 2017

Year	Rental vacancy rate 1/		Homeowner vacancy rate 1/		Gross vacancy rate 3/		Year-round vacancy rate 4/		Homeownership rate 1/	
	State	Urban Honolulu MSA 2/	State	Urban Honolulu MSA 2/	State	Urban Honolulu MSA 2/	State	Urban Honolulu MSA 2/	State	Urban Honolulu MSA 2/
2001	8.2	8.0	0.8	0.6	(NA)	(NA)	(NA)	(NA)	55.5	55.4
2002	7.3	5.5	0.9	1.0	(NA)	(NA)	(NA)	(NA)	57.9	57.0
2003	8.9	7.0	1.2	0.9	(NA)	(NA)	(NA)	(NA)	58.3	56.9
2004	7.7	5.8	1.3	1.1	(NA)	(NA)	(NA)	(NA)	60.6	59.4
2005	5.1	3.9	0.6	0.6	14.1	9.3	13.9	9.0	59.8	58.0
2006	5.5	3.9	1.0	0.8	15.5	10.4	13.8	9.0	59.9	58.4
2007	6.3	5.1	1.7	1.2	16.2	10.1	14.8	8.7	60.1	58.8
2008	7.2	5.1	1.7	1.0	16.1	9.9	14.6	8.6	59.1	57.2
2009	9.2	6.9	1.9	0.8	16.8	10.9	15.1	9.4	59.5	57.6
2010	8.1	7.2	1.9	1.0	17.8	11.5	16.4	10.0	56.1	54.9
2011	9.4	6.9	2.2	0.7	18.4	12.1	17.2	10.9	55.4	54.1
2012	10.2	6.3	2.3	1.3	16.8	10.2	15.8	8.8	57.2	56.1
2013	10.1	6.0	1.8	0.9	17.4	10.9	15.8	8.6	57.3	57.9
2014	8.3	5.6	1.6	1.1	18.0	12.3	16.2	10.2	58.4	58.2
2015	8.7	7.4	1.5	1.3	16.1	11.9	14.4	10.2	59.3	59.6
2016	10.6	9.4	1.4	1.1	17.1	13.7	15.8	12.5	57.7	57.9
2017	8.7	8.0	1.3	0.9	17.5	13.9	16.2	12.4	55.9	53.8
Margin of error 5/	1.5	1.6	0.5	0.5	1.3	1.3	1.2	1.3	2.3	2.8

NA Not available.

1/ In 2017, the rental vacancy rate for the entire U.S. was 7.2 and the rental vacancy rate for all U.S. inside metropolitan areas was 7.0; the homeowner vacancy rate for the entire U.S. was 1.6 and the homeowner vacancy rate for all U.S. inside metropolitan areas was 1.5; and the homeownership rate for the entire U.S. was 63.9 and the homeownership rate for all U.S. inside metropolitan areas was 62.3.

2/ The Honolulu Metropolitan Statistical Area (MSA) consists of the City and County of Honolulu. The metropolitan data for 2004 and earlier are based on 1990 metropolitan/nonmetropolitan definitions; the 2005 to 2014 data are based on 2000 metropolitan/nonmetropolitan definitions; and the 2015 and later data are based on 2010 metropolitan/nonmetropolitan definitions. In 2010, Honolulu MSA was renamed to Urban Honolulu MSA.

3/ Percentage of the total housing inventory that is vacant. The percentage numerator is all vacant units, while the percentage denominator is the sum of all occupied and vacant housing units. In 2017, the gross vacancy rate for the entire U.S. was 12.7 and for all U.S. inside metropolitan areas was 11.3.

4/ Percentage of the total housing inventory, excluding seasonal rentals, that is vacant. The percentage numerator is all year-round vacant units, while the percentage denominator is the sum of all year round vacant units and occupied units. In 2017, the year-round vacancy rate for the entire U.S. was 9.9 and for all U.S. inside metropolitan areas was 9.3.

5/ For 2017, the margin of error which is a measure of an estimate's reliability is displayed. When this figure is added or subtracted from the estimate, a 90 percent confidence interval is formed. For previous *Data Books*, the 90-percent confidence interval of standard error was displayed.

Source: U.S. Census Bureau, "Housing Vacancies and Homeownership Annual Statistics: 2017" <<http://www.census.gov/housing/hvs/>> accessed May 3, 2018.

Table 21.24-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE SPACE FOR THE METROPOLITAN HONOLULU OFFICE MARKET, BY SUBMARKET: 2006 TO 2017

Vacancy rate 1/	Downtown 2/	Suburban 3/
2006	7.3	7.9
2007	10.1	7.2
2008	9.6	8.1
2009	10.5	10.2
2010	15.1	12.3
2011	16.1	15.1
2012	15.1	14.8
2013	13.7	13.5
2014	14.5	15.4
2015	15.9	13.5
2016 4/	16.0	12.0
2017 4/	18.7	11.2

1/ The vacancy rates are for Class A and Class B buildings which were included in the survey. Class A buildings are those in excellent locations which have high-quality tenants, high-quality finish, are well-maintained, are professionally managed, and are usually new, or old buildings that are competitive with new buildings. Class B buildings are those in good locations that are professionally managed and have fairly high-quality construction and tenancy. Class B buildings generally show very little functional obsolescence and deterioration.

2/ Downtown is comprised of the Central Business District Submarket. Buildings surveyed in Downtown are generally 40,000 square feet and above.

3/ Suburban is comprised of eight submarkets: Kapiolani Corridor (Ala Moana, Kakaako, Kapiolani); Waikiki; East Oahu (Hawaii Kai to Kahala); East Central Oahu (Kaimuku to Kalihi); West Central Oahu (Mapunapuna to Pearl City); Leeward (Pearl City to Waipahu); West Oahu (Waipahu to Kapolei); and Windward (Kailua to Kaneohe). Buildings surveyed in the suburban market are generally 20,000 square feet and above.

4/ The size of the Metropolitan Honolulu Office Market survey varies from year to year. For 2016, it included 93 multi-class tenants, for 2017 it included 89 multi-class tenants.

Source: CBRE Research, records.

**Table 21.25--OFFICE, INDUSTRIAL AND RETAIL COMMERCIAL
REAL ESTATE STATISTICS FOR OAHU: 2012 TO 2017**

[As of December 31]

Subject	2012	2013	2014	2015	2016	2017
Office						
Vacancy rate (%) 1/	13.0	12.2	13.2	12.7	12.7	12.8
Annual net absorption (sq. ft.) 2/	103,842	95,943	-77,711	37,935	42,103	-37,898
Average asking base rent (\$) 3/	1.57	1.57	1.64	1.67	1.69	1.69
Average operating expense (\$) 4/	1.28	1.33	1.34	1.34	1.36	1.35
Industrial						
Vacancy rate (%) 1/	3.8	2.7	2.1	1.7	1.6	2.0
Annual net absorption (sq. ft.) 2/	391,915	375,959	262,706	173,186	64,582	-157,222
Average asking base rent (\$) 3/	0.96	0.98	1.10	1.13	1.21	1.30
Average operating expense (\$) 4/	0.35	0.37	0.42	0.35	0.35	0.37
Retail						
Vacancy rate (%) 1/	4.6	4.2	4.1	5.1	8.4	5.9
Annual net absorption (sq. ft.) 2/	356,381	72,045	12,972	461,436	502,178	453,754
Average asking base rent (\$) 3/	3.24	3.35	3.64	3.84	3.92	4.00
Average operating expense (\$) 4/	1.13	1.18	1.29	1.29	1.30	1.32

1/ Total available vacant office space divided by the inventory of multitenant office buildings.

2/ The net change in occupied space over the end of the previous time periods.

3/ Per square feet per month. The mean of the base asking rents for available office space.

4/ Per square feet per month. Building operating expenses that are passthrough to the tenant.

Source: Colliers International, "Office Market Summary Report" (annual), "Industrial Market Year-End" (annual) and "Retail Market Summary" (annual) <<https://www2.colliers.com/en/United-States/Cities/Hawaii>> accessed June 6, 2018 and records.

**Table 21.26-- STATE GOVERNMENT CAPITAL IMPROVEMENT
PROJECT EXPENDITURES: 1990 TO 2017**

[In thousands of dollars]

Year	Total expenditures	General obligation bond 1/	Revenue bond 2/	General fund (cash)	Special fund	Federal funds 3/
1990	995,163	248,379	368,502	133,529	79,998	164,755
1991	1,027,189	210,022	326,414	121,108	164,915	204,730
1992	1,323,450	331,720	512,432	138,867	124,605	215,826
1993	1,188,315	472,515	225,431	89,917	147,351	253,101
1994	1,214,487	492,048	327,980	56,662	135,440	202,357
1995	822,327	342,423	77,560	19,672	169,901	212,772
1996	720,580	286,472	66,625	6,719	165,426	195,338
1997	898,496	345,440	220,496	3,181	163,130	166,249
1998	818,181	329,218	199,294	1,963	192,397	95,309
1999	626,916	293,229	35,735	348	212,446	85,159
2000	612,559	295,988	34,114	305	179,336	102,817
2001	611,167	328,885	44,123	331	114,234	123,594
2002	654,804	387,088	45,962	133	123,084	98,538
2003	847,667	416,975	197,475	1	119,653	113,563
2004	400,707	236,176	-67,498	38	92,046	139,944
2005	765,953	337,222	98,672	-973	173,610	157,422
2006	652,664	349,222	48,946	1,873	157,239	95,384
2007	1,131,450	545,559	95,979	33,812	247,366	208,734
2008	980,061	387,376	165,319	53,366	137,322	236,677
2009	1,102,080	507,997	114,942	24,568	223,789	230,784
2010	1,052,636	496,579	106,669	5,948	213,535	229,905
2011	1,004,491	517,179	95,371	2,579	182,313	207,049
2012	1,300,621	557,695	264,699	645	267,253	210,329
2013	1,150,213	588,437	150,063	1,970	215,374	194,369
2014	1,277,887	573,308	247,380	555	195,183	261,460
2015	1,265,048	659,172	196,761	17	158,538	250,559
2016	1,159,995	641,758	142,448	4,214	180,103	191,473
2017	1,311,263	740,920	196,618	82,061	138,118	153,545

1/ Consists of general obligation bonds and reimbursable general obligation bonds.

2/ Consists of revenue bonds and special purpose revenue bonds.

3/ Includes special federal aid: interstate, primary, secondary; and federal funds.

Source: Hawaii State Department of Accounting and General Services, records; calculations by the Hawaii State Department of Business, Economic Development & Tourism as cited in DBEDT's *Quarterly Statistical and Economic Report - 2nd Quarter* <<http://dbedt.hawaii.gov/economic/qser>> accessed May 25, 2018.

**Table 21.27-- HAWAII PUBLIC HOUSING AUTHORITY
OPERATIONS: 2015 TO 2017**

[Fiscal year ending June 30 unless otherwise specified]

Subject	2015	2016	2017
Total units owned and administered by the Hawaii Public Housing Authority (HPHA) 1/	5,584	5,584	5,584
Total units occupied, May 31 2/	5,234	5,232	5,221
Total number of occupants, May 31 2/	13,618	13,655	13,731
Average rent charged per unit per month (dollars) 2/ 3/ 4/	294	299	300

1/ Federal low-rent, 4,720; State low-rent, 864.

2/ Data does not include 570 Kuhio Park Terrace units which receive federal subsidies.

3/ Some units pay zero rent; some get a utility allowance greater than the amount of rent that would otherwise be charged. Federal projects only; Federal subsidies received between July and June (fiscal year).

4/ Average rent as of January of the following year.

Source: Hawaii State Department of Human Services, Hawaii Public Housing Authority, records.

**Table 21.28-- CHARACTERISTICS OF THE REAL ESTATE
SUBSECTOR (NAICS 531): 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS) which replaced the 2007 NAICS used in the 2007 Economic Census]

NAICS code	Kind of business	Estab-lish-ments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employ-ees 1/
531	Total	1,553	2,441,969	335,866	7,314
5311	Lessors of real estate	643	1,618,443	125,484	2,669
53111	Residential buildings & dwellings	282	421,087	39,264	1,118
531110	Residential buildings & dwellings	282	421,087	39,264	1,118
5311101	Apartment buildings	186	110,515	15,169	533
5311109	Dwellings other than apartment bldgs	96	310,572	24,095	585
53112	Nonresidential buildings 2/	273	998,373	72,930	1,202
531120	Nonresidential buildings 2/	273	998,373	72,930	1,202
5311201	Professional & other office	92	332,337	27,678	362
5311202	Manufacturing & industrial	36	130,891	13,062	148
5311203	Shopping centers & retail stores	103	496,015	26,932	528
5311209	Other nonresidential bldgs & facilities	42	39,130	5,258	164
53113	Miniwarehouses & self-storage units	59	56,386	6,688	249
531130	Miniwarehouses & self-storage units	59	56,386	6,688	249
53119	Other real estate property	29	142,597	6,602	100
531190	Other real estate property	29	142,597	6,602	100
5311901	Manufactured (mobile) home sites	2	(D)	(D)	(3/)
5311909	Other real estate property	27	(D)	(D)	(4/)
5312	Offices of real estate agents and brokers	467	446,265	77,926	1,608
53121	Offices of real estate agents and brokers	467	446,265	77,926	1,608
531210	Offices of real estate agents and brokers	467	446,265	77,926	1,608
5312101	Residential real estate agents and brokers	401	388,556	56,776	1,287
5312109	Nonresidential real estate agents and brokers	66	57,709	21,150	321
5313	Activities related to real estate	443	377,261	132,456	3,037
53131	Real estate property managers	313	320,941	107,860	2,569
531311	Residential property managers	210	240,720	77,074	1,901
531312	Nonresidential property managers	103	80,221	30,786	668
53132	Offices of real estate appraisers	68	21,177	9,959	182
531320	Offices of real estate appraisers	68	21,177	9,959	182
53139	Other activities related to real estate	62	35,143	14,637	286
531390	Other activities related to real estate	62	35,143	14,637	286

D Withheld to avoid disclosing data for individual companies.

1/ Pay period including March 12.

2/ Except miniwarehouses.

3/ 0 to 19 employees.

4/ 20 to 99 employees.

Source: U.S. Census Bureau, 2012 Economic Census, *Real Estate and Rental and Leasing, Geographic Area Series, Hawaii* (January 2015) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed April 27, 2015.

**Table 21.29-- CHARACTERISTICS OF THE REAL ESTATE SUBSECTOR
(NAICS 531), BY COUNTY AND PLACE: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS) which replaced the 2007 NAICS used in the 2007 Economic Census]

Geographic area	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	Employees 1/
State total	1,553	2,441,969	335,866	7,314
Hawaii County	181	99,895	21,619	635
Ainaloa	1	(D)	(D)	(2/)
Captain Cook	2	(D)	(D)	(2/)
Hawaiian Paradise Park	1	(D)	(D)	(2/)
Hilo	61	33,797	4,814	196
Holualoa	8	(D)	(D)	(2/)
Kahaluu-Keauhou	4	2,361	192	5
Kailua	32	23,665	5,622	152
Kalaoa	7	(D)	(D)	(2/)
Waikoloa Village	6	(D)	(D)	(3/)
Waimea	14	(D)	(D)	(3/)
Balance of Hawaii County	45	(D)	(D)	(4/)
Honolulu County	1,027	2,059,927	261,211	5,167
Ahuimanu	1	(D)	(D)	(2/)
Aiea	12	4,281	1,042	32
East Honolulu	44	15,813	3,904	81
Ewa Gentry	3	(D)	(D)	(2/)
Halawa	8	(D)	(D)	(3/)
Haleiwa	5	(D)	(D)	(2/)
Hauula	1	(D)	(D)	(2/)
Heeia	1	(D)	(D)	(2/)
Iroquois Point	1	(D)	(D)	(2/)
Kahaluu	1	(D)	(D)	(2/)
Kahuku	4	747	365	13
Kailua	44	24,954	5,089	122
Kaneohe	21	7,359	2,119	62
Kaneohe Station	1	(D)	(D)	(2/)
Kapolei	13	(D)	(D)	(3/)
Laie	1	(D)	(D)	(3/)
Maili	1	(D)	(D)	(2/)
Makakilo	4	461	99	3
Mililani Mauka	2	(D)	(D)	(3/)

Continued on next page.

**Table 21.29-- CHARACTERISTICS OF THE REAL ESTATE SUBSECTOR
(NAICS 531), BY COUNTY AND PLACE: 2012 -- Con.**

Geographic area	Establishments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	Employees 1/
Honolulu County (con.)				
Mililani Town	5	(D)	(D)	(3/)
Nanakuli	2	(D)	(D)	(2/)
Ocean Pointe	6	9,381	1,259	23
Pearl City	18	7,104	1,320	42
Pupukea	4	(D)	(D)	(2/)
Royal Kunia	1	(D)	(D)	(2/)
Schofield Barracks	1	(D)	(D)	(5/)
Urban Honolulu	713	1,444,166	198,146	3,850
Wahiawa	9	5,174	835	31
Waialua	2	(D)	(D)	(2/)
Waianae	8	(D)	(D)	(3/)
Waikele	4	9,798	566	10
Waimalu	24	20,568	3,287	81
Waimanalo	2	(D)	(D)	(2/)
Waimanalo Beach	1	(D)	(D)	(2/)
Waipahu	24	15,248	2,244	77
Waipio	5	(D)	(D)	(2/)
West Loch Estate	1	(D)	(D)	(2/)
Whitmore Village	1	(D)	(D)	(2/)
Balance of Honolulu County	28	(D)	(D)	(4/)
Kauai County	113	71,695	18,519	507
Hanamaulu	2	(D)	(D)	(2/)
Hanapepe	1	(D)	(D)	(2/)
Kalaheo	3	(D)	(D)	(2/)
Kapaa	13	(D)	(D)	(3/)
Kekaha	1	(D)	(D)	(2/)
Kilauea	11	(D)	(D)	(2/)
Lihue	25	17,179	3,323	82
Puhi	4	(D)	(D)	(2/)
Wailua Homesteads	1	(D)	(D)	(2/)
Balance of Kauai County	52	44,346	12,196	357
Maui County 6/	232	210,452	34,517	1,005
Haiku-Pauwela	6	(D)	(D)	(2/)
Kaanapali	15	36,905	1,913	40
Kahului	26	20,386	6,014	128
Kaunakakai	6	2,419	518	19
Kihei	51	48,477	6,113	155

Continued on next page.

**Table 21.29-- CHARACTERISTICS OF THE REAL ESTATE SUBSECTOR
(NAICS 531), BY COUNTY AND PLACE: 2012 -- Con.**

Geographic area	Establish- ments (number)	Revenue (\$1,000)	Annual payroll (\$1,000)	Employees 1/
Maui County (con.) 6/				
Kula	6	2,052	470	12
Lahaina	26	27,221	4,427	181
Lanai City	1	(D)	(D)	(2/)
Makawao	7	913	299	10
Napili-Honokowai	11	(D)	(D)	(3/)
Paia	4	(D)	(D)	(2/)
Pukalani	3	296	52	1
Waihee-Waiehu	2	(D)	(D)	(2/)
Wailea	15	17,035	1,590	34
Wailuku	35	18,388	4,600	116
Balance of Maui County	18	(D)	(D)	(4/)

D Withheld to avoid disclosing data for individual companies.

1/ Paid employees, pay period including March 12.

2/ 0 to 19 employees.

3/ 20 to 99 employees.

4/ 100 to 249 employees.

5/ 250 to 499 employees.

6/ Kalawao County which is located on the island of Molokai did not have any businesses in 2012.

Source: U.S. Census Bureau, 2012 Economic Census, *Real Estate and Rental and Leasing, Geographic Area Series, Hawaii* (January 2015) <<http://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed April 27, 2015.

**Table 21.30-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE
OF LICENSE AND LOCATION: MAY 7, 2018**

[Real estate licenses are subject to renewal on or before December 31 of each even-numbered year]

Type of license	Active	Inactive	Location 1/	Active	Inactive
Total	14,441	4,965	Total	14,441	4,965
Broker	5,887	717	Oahu	8,901	2,615
Individual	3,417	628	Hawaii	1,938	492
Sole owner	862	4	Maui	2,277	666
Corporation or partnership	749	38	Kauai	941	321
Limited liability corporation/ limited liability partnership	859	47	Molokai	42	6
Salesman	8,554	4,248	Lanai	12	5
			U.S. mainland	321	828
			Foreign	8	17
			Other	1	15

1/ Based on address of licensee.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, "Geographic Report (Current Licenses)" as of May 7, 2018
<https://cca.hawaii.gov/pvl/files/2013/06/WebGeo_042117.pdf> accessed May 18, 2018.

Table 21.31-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1988 TO 2017

[For years 1988 to 2012, data include single family, condominium/cooperative, vacant, multi-family, commercial/industrial, and business opportunities. For 2013 and thereafter, data include only single family and condominium/cooperative listings]

Year	Number listed	Number sold	Percent sold	Mean sales price (dollars)
1988	14,548	9,886	68.0	201,000
1989	13,873	9,757	70.3	238,257
1990	17,097	9,243	54.1	319,500
1991	15,280	5,682	37.2	299,599
1992	13,421	5,509	41.0	292,342
1993	13,124	5,371	40.9	297,149
1994	12,655	5,759	45.5	297,428
1995	12,834	4,060	31.6	307,617
1996	12,147	3,896	32.1	300,494
1997	11,868	4,313	36.3	281,785
1998	11,721	5,351	45.7	269,839
1999	11,173	6,381	57.1	265,009
2000	11,797	7,404	62.8	278,814
2001	12,339	7,953	64.5	265,047
2002	13,967	9,695	69.4	286,594
2003	15,464	11,831	76.5	319,964
2004	17,817	13,110	73.6	388,954
2005	19,268	13,181	68.4	492,835
2006	18,905	10,823	57.2	545,137
2007	17,030	9,484	55.7	557,943
2008	16,060	6,936	43.2	563,993
2009	12,540	6,205	49.5	495,340
2010	13,165	7,187	54.6	537,945
2011	12,070	7,192	59.6	519,690
2012	10,746	7,760	72.2	547,816
2013	11,277	8,231	73.0	559,155
2014	12,134	8,379	69.1	588,544
2015	12,511	8,644	69.1	601,301
2016	11,762	9,127	77.6	624,449
2017	12,647	9,732	77.0	648,776

Source: Honolulu Board of Realtors, Multiple Listing Service records; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 21.32-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE
OF PROPERTY, FOR OAHU: 2015 TO 2017**

Year and type of property	Number listed	Number sold	Percent sold	Sales price (dollars)	
				Median	Mean
2015					
Total	12,511	8,644	69.1	490,000	601,301
Single family	4,996	3,500	70.1	700,000	874,535
Condominium/cooperative	7,515	5,144	68.4	360,000	415,391
2016					
Total	11,762	9,127	77.6	525,000	624,449
Single family	4,820	3,678	76.3	735,000	891,332
Condominium/cooperative	6,942	5,449	78.5	390,000	447,512
2017					
Total	12,647	9,732	77.0	545,000	648,776
Single family	5,054	3,908	77.3	755,000	916,506
Condominium/cooperative	7,593	5,824	76.7	405,000	469,381

Source: Honolulu Board of Realtors, Multiple Listing Service records.

**Table 21.33-- MULTIPLE LISTING SERVICE SINGLE FAMILY HOMES SOLD,
BY SELLING PRICE RANGE, FOR OAHU: 2015 TO 2017**

Selling price range	2015	2016	2017
All properties	3,500	3,678	3,908
On leased land	(NA)	(NA)	(NA)
Percent	(NA)	(NA)	(NA)
Less than \$100,000	3	-	-
\$100,000 to \$149,999	4	2	3
\$150,000 to \$199,999	7	7	6
\$200,000 to \$249,999	30	15	11
\$250,000 to \$299,999	30	25	21
\$300,000 to \$349,999	53	43	35
\$350,000 to \$399,999	84	67	58
\$400,000 to \$449,999	126	83	73
\$450,000 to \$499,999	166	132	113
\$500,000 to \$549,999	271	204	181
\$550,000 to \$599,999	316	334	288
\$600,000 to \$649,999	324	300	342
\$650,000 to \$699,999	330	369	404
\$700,000 to \$799,999	503	604	699
\$800,000 to \$899,999	349	437	471
\$900,000 to \$999,999	203	244	296
\$1.0 to \$1.9 million	564	667	745
\$2.0 to \$2.9 million	80	96	104
\$3.0 to \$3.9 million	30	25	34
\$4.0 to \$4.9 million	10	9	11
\$5.0 million or more	17	15	13
Median value (dollars)	700,000	735,000	755,000
Mean value (dollars)	874,535	891,332	916,506

NA Not available.

Source: Honolulu Board of Realtors, Multiple Listing Service records.

**Table 21.34-- MULTIPLE LISTING SERVICE CONDOMINIUM AND
COOPERATIVE UNITS SOLD, BY SELLING PRICE
RANGE, FOR OAHU: 2015 TO 2017**

Selling price range	2015	2016	2017		
			Total	Fee simple	Leasehold
All properties	5,144	5,449	5,824	5,379	445
Less than \$50,000	10	21	16	2	14
\$50,000 to \$74,999	44	52	33	9	24
\$75,000 to \$99,999	67	78	71	12	59
\$100,000 to \$124,999	106	90	71	30	41
\$125,000 to \$149,999	129	98	94	55	39
\$150,000 to \$174,999	163	154	114	76	38
\$175,000 to \$199,999	183	154	167	122	45
\$200,000 to \$224,999	143	172	208	167	41
\$225,000 to \$249,999	244	198	214	195	19
\$250,000 to \$274,999	294	247	218	190	28
\$275,000 to \$299,999	347	281	253	235	18
\$300,000 to \$349,999	704	683	665	632	33
\$350,000 to \$399,999	578	627	714	697	17
\$400,000 to \$449,999	506	551	589	568	21
\$450,000 to \$499,999	376	487	540	537	3
\$500,000 to \$599,999	513	619	770	767	3
\$600,000 to \$699,999	243	376	428	428	-
\$700,000 to \$799,999	178	170	180	179	1
\$800,000 to \$899,999	107	124	147	147	-
\$900,000 to \$999,999	71	67	93	93	-
\$1,000,000 or more	138	200	239	238	1
Median value (dollars)	360,000	390,000	405,000	420,000	180,000
Mean value (dollars)	415,391	447,512	469,381	490,464	197,675

Source: Honolulu Board of Realtors, Multiple Listing Service records.

Table 21.35-- MULTIPLE LISTING SERVICE, NUMBER OF SINGLE FAMILY AND CONDOMINIUM SALES, BY COUNTY: 2001 TO 2017

Category and year	State total	Oahu 1/	Hawaii	Kauai	Maui
Single family					
2001	6,556	3,413	1,660	454	1,029
2002	7,380	3,885	1,932	538	1,025
2003	8,891	4,477	2,310	676	1,428
2004	9,395	4,749	2,692	698	1,256
2005	9,401	4,616	2,757	671	1,357
2006	7,567	3,928	2,084	477	1,078
2007	6,787	3,557	1,683	408	1,139
2008	5,031	2,694	1,148	284	905
2009	4,870	2,643	1,247	263	717
2010	5,647	2,964	1,510	358	815
2011	5,748	2,868	1,620	361	899
2012	6,036	3,062	1,611	424	939
2013	6,665	3,346	1,886	447	986
2014	6,689	3,390	1,885	467	947
2015	7,181	3,584	2,018	488	1,091
2016	7,763	3,815	2,303	568	1,077
2017	8,210	4,063	2,494	552	1,101
Condominium					
2001	6,559	4,231	562	359	1,407
2002	8,284	5,407	706	472	1,699
2003	10,620	7,110	956	535	2,019
2004	11,711	8,156	1,081	521	1,953
2005	11,938	8,041	1,166	673	2,058
2006	8,875	6,197	750	698	1,230
2007	7,426	5,428	519	295	1,184
2008	5,190	3,862	371	169	788
2009	4,827	3,497	328	161	841
2010	5,736	3,831	521	235	1,149
2011	5,978	3,927	605	289	1,157
2012	6,447	4,284	592	318	1,253
2013	7,203	4,868	645	351	1,339
2014	7,084	4,907	646	327	1,204
2015	7,373	5,147	662	365	1,199
2016	7,978	5,569	725	373	1,311
2017	8,735	5,976	854	451	1,454

1/ May differ from Honolulu Board of Realtors data used in other *Data Book* tables.
Source: Locations Research, records.

Table 21.36-- MULTIPLE LISTING SERVICE, MEDIAN SALES PRICE OF SINGLE FAMILY AND CONDOMINIUM SALES, BY COUNTY: 2001 TO 2017

[In dollars]

Category and year	State total	Oahu 1/	Hawaii	Kauai	Maui
Single family					
2001	268,950	300,000	187,750	287,000	297,500
2002	310,000	335,000	193,500	327,750	375,000
2003	360,000	385,000	235,000	366,375	440,000
2004	440,000	465,000	290,000	498,925	560,000
2005	560,000	590,000	385,000	639,000	678,000
2006	599,133	630,000	421,250	675,000	690,000
2007	595,000	645,000	395,000	650,000	630,137
2008	560,000	625,000	345,000	615,000	575,000
2009	497,750	580,000	278,800	470,000	498,106
2010	487,000	599,950	260,000	497,500	460,000
2011	470,000	579,500	246,450	455,000	432,000
2012	500,000	625,000	260,000	458,750	470,000
2013	545,000	650,000	295,000	529,000	530,000
2014	575,000	673,500	315,000	533,000	570,000
2015	600,000	700,000	328,750	613,500	580,000
2016	632,500	735,000	330,000	625,500	639,000
2017	660,000	760,000	350,000	660,000	695,000
Condominium					
2001	145,000	132,000	139,500	162,500	197,000
2002	165,000	153,000	165,500	210,000	207,000
2003	185,000	175,000	185,000	287,000	241,000
2004	230,000	208,125	275,000	375,000	310,000
2005	299,000	269,000	369,500	435,000	385,000
2006	339,000	310,000	426,498	405,000	510,000
2007	350,000	325,000	394,900	565,000	550,000
2008	347,750	325,000	370,000	545,000	549,500
2009	319,000	305,000	276,550	330,000	450,000
2010	310,000	305,000	260,000	270,000	377,500
2011	290,000	300,000	212,500	237,000	310,000
2012	317,500	315,000	257,750	290,000	358,000
2013	333,000	332,000	250,000	310,000	374,000
2014	351,000	350,000	280,000	346,000	415,000
2015	363,000	360,000	275,000	360,000	410,000
2016	390,000	390,000	300,000	399,000	415,000
2017	409,000	410,000	312,000	435,000	445,000

1/ May differ from Honolulu Board of Realtors data used in other *Data Book* tables.

Source: Locations Research, records.

Table 21.37-- HOME SALES, BY TYPE OF HOME: 2008 TO 2016

Year	Number of homes			Average price of homes (dollars) 1/		
	Total	Single family	Condo-minium	Total	Single family	Condo-minium
2008	18,813	8,842	9,971	517,829	603,676	441,703
2009	16,188	8,384	7,804	466,218	530,231	397,448
2010	21,167	11,073	10,094	486,107	535,993	431,383
2011	17,092	7,626	9,466	470,407	570,928	389,425
2012	16,220	7,544	8,676	493,111	604,739	396,047
2013	17,834	8,068	9,766	541,872	682,282	425,876
2014	17,713	8,075	9,638	594,440	725,920	484,281
2015	19,355	8,227	11,128	592,447	755,414	471,964
2016	19,834	8,239	11,595	655,775	771,985	573,200

1/ Calculated by dividing the total sales amount by the total number of sales.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances and Title Guaranty; compilation and calculations by the Hawaii State Department of Business, Economic Development & Tourism as cited in DBEDT's *Quarterly Statistical and Economic Report - 2nd Quarter* <<http://dbedt.hawaii.gov/economic/qser>> accessed June 15, 2017.

Table 21.38-- HOME SALES, BY ORIGIN OF BUYER: 2008 TO 2016

Year	Number of homes			Average price of homes (dollars) 1/		
	Local buyers	Mainland buyers	Foreign buyers	Local buyers	Mainland buyers	Foreign buyers
2008	13,616	4,427	770	467,082	653,776	633,598
2009	11,426	4,163	599	422,650	528,042	867,617
2010	14,069	6,207	891	445,632	532,752	800,285
2011	11,889	4,349	854	433,611	507,601	793,250
2012	12,017	3,406	797	454,075	581,827	702,552
2013	13,378	3,775	681	494,544	663,508	797,359
2014	13,455	3,655	603	533,470	757,000	969,551
2015	15,077	3,698	580	546,146	751,210	783,774
2016	15,311	3,702	821	589,614	795,652	1,258,892

1/ Calculated by dividing the total sales amount by the total number of sales.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances and Title Guaranty; compilation and calculations by the Hawaii State Department of Business, Economic Development & Tourism as cited in DBEDT's *Quarterly Statistical and Economic Report - 2nd Quarter* <<http://dbedt.hawaii.gov/economic/qser>> accessed June 15, 2017.

**Table 21.39-- HOME SALES, BY ORIGIN OF BUYER,
BY COUNTY: 2016**

Subject	All buyers	Local buyers	Mainland buyers	Foreign buyers
Total number of home sales				
Statewide	19,834	15,311	3,702	821
Honolulu County	13,502	11,578	1,221	703
Hawaii County	2,968	1,812	1,119	37
Kauai County	788	493	285	10
Maui County	2,576	1,428	1,077	71
Percentage of total sales				
Statewide	100.0	77.2	18.7	4.1
Honolulu County	100.0	85.8	9.0	5.2
Hawaii County	100.0	61.1	37.7	1.2
Kauai County	100.0	62.6	36.2	1.3
Maui County	100.0	55.4	41.8	2.8
Average home sale price (dollars) 1/				
Statewide	655,775	589,614	795,652	1,258,892
Honolulu County	676,253	634,736	720,084	1,283,884
Hawaii County	528,106	365,097	772,918	1,107,271
Kauai County	654,954	505,950	890,118	1,298,643
Maui County	695,789	537,552	879,948	1,084,852

1/ Calculated by dividing the total sales amount by the total number of sales.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances and Title Guaranty; compilation and calculations by the Hawaii State Department of Business, Economic Development & Tourism as cited in DBEDT's *Quarterly Statistical and Economic Report - 2nd Quarter* <<http://dbedt.hawaii.gov/economic/qser>> accessed June 15, 2017.

**Table 21.40-- FORECLOSURE FILINGS, BY JUDICIAL CIRCUIT:
1993 TO 2017**

Year	State total	First Circuit 1/	Second Circuit 2/	Third Circuit 3/	Fifth Circuit 4/
1993	1,436	950	204	216	66
1994	1,578	1,022	240	222	94
1995	1,957	1,204	317	293	143
1996	2,800	1,828	464	352	156
1997	3,148	2,205	421	362	160
1998	3,626	2,662	422	359	183
1999	2,934	2,135	324	339	136
2000	2,153	1,591	228	251	83
2001	1,913	1,390	197	246	80
2002	948	624	110	151	63
2003	621	396	78	112	35
2004	437	283	51	80	23
2005	308	198	47	51	12
2006	453	266	59	105	23
2007	718	395	101	188	34
2008	1,363	666	254	359	84
2009	1,800	786	386	488	140
2010	1,300	611	280	316	93
2011	2,657	1,171	571	750	165
2012	3,188	1,505	678	860	145
2013	3,422	1,504	728	961	229
2014	2,084	1,026	397	543	118
2015	1,826	861	357	525	83
2016	1,734	838	302	506	88
2017	1,461	689	228	471	73

1/ City and County of Honolulu.

2/ Maui County includes Kalawao on Molokai.

3/ Hawaii County.

4/ Kauai County.

Source: The Judiciary, Office of the Administrative Director of the Courts, records.

Table 21.41-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: 2017

[As of December 31]

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	7,120	5,416	200	356	827	2	25	294
Elevators	5,977	4,487	158	339	722	-	24	247
Hydro (Under 9 stories)	2,158	1,334	98	197	367	-	9	153
Roped:	3,819	3,153	60	142	355	-	15	94
Under 9 stories	1,867	1,326	51	142	253	-	15	80
9 to 18 stories	1,124	999	9	-	102	-	-	14
19 to 28 stories	398	398	-	-	-	-	-	-
29 to 38 stories	280	280	-	-	-	-	-	-
39 stories or more	150	150	-	-	-	-	-	-
Escalators & moving walks/ speed ramps	471	440	5	-	24	-	-	2
Inclined lifts	11	10	-	1	-	-	-	-
Private industrial elevators	61	34	-	1	14	-	-	12
Manlifts	16	9	-	3	1	-	-	3
Handicap/chairlifts	408	304	27	8	43	2	1	23
Dumbwaiters	176	132	10	4	23	-	-	7

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 21.42-- TALLEST STRUCTURES, BY ISLAND: MARCH 2018

Island	Structure	Location	Year completed	Height	
				Stories	Feet
BUILDINGS 1/					
Hawaii	Bayshore Towers	Hilo	1970	15	135
Maui	The Whaler	Kaanapali	1975	12	170
Lanai	Manele Hotel	Hulopoe Bay	1991	3	48
Molokai	Molokai Light Station	Kalaupapa	1909	(NA)	138
Oahu 2/ Oahu 2/	First Hawaiian Center Pacifica Honolulu	999 Bishop Street 1009 Kapiolani Blvd.	1996 2012	27 48	430 400
Kauai	Marriott Resort & Beach Club	Lihue	1959	10	107
OTHER STRUCTURES					
Hawaii	AT&T Tower Ninole	Ninole (Homestead Road)	(NA)	(X)	210
Maui	(NA)	(NA)	(NA)	(NA)	(NA)
Lanai	Storage tanks	Manele Harbor	(NA)	(X)	50
Molokai	Aeronautical tower	West end of Molokai	(NA)	(X)	178
Oahu	VLF Antenna	Lualualei	1972	(X)	1,503
Kauai	Communication Engineers Tower	Mana	1964	(X)	400

NA Not available.

X Not applicable.

1/ Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

2/ Not shown are several 400 feet tall buildings with fewer than 48 stories.

Source: County building departments.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning. Additional information on manufacturing workers appears in Sections 12 and 15.

Sources for data on this subject include the *U.S. 2012 Economic Census*, the *U.S. Annual Survey of Manufactures*, publications by the Hawaii State Department of Agriculture and the Hawaii State Department of Taxation, and the *Hawaiian Sugar Manual* of the former Hawaiian Sugar Planters' Association, now the Hawaii Agriculture Research Center. *Historical Statistics of Hawaii*, Section 16, contains the figures for earlier years. Statistics for the nation as a whole appear in Section 21 of the *Statistical Abstract of the United States: 2012*.

Table
Number Table Name

(Click on the table number to go to corresponding table)

Narrative

22.01	Statistical Summary of Manufactures (NAICS 31-33): 2010 to 2016
22.02	Detailed Manufacturing Statistics (NAICS 31-33): 2007 and 2012
22.03	Statistical Summary of Manufacturing (NAICS 31-33), by County: 2012
22.04	Manufacturing, by Selected Industry Group (NAICS 31-33): 2016
22.05	Manufacturing, Employment and Wages (NAICS 31-33), by Selected NAICS Code: 2016
22.06	Manufacturing, Employment and Wages (NAICS 31-33), by Selected NAICS Code: 2017
22.07	General Excise Tax Base for Manufacturing: 1987 to 2017
22.08	25 Largest Industrial and High-Technology Parks, by Island: 2010 to 2013
22.09	Pineapple Companies and Canneries, and Sugar Companies and Mills: 1955 to 2017; and by Island: 2017
22.10	Sugar and Molasses Production: 1991 to 2016

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES
(NAICS 31-33): 2010 TO 2016**

[In millions of dollars unless otherwise noted. Industry groups with 950 employees or more.
Statistics based on the 2012 North American Industry Classification System (NAICS)]

Subject	2010	2011	2012	2013	2014	2015 1/	2016
All employees							
Number (1,000)	10.7	10.7	11.4	10.9	11.5	11.4	11.5
Payroll	429.6	431.0	465.0	471.4	533.8	554.9	568.3
Production workers							
Number (1,000)	6.8	6.7	7.4	6.9	7.4	7.4	7.1
Hours	13.0	12.9	13.6	13.4	13.8	14.7	13.8
Wages	238.1	232.3	258.0	268.0	309.1	334.2	311.9
Value added by manufacture	1,391.4	1,456.6	1,101.0	1,138.2	(D)	(D)	2,092.8
Cost of materials 2/	5,044.0	6,353.3	6,740.8	5,282.6	5,029.0	3,894.8	3,543.4
Value of shipments 2/	6,399.1	7,694.5	(D)	6,435.6	6,370.4	5,897.7	5,686.3
Total capital expenditures	75.0	101.3	108.4	103.7	115.9	116.6	129.6

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ Revised from previous *Data Book*.

2/ Aggregate of total cost of materials and total value of shipments includes extensive duplication, since products of some industries are used as materials of others.

Source: U.S. Census Bureau, *Annual Survey of Manufactures, Geographic Area Statistics* (annual)
<<https://factfinder.census.gov/faces/nav/jsf/pages/index.xhtml>> accessed June 25, 2018.

**Table 22.02-- DETAILED MANUFACTURING STATISTICS
(NAICS 31-33): 2007 AND 2012**

[Statistics based on the 2012 North American Industry Classification System (NAICS)]

Item	2007	2012
Companies 1/	942	764
All establishments 2/	984	796
0 to 19 employees	813	670
20 to 99 employees	148	104
100 employees or more	23	22
All employees 3/	14,127	11,440
Total compensation (\$1,000)	674,489	602,703
Annual payroll	511,486	465,024
Total fringe benefits	163,003	137,679
Employer cost for health insurance (\$1,000)	51,348	51,919
Production workers, average for year	9,487	7,396
Pay period including March 12	9,671	7,374
Pay period including June 12	9,478	7,355
Pay period including September 12	9,416	7,412
Pay period including December 12	9,383	7,443
Production-worker hours (1,000)	17,480	13,640
Production-worker wages (\$1,000)	294,394	257,974
Total cost of materials (\$1,000)	5,812,515	6,740,826
Materials, parts, containers, packaging, etc., used	5,010,642	5,975,005
Resales	632,000	570,928
Purchased fuels	98,510	121,202
Purchased electricity	32,373	43,758
Contract work	38,990	29,933
Quantity of electricity purchased for heat and power (1,000 kWh)	193,390	129,712
Quantity of electricity generated (1,000 kWh)	454,207	(D)
Quantity of electricity sold or transferred (1,000 kWh)	(D)	(D)
Total value of shipments (\$1,000)	8,799,266	(D)
Value of resales	730,979	645,048
Value added (\$1,000)	3,013,731	1,101,021

Continued on next page.

**Table 22.02-- DETAILED MANUFACTURING STATISTICS
(NAICS 31-33): 2007 AND 2012 -- Con.**

Item	2007	2012
Total inventories, beginning of year (\$1,000)	761,942	781,501
Finished goods	485,768	(D)
Work-in-process	(D)	(D)
Materials and supplies	(D)	188,586
Total inventories, end of year (\$1,000)	776,859	1,025,186
Finished goods	542,393	390,834
Work-in-process	69,898	403,979
Materials and supplies	164,568	230,373
Gross value of depreciable assets (acquisition costs) at beginning of year (\$1,000)	1,788,164	2,698,293
Total capital expenditures (new and used)	86,735	108,404
Buildings and other structures	15,982	12,834
Machinery and equipment	70,753	95,570
Automobiles, trucks, etc., for highway use	6,713	5,922
Computers and peripheral data processing equipment	8,606	5,513
All other expenditures for machinery and equipment	55,434	84,135
Total retirements	88,206	26,143
Gross value of depreciable assets at end of year (\$1,000)	1,786,693	2,780,554
Depreciation charges during year (\$1,000)	83,345	160,578
Total rental payments (\$1,000)	49,759	60,822
Buildings and other structures	31,654	47,139
Machinery and equipment	18,105	13,683

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

2/ Includes establishments with payroll at any time during the year.

3/ Average number of production workers for pay period that includes the 12th of March, June, September, and December plus other employees for payroll period that includes the 12th of March.

Source: 2007 Economic Census: EC0731A2, "Manufacturing, Geographic Area Series, Detailed Statistics for the State: 2007" (April 2010) <http://www.census.gov/econ/census07/www/get_data.html> accessed June 9, 2010; 2012 Economic Census: EC1231A2, "Manufacturing, Geographic Area Series, Detailed Statistics for the State: 2012" (June 2015) <http://factfinder.census.gov/bkmk/table/1.0/en/ECN/2012_US/31A2/0400000US15/naics~31-33> accessed July 1, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 22.03-- STATISTICAL SUMMARY OF MANUFACTURING
(NAICS 31-33), BY COUNTY: 2012**

[For the State, industries with 100 employees or more; for the counties, industries with 500 employees or more. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Subject	State total	City and County of Honolulu	Hawaii	Maui	Kauai
All establishments 1/ With 20 employees or more	796 126	544 106	112 13	99 7	41 -
All employees					
Number	11,440	9,076	1,182	997	185
Payroll (\$1,000)	465,024	370,762	46,354	41,107	6,801
Production workers					
Number	7,396	5,836	823	623	114
Hours (1,000)	13,640	10,715	1,463	1,261	201
Wages (\$1,000)	257,974	201,848	26,236	25,641	4,249
Value added by manufacture (\$1,000)	1,101,021	761,410	145,838	172,964	20,809
Cost of materials 2/ (\$1,000)	6,740,826	6,486,422	133,398	104,138	16,868
Value of shipments 2/ (\$1,000)	(D)	(D)	283,326	(D)	(D)
Total capital expenditures (\$1,000)	108,404	84,849	10,304	12,318	933

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate of cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Census Bureau, 2012 Economic Census: EC1231A1, "Manufacturing, Geographic Area Series, Industry Statistics for the States, Metropolitan and Micropolitan Statistical Areas, Counties, and Places: 2012" (June 2015) <http://factfinder.census.gov/bkmk/table/1.0/en/ECN/2012_US/31A1/0400000US15|0400000US15.05000/naics~31-33> accessed July 6, 2015.

**Table 22.04-- MANUFACTURING, BY SELECTED INDUSTRY GROUP
(NAICS 31-33): 2016**

[Industry groups with 950 employees or more. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Subject	Total	Food NAICS 311	Food, bakeries & tortilla NAICS 3118	Printing & related support NAICS 323	Printing & related support NAICS 3231	Non- metallic mineral NAICS 327
All employees						
Number	11,513	4,926	2,138	618	618	976
Payroll (\$1,000)	568,275	187,777	78,851	27,241	27,241	64,755
Production workers						
Number	7,149	2,847	1,283	395	395	760
Hours (1,000)	13,826	4,985	1,814	772	772	1,806
Wages (\$1,000)	311,884	83,975	1/ 26,113	15,423	15,423	47,311
Total cost of materials (\$1,000) 2/	3,543,442	700,010	116,318	(D)	(D)	(D)
Total value of shipments (\$1,000) 2/	5,686,253	1,448,745	1/ 418,653	131,609	131,609	353,062
Value added (\$1,000)	2,092,829	731,826	1/ 302,152	83,124	83,124	219,136
Capital expenditures	129,621	38,220	14,759	1,851	1,851	9,009

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ Relative standard error is 40 percent or more and less than 100 percent.

2/ Aggregate of total cost of materials and total value of shipments includes extensive duplication, since products of some industries are used as materials of others.

Source: U.S. Census Bureau, *Annual Survey of Manufactures, AM1631AS101: Geographic Area Statistics, Statistics for All Manufacturing by State* <<https://factfinder.census.gov>> accessed June 25, 2018.

**Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES
(NAICS 31-33), BY SELECTED NAICS CODE: 2016**

[Includes only establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Industry	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
	Total	954	14,122	629,773	44,595
311	Food	322	6,672	216,900	32,508
3112	Grain and oilseed milling	4	34	679	19,972
3113	Sugar & confectionery product	25	787	29,885	37,986
3114	Fruit & vegetable preserving & specialty	22	383	11,704	30,598
3115	Dairy product	15	407	18,680	45,860
3116	Animal slaughtering & processing	20	445	16,970	38,178
3118	Bakeries & tortilla	143	2,685	76,438	28,465
3119	Other food	90	1,898	61,776	32,555
312	Beverage and tobacco product	36	972	47,476	48,843
3121	Beverage	36	972	47,476	48,843
314	Textile product mills	24	205	7,976	38,906
3141	Textile furnishings mills	7	135	5,730	42,552
3149	Other textile product mills	17	70	2,245	31,925
315	Apparel	51	429	11,882	27,692
321	Wood product	25	172	6,993	40,658
3212	Plywood & engineered wood product	5	86	3,110	36,303
322	Paper	4	87	4,732	54,700
3222	Converted paper product	4	87	4,732	54,700
323	Printing & related support activities	98	753	27,506	36,541
324	Petroleum and coal products	10	530	66,644	125,782
325	Chemical	34	326	15,417	47,352
3251	Basic chemical	8	126	7,498	59,549
3254	Soap, cleaning compound & toiletry	17	119	4,099	34,567
326	Plastics & rubber products	20	324	15,335	47,391
327	Nonmetallic mineral product	53	928	64,901	69,937
3271	Clay product and refractory	4	28	715	25,158
3272	Glass and glass product	7	31	1,190	38,374
3273	Cement & concrete product	25	756	56,662	74,949
3279	Other nonmetallic mineral products	17	113	6,335	56,270
332	Fabricated metal product	41	315	19,000	60,239
3323	Architectural and structural metals	27	214	12,632	58,936
3327	Machine shops & threaded product	6	31	1,281	41,448
3328	Coating, engraving & heat treating metals	4	21	1,030	49,069
334	Computer & electronic product	14	165	11,545	69,866
3345	Electronic instrument	10	130	9,799	75,332

Continued on next page.

**Table 22.05-- MANUFACTURING, EMPLOYMENT AND WAGES
(NAICS 31-33), BY SELECTED NAICS CODE: 2016 -- Con.**

NAICS code	Industry	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
336	Transportation equipment	24	899	60,680	67,522
3366	Ship & boat building	20	878	59,248	67,449
337	Furniture & related product	49	345	16,454	47,740
3371	Household and institutional furniture	39	257	11,749	45,773
339	Miscellaneous	140	830	29,619	35,671
3391	Medical equipment & supplies	29	175	6,619	37,894
3399	Other miscellaneous	111	656	23,000	35,079

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, "Private, All Industry Aggregations, Hawaii 2016 Annual Averages"
<https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 25, 2018.

**Table 22.06-- MANUFACTURING, EMPLOYMENT AND WAGES
(NAICS 31-33), BY SELECTED NAICS CODE: 2017**

[Includes only establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Industry	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
	Total	1,011	14,256	646,825	45,373
311	Food	349	6,587	217,886	33,077
3112	Grain and oilseed milling	4	36	790	22,041
3113	Sugar & confectionery product	27	582	19,043	32,743
3114	Fruit & vegetable preserving & specialty	26	314	9,207	29,297
3115	Dairy product	15	428	19,976	46,708
3116	Animal slaughtering & processing	21	460	17,529	38,127
3118	Bakeries & tortilla	153	2,731	82,897	30,356
3119	Other food	99	2,000	67,604	33,809
312	Beverage and tobacco product	40	1,103	52,807	47,887
3121	Beverage	40	1,103	52,807	47,887
314	Textile product mills	25	198	8,258	41,741
3141	Textile furnishings mills	6	131	5,938	45,360
3149	Other textile product mills	19	67	2,319	34,661
315	Apparel	53	406	12,012	29,593
3152	Cut & sew apparel	53	406	12,012	29,593
321	Wood product	23	190	8,450	44,453
3212	Plywood & engineered wood product	6	106	4,394	41,293
322	Paper	4	91	4,938	54,460
3222	Converted paper product	4	91	4,938	54,460
323	Printing & related support activities	101	725	26,435	36,446
324	Petroleum and coal products	11	550	67,419	122,617
325	Chemical	37	331	16,212	48,978
3251	Basic chemical	11	123	7,550	61,299
3254	Soap, cleaning compound & toiletry	16	124	4,701	38,016
326	Plastics & rubber products	21	319	15,551	48,697
327	Nonmetallic mineral product	52	916	65,541	71,571
3271	Clay product and refractory	4	26	770	30,088
3272	Glass and glass product	6	28	1,226	43,803
3273	Cement & concrete product	25	749	57,174	76,343
3279	Other nonmetallic mineral products	17	113	6,370	56,249
332	Fabricated metal product	41	332	18,294	55,062
3323	Architectural and structural metals	27	233	12,972	55,634
3327	Machine shops & threaded product	7	31	1,217	38,844
3328	Coating, engraving & heat treating metals	4	21	1,058	51,212

Continued on next page.

**Table 22.06-- MANUFACTURING, EMPLOYMENT AND WAGES
(NAICS 31-33), BY SELECTED NAICS CODE: 2017 -- Con.**

NAICS code	Industry	Average establishments	Annual average employment	Total annual wages (\$1,000)	Annual wages per employee
334	Computer & electronic product	17	183	13,514	73,745
3345	Semiconductor & electronic component	3	18	947	51,867
336	Transportation equipment	28	929	63,327	68,185
3366	Ship & boat building	24	907	61,542	67,833
337	Furniture & related product	58	377	18,025	47,853
3371	Household and institutional furniture	47	289	13,366	46,197
339	Miscellaneous	143	839	30,316	36,123
3391	Medical equipment & supplies	28	165	6,499	39,290
3399	Other miscellaneous	115	674	23,817	35,346

Source: U.S. Bureau of Labor Statistics, Quarterly Census of Employment and Wages, "Private, All Industry Aggregations, Hawaii 2017 Annual Averages"
<https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed June 25, 2018.

**Table 22.07-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:
1987 TO 2017**

[In thousands of dollars. Data exclude sugar processing, pineapple canning, and petroleum refining, and are on a cash basis accounting. Manufactured goods shipped out of State were exempted from the general excise tax by Act 239, SLH 1987, effective January 1, 1988. Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to income received in the 12-month period ending November 30]

Year	Tax base	Year	Tax base	Year	Tax base
1987	595,140	1998	535,371	2009	752,237
1988	629,303	1999	585,305	2010	708,787
1989	630,997	2000	586,039	2011	695,442
1990	728,387	2001	611,292	2012	646,969
1991	714,407	2002	612,658	2013	655,222
1992	714,470	2003	638,863	2014	701,988
1993	717,423	2004	642,245	2015	750,372
1994	618,238	2005	738,573	2016	689,126
1995	614,771	2006	781,626	2017	733,105
1996	622,889	2007	766,208		
1997	581,259	2008	795,352		

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual) and as revised. Beginning in 1997, <http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed June 25, 2018.

**Table 22.08-- 25 LARGEST INDUSTRIAL AND HIGH-TECHNOLOGY
PARKS, BY ISLAND: 2010 TO 2013**

[The 2014-2015 Book of Lists does not include Industrial & Technology Parks]

Subject	State total	Hawaii	Maui	Molokai	Oahu	Kauai
2010						
Number of parks	25	4	5	1	13	2
Total acres	4,983.52	1,864.22	777.30	16.50	2,256.50	69.00
Developed acres	2,932.10	569.50	205.30	6.70	2,081.60	69.00
Number of tenants 1/	1,125	207	20	(NA)	883	15
Number of owners 2/	537	111	194	9	213	10
2011						
Number of parks	25	4	5	1	13	2
Total acres	4,753.38	1,864.00	701.30	16.50	2,102.58	69.00
Developed acres	2,917.68	609.00	251.30	6.70	1,981.68	69.00
Number of tenants 3/	733	216	20	(NA)	482	15
Number of owners 4/	438	111	145	9	163	10
2012						
Number of parks	25	4	5	1	13	2
Total acres	4,748.88	1,864.00	701.30	16.50	2,098.08	69.00
Developed acres	2,927.38	614.00	251.30	(NA)	1,993.08	69.00
Number of tenants 3/	721	212	20	(NA)	474	15
Number of owners 5/	377	111	90	(NA)	166	10
2013 6/						
Number of parks	25	4	5	1	13	2
Total acres	4,907.20	1,864.00	701.30	16.50	2,256.40	69.00
Developed acres	3,021.70	614.00	251.30	(NA)	2,087.40	69.00
Number of tenants 7/	691	212	20	(NA)	444	15
Number of owners 5/	408	111	90	(NA)	197	10

NA Not available.

1/ Data on number of tenants not available for 8 parks: 4 on Maui, 1 on Molokai, 2 on Oahu and 1 on Kauai.

2/ Data on number of owners not available for 3 parks: 1 on Maui, 1 on Oahu and 1 on Kauai.

3/ Data on number of tenants not available for 9 parks: 4 on Maui, 1 on Molokai, 3 on Oahu and 1 on Kauai.

4/ Data on number of owners not available for 7 parks: 2 on Maui, 4 on Oahu and 1 on Kauai.

5/ Data on number of owners not available for 9 parks: 3 on Maui, 1 on Molokai, 4 on Oahu and 1 on Kauai.

6/ Data revised from original list published in Vol. 51, No. 33 (October 11, 2013), p. 18.

7/ Data on number of tenants not available for 10 parks: 4 on Maui, 1 on Molokai, 4 on Oahu and 1 on Kauai.

Source: *Pacific Business News*, Vol. 47, No. 46 (January 8, 2010), p. 15; Vol. 48, No. 47 (January 14, 2011), p. 16; Vol. 50, No. 32 (October 5, 2012), p. 18; Vol. 51, No. 33 (October 11, 2013), p. 18; and *Book of Lists* (2014) Vol. 51, No. 43 (December 20, 2013), p. 76.

Table 22.09-- PINEAPPLE COMPANIES AND CANNERIES, AND SUGAR COMPANIES AND MILLS, 1955 TO 2017; AND BY ISLAND: 2017

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies	Canneries	Companies 1/	Mills
1955	10	8	28	26
1960	8	9	27	27
1965	6	6	25	27
1970	4	4	23	26
1975	3	3	16	17
1980	3	3	15	14
1985	3	2	14	12
1990	4	2	12	12
1995	3	1	8	10
2000	3	1	3	4
2005	3	1	2	2
2006	3	1	2	2
2007	2	-	2	2
2008	2	-	2	2
2009	2	-	1	1
2010	2/ 2	-	1	1
2011	2/ 2	-	1	1
2012	2/ 2	-	1	1
2013	2/ 2	-	1	1
2014	2/ 2	-	1	1
2015	2/ 2	-	1	1
2016	2/ 2	-	3/ 1	3/ 1
2017	2/ 2	-	-	-
ISLAND: 2017				
Hawaii	-	-	-	-
Maui	2/ 1	-	-	-
Oahu	2/ 1	-	-	-
Kauai	-	-	-	-

1/ In operation; excludes cooperatives.

2/ Includes Dole Food Company Hawaii & Haliimaile Pineapple Company, might exclude smaller diversified farms.

3/ Hawaiian Commercial & Sugar Company closed its sugar operation at the end of 2016.

Source: Pineapple Growers Association of Hawaii, records; *Hawaiian Sugar Manual* (annual); Dole Food Company, records; Hawaii Agriculture Research Center, records; and Hawaiian Commercial & Sugar Company, records.

Table 22.10-- SUGAR AND MOLASSES PRODUCTION: 1991 TO 2016

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area 1/		96° raw value	Equivalent refined	
1991	155,609	67,716	5,852,668	724,100	676,744	202,214
1992	145,790	62,123	5,432,286	652,304	609,643	203,739
1993	121,322	64,705	5,506,072	677,405	633,103	211,658
1994	98,413	64,951	5,268,859	658,538	615,470	200,835
1995	81,957	48,507	3,952,347	492,346	460,147	163,305
1996	68,816	36,769	3,542,460	437,262	408,665	145,369
1997	67,820	32,033	2,923,594	356,917	333,575	131,173
1998	67,585	30,347	2,725,744	353,893	330,748	125,909
1999	60,758	35,329	2,891,499	367,532	343,495	141,481
2000	43,821	30,194	2,364,357	301,165	281,469	101,329
2001	50,410	19,293	1,876,613	246,203	230,101	85,894
2002	47,476	21,311	2,108,810	270,084	252,421	89,885
2003	47,733	19,851	2,029,761	261,009	243,939	89,631
2004	43,465	21,790	1,978,821	257,866	241,002	80,466
2005	40,145	21,735	1,754,581	252,342	235,839	72,675
2006	42,080	20,413	1,614,691	213,185	199,243	65,505
2007	41,762	20,385	1,492,357	206,008	192,535	62,231
2008	39,663	20,426	1,422,296	185,171	173,061	62,278
2009	39,812	20,244	2/ 973,876	176,208	164,684	2/ 40,631
2010	34,693	15,488	1,195,345	171,949	160,704	50,161
2011	35,532	15,063	1,286,373	182,582	169,801	51,106
2012	36,746	15,867	1,259,453	178,549	166,872	49,300
2013	35,556	15,443	1,351,087	191,351	178,837	53,365
2014	35,556	14,193	1,261,235	161,525	172,828	51,615
2015	35,556	12,907	1,146,996	137,556	137,556	45,605
2016 3/	17,500	15,485	1,334,442	157,391	157,391	56,599

1/ The average growth of a crop is 22 to 26 months. Only a portion of the total acreage in cane is harvested each year.

2/ Gay & Robinson data not available.

3/ Hawaiian Commercial & Sugar Company ended its sugar operation at the end of 2016.

Source: Hawaiian Sugar Planters' Association, *Hawaiian Sugar Manual* (annual), and records; Hawaii Agriculture Research Center, records; and Hawaiian Commercial & Sugar Company, records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services, including the motion picture industry. Related data are included in Sections 7, 12, 14 and 15.

The major sources of these data are the U.S. Census Bureau, *2012 Economic Census, Geographic Area Series*, Retail Trade, Wholesale Trade, and all others relating to the services industry. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Tourism Authority's Tourism Research. Hawaii Film Office of the Hawaii State Department of Business, Economic Development & Tourism compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in *Historical Statistics of Hawaii*, Section 20. The *Statistical Abstract of the United States: 2012*, Section 22 and 27, presents similar data for other states and the nation as a whole.

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**Table 23.01-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE
ACTIVITIES: 1986 TO 2017**

[In thousands of dollars. Data are on a cash basis accounting]

Year reported 1/	Retailing	Services 2/	Amusement, etc. 3/	Intermediary services	Wholesaling
1986	9,239,373	2,784,169	159,881	127,992	4,443,166
1987	9,449,673	2,896,159	157,824	148,557	5,188,215
1988	10,385,974	3,287,715	165,729	182,138	5,683,815
1989	11,607,779	3,699,003	184,154	189,018	6,595,569
1990	12,827,883	4,276,876	201,003	349,111	7,494,330
1991	13,398,382	4,888,164	209,128	451,078	7,722,752
1992	13,846,332	5,032,682	229,091	247,850	7,498,621
1993	13,976,048	5,092,654	226,443	218,173	7,646,215
1994	14,569,798	5,270,844	238,195	265,755	7,622,366
1995	15,050,113	5,351,079	233,843	264,193	7,808,103
1996	16,091,429	5,618,027	246,232	292,250	8,153,155
1997	15,973,955	5,414,691	229,802	283,064	8,101,894
1998	15,730,858	5,545,001	232,288	320,845	8,030,448
1999	15,957,379	5,647,648	220,959	298,815	8,059,260
2000	17,453,936	6,045,695	253,484	378,574	9,082,585
2001	17,823,297	6,426,452	249,098	322,183	9,171,140
2002	17,873,487	6,831,646	265,334	331,944	9,288,532
2003	18,835,041	7,296,759	260,651	352,614	9,714,281
2004	21,049,652	8,108,248	288,658	312,781	11,017,918
2005	23,233,246	9,206,858	292,734	388,457	11,920,729
2006	23,997,010	9,967,208	301,779	606,071	12,687,800
2007	26,448,776	11,197,746	343,395	681,671	13,903,196
2008	25,498,526	11,199,610	342,329	645,963	13,400,692
2009	23,567,451	10,993,980	333,223	582,781	11,939,742
2010	24,298,654	11,356,344	353,686	556,594	12,165,086
2011	27,750,265	12,460,801	388,277	590,955	14,157,437
2012	29,976,425	12,898,627	399,355	676,615	14,687,369
2013	29,667,015	13,341,442	391,118	614,317	14,795,784
2014	30,766,185	13,527,677	398,887	689,539	15,282,809
2015	31,062,710	13,989,090	397,833	723,071	14,793,349
2016	29,039,437	13,511,064	397,992	735,140	13,484,817
2017	32,727,278	15,097,644	460,606	949,174	15,729,763

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Theater, amusement, radio, etc.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release). See also <http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed May 9, 2018.

**Table 23.02-- RETAIL ESTABLISHMENTS, BY PAYROLL STATUS:
1972 TO 2012**

[Statistics currently based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

Year	Number of establishments			Sales (million dollars)		
	Total	With payroll	Without payroll	Total	With payroll	Without payroll
Old definition						
1972	6,392	4,491	1,901	1,865	1,820	45
1977	7,388	5,273	2,115	3,294	3,223	71
1982	8,917	6,139	2,778	5,193	5,102	92
1987	11,143	7,195	3,948	8,267	8,084	183
1992	13,185	7,807	5,378	11,510	11,250	260
1997	17,478	7,860	9,618	13,638	13,299	339
New definition 1/						
1997	14,098	5,088	9,010	11,628	11,318	310
2002	13,719	4,924	8,795	13,362	13,008	354
2007	14,535	5,012	9,523	18,062	17,612	450
2012	14,155	4,643	9,512	19,331	18,902	430

1/ Excludes food services (eating and drinking places), included in earlier censuses.

Source: U.S. Census Bureau, *1972 Census of Retail Trade, Hawaii*, RC72-A-12 (July 1974), table 1; *1977 Census of Retail Trade, Hawaii*, RC77-A-12 (June 1979), table 1; *1982 Census of Retail Trade, Hawaii*, RC82-A-12 (September 1984), table 1; *1987 Census of Retail Trade, Hawaii*, RC87-A-12 (May 1989), table 1, and *Nonemployer Statistics Series, West*, RC87-N-4 (February 1990), table 2; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 1, and *Nonemployer Statistics Series, Summary*, RC92-N-1 (February 1995), table 3; *1997 Economic Census, Retail Trade, Hawaii*, EC97R44A-HI (November 1999), table 1; *1997 Economic Census Accomodation and Foodservices*, EC97R72A-HI (October 1999), table 1; *1997 Economic Census, Nonemployer Statistics*, EC97X-CS4 (January 2001), table 2; *2002 Economic Census, Retail Trade, Geographic Area Series, Hawaii*, EC02-44A-HI, (January 2005), table 1; *2002 Economic Census, Nonemployer Statistics, Hawaii*, <<http://www.census.gov/epcd/nonemployer/2002/hi/HI000.HTM>> accessed February 2, 2005; *2007 Economic Census*, "Sector 44: Retail Trade: Geographic Area Series: Summary Statistics for the United States, States, Metro Areas, Counties, and Places: 2007" (EC0744A1) <<http://factfinder.census.gov>> accessed January 21, 2010; *Nonemployer Statistics, Hawaii*, 2007 Retail Trade Hawaii <http://www.census.gov/epcd/nonemployer/2007/hi/HI000_44.HTM> accessed January 21, 2010; *2012 Economic Census*, "Sector 44-45: Retail Trade: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1244A) <<http://factfinder.census.gov>> accessed June 10, 2015; and *Nonemployer Statistics, Hawaii*, 2012 Retail Trade Hawaii <<http://www.census.gov/econ/nonemployer/index.html>> accessed June 10, 2015.

**Table 23.03-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS
(NAICS 44-45) WITH PAYROLL, BY BROAD GEOGRAPHIC AREA: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Subject	State total	Oahu	Other islands
Number of establishments	4,643	2,889	1,754
Sales (\$1,000)	18,901,745	13,036,448	5,865,297
Annual payroll (\$1,000)	1,835,021	1,233,102	601,919
First quarter payroll (\$1,000)	451,327	303,670	147,657
Paid employees for pay period including March 12	68,360	46,165	22,195

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 44-45: Retail Trade: Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1244A1) <<http://factfinder.census.gov>> accessed May 22, 2015 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 23.04-- RETAIL ESTABLISHMENTS (NAICS 44-45), BY COUNTY AND
SELECTED PLACE: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry
Classification System (NAICS)]

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
State total	4,643	18,901,745	1,835,021	68,360
Hawaii County	648	2,390,830	241,327	9,084
Captain Cook	9	30,185	3,599	128
Hilo	228	969,620	101,573	3,849
Holualoa	12	15,027	795	32
Honaunau-Napoopoo	4	3,571	371	18
Kahaluu-Keauhou	7	41,578	4,287	166
Kailua	145	526,481	60,443	2,239
Kalaoa	30	304,739	21,134	570
Mountain View	4	6,210	384	22
Waikoloa Village	14	23,524	2,110	68
Waimea	28	97,106	9,167	350
Balance of Hawaii County 2/	167	372,789	37,464	1,642
Honolulu County	2,889	13,036,448	1,233,102	46,165
Aiea	45	100,683	9,842	477
East Honolulu	55	343,330	27,898	962
Ewa Beach	12	50,966	5,181	373
Ewa Gentry	7	30,166	2,802	128
Halawa	16	18,589	1,569	64
Haleiwa	34	92,528	9,964	398
Hauula	3	3,613	332	24
Kahaluu	3	4,187	400	26
Kailua	96	322,096	32,694	1,388
Kaneohe	119	481,466	46,461	1,597
Kaneohe Station	6	6,899	840	26
Kapolei	21	373,649	27,470	1,067
Laie	8	34,426	3,475	178
Maili	6	8,156	534	30
Makakilo	5	(D)	(D)	(3/)
Mililani Mauka	5	(D)	(D)	(4/)
Mililani Town	34	253,019	25,466	974
Nanakuli	14	39,270	3,101	171
Ocean Pointe	6	31,571	809	43
Pearl City	65	672,495	49,906	2,081
Pupukea	9	21,976	2,537	110

Continued on next page.

**Table 23.04-- RETAIL ESTABLISHMENTS (NAICS 44-45), BY COUNTY AND
SELECTED PLACE: 2012 -- Con.**

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Honolulu County - Con.				
Royal Kunia	8	101,689	11,686	458
Schofield Barracks	5	6,578	842	39
Urban Honolulu	1,851	7,684,234	748,593	26,485
Wahiawa	43	114,150	10,338	461
Waialua	9	13,121	983	46
Waianae	20	120,609	9,669	430
Waikele	53	274,822	25,986	1,614
Waimalu	115	429,286	44,100	2,144
Waimanalo	10	22,974	2,281	87
Waimanalo Beach	4	6,170	537	31
Waipahu	106	866,132	76,833	2,248
Waipio	15	54,655	4,562	164
Balance of Honolulu County 2/	81	(D)	(D)	(D)
Kalawao County	1	(D)	(D)	(3/)
Kalawao County	1	(D)	(D)	(3/)
Kauai County	347	1,013,489	102,373	3,937
Hanamaulu	6	8,086	625	44
Hanapepe	10	14,603	2,061	61
Kalaheo	9	11,670	838	31
Kapaa	50	137,980	14,713	572
Kilauea	14	22,489	2,046	95
Lihue	93	576,031	55,222	1,847
Puhi	11	17,173	1,876	67
Balance of Kauai County 2/	154	225,457	24,992	1,220
Maui County	758	(D)	(D)	(5/)
Haiku-Pauwela	7	11,384	1,477	47
Kaanapali	73	187,001	21,427	732
Kahului	194	1,252,291	124,760	4,127
Kaunakakai	18	50,691	5,361	182
Kihei	68	234,893	20,687	867
Kula	13	13,786	1,263	60
Lahaina	166	249,107	29,938	1,247
Lanai City	10	14,147	1,946	75
Makawao	19	17,722	1,797	72

Continued on next page.

**Table 23.04-- RETAIL ESTABLISHMENTS (NAICS 44-45), BY COUNTY AND
SELECTED PLACE: 2012 -- Con.**

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Maui County - Con.				
Napili-Honokowai	9	32,525	2,517	95
Paia	27	52,578	6,304	231
Pukalani	8	88,540	9,450	344
Waihee/Waiehu	1	(D)	(D)	(3/)
Wailea	57	99,284	14,146	458
Wailuku	58	132,004	16,169	502
Balance of Maui County	30	24,846	2,965	131

D Withheld to avoid disclosing data for individual companies.

1/ For week including March 12.

2/ This table displays fewer economic places within each county than the source document. Therefore, the balance of county figures were recalculated by DBEDT and differ from figures shown in the original source.

3/ 0 to 19 employees.

4/ 20 to 99 employees.

5/ 5,000 to 9,999 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 44-45: Retail Trade: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1244A1) <<http://factfinder.census.gov>> accessed May 18, 2015 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 23.05-- RETAIL ESTABLISHMENTS (NAICS 44-45) WITH PAYROLL, BY KIND OF BUSINESS: 2012

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Kind of business	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
44-45	Retail trade	4,643	18,901,745	1,835,021	68,360
441	Motor vehicle and parts dealers	322	2,742,825	278,726	5,981
442	Furniture and home furnishings stores	161	265,204	35,872	1,198
443	Electronics and appliance stores	158	411,831	38,448	1,706
444	Building material and garden equipment and supplies dealers	253	1,093,488	133,489	4,394
445	Food and beverage stores	676	3,208,071	327,056	13,474
446	Health and personal care stores	384	1,610,027	160,269	5,105
447	Gasoline stations	285	1,509,032	63,424	2,995
448	Clothing and clothing accessories stores	1,248	2,546,443	274,296	13,170
451	Sporting goods, hobby, book, and music stores	238	344,764	44,850	2,094
452	General merchandise stores	93	4,319,272	351,728	12,784
453	Miscellaneous store retailers	636	624,077	101,923	4,636
454	Nonstore retailers	189	226,711	24,940	823

1/ For week including March 12.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 44-45: Retail Trade: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1244A1) <<http://factfinder.census.gov>> accessed May 21, 2015.

**Table 23.06-- PRIVATE INDUSTRY RETAIL EMPLOYMENT AND WAGES,
ANNUAL AVERAGES (NAICS 44-45): 2016**

[Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system. Components may not sum to totals, but are as reported by source]

NAICS code	Retail trade	Average establishments	Average employment	Total wages (\$1,000)	Wages per employee
	Total	4,392	70,639	2,210,217	31,289
441	Motor vehicle and parts dealers	335	6,921	371,353	53,655
442	Furniture and home furnishings stores	155	1,547	55,717	36,016
443	Electronics and appliance stores	104	1,260	53,720	42,635
444	Building material and garden supply stores	193	4,278	142,978	33,426
445	Food and beverage stores	634	15,013	427,142	28,451
446	Health and personal care stores	456	5,513	192,149	34,857
447	Gasoline stations	232	2,198	60,628	27,584
448	Clothing and clothing accessories stores	1,112	11,045	277,973	25,167
451	Sporting goods, hobby, book and music stores	246	2,697	60,522	22,439
452	General merchandise stores	126	14,448	405,493	28,066
453	Miscellaneous store retailers	652	5,260	144,544	27,478
454	Nonstore retailers	149	459	17,998	39,248

Source: U.S. Bureau of Labor Statistics, *Employment and Wages Annual Averages*, <https://data.bls.gov/cew/apps/data_views/data_views.htm#tab=Tables> accessed May 25, 2018.

**Table 23.07-- RETAIL TRADE AND FOOD SERVICES AND DRINKING PLACES
SALES, BY TYPE OF STORE: 2012**

[In millions of dollars; data are estimates. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system. Under NAICS classification, food service & drinking establishments are no longer included in retail trade]

Kind of store	NAICS code	2012
Total retail sales and food and drink	44, 45, 722	22,700
All retail stores 1/	44, 45	18,902
Motor vehicle and parts dealers	441	2,743
Furniture and home furnishings	442	265
Electronics and appliances	443	412
Building material and garden equipment and supply dealers	444	1,093
Food and beverage stores	445	3,208
Health and personal care	446	1,610
Gasoline stations	447	1,509
Clothing and clothing accessories	448	2,546
Sporting goods, hobby, book, & music stores	451	345
General merchandise	452	4,319
Miscellaneous store	453	624
Nonstore retailers	454	227
Food services & drinking places	722	3,798

1/ Includes other types of stores, not shown separately.

Source: U.S. Census Bureau, *2012 Economic Census*, "All sectors: Geographic Area Series: Economy-Wide Key Statistics: 2012" <<http://factfinder.census.gov>> accessed June 21, 2016.

**Table 23.08-- CHARACTERISTICS OF SHOPPING CENTERS FOR HAWAII
AND THE UNITED STATES: 2016 AND 2017**

Subject	Hawaii		United States	Hawaii as percent of U.S.
	2016 1/	2017	2017	2017
Number of shopping centers 2/	279	279	116,161	0.2
Gross leasable area (millions of square feet) 2/	29.3	29.3	7,680.3	0.4
Shopping center space per capita (square feet)	20.5	20.6	23.6	(X)
Number of shopping center jobs	61,898	63,282	17,772,186	0.4
Jobs per center	221.9	226.8	153.0	(X)
Jobs per 1,000 square feet	2.1	2.2	2.3	(X)
Share of total employment (percent)	9.6	9.7	12.1	(X)
Shopping center retail sales (billions of dollars)	8.0	8.2	2,313	0.4
Per capita shopping center sales (dollars)	5,591	5,770	7,102	(X)
Retail sales per square feet (dollars)	272.3	280.7	301.2	(X)
Shopping center state sales tax rev. (billions of dollars)	0.3	0.3	130.5	0.3
Shopping center prop. tax revenue (millions of dollars)	106.2	(NA)	(NA)	(NA)

X Not applicable.

NA Not available.

1/ Revised from previous *Data Book*.

2/ Copyright, CoStar Realty Information, Inc., <www.costar.com>.

Source: International Council of Shopping Centers, "Hawaii Impact Study," (annual)

<<http://quickstats.icsc.org/>> accessed July 13, 2017, and calculations by Hawaii State Department of Business, Economic Development and Tourism.

Table 23.09-- SHOPPING CENTERS AND GROSS LEASABLE AREA BY CENTER TYPE: 2016 AND 2017

Shopping center type	2016		2017	
	Number	Gross leasable area (sq ft)	Number	Gross leasable area (sq ft)
Total	278	29,317,432	279	29,340,886
Convenience center	100	1,528,260	99	1,518,943
Neighborhood center 1/	121	9,184,044	122	9,309,483
Community center 2/	36	7,106,015	36	6,874,792
Power center 3/	6	2,177,165	6	2,177,171
Regional mall 4/	8	4,605,704	8	4,730,954
Super regional mall 5/	2	3,808,352	2	3,811,352
Outlet/value center	3	603,997	3	532,796
Lifestyle center	1	135,000	1	135,000
Theme/festival center 6/	1	168,895	2	250,395
Airport retail	-	-	-	-

1/ Provides for the sale of daily living needs of the immediate area. Typical area is 30,000 to 150,000 square feet with at least one anchor tenant.

2/ In addition to convenience goods, provides for the sale of goods such as apparel or furniture. Typical area is 100,000 to 350,000 square feet with two or more anchor tenants.

3/ Typically 250,000 to 600,000 square feet with three or more anchor stores which occupy 75-90% of the total area. Anchor stores are "category-dominant" home improvement stores, discount department stores, warehouse clubs and off-price stores.

4/ Provides a variety of goods comparable to those of a central business district in a small city, including general merchandise, apparel and home furnishings, as well as a variety of services and perhaps recreational facilities. Two or more full-line department stores anchor a total area of 400,000 to 800,000 square feet.

5/ Provides an extensive variety of shopping goods comparable to those of the central business district of a major metropolitan area. The anchors are three or more full-line department stores, with total area in excess of 800,000 square feet.

6/ Anchored by restaurants or other entertainment facilities, and oriented toward leisure and tourist-oriented goods and services. Typical area is 80,000 to 250,000 square feet.

Source: International Council of Shopping Centers, Hawaii Council of Shopping Centers, "U.S. Shopping Center Count and GLA by Center Type: State, Region and Division Geographic Levels" (annual), <<http://quickstats.icsc.org/>> accessed May 9, 2018.

Table 23.10-- CHARACTERISTICS OF EATING AND DRINKING PLACES: 2012

[Includes only establishments of firms with payroll]

Subject	Full-service restaurants	Limited-service restaurants	Cafeterias, buffets, and grill buffets	Drinking places (alcoholic beverages)
Establishments in business at end of year	1,086	1,160	11	209
Sales, calendar year (million dollars)	1968.9	1162.7	(D)	120.4
Seats, Dec. 31	116,136	36,444	(D)	11,955
Average cost per meal (establishments)				
Less than \$5.00	2	25	-	(X)
\$5.00 to \$6.99	25	182	-	(X)
\$7.00 to \$9.99	244	685	1	(X)
\$10.00 to \$14.99	309	270	2	(X)
\$15.00 to \$19.99	195	49	4	(X)
\$20.00 to \$29.99	260	4	5	(X)
\$30.00 to \$49.99	116	44	-	(X)
\$50.00 or more	53	-	-	(X)
Menu type or specialty (establishments)				
Italian	53	3	-	(X)
Mexican	17	82	-	(X)
Chinese	166	135	9	(X)
Other ethnic	453	237	1	(X)
Seafood	77	59	1	(X)
Steak	58	18	-	(X)
Pizza	27	64	-	(X)
Chicken	2	48	-	(X)
Hamburger	22	227	-	(X)
Sandwich (sub shop)	36	178	-	(X)
Other food specialty	86	101	-	(X)
Establishments with no food specialty	207	107	1	(X)

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

X Not applicable.

Source: U.S. Census Bureau, *2012 Economic Census*, Accommodation and Food Services, Subject Series: Misc Subjects <<http://factfinder.census.gov>> accessed on June 17, 2016.

Table 23.11-- DUTY-FREE STORE REVENUES: 1985 TO 2017

[In dollars. These sales revenues are not included in the general excise and use tax base data cited elsewhere in this volume]

Year	Revenues	Year	Revenues
1985	180,126,919	2002	149,962,722
1986	270,891,959	2003	158,854,936
1987	369,788,429	2004	168,305,421
1988	445,072,755	2005	189,517,794
1989	451,185,041	2006	174,632,693
1990	413,932,037	2007	147,125,047
1991	378,587,469	2008	130,749,679
1992	421,953,644	2009	116,402,544
1993	397,322,968	2010	119,377,140
1994	413,417,555	2011	152,849,776
1995	419,548,514	2012	199,596,711
1996	425,824,748	2013	201,060,547
1997	355,636,355	2014	166,411,033
1998	271,692,798	2015	135,602,039
1999	192,429,772	2016	105,331,886
2000	229,392,900	2017	100,801,831
2001	215,257,193		

Source: For 1985-1994 data DFS Hawaii, records; and for 1995-2016 data Hawaii State Department of Transportation, Airport Division, records.

Table 23.12-- ALCOHOLIC BEVERAGE SALES, BY TYPE AND COUNTY: 2016

[Fiscal year ending June 30]

Category	State	Hawaii	Maui	Honolulu	Kauai
All types (dollars)	649,959,564	72,436,595	96,844,063	443,819,759	36,859,147
Distilled spirits	165,159,582	9,742,766	14,726,604	134,758,514	5,931,699
Sparkling wine	21,710,635	1,133,853	1,650,719	18,385,310	540,753
Still wine	180,029,185	16,180,323	24,241,888	131,286,665	8,320,309
Cooler beverage	448,482	91,410	65,867	266,817	24,388
Beer other than draft	247,720,623	40,604,657	50,838,564	136,553,816	19,723,586
Draft beer	34,891,057	4,683,586	5,320,421	22,568,638	2,318,412
All types (wine gallons 1/)	37,696,403	5,642,759	6,994,478	22,384,273	2,674,893
Distilled spirits	2,550,838	218,398	294,858	1,929,710	107,872
Sparkling wine	321,324	20,930	37,085	251,951	11,358
Still wine	4,488,145	469,894	573,797	3,240,364	204,090
Cooler beverage	39,696	7,190	5,971	24,254	2,281
Beer other than draft	26,737,012	4,459,699	5,532,682	14,622,231	2,122,400
Draft beer	3,559,388	466,648	550,085	2,315,763	226,892

1/ 128 fluid ounces.

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 23.13-- PRODUCT LINE SALES FOR RETAIL TRADE (NAICS 44-45): 2012

Products and services code	Meaning of products and services code	Number of establishments	Sales (\$1,000)	Line sales as % of sales of establishments with line	Line sales as % of total sales of NAICS
20000	Industry total	4,643	18,901,745	(X)	100.0
20100	Groceries & other food for human consumption off the premises	1,314	3,893,586	36.1	20.6
20140	Packaged liquor, wine, & beer	790	509,365	5.8	2.7
20150	Cigars, cigarettes, etc & smokers' access, excluding sls from vending	836	380,597	4.9	2.0
20160	Drugs, health aids, beauty aids, including cosmetics	1,172	1,830,256	18.5	9.7
20180	Soaps, detergents, & household cleaners	554	197,064	2.7	1.0
20190	Paper & related products, including paper towels, toilet tissue, wraps, etc.	495	193,309	2.8	1.0
20200	Men's wear, including accessories	961	572,843	7.6	3.0
20220	Women's, juniors', & misses' wear, including accessories	1,218	1,179,243	17.7	6.2
20240	Children's wear, including boys, girls, & infants & toddlers	624	170,554	4.5	0.9
20250	Costumes & unisex clothing	167	8,834	0.7	(1/)
20260	Footwear, including accessories	834	382,191	6.4	2.0
20270	Sewing, knitting materials & supplies, needlework goods	73	25,466	2.8	0.1
20280	Curtains, draperies, blinds, slipcovers, bed & table coverings	155	99,443	2.7	0.5
20300	Major household appliances	134	150,492	5.8	0.8
20310	Small electric appliances & personal care appliances	204	46,985	0.9	0.2
20320	TVs, video recorders, video cameras, video tapes, DVDs, etc	233	148,356	3.0	0.8
20330	Audio equipment, musical instruments, radios, stereos, CDs, records, etc	323	78,029	2.4	0.4
20340	Furniture, sleep equipment & outdoor/patio furniture	266	211,317	4.1	1.1
20360	Flooring & floor coverings	101	110,784	5.1	0.6
20370	Computer hardware, software, & supplies	128	240,019	6.7	1.3
20380	Kitchenware & home furnishings	588	250,219	4.6	1.3

Continued on next page.

**Table 23.13-- PRODUCT LINE SALES FOR RETAIL TRADE (NAICS 44-45):
2012 -- Con.**

Products and services code	Meaning of products and services code	Number of establishments	Sales (\$1,000)	Line sales as % of sales of establishments with line	Line sales as % of total sales of NAICS
20400	Jewelry, including watches, watch attach, novelty jewelry, etc	1,047	774,616	15.4	4.1
20420	Books	216	32,809	1.2	0.2
20440	Photographic equipment & supplies	227	45,016	0.9	0.2
20460	Toys, hobby goods, & games	382	116,951	3.1	0.6
20490	Optical goods, including eyeglasses, contact lenses, sunglasses, etc	295	97,631	1.9	0.5
20530	Sporting goods & recreational equip.	481	229,845	6.0	1.2
20590	Boats & other sport vehicles, parts & accessories	51	35,318	4.4	0.2
20600	Hardware, tools, & plumbing & electrical supplies	360	319,219	7.4	1.7
20620	Lawn, garden, & farm equipment & supplies	451	224,573	4.4	1.2
20640	Dimensional lumber & other building/ structural materials & supplies	138	346,260	36.9	1.8
20670	Paint & sundries	115	110,357	7.1	0.6
20690	Wallpaper & other flex. wallcoverings	22	2,171	0.4	(1/)
20700	Automobiles, cars, vans, trucks, motorcycles, motor scooters, etc	148	2,007,568	82.8	10.6
20720	Automotive fuels	306	1,380,117	42.9	7.3
20730	Automotive lubricants, including oil, greases, etc	317	31,196	1.1	0.2
20740	Automotive tires, tubes, batteries, parts, accessories	440	459,061	6.6	2.4
20780	Household fuels, including oil, LP gas, wood, coal	108	96,380	8.3	0.5
20800	Pets, pet foods, & pet supplies	319	131,264	2.2	0.7
20810	Baby goods not elsewhere classified, incl. bottles, monitors, carriers, swings, etc.	42	20,550	2.3	0.1
20830	Used books, clothing, furniture, & other used items not elsewhere classified	89	35,945	21.1	0.2
20850	All other merchandise	1,440	910,109	11.2	4.8

Continued on next page.

**Table 23.13-- PRODUCT LINE SALES FOR RETAIL TRADE (NAICS 44-45):
2012 -- Con.**

Products and services code	Meaning of products and services code	Number of establishments	Sales (\$1,000)	Line sales as % of sales of establishments with line	Line sales as % of total sales of NAICS
21100	Meals, unpackaged snacks, sandwiches, unpackaged ice cream & yogurt, bakery items, other food items & nonalcoholic bvg's prepared for immediate consumption	445	172,096	3.1	0.9
21220	Meals, snacks, & beverages prepared for catered events	89	51,622	2.1	0.3
29810	All other merchandise	636	112,561	1.9	0.6
29900	All nonmerchandise receipts	873	473,431	5.0	2.5

X Not applicable.

1/ Less than half the unit shown.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 44: Retail Trade: Subject Series - Product Lines: Product Lines Statistics by Kind of Business for the United States and States: 2012" (EC1244SLLS1) <<http://factfinder.census.gov>> accessed June 17, 2016.

**Table 23.14-- WHOLESALE TRADE ESTABLISHMENTS AND SALES
(NAICS 42): 1939 TO 2012**

[Statistics currently based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

Year	Number	Sales (\$1,000)	Year	Number	Sales (\$1,000)
1939	704	97,045	1982	1,737	4,084,369
1948	702	480,734	1987	1,998	5,362,490
1954	594	581,940	1992	2,202	8,001,621
1958	793	618,155	1997	1,872	7,147,462
1963	974	735,205	2002	1,876	9,986,355
1967	1,030	1,013,813	2007	1,844	12,672,267
1972	1,336	1,538,429	2012	1,751	13,466,008
1977	1,569	2,571,489			

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (1977), table 20.7; U.S. Census Bureau, *1977 Census of Wholesale Trade*, WC77-A-12 (Rev.), *1982 Census of Wholesale Trade*, WC82-A-12, *1987 Census of Wholesale Trade*, WC87-A-12, *1992 Census of Wholesale Trade*, WC92-A-12, *1997 Economic Census, Wholesale Trade, Hawaii*, EC97W42A-HI(RV) (March 2000), table1, *2002 Economic Census, Wholesale Trade, Geographic Area Series, Hawaii*, EC02-42A-HI (March 2005), table1a; *2007 Economic Census*, "Sector 42: Wholesale Trade, Geographic Area Series, Summary Statistics for the United States, States, Metro Areas, Counties, and Places: 2007" (EC0742A1) <<http://factfinder.census.gov>> accessed April 12, 2010; *2012 Economic Census*, "Sector 42: Wholesale Trade, Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1242A1) <<http://factfinder.census.gov>> accessed May 22, 2015.

**Table 23.15-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS
(NAICS 42), BY BROAD GEOGRAPHIC AREA: 2012**

[Includes establishments with payroll. Merchant wholesalers, except manufacturers' sales branches and offices. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Subject	State total	Oahu	Neighbor islands
Number of establishments	1,561	1,167	394
Sales (\$1,000)	9,607,982	8,052,799	1,555,183
Annual payroll (\$1,000)	724,517	596,874	127,643
First quarter payroll (\$1,000)	175,328	145,092	30,236
Paid employees for pay period including March 12 (number)	16,686	13,446	3,240
Operating expenses (\$1,000)	1,430,907	1,173,325	257,582
Inventories (\$1,000)			
Beginning of year	936,940	799,816	137,124
End of year	995,699	849,305	146,394

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 42: Wholesale Trade, Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1242A1) <<http://factfinder.census.gov>> accessed May 26, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 23.16-- WHOLESALE TRADE (NAICS 42), BY KIND OF BUSINESS: 2012

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS codes	Kind of business	Number of establishments	Sales (\$1,000)	Annual payroll (\$1000)	Number of employees 1/
42	Wholesale trade	1,751	13,466,008	844,540	18,761
4231	Motor vehicles and parts	55	642,691	38,170	818
4232	Furniture and home furnishings	58	136,694	19,601	439
4233	Lumber and other construction materials	74	377,075	32,060	641
4234	Commercial equipment	135	602,866	77,058	1,322
4235	Metals and minerals, except petroleum	23	104,522	9,887	202
4236	Electrical and electrical goods	104	511,356	50,599	828
4237	Hardware, and plumbing	82	438,736	42,609	702
4238	Machinery, equipment, and supplies	113	344,330	50,308	908
4239	Miscellaneous durable goods	182	331,695	43,883	1,252
4241	Paper and paper products	70	1,064,062	28,735	669
4242	Drugs and druggists' sundries	64	1,172,410	34,505	772
4243	Apparel, piece goods, and notions	95	138,777	21,029	652
4244	Grocery and related products	309	2,984,713	227,482	5,776
4245	Farm product raw materials	3	1,634	379	14
4246	Chemical and allied products	37	(D)	(D)	(2/)
4247	Petroleum and petroleum products	26	(D)	(D)	(2/)
4248	Beer, wine, and distilled alcoholic beverages	34	698,177	62,698	1,248
4249	Miscellaneous nondurable goods	184	(D)	(D)	(3/)
4251	Wholesale electronic markets and agents and brokers	103	901,175	19,789	477

D Withheld to avoid disclosing data for individual companies.

1/ For week including March 12.

2/ 250 to 499 employees.

3/ 1,000 to 2,499 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 42: Wholesale Trade, Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1242A1) <<http://factfinder.census.gov>> accessed May 27, 2015.

Table 23.17-- WHOLESALE TRADE (NAICS 42), BY COUNTY AND SELECTED PLACE: 2012

[Includes establishments with payroll. Merchant wholesalers, except manufacturers' sales and offices. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Hawaii	1,561	9,607,982	724,517	16,686
Hawaii County	178	(D)	(D)	(2/)
Hawaiian Paradise Park	2	(D)	(D)	(3/)
Hilo	71	328,057	31,409	839
Honaunau/Napoopoo	2	(D)	(D)	(3/)
Kailua	26	55,801	5,986	138
Kalaoa	22	96,548	8,841	218
Balance of Hawaii County 4/	55	(D)	(D)	(D)
Honolulu County	1,167	8,052,799	596,874	13,446
Aiea	10	15,547	1,659	48
East Honolulu	33	22,461	2,354	65
Ewa Beach	2	(D)	(D)	(3/)
Halawa	28	162,428	11,532	258
Haleiwa	3	9,907	359	20
Kahaluu	4	2,920	275	7
Kailua	17	21,389	2,769	62
Kaneohe	12	11,469	986	19
Kapolei	7	92,258	7,857	149
Laie	2	(D)	(D)	(5/)
Maili	2	(D)	(D)	(3/)
Makakilo	5	2,163	299	14
Mililani Mauka	5	(D)	(D)	(5/)
Mililani Town	9	2,862	495	16
Pearl City	38	261,860	19,264	463
Pupukea	2	(D)	(D)	(3/)
Urban Honolulu	782	5,712,767	399,801	9,002
Wahiawa	6	7,233	1,019	30
Waialua	3	1,024	209	11
Waimalu	10	51,941	5,871	125
Waimanalo	6	20,326	1,559	61
Waipahu	56	292,465	35,089	790
Waipio	27	383,578	33,430	741
Balance of Honolulu County 4/	98	(D)	(D)	(D)

Continued on next page.

Table 23.17-- WHOLESALE TRADE (NAICS 42), BY COUNTY AND SELECTED PLACE: 2012 -- Con.

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Kauai County	76	(D)	(D)	(6/)
Hanapepe	2	(D)	(D)	(3/)
Kalaheo	2	(D)	(D)	(3/)
Kapaa	11	20,715	1,862	80
Lihue	37	153,004	11,577	323
Puhi	14	73,164	7,221	138
Balance of Kauai County 4/	10	(D)	(D)	(D)
Maui County	140	714,580	50,414	1,141
Haiku-Pauwela	10	9,059	2,022	36
Kaanapali	2	(D)	(D)	(3/)
Kahului	52	513,480	31,802	637
Kaunakakai	4	6,015	470	8
Kihei	12	22,473	2,056	65
Kula	3	(D)	(D)	(5/)
Lahaina	5	(D)	(D)	(5/)
Lanai City	1	(D)	(D)	(3/)
Makawao	3	(D)	(D)	(3/)
Pukalani	5	(D)	(D)	(3/)
Waihee/Waiehu	2	(D)	(D)	(3/)
Wailuku	36	124,547	10,918	285
Balance of Maui County 4/	5	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ For week including March 12.

2/ 1,000 to 2,499 employees.

3/ 0 to 19 employees.

4/ This table displays fewer economic places within each county than the source document. Therefore, the balance of county figures were recalculated and differ from figures shown in the original source.

5/ 20 to 99 employees.

6/ 500 to 999 employees.

Source: U.S. Census Bureau, 2012 Economic Census, "Sector 42: Wholesale Trade: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1242A1) <<http://factfinder.census.gov>> accessed May 27, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 23.18-- PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES ESTABLISHMENTS (NAICS 54), BY COUNTY AND SELECTED PLACE: 2012

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
State total	3,226	3,334,059	1,265,631	21,629
Hawaii County	294	193,315	72,089	1,502
Captain Cook	3	(D)	(D)	(2/)
Hawaiian Paradise Park	3	(D)	(D)	(2/)
Hilo	101	79,436	30,978	653
Holualoa	10	1,170	365	17
Kahaluu-Keauhou	6	1,428	557	10
Kailua	62	27,010	9,806	233
Kalaoa	22	11,254	2,507	125
Waikoloa Village	8	1,440	498	20
Waimea	31	50,466	21,249	282
Balance of Hawaii County 3/	48	(D)	(D)	(D)
Honolulu County	2,399	2,895,066	1,105,443	18,234
Ahuimanu	7	990	374	10
Aiea	16	9,676	3,265	108
East Honolulu	110	33,806	12,233	282
Ewa Beach	3	(D)	(D)	(2/)
Ewa Gentry	3	(D)	(D)	(2/)
Halawa	16	5,884	2,270	42
Haleiwa	3	(D)	(D)	(2/)
Heeia	5	1,143	322	12
Hickam Housing	3	(D)	(D)	(4/)
Kahaluu	6	639	236	6
Kailua	96	(D)	(D)	(5/)
Kaneohe	51	28,938	11,140	299
Kaneohe Station	15	10,303	4,889	74
Kapolei	11	4,887	1,748	102
Laie	3	(D)	(D)	(4/)
Makakilo	7	1,675	461	15
Mililani Mauka	15	13,348	7,485	58
Mililani Town	18	6,220	2,534	81
Nanakuli	3	713	259	15
Ocean Pointe	6	2,642	763	40
Pearl City	36	27,585	10,307	224

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Table 23.18-- PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES ESTABLISHMENTS (NAICS 54), BY COUNTY AND SELECTED PLACE: 2012 -- Con.

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Honolulu County - Con.				
Pupukea	6	761	151	8
Royal Kunia	6	(D)	(D)	(4/)
Schofield Barracks	20	39,089	15,213	244
Urban Honolulu	1,709	2,414,461	914,628	14,263
Wahiawa	22	20,856	8,324	149
Waialua	3	1,300	432	15
Waianae	9	3,135	1,112	43
Waikele	3	481	127	15
Waimalu	24	20,599	9,853	193
Waimanalo	7	19,513	7,762	154
Waipahu	20	15,240	5,422	226
Waipio	15	9,977	5,539	121
West Loch	3	363	164	3
Balance of Honolulu County 3/	119	(D)	(D)	(D)
Kauai County	143	59,283	21,110	512
Kalaheo	9	2,450	727	32
Kapaa	17	3,581	974	49
Kekaha	7	6,490	2,223	33
Kilauea	14	1,575	371	16
Lihue	46	21,217	8,244	245
Puhi	5	2,824	1,490	29
Wailua Homesteads	7	3,199	1,034	39
Balance of Kauai County 3/	38	17,947	6,047	69
Maui County	390	186,395	66,989	1,381
Haiku-Pauwela	24	4,635	892	24
Kaanapali	9	4,708	1,295	41
Kahului	43	27,726	9,515	258
Kihei	51	44,605	19,721	258
Kula	29	7,451	2,689	60
Lahaina	21	7,122	1,646	80
Lanai City	2	(D)	(D)	(2/)
Makawao	13	3,568	987	25
Napili-Honokowai	4	969	293	4
Paia	11	2,070	506	14
Pukalani	13	2,243	895	37

Continued on next page.

Table 23.18-- PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES ESTABLISHMENTS (NAICS 54), BY COUNTY AND SELECTED PLACE: 2012 -- Con.

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Maui County - Con.				
Waikapu	3	276	98	2
Wailea	22	4,353	886	25
Wailuku	129	71,070	26,081	524
Balance of Maui County 3/	16	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ For week including March 12.

2/ 0 to 19 employees.

3/ This table displays fewer economic places within each county than the source document. Therefore, the balance of county figures were recalculated and differ from figures shown in the original source.

4/ 20 to 99 employees.

5/ 500 to 999 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 54: Professional, Scientific, and Technical Services: Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1254A1) <<http://factfinder.census.gov>> accessed June 3, 2015 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 23.19-- ADMINISTRATIVE AND SUPPORT AND WASTE MANAGEMENT AND REMEDIATION SERVICES ESTABLISHMENTS (NAICS 56), BY COUNTY AND SELECTED PLACE: 2012

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Geographic area	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
State total	1,799	2,893,771	1,355,113	47,307
Hawaii County	235	275,783	143,164	5,616
Hawaiian Paradise Park	3	(D)	(D)	(2/)
Hilo	62	73,968	40,185	1,669
Holualoa	12	10,193	2,949	89
Kahaluu-Keauhou	6	2,102	602	15
Kailua	41	(D)	(D)	(3/)
Kalaoa	28	39,926	18,817	727
Waikoloa Village	14	6,766	966	32
Waimea	15	4,029	1,464	40
Balance of Hawaii County 4/	54	(D)	(D)	(5/)
Honolulu County	1,169	2,203,990	1,022,281	34,800
Aiea	13	8,804	2,702	100
East Honolulu	50	(D)	(D)	(6/)
Ewa Beach	8	766	350	22
Ewa Gentry	9	(D)	(D)	(7/)
Halawa	19	31,435	6,957	187
Haleiwa	7	(D)	(D)	(7/)
Hauula	3	(D)	(D)	(2/)
Heeia	4	(D)	(D)	(7/)
Kahaluu	4	(D)	(D)	(2/)
Kahuku	3	845	279	11
Kailua	43	26,395	12,008	348
Kaneohe	28	11,673	3,606	186
Kaneohe Station	3	(D)	(D)	(7/)
Kapolei	12	9,534	5,486	297
Maili	4	83	49	2
Makaha	3	162	59	4
Makakilo	10	6,892	1,899	72
Mililani Mauka	11	4,040	1,392	67
Mililani Town	16	4,868	1,563	70
Nanakuli	5	(D)	(D)	(7/)
Pearl City	29	30,447	12,636	488
Pupukea	4	(D)	(D)	(7/)
Royal Kunia	8	(D)	(D)	(7/)

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Table 23.19-- ADMINISTRATIVE AND SUPPORT AND WASTE MANAGEMENT AND REMEDIATION SERVICES ESTABLISHMENTS (NAICS 56), BY COUNTY AND SELECTED PLACE: 2012 -- Con.

Geographic area	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Honolulu County - Con.				
Schofield Barracks	5	4,748	2,999	132
Urban Honolulu	706	1,539,531	717,840	25,562
Wahiawa	16	(D)	(D)	(5/)
Waianae	5	(D)	(D)	(7/)
Waimalu	17	27,150	11,915	423
Waimanalo	9	(D)	(D)	(8/)
Waipahu	32	40,924	12,895	572
Waipio	14	15,165	7,493	283
Waipio Acres	4	(D)	(D)	(7/)
Balance of Honolulu County 4/	65	(D)	(D)	(D)
Kauai County	124	110,789	52,290	1,990
Kapaa	11	(D)	(D)	(9/)
Kekaha	7	8,046	3,462	103
Kilauea	10	10,128	5,817	286
Lihue	23	26,119	8,427	366
Puhi	6	3,392	1,590	66
Wailua Homesteads	10	3,917	1,361	54
Balance of Kauai County 4/	57	(D)	(D)	(D)
Maui County	271	303,209	137,378	4,901
Haiku-Pauwela	18	5,880	1,698	54
Kaanapali	6	1,303	658	21
Kahului	53	97,251	56,866	2,052
Kaunakakai	3	1,439	143	11
Kihei	41	28,642	11,969	307
Kula	11	7,564	2,542	109
Lahaina	20	46,539	27,982	969
Lanai City	4	(D)	(D)	(7/)
Makawao	11	5,630	3,207	175
Napili-Honokowai	8	4,747	1,721	56
Paia	4	474	142	6
Pukalani	9	(D)	(D)	(8/)
Waihee/Waiehu	3	(D)	(D)	(2/)
Waikapu	3	538	150	7
Wailea	12	9,449	1,086	57
Wailuku	48	70,854	20,474	746
Balance of Maui County 4/	17	(D)	(D)	(D)

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Table 23.19-- ADMINISTRATIVE AND SUPPORT AND WASTE MANAGEMENT AND REMEDIATION SERVICES ESTABLISHMENTS (NAICS 56), BY COUNTY AND SELECTED PLACE: 2012 -- Con.

D Withheld to avoid disclosing data for individual companies.

1/ For week including March 12.

2/ 0 to 19 employees.

3/ 1,000 to 2,499 employees.

4/ This table displays fewer economic places within each county than the source document. Therefore, the balance of county figures were recalculated by DBEDT and differ from figures shown in the original source.

5/ 250 to 499 employees.

6/ 2,500 to 4,999 employees.

7/ 20 to 99 employees.

8/ 100 to 249 employees.

9/ 500 to 999 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 56: Administrative and Support and Waste Management and Remediation Services: Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1256A1) <<http://factfinder.census.gov>> accessed June 3, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 23.20-- EDUCATIONAL SERVICES ESTABLISHMENTS (NAICS 61),
BY COUNTY AND SELECTED PLACE: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American
Industry Classification System (NAICS)]

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
State total	347	158,389	51,088	2,410
Hawaii County	29	17,307	5,186	195
Hilo	7	1,080	340	36
Kahaluu-Keauhou	3	1,337	472	12
Kailua	9	7,940	2,323	87
Waimea	4	(D)	(D)	(2/)
Balance of Hawaii County 3/	6	(D)	(D)	(D)
Honolulu County	255	119,855	39,539	1,909
Ahuimanu	2	(D)	(D)	(4/)
Aiea	6	804	224	26
East Honolulu	9	806	269	14
Haleiwa	4	1,114	166	4
Kailua	7	3,081	1,532	39
Kaneohe	7	2,379	1,011	45
Kapolei	2	(D)	(D)	(4/)
Mililani Mauka	3	1,455	459	35
Mililani Town	4	522	143	22
Pearl City	3	798	255	25
Urban Honolulu	163	83,320	29,225	1,399
Wahiawa	6	659	161	34
Waimalu	9	3,020	889	70
Waipahu	6	853	325	32
Waipio	4	1,790	307	48
Balance of Honolulu County 3/	20	(D)	(D)	(D)
Kauai County	16	4,502	1,311	76
Kalaheo	2	(D)	(D)	(4/)
Kapaa	3	495	133	14
Lihue	4	831	277	18
Balance of Kauai County 3/	7	(D)	(D)	(D)

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**Table 23.20-- EDUCATIONAL SERVICES ESTABLISHMENTS (NAICS 61),
BY COUNTY AND SELECTED PLACE: 2012 -- Con.**

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Maui County	47	16,725	5,052	230
Haiku/Pauwela	2	(D)	(D)	(4/)
Kahului	10	2,106	738	39
Kihei	9	2,332	682	45
Lahaina	5	4,154	1,214	31
Makawao	4	3,031	726	27
Pukalani	3	139	37	3
Wailea	3	(D)	(D)	(2/)
Wailuku	3	(D)	(D)	(4/)
Balance of Maui County 3/	8	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ For week including March 12.

2/ 20 to 99 employees.

3/ This table displays fewer economic places within each county than the source document. Therefore, the balance of county figures were recalculated by DBEDT and differ from figures shown in the original source.

4/ 0 to 19 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 61: Educational Services: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1261A1) <<http://factfinder.census.gov>> accessed June 3, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 23.21-- ARTS, ENTERTAINMENT, AND RECREATION
ESTABLISHMENTS (NAICS 71), BY COUNTY AND
SELECTED PLACE: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American
Industry Classification System (NAICS)]

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
State total	495	843,628	249,168	10,623
Hawaii County	69	89,358	29,355	1,149
Captain Cook	3	726	282	22
Hilo	11	6,874	1,930	144
Kailua	12	38,708	15,609	538
Waikoloa Village	3	(D)	(D)	(2/)
Waimea	4	464	197	11
Balance of Hawaii County 3/	36	(D)	(D)	(D)
Honolulu County	259	537,106	145,031	6,495
Aiea	4	(D)	(D)	(4/)
East Honolulu	14	32,847	10,313	434
Halawa	4	(D)	(D)	(4/)
Kahaluu	3	(D)	(D)	(5/)
Kailua	13	14,292	4,601	194
Kaneohe	14	13,766	3,553	236
Kapolei	9	20,606	4,609	266
Laie	2	(D)	(D)	(6/)
Mililani Town	3	8,793	1,800	119
Pearl City	3	11,922	2,452	146
Pupukea	6	7,997	2,437	67
Urban Honolulu	137	224,074	59,976	2,747
Wahiawa	3	(D)	(D)	(5/)
Waimalu	4	10,509	2,948	165
Waimanalo Beach	2	(D)	(D)	(5/)
Waipahu	4	(D)	(D)	(4/)
Balance of Honolulu County 3/	34	(D)	(D)	(D)
Kauai County	47	76,112	27,163	951
Hanapepe	3	1,067	178	10
Kalaheo	3	(D)	(D)	(2/)
Kapaa	4	(D)	(D)	(4/)
Lihue	12	13,814	5,918	242
Balance of Kauai County 3/	25	(D)	(D)	(D)

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**Table 23.21-- ARTS, ENTERTAINMENT, AND RECREATION
ESTABLISHMENTS (NAICS 71), BY COUNTY AND
SELECTED PLACE: 2012 -- Con.**

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Maui County	120	141,052	47,619	2,028
Haiku-Pauwela	9	3,486	1,100	39
Kaanapali	5	(D)	(D)	(2/)
Kahului	13	19,370	6,839	478
Kaunakakai	1	(D)	(D)	(5/)
Kihei	14	9,403	3,539	185
Kula	7	2,875	398	16
Lahaina	14	(D)	(D)	(7/)
Makawao	3	1,123	326	28
Napili/Honokowai	3	(D)	(D)	(5/)
Pukalani	9	(D)	(D)	(2/)
Wailea	11	17,128	4,622	134
Wailuku	9	4,494	1,660	85
Balance of Maui County 3/	22	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ For week including March 12.

2/ 100 to 249 employees.

3/ This table displays fewer economic places within each county than the source document. Therefore, the balance of county figures were recalculated by DBEDT and differ from figures shown in the original source.

4/ 20 to 99 employees.

5/ 0 to 19 employees.

6/ 500 to 999 employees.

7/ 250 to 499 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 71: Arts, Entertainment, and Recreation: Geographic Area Series: U.S., States, Metro Areas, Counties, and Places: 2012" (EC1271A1) <<http://factfinder.census.gov>> accessed June 3, 2015 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 23.22-- OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)
ESTABLISHMENTS (NAICS 81), BY COUNTY AND SELECTED
PLACE: 2012**

[Includes establishments with payroll. Statistics based on the 2012
North American Industry Classification System (NAICS)]

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
State total	2,808	2,004,775	538,698	19,348
Hawaii County	288	166,086	41,012	1,387
Hilo	96	57,096	11,261	464
Holualoa	16	(D)	(D)	(2/)
Honaunau/Napoopoo	3	(D)	(D)	(3/)
Kahaluu/Keauhou	16	5,327	1,118	35
Kailua	59	39,556	11,825	391
Kalaoa	9	3,562	749	38
Waikoloa Village	14	7,219	1,653	45
Waimea	15	7,941	1,595	47
Balance of Hawaii County 4/	60	(D)	(D)	(D)
Honolulu County	2,012	1,522,364	411,766	14,967
Ahuimanu	4	1,269	348	18
Aiea	26	9,437	2,828	149
East Honolulu	49	28,220	6,222	252
Ewa Beach	13	(D)	(D)	(2/)
Ewa Gentry	6	(D)	(D)	(2/)
Halawa	18	12,279	3,335	145
Haleiwa	6	1,089	348	13
Hickam Housing	3	(D)	(D)	(2/)
Kailua	65	35,683	9,037	440
Kaneohe	67	32,883	9,885	352
Kaneohe Station	5	(D)	(D)	(3/)
Kapolei	20	12,322	4,063	164
Makaha	5	5,847	1,727	70
Makakilo	11	(D)	(D)	(2/)
Mililani Mauka	11	5,246	1,206	47
Mililani Town	32	19,520	7,371	480
Nanakuli	7	895	206	17
Ocean Pointe	5	2,202	514	20
Pearl City	61	33,131	8,690	292
Royal Kunia	8	2,290	380	33
Urban Honolulu	1,346	1,130,500	302,607	10,410
Wahiawa	25	11,396	3,045	146

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**Table 23.22-- OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)
ESTABLISHMENTS (NAICS 81), BY COUNTY AND SELECTED
PLACE: 2012 -- Con.**

Geographic area	Number of establishments	Receipts/ revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
Honolulu County - con.				
Waianae	8	(D)	(D)	(2/)
Waimalu	40	37,990	10,525	363
Waimanalo	5	(D)	(D)	(3/)
Waipahu	70	35,325	9,722	474
Waipio	19	16,741	4,381	133
Waipio Acres	5	3,477	454	19
West Loch Estate	3	697	194	7
Balance of Honolulu County 4/	69	(D)	(D)	(D)
Kauai County	125	78,197	23,881	809
Kalaheo	3	(D)	(D)	(3/)
Kapaa	15	11,443	3,531	113
Lihue	40	25,626	8,247	280
Puhi	7	(D)	(D)	(2/)
Balance of Kauai County 4/	60	(D)	(D)	(D)
Maui County	383	238,128	62,039	2,185
Haiku-Pauwela	7	1,400	465	21
Kaanapali	18	24,627	5,144	149
Kahului	60	43,119	12,823	501
Kaunakakai	7	5,445	1,815	54
Kihei	71	29,979	7,453	270
Kula	9	1,690	479	17
Lahaina	45	22,246	1,707	191
Lanai City	1	(D)	(D)	(3/)
Makawao	5	(D)	(D)	(3/)
Napili-Honokawai	21	(D)	(D)	(2/)
Pukalani	9	(D)	(D)	(2/)
Waihee/Waiehu	3	(D)	(D)	(2/)
Wailea	31	35,203	9,175	274
Wailuku	59	31,796	7,650	273
Balance of Maui County 4/	37	(D)	(D)	(D)

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**Table 23.22-- OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)
ESTABLISHMENTS (NAICS 81), BY COUNTY AND SELECTED
PLACE: 2012 -- Con.**

D Withheld to avoid disclosing data for individual companies.

1/ For week including March 12.

2/ 20 to 99 employees.

3/ 0 to 19 employees.

4/ This table displays fewer economic places within each county than the source document. Therefore, the balance of county figures were recalculated by DBEDT and differ from figures shown in the original source.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 81: Other Services (Except Public Administration): Geographic Area Series: U.S., States, Metro Areas, Counties, and Places: 2012" (EC1281A1) <<http://factfinder.census.gov>> accessed June 3, 2015; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 23.23-- PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES ESTABLISHMENTS (NAICS 54), BY TYPE OF OPERATION OR KIND OF BUSINESS: 2012

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Type of operation or kind of business	Number of establishments	Receipts/revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
	Subject to Federal Income Tax				
54	Professional, scientific, and technical services	3,188	3,229,357	1,225,011	20,998
541	Professional, scientific, and technical services	3,188	3,229,357	1,225,011	20,998
5411	Legal services	668	(D)	(D)	(2/)
5412	Accounting, tax preparation, bookkeeping, and payroll services	618	299,122	126,367	3,385
5413	Architectural, engineering, and related services	549	1,057,649	382,804	5,251
5414	Specialized design services	98	45,774	10,480	256
5415	Computer systems design and related services	389	464,803	200,373	2,847
5416	Management, scientific, and technical consulting services	383	327,642	123,926	2,049
5417	Scientific research and development services	75	115,997	58,672	770
5418	Advertising, public relations, and related services	126	99,215	33,879	1,008
5419	Other professional, scientific, and technical services	282	(D)	(D)	(3/)
	Exempt from Federal Income Tax				
54	Professional, scientific, and technical services	38	104,702	40,620	631
541	Professional, scientific, and technical services	38	104,702	40,620	631
5411	Legal services	17	12,124	5,698	144
5417	Scientific research and development services	21	92,578	34,922	487

Continued on next page.

**Table 23.23-- PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES
ESTABLISHMENTS (NAICS 54), BY TYPE OF OPERATION
OR KIND OF BUSINESS: 2012 -- Con.**

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ For week including March 12.

2/ 2,500 to 4,999 employees.

3/ 1,000 to 2,499 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 54: Professional, Scientific, and Technical Services: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1254A1) <<http://factfinder.census.gov>> accessed May 29, 2015.

Table 23.24-- ADMINISTRATIVE AND SUPPORT AND WASTE MANAGEMENT AND REMEDIATION SERVICES ESTABLISHMENTS (NAICS 56), BY KIND OF BUSINESS: 2012

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Kind of business	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
56	Administrative and support and waste management and remediation services	1,799	2,893,771	1,355,113	47,307
561	Administrative and support services	1,663	2,543,083	1,267,472	45,401
5611	Office administrative services	55	79,867	29,717	677
5612	Facilities support services	32	58,870	29,302	879
5613	Employment services	141	859,261	628,191	21,757
5614	Business support services	105	59,280	17,626	757
5615	Travel arrangement and reservation services	395	587,493	147,143	3,836
5616	Investigation and security services	158	249,170	153,277	6,588
5617	Services to buildings and dwellings	706	566,245	240,156	10,171
5619	Other support services	71	82,897	22,060	736
562	Waste management and remediation services	136	350,688	87,641	1,906
5621	Waste collection	37	128,390	27,602	704
5622	Waste treatment and disposal	16	114,262	23,651	301
5629	Remediation and other waste management services	83	108,036	36,388	901

1/ For week including March 12.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 56: Administrative and Support and Waste Management and Remediation Services: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1256A1) <<http://factfinder.census.gov>> accessed June 1, 2015.

**Table 23.25-- EDUCATIONAL SERVICES ESTABLISHMENTS (NAICS 61),
BY TYPE OF OPERATION OR KIND OF BUSINESS: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Type of operation or kind of business	Number of establishments	Receipts/revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
	Subject to Federal Income Tax				
61	Educational services	274	121,724	37,201	1,877
611	Educational services	274	121,724	37,201	1,877
6114	Business schools and computer and management training	25	10,578	4,477	130
6115	Technical and trade schools	33	19,570	5,694	185
6116	Other schools and instruction	202	84,890	24,465	1,492
6117	Educational support services	14	6,686	2,565	70
	Exempt from Federal Income Tax				
61	Educational services	73	36,665	13,887	533
611	Educational services	73	36,665	13,887	533
6114	Business schools and computer and management training	5	772	348	15
6115	Technical and trade schools	12	8,898	3,264	87
6116	Other schools and instruction	47	16,814	5,864	342
6117	Educational support services	9	10,181	4,411	89

1/ For week including March 12.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 61: Educational Services: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1261A1) <<http://factfinder.census.gov>> accessed June 1, 2015.

**Table 23.26-- ARTS, ENTERTAINMENT, AND RECREATION ESTABLISHMENTS
(NAICS 71), BY TYPE OF OPERATION OR KIND OF BUSINESS: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Type of operation or kind of business	Number of establishments	Receipts/revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
	Subject to Federal Income Tax				
71	Arts, entertainment, and recreation	398	571,145	168,184	7,327
711	Performing arts, spectator sports, and related industries	133	128,322	37,878	1,581
7111	Performing arts companies	32	(D)	(D)	(2/)
7112	Spectator sports	12	4,489	779	16
7113	Promoters of performing arts, sports, and similar events	12	(D)	(D)	(3/)
7114	Agents and managers for public figures	8	5,768	391	17
7115	Independent artists, writers, and performers	69	17,716	4,126	125
712	Museums, historical sites, and similar institutions	10	49,495	11,555	465
7121	Museums, historical sites, and similar institutions	10	49,495	11,555	465
713	Amusement, gambling, and recreation industries	255	393,328	118,751	5,281
7131	Amusement parks and arcades	25	30,017	5,741	259
7139	Other amusement and recreation services	230	363,311	113,010	5,022
	Exempt from Federal Income Tax				
71	Arts, entertainment, and recreation	97	272,483	80,984	3,296
711	Performing arts, spectator sports, and related industries	23	28,294	9,028	508
7111	Performing arts companies	18	(D)	(D)	(4/)
7113	Promoters of performing arts, sports, and similar events	5	(D)	(D)	(3/)

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Table 23.26-- ARTS, ENTERTAINMENT, AND RECREATION ESTABLISHMENTS (NAICS 71), BY TYPE OF OPERATION OR KIND OF BUSINESS: 2012 -- Con.

NAICS code	Type of operation or kind of business	Number of establishments	Receipts/revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
712	Museums, historical sites, and similar institutions	43	167,043	46,162	1,735
7121	Museums, historical sites, and similar institutions	43	167,043	16,162	1,735
713	Amusement, gambling, and recreation industries	31	77,146	25,794	1,053
7139	Other amusement and recreation services	31	77,146	25,794	1,053

D Withheld to avoid disclosing data of individual companies.

1/ For week including March 12.

2/ 1,000 to 2,499 employees.

3/ 100 to 249 employees.

4/ 250 to 499 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 71: Arts, Entertainment, and Recreation: Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1271A1) <<http://factfinder.census.gov>> accessed June 1, 2015.

**Table 23.27-- OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION)
ESTABLISHMENTS (NAICS 81), BY TYPE OF OPERATION OR KIND OF
BUSINESS: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS code	Type of operation or kind of business	Number of establishments	Receipts/revenue (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
	Firms Subject to Federal Income Tax				
81	Other services (except public admin.)	1,519	877,528	278,979	11,014
811	Repair and maintenance	657	378,279	110,707	3,202
8111	Automotive repair and maintenance	473	302,023	85,022	2,507
8112	Electronic and precision equipment repair and maintenance	40	14,115	5,599	145
8113	Commercial machinery repair and maintenance	60	39,012	13,150	295
8114	Personal and household goods repair and maintenance	84	23,129	6,936	255
812	Personal and laundry services	862	499,249	168,272	7,812
8121	Personal care services	462	145,554	58,767	3,030
8122	Death care services	34	47,694	14,298	538
8123	Drycleaning and laundry services	92	139,609	46,785	1,945
8129	Other personal services	274	166,392	48,422	2,299
	Firms Exempt from Federal Income Tax				
81	Other services (except public admin.)	1,289	1,127,247	259,719	8,334
813	Religious/grantmaking/civic/professional and similar organization	1,289	1,127,247	259,719	8,334
8132	Grantmaking and giving services	78	195,649	30,209	694
8133	Social advocacy organizations	93	121,533	35,695	846
8134	Civic and social organizations	88	69,644	26,635	1,487
8139	Professional and similar organizations	1,030	740,421	167,180	5,307

1/ For week including March 12.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 81: Other Services (Except Public Administration): Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties and Places: 2012" (EC1281A1) <<http://factfinder.census.gov>> accessed June 2, 2015.

**Table 23.28-- TRAVEL ARRANGEMENT AND RESERVATION SERVICES
ESTABLISHMENTS (NAICS 5615), BY KIND OF BUSINESS: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American
Industry Classification System (NAICS)]

NAICS code	Kind of business	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
5615	Travel arrangement and reservation services	395	587,493	147,143	3,836
56151	Travel agencies	176	173,650	53,043	1,358
56152	Tour operators	156	288,329	54,269	1,646
56159	Other travel arrangement & reservation services 2/	63	125,514	39,831	832

1/ For week including March 12.

2/ Includes convention & visitors bureaus (NAICS 561591; 10 establishments). Excludes convention and trade show organizers (NAICS 56192; 23 establishments).

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 56: Administrative and Support and Waste Management and Remediation Services, Geographic Area Series, Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1256A1) <<http://factfinder.census.gov>> accessed June 22, 2015.

**Table 23.29-- ACCOMMODATION AND FOOD SERVICES ESTABLISHMENTS
(NAICS 72), BY COUNTY AND SELECTED PLACE: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1000)	Number of employees 1/
State total	3,518	9,536,706	2,535,950	98,364
Hawaii County	430	1,124,494	324,743	12,297
Captain Cook	5	(D)	(D)	(2/)
Hilo	146	133,782	33,243	2,239
Holualoa	11	(D)	(D)	(3/)
Kahaluu-Keauhou	18	88,700	28,737	1,089
Kailua	103	382,777	95,755	3,508
Kalaoa	3	(D)	(D)	(2/)
Volcano	5	4,464	1,242	77
Waikoloa Village	14	(D)	(D)	(4/)
Waimea	26	22,466	6,235	362
Balance of Hawaii County 5/	99	(D)	(D)	(D)
Honolulu County	2,355	5,273,221	1,333,021	57,486
Ahuimanu	7	6,707	1,210	93
Aiea	42	34,939	8,969	567
East Honolulu	65	(D)	(D)	(6/)
Ewa Beach	10	10,021	2,218	172
Ewa Gentry	7	5,604	1,414	104
Halawa	12	11,740	2,714	160
Haleiwa	23	33,591	8,092	494
Kailua	86	81,291	20,913	1,446
Kaneohe	74	76,836	17,457	1,140
Kapolei	33	58,742	14,642	915
Laie	8	(D)	(D)	(3/)
Makakilo	4	671	220	13
Mililani Mauka	6	6,348	1,297	87
Mililani Town	41	60,130	15,025	1,055
Nanakuli	6	6,205	1,447	134
Ocean Pointe	16	15,919	3,678	268
Pearl City	74	79,707	19,277	1,346
Pupukea	6	(D)	(D)	(2/)
Royal Kunia	18	13,992	3,019	223
Urban Honolulu	1,471	3,943,956	955,430	38,426
Wahiawa	44	44,497	11,549	704
Waianae	24	20,713	4,540	353

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**Table 23.29-- ACCOMMODATION AND FOOD SERVICES ESTABLISHMENTS
(NAICS 72), BY COUNTY AND SELECTED PLACE: 2012 -- Con.**

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1000)	Number of employees 1/
Honolulu County - con.				
Waikele	14	24,763	6,239	424
Waimalu	70	91,316	23,950	1,480
Waimanalo	6	3,570	661	53
Waimanalo Beach	4	2,946	684	54
Waipahu	77	64,518	15,016	1,007
Waipio	15	29,426	7,541	492
Balance of Honolulu County 5/	92	(D)	(D)	(D)
Kauai County	234	831,487	252,470	8,638
Hanapepe	4	765	75	6
Kalaheo	6	(D)	(D)	(2/)
Kapaa	39	52,758	10,855	619
Kekaha	3	(D)	(D)	(2/)
Kilauea	4	4,532	1,192	104
Lihue	57	143,312	48,092	1,876
Wailua Homesteads	4	321	75	5
Balance of Kauai County 5/	117	(D)	(D)	(D)
Maui County	499	2,307,504	625,716	19,943
Haiku/Pauwela	4	3,625	1,152	75
Kaanapali	49	718,764	160,067	3,870
Kahului	84	123,307	31,165	1,703
Kaunakakai	8	(D)	(D)	(3/)
Kihei	91	136,593	35,137	1,622
Kula	5	4,945	1,297	82
Lahaina	93	343,924	105,653	3,748
Lanai City	9	(D)	(D)	(7/)
Makawao	10	10,293	4,058	265
Napili/Honokowai	17	55,210	7,734	289
Paia	16	38,935	12,599	509
Pukalani	7	7,026	1,310	123
Wailea	31	554,353	161,090	4,349
Wailuku	47	28,023	7,098	438
Balance of Maui County 5/	28	(D)	(D)	(D)

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**Table 23.29-- ACCOMMODATION AND FOOD SERVICES ESTABLISHMENTS
(NAICS 72), BY COUNTY AND SELECTED PLACE: 2012 -- Con.**

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ For week including March 12.

2/ 20 to 99 employees.

3/ 100 to 249 employees.

4/ 250 to 499 employees.

5/ This table displays fewer economic places within each county than the source document. Therefore, the balance of county figures were recalculated by DBEDT and differ from figures shown in the original source.

6/ 1,000 to 2,499 employees.

7/ 500 to 999 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 72: Accommodation and Food Services, Geographic Area Series: Summary Statistics for the United States, States, Metro Areas, Counties, and Places: 2012" (EC1272A1) <<http://factfinder.census.gov>> accessed June 10, 2015 and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 23.30-- ACCOMMODATION AND FOOD SERVICES ESTABLISHMENTS
(NAICS 72), BY KIND OF BUSINESS: 2012**

[Includes establishments with payroll. Statistics based on the 2012 North American Industry Classification System (NAICS)]

NAICS codes	Kind of business	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Number of employees 1/
72	Accommodation and food services	3,518	9,536,706	2,535,950	98,364
721	Accommodation	309	5,738,872	1,529,385	38,426
7211	Traveler accommodation	300	5,735,924	1,528,665	38,393
72111	Hotels (except casino hotels) and motels	260	5,722,307	1,525,390	38,221
72119	Other traveler accommodation	40	13,617	3,275	172
721191	Bed-and-breakfast inns	20	4,196	1,417	73
721199	All other traveler accommodation	20	9,421	1,858	99
7212	RV (recreational vehicle) parks and recreational camps	4	(D)	(D)	(2/)
7213	Rooming and boarding houses	5	(D)	(D)	(2/)
722	Food services and drinking places	3,209	3,797,834	1,006,565	59,938
7223	Special food services	140	287,277	69,896	3,085
72231	Food service contractors	75	244,449	60,037	2,567
72232	Caterers	39	30,394	7,839	410
72233	Mobile food services	26	12,434	2,020	108
7224	Drinking places (alcoholic beverages)	228	120,448	26,169	1,830
7225	Restaurants and other eating places	2,841	3,390,109	910,500	55,023
72251	Restaurants and other eating places	2,841	3,390,109	910,500	55,023
722511	Full-service restaurants	1,204	1,968,924	595,675	32,893
722513	Limited-service restaurants	1,259	1,162,683	256,867	17,989
722514	Cafeterias, grill buffets, and buffets	12	(D)	(D)	(3/)
722515	Snack & nonalcoholic beverage bars	366	(D)	(D)	(4/)

D Withheld to avoid disclosing data of individual companies; data are included in higher level totals.

1/ For week including March 12.

2/ 0 to 19 employees.

3/ 250 to 499 employees.

4/ 2,500 to 4,999 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 72: Accommodation and Food Services, Geographic Area Series: Summary Statistics for the U.S., States, Metro Areas, Counties, and Places: 2012" (EC1272A1) <<http://factfinder.census.gov>> accessed June 12, 2015.

Table 23.31-- PRODUCT LINE SALES FOR ACCOMMODATION AND FOOD SERVICES (NAICS 72): 2012

Products and services code	Meaning of products and services code	Number of establishments	Sales (\$1,000)	Line sales as % of sales of establishments with line	Line sales as % of total sales of NAICS
20000	Industry total	3,209	3,797,834	(X)	100.0
20070	Room or unit accommodation for travelers and others	6	3,403	8.4	0.1
20100	Groceries & other foods for human consumption off the premises	144	7,894	5.0	0.2
20130	Alcoholic beverages served for immediate consumption	1,116	424,294	23.8	11.2
20140	Packaged liquor, wine, & beer	17	655	4.2	(1/)
20150	Cigars, etc & smokers' accessories, excl sales from vending machines operated by others	22	348	1.7	(1/)
20850	All other merchandise	323	19,687	3.1	0.5
21100	Meals, snacks & nonalcoholic bvgvs prepared for immediate consumption	3,063	3,023,612	85.6	79.6
21210	Meals, snacks & nonalcoholic bvgvs prepared under long-term contract	79	201,985	81.0	5.3
21220	Meals, snacks & nonalcoholic bvgvs prepared for catered event	397	80,820	16.5	2.1
29600	Other services	156	23,838	8.6	0.6
29810	All other merchandise	68	9,146	5.4	0.2

X Not applicable.

1/ Less than half the unit shown.

Source: U.S. Census Bureau, *2012 Economic Census*, "Sector 72: Accommodation and Food Services: Subject Series - Product Lines: Product Lines Statistics by Kind of Business for the United States and States: 2012" (EC1272SLLS1) <<http://factfinder.census.gov>> accessed June 22, 2016.

Table 23.32-- VISITOR ACCOMMODATIONS, BY COUNTY: 1981 TO 2017

[Number of units]

Year	State total	City & County of Honolulu	Hawaii County	Kauai County	Maui County
1981	56,769	33,967	6,705	4,738	11,359
1982	57,968	33,492	7,167	5,147	12,162
1983	58,765	34,354	7,469	4,193	12,749
1984	62,448	36,848	7,149	5,313	13,138
1985	65,919	38,600	7,511	5,656	14,152
1986	66,308	39,010	7,280	5,922	14,096
1987	65,318	38,185	7,328	5,956	13,849
1988	69,012	37,841	8,823	7,180	15,168
1989	67,734	36,467	8,161	7,398	15,708
1990	71,266	36,899	8,952	7,546	17,869
1991	72,275	36,623	9,383	7,567	18,702
1992	73,089	36,851	9,170	7,778	19,290
1993	69,502	36,604	9,140	4,631	19,127
1994	70,463	36,194	9,595	5,870	18,804
1995	(NA)	(NA)	(NA)	(NA)	(NA)
1996	70,288	36,146	9,558	6,760	17,824
1997	71,025	35,971	9,913	6,589	18,552
1998	71,480	36,206	9,655	6,969	18,650
1999	71,157	35,861	9,815	6,872	18,609
2000	71,506	36,303	9,774	7,159	18,270
2001	72,204	36,824	9,944	7,202	18,234
2002	70,783	36,457	9,297	7,037	17,992
2003	70,579	35,541	9,478	7,257	18,303
2004	72,176	35,769	9,857	8,105	18,445
2005	72,307	33,926	10,940	8,221	19,220
2006	72,274	33,606	10,831	8,266	19,571
2007	73,220	33,588	11,061	8,692	19,879
2008	74,177	34,081	11,240	9,203	19,653
2009	75,188	34,027	11,541	9,469	20,151
2010	74,988	33,782	11,479	9,344	20,383
2011	77,731	35,001	11,113	9,872	21,745
2012	74,650	35,326	10,594	8,289	20,441
2013	73,959	35,690	10,903	8,675	18,691
2014	73,716	35,864	10,666	8,492	18,694
2015	77,138	36,058	11,085	8,582	21,413
2016	79,092	37,400	11,349	8,444	21,899
2017	80,336	38,508	11,284	8,821	21,723

NA Not available.

Source: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *Visitor Plant Inventory* (annual) <<http://hawaii.gov/dbedt/info/visitor-stats/visitor-plant/>>; Hawaii Tourism Authority, *Visitor Plant Inventory* (annual) <<http://www.hawaiitourismauthority.org/research/reports/visitor-plant-inventory/>> accessed May 9, 2018.

Table 23.33-- VISITOR ACCOMMODATIONS, BY TYPE: 1987 TO 2017

Year and month	Properties			Units		
	Total	Hotels 1/	Condo-miniums 2/	Total	Hotels 1/	Condo-miniums 2/
1987: Feb.	510	196	314	66,318	43,422	21,896
1988: Feb.	481	203	278	69,012	47,892	21,120
1989: Feb.	452	197	255	67,734	48,894	18,840
1990: Feb.	533	264	269	71,266	52,438	18,828
1991: Feb.	595	313	282	72,275	52,688	19,587
1992: Spring	664	374	295	73,089	51,134	21,955
1993: June	698	406	292	69,502	49,111	20,391
1994: Dec.	692	397	295	70,463	49,436	21,027
1995	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1996: May	770	472	298	70,288	49,737	20,551
1997: Spring	821	607	214	71,025	53,735	17,290
1998	882	669	213	71,480	54,055	17,425
1999	832	620	212	71,157	53,954	17,203
2000	873	668	205	71,506	54,859	16,647
2001	914	712	202	72,204	56,021	16,183
2002	860	661	199	70,783	55,052	15,731
2003 3/	1,057	837	220	70,742	54,209	16,533
2004 3/	1,209	970	239	72,614	58,716	13,898
2005 3/	1,266	1,035	231	73,126	57,879	15,247
2006	1,281	1,046	235	72,274	54,800	17,474
2007	1,777	1,605	172	73,220	58,334	14,886
2008	1,697	1,481	216	74,177	57,777	16,400
2009	1,615	1,434	181	75,188	60,757	14,431
2010	1,805	1,632	173	74,988	60,462	14,526
2011	1,974	1,853	121	77,731	65,211	12,520
2012	1,792	1,658	134	74,650	62,462	12,188
2013	1,931	1,832	99	73,959	62,475	11,484
2014	1,700	1,604	96	73,716	63,156	10,560
2015	2,165	2,041	124	77,138	66,196	10,942
2016	1,712	1,595	117	79,092	68,174	10,918
2017	1,635	1,517	118	80,336	69,461	10,875

NA Not available.

1/ Includes hotels, apartment hotels, bed-and-breakfasts, hostels, Individual vacation units and timeshares. Properties with both condo and hotel units are included with condominiums in 1990 and later years; treatment before 1990 not specified.

2/ Condominium accommodations in rental pools for transient use. Includes condo/hotel units.

3/ Data have been revised, but revised numbers are not available.

Source: Hawaii Visitors & Convention Bureau, *Visitor Plant Inventory*; Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *Visitor Plant Inventory* (annual) <<http://hawaii.gov/dbedt/info/visitor-stats/visitor-plant/>>; Hawaii Tourism Authority, *Visitor Plant Inventory* (annual) <<http://www.hawaii-tourismauthority.org/research/reports/visitor-plant-inventory/>> accessed May 9, 2018.

Table 23.34-- VISITOR ACCOMMODATIONS, BY TYPE AND BY ISLAND: 2017

Island	Properties			Units		
	Total	Hotels 1/	Condo-miniums 2/	Total	Hotels 1/	Condo-miniums 2/
State total	1,635	1,517	118	80,336	69,461	10,875
Oahu	281	251	30	38,508	34,262	4,246
Waikiki/Honolulu	166	140	26	30,789	27,906	2,883
Rest of Oahu	115	111	4	7,719	6,356	1,363
Other islands	1,354	1,266	88	41,828	35,199	6,629
Hawaii	480	467	13	11,284	10,785	499
Maui	478	426	52	21,250	16,848	4,402
Lanai	4	4	-	229	229	-
Molokai	23	21	2	244	173	71
Kauai	369	348	21	8,821	7,164	1,657

1/ Includes hotels, apartment hotels, bed-and-breakfasts, hostels, individual vacation units and timeshares. Properties with both condo and hotel units are included with condominiums.

2/ Condominium accommodations in rental pools for transient use. Includes condo/hotel units.

Source: Hawaii Tourism Authority, *Visitor Plant Inventory* (2017)

<<http://www.hawaiitourismauthority.org/research/reports/visitor-plant-inventory/>> accessed May 9, 2018; and calculations by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 23.35-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA:
2017**

Type of accommodation	Properties			Units		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All types	1,635	281	1,354	80,336	38,508	41,828
Apartment-hotel	4	2	2	101	50	51
Bed and breakfast	134	24	110	507	47	460
Condominium hotel	118	30	88	10,875	4,246	6,629
Hostels	12	6	6	311	239	72
Hotel	153	71	82	44,431	27,102	17,329
Individual vacation units	1,123	128	995	12,659	3,270	9,389
Timeshare	73	16	57	11,062	3,329	7,733
Other	18	4	14	390	225	165

Source: Hawaii Tourism Authority, *Visitor Plant Inventory* (2017)
<<http://www.hawaiitourismauthority.org/research/reports/visitor-plant-inventory/>> accessed May 9, 2018;
and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 23.36-- HOTELS AND OTHER LODGING PLACES (NAICS 721),
BY COUNTY: 2010 TO 2016**

[Statistics based on the North American Industry Classification System (NAICS)]

County	2010	2011	2012	2013	2014	2015	2016
State total	294	295	307	326	306	312	341
Hawaii	61	61	60	69	65	65	65
Honolulu	98	100	108	107	104	114	120
Kauai	43	46	49	54	47	46	54
Maui	92	88	90	96	90	87	102

Source: U.S. Census Bureau, *County Business Patterns, Hawaii* (annual)
<<http://factfinder.census.gov/>> accessed May 9, 2018.

Table 23.37-- VISITOR ACCOMMODATIONS, BY NIGHTLY PRICE: 2017

[Based on a sample of 47,233 units (58.8 percent of the total units in 2017) for which information on the class of units was available. Figures may not add up to totals due to rounding in original source]

Island and type of accommodation	Total	\$100 or less	\$101 to \$250	\$251 to \$500	Over \$500
Available units	80,336	2,731	19,281	29,644	28,680
Island					
Oahu	38,508	886	9,781	16,520	11,321
Hawaii	11,284	1,083	2,223	4,683	3,295
Kauai	8,821	370	3,158	1,808	3,484
Maui	21,250	319	4,016	5,504	11,411
Molokai	244	18	215	9	3
Lanai	229	-	6	9	214
Type of unit					
Apartment/hotel	101	34	62	4	-
Bed and breakfast	507	89	360	55	2
Condominium hotel	10,875	250	4,198	4,655	1,773
Hostel	311	295	16	-	-
Hotel	44,431	977	8,397	18,483	16,573
Individual vacation unit	12,659	2,139	6,216	2,418	1,874
Timeshare	11,062	144	2,942	918	7,058
Other	390	160	208	14	9

Source: Hawaii Tourism Authority, *Visitor Plant Inventory* (2017)
 <<http://www.hawaii tourism authority.org/research/reports/visitor-plant-inventory/>> accessed May 9, 2018.
 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 23.38-- HOTEL UNITS, OCCUPANCY RATES, AND DAILY ROOM AND GUEST RATES: 1989 TO 2017

[Includes condominium units in rental pools for transient occupancy]

Year	Hotel units 1/			Percent occupied 2/	Daily rate per room 2/ (dollars)	Guests per room 3/
	State total	Oahu	Neighbor islands			
1989	67,734	36,467	31,267	79.0	95.83	2.00
1990	71,266	36,899	34,367	78.8	102.10	2.01
1991	72,275	36,623	35,652	72.4	101.89	2.01
1992	73,089	37,279	35,810	72.6	105.59	2.02
1993	69,502	37,032	32,470	72.0	103.26	2.04
1994	70,463	36,194	34,269	76.5	105.46	2.04
1995	(NA)	(NA)	(NA)	75.8	109.39	2.05
1996	70,288	36,146	34,142	75.2	116.79	2.07
1997	71,025	35,971	35,054	73.9	124.96	2.08
1998	71,480	36,206	35,274	71.5	129.66	2.09
1999	71,157	35,861	35,296	72.1	131.66	2.09
2000	71,506	36,303	35,203	76.4	140.63	2.08
2001	72,204	36,824	35,380	69.2	144.88	2.05
2002	70,783	36,457	34,326	69.7	140.89	2.12
2003	70,579	35,541	35,038	72.7	144.16	2.09
2004	72,176	35,769	36,407	77.7	152.17	2.13
2005	72,307	33,926	38,381	81.1	166.16	2.15
2006	72,274	33,606	38,668	79.5	187.19	(NA)
2007	73,220	33,588	39,632	75.0	199.96	(NA)
2008	74,177	34,081	40,096	70.5	201.85	(NA)
2009	75,188	34,027	41,161	64.8	177.10	(NA)
2010	74,988	33,782	41,206	70.7	174.84	(NA)
2011	77,731	35,001	42,730	73.2	189.83	(NA)
2012	74,650	35,326	39,324	76.9	204.93	(NA)
2013	73,959	35,690	38,269	76.5	229.90	(NA)
2014	73,716	35,864	37,852	77.0	234.85	(NA)
2015	77,138	36,058	41,080	78.7	244.64	(NA)
2016 4/	79,092	37,400	41,692	79.0	254.03	(NA)
2017	80,336	38,508	41,828	80.0	264.43	(NA)

NA Not available.

1/ February data through 1991; Spring 1992; June 1993; December 1994; and May 1996 and thereafter.

2/ Annual averages for hotels in PKF sample for 1989-1994, Smith Travel Research for 1995 and thereafter.

3/ Annual averages for hotels in PKF sample.

4/ "Percent occupied" and "Daily rate per room" revised from previous *Data Book*.

Source: Hawaii State Department of Business, Economic Development, and Tourism, *Visitor Plant Inventory*, (annual); Hawaii Tourism Authority, *Visitor Plant Inventory*, (annual) and *Hawaii Hotel Performance Report*, (annual); PKF-Hawaii, *Trends in the Hotel Industry, Hawaii*, (December issues); Smith Travel Research, Hospitality Advisors LLC, *Hawaii Hotel Flash Report*, (December/Year-End Highlights issues)

**Table 23.39-- HOTEL ROOM OCCUPANCY AND ROOM RATES, BY
GEOGRAPHIC AREA: 2017**

Geographic area	Percent occupied	Average daily room rate (dollars)	Revenue per available room (dollars)
State total	80.0	264.43	211.60
Oahu	83.3	233.11	194.08
Waikiki	84.4	228.55	192.95
Other Oahu	76.3	263.06	200.79
Maui	77.1	353.04	272.15
Wailea	84.6	538.22	455.52
Lahaina-Kaanapali-Kapalua	77.5	296.48	229.67
Other Maui	76.6	424.56	325.27
Hawaii	74.4	249.26	185.35
Kohala Coast	73.3	348.88	255.62
Kauai	75.7	263.97	199.83

Source: Hawaii Tourism Authority, *December 2017 Hawaii Hotel Performance Report* (January 25, 2018) <<http://www.hawaiiitourismauthority.org/research/research/infrastructure-research/>> accessed May 23, 2018.

**Table 23.40-- GENERAL EXCISE TAX BASE FOR RENTALS:
1985 TO 2017**

[In thousands of dollars. Data are on a cash basis accounting]

Year reported 1/	Total	Hotel rentals	All other rentals 2/
1985	3,037,254	1,122,268	1,914,986
1986	3,278,450	1,212,782	2,065,668
1987	3,443,271	1,369,401	2,073,870
1988	3,715,546	1,408,891	2,306,655
1989	4,108,740	1,505,071	2,603,669
1990	4,401,733	1,572,994	2,828,739
1991	4,825,777	1,512,990	3,312,787
1992	5,013,293	1,621,751	3,391,542
1993	5,035,581	1,527,037	3,508,544
1994	5,358,587	1,666,406	3,692,182
1995	5,552,792	1,776,527	3,776,265
1996	5,859,454	2,057,800	3,801,655
1997	5,829,772	2,155,319	3,826,024
1998	5,904,196	2,147,217	3,756,979
1999	5,845,772	2,158,193	3,687,580
2000	6,305,325	2,419,287	3,886,038
2001	6,360,999	2,421,813	3,939,186
2002	6,184,616	2,227,341	3,957,275
2003	6,472,542	2,322,434	4,150,108
2004	6,851,888	2,518,058	4,333,830
2005	7,639,189	2,834,838	4,804,351
2006	8,107,018	3,097,961	5,009,057
2007	9,171,835	3,406,579	5,765,256
2008	9,170,330	3,130,759	6,039,571
2009	8,566,148	2,618,860	5,947,287
2010	8,525,923	2,755,013	5,770,910
2011	9,308,705	3,185,483	6,123,222
2012	9,878,662	3,666,325	6,212,337
2013	10,557,258	4,069,865	6,487,392
2014	10,796,148	4,314,087	6,482,060
2015	11,311,388	4,492,983	6,818,405
2016	10,822,607	4,502,385	6,320,222
2017	12,462,775	5,186,494	7,276,281

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release) <http://tax.hawaii.gov/stats/a5_3txcolrptarchive/> accessed May 9, 2018, and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 23.41-- COMPUTER AND SOFTWARE STORES AND SERVICES: 2012

[Includes establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

Subject	Establishments (number)	Receipts/ revenue or sales (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12 (number)
Wholesale trade				
Computer and software merchant wholesalers (NAICS 42343)	21	(D)	(D)	(1/)
Services				
Computer and office machine repair and maintenance (NAICS 811212)	27	9,473	2,753	99
Computer systems design and related services (NAICS 5415)	389	464,803	200,373	2,847
Data processing, hosting, and related services (NAICS 5182)	62	167,053	56,866	771
Software publishers (NAICS 5112)	21	73,298	22,615	204

D Withheld to avoid disclosing data for individual companies.

1/ 250 to 499 employees.

Source: U.S. Census Bureau, *2012 Economic Census*, "All sectors: Geographic Area Series: Economy-Wide Key Statistics: 2012" (EC1200A1) <<http://factfinder.census.gov/>> accessed April 20, 2015.

Table 23.42-- MOTION PICTURE AND VIDEO SERVICES: 1987 TO 2012

[Includes establishments with payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in Economic Censuses prior to the 1997 Economic Census]

Subject and year	Establishments (number)	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12 (number)
Motion picture and video production, distribution, and services (NAICS 51211, 51212, 51219)				
1987	25	10,177	2,394	136
1992	50	20,394	6,028	250
1997	63	33,727	10,660	278
2002	67	(D)	6,021	183
2007	71	(1/)	(2/)	(3/)
2012	59	(1/)	(4/)	(5/)
Motion picture and video exhibition (NAICS 51213)				
1987	35	(D)	(D)	(D)
1992	34	(D)	(D)	(D)
1997	35	62,133	8,866	1,195
2002	42	96,148	10,310	1,079
2007	31	89,283	8,850	806
2012	26	94,582	8,817	781
Video tape and disc rental (NAICS 53223)				
1987	78	12,319	2,456	376
1992	78	26,909	5,252	545
1997	81	23,862	4,346	451
2002	67	37,401	5,813	500
2007	64	37,655	6,947	506
2012	37	9,152	2,364	189

Continued on next page.

**Table 23.42-- MOTION PICTURE AND VIDEO SERVICES:
1987 TO 2012 -- Con.**

D Withheld to avoid disclosing data for individual companies.

1/ Revenue not collected at this level of detail for multiestablishment firms for NAICS 51211 and 51212, and withheld to avoid disclosing data for individual for NAICS 51219.

2/ 5,297 for NAICS 51211 and withheld to avoid disclosing data for individual companies for NAICS 51212 and 51219.

3/ 20 to 99 employees for NAICS 51212 and 0 to 10 employees for NAICS 51219. There were 160 paid employees for NAICS 51211.

4/ 6,273 for NAICS 51211 and withheld to avoid disclosing data for individual companies for NAICS 51212 and 51219.

5/ 0 to 19 employees for NAICS 51212 and NAICS 51219. There were 159 paid employees for NAICS 51211.

Source: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii, 'SC87-A-12* (July 1989); *1992 Census of Service Industries, Hawaii, SC92-A-12* (August 1994); *1997 Economic Census, Information, Geographic Area Series, Hawaii, EC97S51A-HI* (October 1999); *1997 Economic Census, Real Estate and Rental and Leasing, Geographic Area Series, Hawaii, EC97F53A-HI* (August 1999); *2002 Economic Census, Information, Geographic Area Series, Hawaii, EC02-51A-HI* (March 2005); *2002 Economic Census, Real Estate and Rental and Leasing, Geographic Area Series, Hawaii, EC02-53A-HI* (December 2004); *2007 Economic Census, "Sector 53: Real Estate and Rental and Leasing: Geographic Area Series: Summary Statistics for the United States, States, Metro Areas, Counties, and Places: 2007"* (EC0753A1) <<http://factfinder.census.gov>> accessed May 21, 2010; *2007 Economic Census, "Sector 51: Information: Geographic Area Series: Summary Statistics for the United States, States, Metro and Micro Areas, Metro Divisions, Consolidated Cities, Counties, and Places: 2007"* (EC0751A1) <<http://factfinder.census.gov>> accessed April 29, 2010; *2012 Economic Census, "All sectors: Geographic Area Series: Economy-Wide Key Statistics: 2012"* (EC1200A1) <<http://factfinder.census.gov/>> accessed April 20, 2015.

Table 23.43-- FILM AND TELEVISION PRODUCTION: 2012 TO 2017

[In millions of dollars, except for employment which is in number of jobs]

Category	2012	2013	2014	2015	2016	2017
Total production expenditures	245.6	228.5	221.5	243.5	263.2	319.9
Expenditures qualified for tax credit	189.1	163.7	162.3	199.6	199.0	268.6
Expenditures not qualified for tax credit	56.5	64.8	59.2	43.9	45.6	51.3
Economic impact						
Output	425.8	396.2	384.0	422.2	455.3	553.4
Earnings	98.4	91.6	88.8	97.6	105.3	128.0
State taxes	26.9	25.1	24.3	26.7	28.4	34.5
Employment	2,963	2,670	2,506	2,668	2,790	3,295

Source: Hawaii Department of Business, Economic Development & Tourism, Creative Industries Division, records; and calculations by the Hawaii State Department of Business, Economic Development, & Tourism.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods and services between Hawaii and the rest of the world, and on investment by foreign countries.

Sources for statistics on interstate and foreign commerce, and on foreign investment include the U.S. Census Bureau and the Bureau of Economic Analysis, the Hawaii State Department of Business, Economic Development & Tourism's Foreign Trade Zone No. 9 and its subzones. Additional information is found in waterborne cargo data compiled by the U.S. Army Corps of Engineers in Section 18.

Comparable data for the nation as a whole appear in Section 28 of the *Statistical Abstract of the United States: 2012*. Long-term island trends are summarized in *Historical Statistics of Hawaii*, Section 21.

Table
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**Table 24.01-- FOREIGN TRADE THROUGH THE HAWAII
CUSTOMS DISTRICT: 1997 TO 2017**

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Hawaii Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

Year	General imports 1/	Imports for consumption 1/	Exports of domestic and foreign merchandise 2/		
			Total through Hawaii	Origin of movement 3/	Location of exporter 4/
1997	3,176.8	2,695.0	1,628.0	334.0	303.2
1998	2,515.3	2,217.2	1,042.3	276.4	211.4
1999	2,598.7	2,298.7	1,182.7	273.6	243.5
2000	3,439.9	2,875.7	702.7	386.8	368.8
2001	2,606.1	2,285.3	630.9	369.9	319.1
2002	2,480.3	2,130.0	2,691.8	513.7	392.1
2003	2,428.1	2,021.5	2,521.8	368.2	(NA)
2004	2,795.3	2,235.9	1,754.1	404.8	(NA)
2005	3,700.6	2,918.8	2,416.0	1,028.2	(NA)
2006	4,852.6	4,171.7	3,215.8	705.7	(NA)
2007	5,208.4	4,233.9	4,760.5	560.4	(NA)
2008	5,980.2	5,108.1	7,579.1	964.0	(NA)
2009	3,752.3	3,198.5	5,775.3	562.2	(NA)
2010	4,583.3	4,199.9	7,398.1	685.1	(NA)
2011	5,652.3	4,982.8	7,451.6	909.2	(NA)
2012	6,478.2	5,704.1	9,746.9	726.2	(NA)
2013	5,599.6	5,219.0	11,428.7	598.3	(NA)
2014	4,970.6	4,011.5	12,559.7	1,452.1	(NA)
2015	4,052.1	3,569.7	13,913.5	1,895.7	(NA)
2016	3,139.2	2,750.1	10,275.6	1,239.0	(NA)
2017	3,848.3	3,270.7	11,802.5	938.0	(NA)

NA Not available.

1/ Customs value basis.

2/ Totals are on F.A.S. (free alongside ship) basis.

3/ Includes merchandise exports originated in Hawaii and exported through other customs districts. Not available before 1987. This methodology is based on an "Origin of Movement" which is designed to measure the transportation origin of exports, i.e. the state from which an export product began its journey to the port of exit.

4/ Not available before 1993 nor after 2002. The methodology is based on "Location of Exporter" (EL) which tracks the sales origin of exports and is best suited for export promotion or marketing purposes. Effective with the January 2003 statistics, the EL series was discontinued.

Source: U.S. Census Bureau, *U.S. Merchandise Trade: Selected Highlights, FT920*, December issue 1997 to 2017, and 2004 to 2017 <http://www.census.gov/foreign-trade/Press-Release/ft920_index.html> accessed July 19, 2018; *U.S. Merchandise Trade, FT900 Supplement*, December issue 1997 to 2017 <http://www.census.gov/foreign-trade/Press-Release/current_press_release/press.html> accessed July 19, 2018; U.S. Census Bureau, *Statistical Abstract of the United States* (annual) and records.

**Table 24.02-- FOREIGN TRADE THROUGH THE HAWAII
CUSTOMS DISTRICT, BY CLASSIFICATION: 2013 TO 2017**

[In millions of dollars]

Classification	2013	2014	2015	2016	2017
General imports by district of entry					
Customs value 1/	5,599.6	4,970.6	4,052.1	3,139.2	3,848.3
C.I.F. value 2/	5,844.5	5,217.5	4,322.1	3,367.1	4,100.2
General imports by district of unloading					
Customs value 1/	7,967.7	8,115.4	7,098.6	6,049.0	7,229.7
C.I.F. value 2/	8,291.7	8,173.2	7,488.5	6,370.9	7,598.5
General imports by state of destination 3/					
Commodities	6,064.6	5,328.0	3,759.7	2,943.8	3,814.8
Manufactured commodities	2,490.5	2,040.0	1,681.7	1,353.5	1,539.4
Non-manufactured commodities	3,574.1	3,287.9	2,078.0	1,590.3	2,275.4
Imports for consumption by district of entry (customs value 1/)	5,219.0	4,011.5	3,569.7	2,750.1	3,270.7
Duty free value	1,680.2	1,644.2	1,882.6	1,110.0	1,086.6
Dutiable value	3,538.8	2,367.3	1,687.1	1,640.1	2,184.2
Exports of domestic & foreign merchandise by dist. of export (F.A.S. value 4/)	11,428.7	12,559.7	13,913.5	10,275.6	11,802.5
Exports of merchandise by origin of movement 5/	598.3	1,452.1	1,895.7	1,239.0	938.0
Commodities	551.3	1,342.0	1,844.5	1,172.1	875.6
Manufactured commodities	386.6	1,169.0	1,709.8	1,035.3	750.5
Non-manufactured commodities	164.7	173.0	134.7	136.8	125.2
Re-exports	47.0	110.1	51.2	66.9	62.4

1/ Prices paid by the buyer to the seller in accordance with 1979 Trade Agreement Act amendments to the 1930 Tariff Act.

2/ Cost, insurance and freight.

3/ New series effective with January 2010 statistics, this new 'State of Destination' (SD) series has been made available back to January 2008.

4/ Free alongside ship (F.A.S.) value at U.S. port of export, based on transaction price, including inland freight, insurance, and other charges; excludes cost of loading merchandise aboard exporting carrier and also excludes freight, insurance, etc. beyond U.S. port of export.

5/ Based on the North American Industry Classification System (NAICS). Includes merchandise exports originated in Hawaii and exported through other customs districts. Exports are by "point of origin" of their journey to export, a transportation not production basis. The U.S. Census Bureau discontinued the state export series based on the exporter location after the December 2002 estimates.

Source: U.S. Census Bureau, *U.S. Merchandise Trade: Selected Highlights, FT920*, December issue (annual) <http://www.census.gov/foreign-trade/Press-Release/ft920_index.html> accessed July 19, 2018 and *U.S. Merchandise Trade, FT900 Supplement*, December issue (annual) <http://www.census.gov/foreign-trade/Press-Release/current_press_release/press.html> accessed July 19, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 24.03-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 2004 TO 2017

[Data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

Category and year	Value (million dollars)			Shipping weight (mil. kgs.)	
	Total 1/	Vessel	Air	Vessel	Air
General imports 2/					
2004	4,800.6	2,390.3	2,389.8	7,019.2	39.8
2005	6,097.4	3,354.3	2,733.5	8,128.1	41.5
2006	6,865.0	4,333.1	2,429.1	8,807.3	35.6
2007	7,198.8	4,731.5	2,321.9	9,131.4	32.8
2008	7,564.9	5,589.5	1,891.1	7,955.9	25.6
2009	5,016.1	3,288.8	1,493.8	7,542.3	23.6
2010	6,870.9	3,949.9	2,554.9	7,062.1	31.6
2011	7,565.3	5,238.6	2,206.1	7,190.8	24.7
2012	8,557.5	5,802.9	2,398.1	7,174.9	30.6
2013	7,967.7	5,053.0	2,696.8	6,492.7	34.0
2014	8,115.4	4,265.0	3,484.8	5,903.4	44.2
2015	7,098.6	3,348.0	3,425.8	6,569.1	47.2
2016	6,049.0	2,526.7	3,312.2	6,519.6	45.1
2017	7,229.7	3,208.0	3,847.0	7,311.8	57.6
Exports 3/					
2004	1,754.1	238.2	319.1	606.6	8.8
2005	2,416.0	226.5	384.5	535.7	9.8
2006	3,215.8	310.9	584.3	567.4	11.6
2007	4,760.5	344.1	900.0	636.4	15.1
2008	7,579.1	377.8	995.4	583.5	14.8
2009	5,775.3	211.2	738.9	478.1	16.3
2010	7,398.1	259.7	1,138.9	467.0	21.8
2011	7,451.6	286.0	1,322.7	482.2	26.9
2012	9,746.9	263.7	2,055.4	455.3	27.3
2013	11,428.7	281.7	1,635.7	469.0	28.1
2014	12,559.7	791.4	2,516.9	1,093.1	28.6
2015	13,913.5	459.5	2,755.4	1,049.9	30.1
2016	10,275.6	312.6	2,184.0	837.1	27.8
2017	11,802.5	378.8	2,192.7	920.9	25.4

1/ Includes categories not tabulated by method of transportation, not shown separately.

2/ By district of unloading. Value is on customs value basis.

3/ Exports of domestic and foreign merchandise, by district of export. Value is on F.A.S. (free alongside ship) basis.

Source: U.S. Census Bureau, *U.S. Merchandise Trade: Selected Highlights, FT920*, December issue (annual) to 2010 exhibits 1 and 6 then, beginning in 2011, exhibits 1 and 4, and beginning with 2004 <http://www.census.gov/foreign-trade/Press-Release/ft920_index.html> accessed July 19, 2018.

**Table 24.04-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
2014 TO 2016**

[In millions of dollars unless otherwise noted]

Subject	2014	2015	2016
State summary			
Merchandise received	5,000-10,000	1,000-5,000	1,000-5,000
Exports	1,000-5,000	500-750	250-500
Total shipments	5,000-10,000	1,000-5,000	1,000-5,000
Employees (persons)	1,501-2,000	3,001-4,000	2,501-3,000
Top foreign-status product, by value (percent)			
Oil/petroleum	98	98	98
Petrochemicals	2	2	2
Vehicles [Aircraft/spacecraft in 2014]	<1	<1	<1
Plastic/rubber	<1	<1	<1
Textiles/footwear [Consumer prod. in 2016]	<1	<1	<1
Other	<1	<1	<1
Warehouse/distribution activity			
Number of companies	345	407	378
Merchandise received	1,000-5,000	500-750	500-750
Exports	500-750	250-500	250-500
Total shipments	1,000-5,000	500-750	500-750
Production activity - zone/subzone			
Zone 9 Pacific Allied Products, Ltd.			
Merchandise received	1-5	1-5	1-5
Exports	-	-	-
Total shipments	1-5	1-5	1-5
Subzone 9A Par Hawaii Refining, L.L.C.			
Merchandise received	1,000-5,000	1,000-5,000	1,000-5,000
Exports	500-750	250-500	100-250
Total shipments	1,000-5,000	1,000-5,000	1,000-5,000
Subzone 9E IES Downstream			
Merchandise received	1,000-5,000	1,000-5,000	750-1,000
Exports	25-50	1-5	-
Total shipments	1,000-5,000	1,000-5,000	750-1,000
Subzone 9F Hawaii Gas			
Merchandise received	50-75	25-50	25-50
Exports	-	-	-
Total shipments	25-50	10-25	10-25

Source: United States Foreign-Trade Zones Board, *76th Annual Report of the Foreign-Trade Zones Board to the Congress of the United States*, Appendix D (August 2015) and *77th Annual Report of the Foreign-Trade Zones Board to the Congress of the United States*, Appendix D (September 2016) <<http://enforcement.trade.gov/ftzpage/annual-report.html>> accessed October 18, 2016; and *78th Annual Report of the Foreign-Trade Zones Board to the Congress of the United States*, Appendix D (November 2017) <<http://enforcement.trade.gov/ftzpage/annual-report.html>> accessed July 19, 2018.

**Table 24.05-- COMMODITY EXPORTS TOTAL AND TO TOP
25 FOREIGN COUNTRIES: 2014 TO 2017**

[In millions of dollars. Includes merchandise exports originated in Hawaii and exported through other customs districts. Exports are by "point of origin" of their journey to export, a transportation not production basis. Top 25 countries based on 2017 dollar value]

Rank	Country	2014	2015	2016	2017
	Total	1,447.5	1,896.4	795.5	952.4
	Top 25 foreign countries	1,384.5	1,850.3	763.8	938.4
1	Australia	499.8	1,278.3	313.1	340.1
2	China	131.9	91.7	55.9	136.2
3	Singapore	221.2	78.0	83.0	124.6
4	Korea, South	93.5	45.7	49.8	118.6
5	Japan	184.1	79.7	70.7	78.5
6	Canada	27.0	29.8	66.2	24.3
7	Vietnam	6.2	101.7	7.4	16.9
8	Hong Kong	21.9	21.4	18.1	13.9
9	Bangladesh	-	-	4.1	13.4
10	Taiwan	16.9	13.1	9.5	12.9
11	India	0.8	9.8	15.3	11.0
12	New Zealand	12.7	9.0	32.5	7.0
13	Panama	105.7	62.4	0.1	6.5
14	United Kingdom	3.4	5.4	4.1	5.8
15	Philippines	4.0	6.7	4.8	5.6
16	Indonesia	28.4	3.7	4.8	4.5
17	France	3.2	2.1	6.3	2.9
18	Thailand	2.7	2.6	1.9	2.8
19	Argentina	0.1	0.1	2.7	2.4
20	Germany	15.9	2.3	3.6	2.3
21	Sweden	0.4	1.3	1.6	1.9
22	Pakistan	0.7	1.3	1.4	1.8
23	Marshall Islands	1.5	1.4	4.8	1.7
24	Mexico	1.6	1.9	1.7	1.4
25	Italy	1.2	1.3	0.5	1.4

Source: U.S. Census Bureau, Foreign-Trade Division, State by 6-Digit HS Code and Top Countries, "Total U.S. Exports (Origin of Movement) Top 25 Countries Based on 2017 Dollar Value" <<https://www.census.gov/foreign-trade/statistics/state/data/exctyall.xls>> accessed July 19, 2018.

Table 24.06-- COMMODITY IMPORTS TOTAL AND FROM TOP 25 FOREIGN COUNTRIES: 2014 TO 2017

[In millions of dollars. U.S. Imports by State of Final Destination (State Import Series).
Top 25 countries based on 2017 dollar value]

Rank	Country	2014	2015	2016	2017
	Total	5,329.2	3,755.8	2,930.5	3,809.8
	Top 25 foreign countries	4,270.7	3,456.2	2,768.6	3,675.3
1	Indonesia	785.3	816.4	696.8	814.4
2	Japan	316.8	310.9	376.9	480.0
3	China	262.2	278.7	242.6	388.8
4	Libya	-	16.7	143.9	284.3
5	United Arab Emirates	633.6	33.7	116.7	279.5
6	Russia	-	477.0	282.4	275.3
7	France	663.8	387.5	22.5	183.9
8	Vietnam	445.7	192.9	83.7	163.2
9	Canada	255.3	265.4	229.6	132.7
10	Saudi Arabia	-	-	-	108.9
11	Thailand	290.8	37.8	39.0	92.7
12	Korea, South	194.2	213.8	158.7	68.8
13	Nigeria	79.8	111.4	10.6	63.5
14	Taiwan	45.9	50.9	50.9	52.7
15	Colombia	5.1	6.0	4.1	47.3
16	Italy	42.5	38.1	49.4	40.8
17	Germany	15.4	19.4	78.8	31.7
18	Malaysia	30.8	31.9	25.2	29.0
19	Australia	25.4	29.7	40.6	24.5
20	New Zealand	31.2	26.8	25.3	24.2
21	Philippines	27.3	28.0	27.6	23.0
22	Switzerland	32.3	17.0	18.8	18.0
23	Netherlands	19.0	18.9	24.6	17.2
24	Peru	32.9	15.4	4.9	15.8
25	United Kingdom	35.6	31.8	15.1	15.1

Source: U.S. Census Bureau, Foreign-Trade Division, State by 6-Digit HS Code and Top Countries, "Top U.S. Imports by State, Top 25 Countries Based on 2017 Dollar Value"
<<http://www.census.gov/foreign-trade/statistics/state/data/imports/hi.html>> accessed July 19, 2018.

Table 24.07-- TOTAL AND TOP 25 CATEGORIES OF COMMODITY EXPORTS TO FOREIGN COUNTRIES: 2014 TO 2017

[In millions of dollars. Includes merchandise exports originated in Hawaii and exported through other customs districts. Exports are by "point of origin" of their journey to export, a transportation not production basis]

Rank	Commodity	2014	2015	2016	2017
	All commodities	1,447.5	1,896.4	795.5	952.4
	Top 25 commodities based on 2017 value	1,092.5	876.0	586.3	836.9
1	Airplane & A/C unladen weight > 2,000, NOV 15,000 KG	-	-	-	224.8
2	Petrol oil bitum mineral (NT crude) etc NT bio	292.5	165.1	66.9	190.7
3	Parts of airplanes or helicopters, NESOI 1/	303.2	396.7	219.6	74.4
4	Lt oils, preps GT=70% petroleum/bitum NT biod	128.2	125.1	64.4	73.5
5	Civilian aircraft, engines and parts	56.7	15.0	31.0	67.9
6	Ferrous waste & scrap NESOI 1/	34.9	21.5	17.4	28.9
7	Arom hydc NESOI 65 pct AO DSTLS A 250DC ASTM D 1/	142.7	25.0	41.5	26.3
8	Meat of bovine animals, boneless, fresh or chilled	-	9.6	13.0	24.0
9	Cold-water shrimps and prawns, live, fresh or chill	-	-	-	18.8
10	Waters, not sweetened or flavored NESOI; ice, & snow 1/	8.7	12.2	15.2	14.9
11	Aluminum waste and scrap	17.7	14.5	9.4	10.4
12	Copper waste and scrap	8.8	6.6	7.3	10.3
13	Cocoa preparations, not in bulk form, NESOI 1/	12.3	10.6	9.4	10.3
14	Macadamia nuts, in shell, fresh or dried	1.0	9.5	7.0	9.6
15	Papayas (papaws), fresh	9.6	8.0	8.1	7.2
16	Coffee, roasted, not decaffeinated	8.1	5.8	5.9	6.9
17	Other inst, specially designed for telecommunications	4.2	3.7	6.2	6.8
18	Waste, scrap unbleach kraft, corrugated paper	7.9	6.5	4.8	5.5
19	Juice of single fruit/vegetable, not fortified	0.9	1.6	2.9	4.4
20	Coffee, not roasted, not decaffeinated	4.1	7.1	4.0	4.3
21	Nuts (exc. peanuts) and seeds, prepared, etc. NESOI 1/	5.2	3.4	2.2	3.7
22	Abalone, live, fresh or chilled	1.3	3.5	6.4	3.6
23	Exports of military equipment, not identified	34.5	19.6	40.4	3.5
24	Propeller, rotor & parts of gliders & A/C, N-PWRD/PWRD	0.5	-	-	3.5
25	Jewelry and parts thereof, of other precious metal	9.8	5.2	3.1	3.0

1/ NESOI- Not elsewhere specified or indicated.

Source: U.S. Census Bureau, Foreign-Trade Division "Total U.S. Exports (Origin of Movement) by State - Top 25 6-digit HS Commodities Based on 2017 Dollar Value"

<<https://www.census.gov/foreign-trade/statistics/state/data/exstall.xls>> accessed July 18, 2018.

Table 24.08-- TOTAL AND TOP 25 CATEGORIES OF COMMODITY IMPORTS FROM FOREIGN COUNTRIES: 2014 TO 2017

[In millions of dollars. U.S. Imports by State of Final Destination (State Import Series)]

Rank	Commodity	2014	2015	2016	2017
	Total Hawaii imports	5,329.2	3,755.8	2,930.5	3,809.8
	Top 25 commodities based on 2016 dollar value	4,393.2	2,922.2	2,135.5	2,985.3
1	Crude oil from petroleum and bituminous minerals	3,004.9	1,798.0	1,368.9	1,998.4
2	Petrol oil bitum mineral (NT crude) etc NT bio	276.0	269.4	276.3	338.0
3	Airplane & OT A/C unladen weight > 15,000 KG	636.1	363.0	-	158.6
4	Passenger vehicles SPK-IG INT COM RCPR P ENG > 1500	118.3	127.6	131.7	108.3
5	Pass. vehicles, spark ign eng com RCPR P ENG > 3000 CC	92.1	107.6	90.7	108.3
6	Wooden kitchen furniture, except seats	16.3	15.3	23.1	22.9
7	Light vessel, fire float, floating cranes/docks	-	-	-	21.1
8	Jewelry and parts thereof, of other precious metal	24.5	18.8	21.7	21.1
9	Propane, liquified	28.7	20.4	14.3	20.3
10	Pass. vehicles w/SPK-IG & electric motor not chgd by plug	-	-	-	19.7
11	Beer made from malt	16.6	16.1	17.0	16.2
12	Portland cement except white Portland cement	16.5	22.6	18.7	16.0
13	Tuna, skipjack/striped-bellied bonito fillet frozen	13.0	23.2	25.2	15.7
14	Bitum. mix FR NAT asphalt, NAT BIT,PET BIT,MIN TAR or PT	-	-	-	14.3
15	Meat of bovine animals, boneless, frozen	14.7	19.1	13.5	13.4
16	Wooden furniture, NESOI 1/	14.5	12.4	14.0	12.0
17	Seats with wooden frames, upholstered, NESOI 1/	9.9	8.7	8.8	11.0
18	Atlantic Salmon and Danube Salmon, fresh or chilled	1.7	2.3	3.8	9.6
19	PORT digital automatic DA	5.2	4.9	3.3	9.6
20	Fruit & edible plant parts NESOI, prepared, etc. 1/	6.5	6.6	7.0	9.4
21	Photosensitive semiconductor devices, incl. photovoltaic cells	29.7	24.3	33.6	9.4
22	Container bags, cases etc. NESOI, plastic/text material 1/	9.5	8.7	8.7	8.4
23	Bituminous coal, not agglomerated	46.3	43.1	44.2	8.0
24	Fish meat, frozen, NESOI 1/	3.6	1.8	1.8	7.9
25	Bread, pastry, cakes, etc. NESOI 1/	8.6	8.4	9.4	7.9

1/ NESOI- Not elsewhere specified or indicated.

Source: U.S. Census Bureau, Foreign-Trade Division "Total U.S. Imports by State - Top 25 6-digit HS Commodities Based on 2017 Dollar Value"

<<https://www.census.gov/foreign-trade/statistics/state/data/imports/imstall.xls>> accessed July 19, 2018.

Table 24.09--FOREIGN AGRICULTURAL EXPORTS FOR HAWAII AND THE UNITED STATES: 1973 TO 2016

[In millions of dollars. Annual estimates of U.S. exports by State and commodity group based on each State's share of U.S. agricultural production. ERS provided estimates using both old and new methods for 2010, but will update and maintain only the new calendar year farm receipts-based estimates beginning with the 2011 estimates. The 'New' for 2004 to 2015 estimates for Hawaii and 2012 to 2015 for the U.S. are revised from previous *Data Book*. For discussion of methodology, see ERS "Documentation" <<http://www.ers.usda.gov/data-products/state-export-data/documentation.aspx>>]

Year	Hawaii	United States	Year	Hawaii	United States
Old series 1/					
1973	19.7	12,043.9	1992	77.0	42,598.3
1974	20.9	20,023.7	1993	70.1	42,831.5
1975	26.6	21,854.3	1994	65.5	43,911.4
1976	24.9	22,760.4	1995	79.8	54,644.0
1977	58.6	24,013.4	1996	84.5	59,751.9
1978	19.1	27,306.2	1997	91.0	57,269.2
1979	19.7	31,982.8	1998	76.7	53,652.9
1980	41.6	40,481.4	1999	76.2	49,043.3
1981	44.6	43,780.1	2000	73.2	51,265.5
1982	39.6	39,094.5	2001	59.9	52,717.1
1983	37.7	34,771.2	2002	51.2	53,319.3
1984	16.1	38,026.8	2003	54.7	56,014.0
1985	36.0	31,200.8	2004	67.3	62,400.4
1986	30.8	26,324.7	2005	83.3	62,517.3
1987	32.0	27,875.2	2006	82.0	68,593.7
1988	38.0	35,378.7	2007	75.4	82,216.8
1989	40.7	39,651.0	2008	146.6	114,909.7
1990	63.7	40,349.4	2009	181.0	96,295.1
1991	76.3	37,756.9	2010	190.2	108,663.7
New series 2/					
2000	151.5	51,265.5	2009	277.1	98,453.9
2001	158.6	53,678.9	2010	311.0	115,820.1
2002	153.3	53,144.2	2011	367.4	136,444.5
2003	160.0	59,392.7	2012	389.1	141,531.6
2004	164.7	61,418.1	2013	358.4	144,336.2
2005	186.3	63,182.3	2014	404.8	149,969.6
2006	199.0	70,950.4	2015	383.1	133,048.2
2007	212.1	89,991.8	2016	358.2	134,709.9
2008	259.9	114,761.4			

1/ Fiscal year (year ending September 30) exports based on each State's share of U.S. agricultural production. Data from 1990 forward were updated using consistent methodology and commodity coverage. Data for 1989 and prior may be kinked due to differences in methodology and commodity coverage.

2/ The 'New' calendar year series of export estimates based on U.S. farm cash receipts.

Source: U.S. Department of Agriculture, Economic Research Service, "U.S. Agricultural Exports, State detail by commodity [Old series]: FY1973-2010" (June 30, 2011) ; Ibid. "U.S. Agricultural Exports, Commodity detail by State [New series]: CY2000-2016" (December 13, 2017)

<<https://www.ers.usda.gov/data-products/state-export-data/>> accessed April 7, 2018.

Table 24.10-- FOREIGN AGRICULTURAL EXPORTS, BY COMMODITY GROUP: 1973 TO 2010

[In millions of dollars. For fiscal year ending September 30. Data from 1990 use consistent methodology and commodity coverage. USDA has discontinued this series]

Year	Total 1/	Wheat & products	Fruit & preps	Tree nuts	Veg. & preps	Live animals & meat	Hides & skins	Poultry & products	Fats, oils, & greases	Dairy products	Feeds & fodders	Seeds	Other 2/
1973	19.7	-	15.9	-	0.1	-	0.4	0.1	-	-	-	-	2.7
1974	20.9	-	15.0	-	0.1	-	0.3	0.2	-	-	-	-	4.5
1975	26.6	-	22.7	-	0.5	-	0.4	0.1	-	-	-	-	2.0
1976	24.9	-	20.1	-	0.8	-	0.6	0.3	-	-	-	-	2.0
1977	58.6	-	49.9	-	0.9	-	0.7	0.4	-	-	-	-	5.3
1978	19.1	-	14.1	-	1.0	-	0.7	0.5	-	-	-	-	1.3
1979	19.7	-	14.2	-	1.0	-	1.1	0.5	-	-	-	-	1.3
1980	41.6	-	26.4	12.4	-	1.0	0.6	-	0.8	-	-	-	0.4
1981	44.6	-	30.7	10.6	-	1.2	0.8	-	0.9	-	-	-	0.4
1982	39.6	-	28.3	8.2	-	1.3	1.0	-	0.4	-	-	-	0.4
1983	37.7	-	27.9	7.4	-	0.8	0.7	-	0.5	-	-	-	0.4
1984	16.1	-	28.8	15.4	-	-	-	-	-	-	-	-	0.9
1985	36.0	-	20.9	14.3	-	-	-	-	-	-	-	-	0.8
1986	30.8	-	20.5	9.5	-	-	-	-	-	-	-	-	0.8
1987	32.0	-	19.0	12.1	-	-	-	-	-	-	-	-	0.9
1988	38.0	-	22.0	14.9	-	-	-	-	-	-	-	-	1.1
1989	40.7	-	28.4	10.7	-	-	-	-	-	-	-	-	1.6
1990	63.7	-	45.4	4.1	0.1	3.9	2.7	0.5	0.7	-	0.3	0.8	5.1
1991	76.3	-	53.5	4.8	0.2	4.0	1.9	0.6	0.6	-	0.3	0.7	9.7
1992	77.0	-	50.0	10.3	0.2	4.2	1.6	0.6	0.6	-	0.4	1.3	7.9
1993	70.1	-	46.2	9.2	0.4	3.4	1.2	0.6	0.5	-	0.4	1.4	6.8
1994	65.5	-	46.0	7.5	0.4	2.0	0.7	0.6	0.3	-	0.3	1.0	6.8
1995	79.8	-	56.4	10.3	0.4	2.0	0.7	0.9	0.4	0.7	0.2	1.0	6.8
1996	84.5	-	60.1	11.2	0.4	1.8	0.6	0.9	0.2	0.6	0.2	0.6	7.8
1997	91.0	-	63.0	13.3	0.4	1.9	0.6	0.9	0.2	0.7	0.3	0.9	8.7
1998	76.7	-	56.0	7.4	0.5	2.1	0.6	0.9	0.3	0.8	0.3	0.8	7.1
1999	76.2	-	55.9	7.9	0.6	1.9	0.4	0.7	0.2	0.7	0.3	0.4	7.4
2000	73.2	-	47.9	11.3	1.2	2.1	0.5	0.6	0.2	0.7	0.3	0.9	7.8
2001	59.9	-	39.9	-	1.2	1.8	0.5	0.5	0.1	-	0.3	0.8	14.8
2002	51.2	-	32.5	-	-	1.6	0.4	0.4	0.1	-	0.2	0.8	15.1
2003	54.7	-	35.6	-	-	1.4	0.4	0.4	0.1	-	0.2	0.5	16.0
2004	67.3	-	46.4	-	-	1.5	0.4	0.3	0.2	-	0.2	0.5	17.8
2005	83.3	7.7	54.2	-	-	0.8	0.4	0.4	0.1	-	0.2	0.5	19.0
2006	82.0	8.9	49.9	-	-	1.1	0.5	0.3	0.1	-	0.2	0.3	20.7
2007	75.4	10.5	38.6	0.2	-	1.2	0.5	0.3	0.2	-	0.2	0.6	23.0
2008	146.6	11.5	43.2	62.8	-	1.5	0.5	0.3	0.3	-	0.3	0.9	25.2
2009	181.0	13.3	38.1	103.4	-	1.7	0.4	0.3	0.2	-	0.3	1.3	21.8
2010	190.2	14.2	35.1	113.2	-	1.7	0.6	0.4	0.3	-	0.3	0.5	23.9

1/ Rice, feed grains, soybeans and products, sunflowerseed and products, peanuts and products, cotton and lint, cottonseed and products, unmanufactured tobacco are zero.

2/ Other includes sugar & tropical products, minor oilseeds, essential oils, beverages other than juice, nursery & greenhouse, wine, & misc. horticultural & vegetable products.

Source: U.S. Department of Agriculture, Economic Research Service, "U.S. Agricultural Exports, State detail by commodity [Old series]: FY1973-2010" (June 30, 2011)

<<http://www.ers.usda.gov/data-products/state-export-data.aspx>> accessed July 2, 2012.

**Table 24.11--FOREIGN AGRICULTURAL EXPORTS, BY COMMODITY
GROUP: 2009 TO 2016**

[In millions of dollars. Annual estimates of U.S. exports by State and commodity group based on each state's share of U.S. agricultural production. ERS is provided estimates using both old and new methods for 2010 (see 24.09), but beginning with 2011 updates and maintains only this new calendar year farm receipts-based estimates. For discussion of methodology, see ERS "Documentation"

<<http://www.ers.usda.gov/data-products/state-export-data/documentation.aspx>>]

Export 1/	2009	2010	2011	2012	2013	2014	2015	2016
Total agricultural exports 2/	277.1	311.0	367.4	389.1	358.4	404.8	383.1	358.2
Total animal products	24.8	29.8	40.2	50.0	15.0	44.3	51.1	46.8
Beef and veal	2.0	2.5	4.0	4.4	4.6	5.4	4.8	4.3
Pork	0.9	1.0	0.7	0.7	0.6	0.8	0.7	0.5
Hides and skins	0.8	1.1	1.6	1.7	1.8	1.7	1.5	1.0
Other livestock products 3/	19.0	22.9	32.7	40.9	5.2	33.7	41.0	38.8
Dairy products	0.7	1.0	1.2	1.3	1.7	1.5	1.5	1.3
Other poultry products 4/	1.3	1.3	-	0.9	1.1	1.2	1.5	0.9
Total plant products 2/	252.3	281.2	327.2	339.1	343.4	360.4	332.0	311.5
Vegetables, fresh	0.3	0.3	0.4	0.3	0.2	0.3	0.3	0.3
Vegetables, processed	0.4	0.5	0.6	0.6	0.4	0.5	0.6	0.6
Fruits, fresh	5.6	5.4	5.5	5.3	5.6	5.9	5.0	3.6
Fruits, processed	5.0	4.8	5.1	4.5	4.9	5.3	4.9	3.4
Tree nuts	26.1	22.6	29.0	27.0	25.6	31.9	50.1	37.8
Other plant products 2/ 5/	214.9	247.6	286.7	301.4	306.6	316.6	271.1	265.7

1/ Broiler meat, rice, wheat, corn, feeds and other feed grains, grain products processed, soybeans, soybean meal, vegetable oils, other oilseeds and products, cotton, and tobacco are zero over the period.

2/ Revised from previous *Data Book*.

3/ Includes other nonpoultry meats, animal fat, live farm animals, and other animal parts.

4/ Includes turkey meat, eggs, and other fowl products.

5/ Includes sweeteners and products, other horticulture products, planting seeds, cocoa, coffee, and other processed foods.

Source: U.S. Department of Agriculture, Economic Research Service, "U.S. Agricultural Exports, Commodity detail by State [New series]: CY2000-2016" (December 13, 2017)

<<http://www.ers.usda.gov/data-products/state-export-data/>> accessed April 7, 2018.

**Table 24.12-- INTERNATIONAL STUDENT SPENDING AND
ECONOMIC IMPACT: 2009 TO 2017**

[In thousands of dollars and number. For academic year, for example, 2017 is
Fall 2016-Spring 2017]

Category	2009 1/	2015 1/	2016 2/	2017 2/
Total direct spending	165,411	205,103	301,913	225,317
Living expenses	(NA)	72,451	159,101	100,632
Tuition and fees	(NA)	132,652	142,812	124,684
Output multiplier	2.16	2.16	2.15	2.15
Total output generated	357,289	443,023	649,112	484,431
Earnings multiplier	0.9	0.9	0.85	0.85
Total income generated	148,870	184,593	256,626	191,519
State tax multiplier	0.141	0.141	0.143	0.143
Total state taxes generated	23,323	28,920	43,536	32,288
Employment multiplier	24.9	24.9	25.14	22.6
Total jobs generated	4,119	5,107	7,590	5,093

NA Not available.

1/ Multipliers are based on the DBEDT, *Hawaii State Input-Output Study, 2007 Benchmark Report* (Revised December 2013) <http://dbedt.hawaii.gov/economic/reports_studies/2007-io/>.

2/ Multipliers are based on the DBEDT, *Hawaii State Input-Output Study, 2012 Benchmark Report* (March 2016) <http://dbedt.hawaii.gov/economic/reports_studies/2012-io/>.

Source: Hawaii State Department of Business, Economic Development & Tourism, *The Economic Impact of International Students in Hawaii* (April 2015) <<http://files.hawaii.gov/dbedt/economic/reports/2015-04-foreign-student.pdf>>, *The Economic Impact of International Students in Hawaii - 2016 Update* (June 2016) <<http://files.hawaii.gov/dbedt/economic/reports/2016-07-foreign-student.pdf>>, *The Economic Impact of International Students in Hawaii - 2017 Update* (July 2017) <<http://files.hawaii.gov/dbedt/economic/reports/2017-07-foreign-student.pdf>> accessed July 22, 2017; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 24.13-- PROFILE OF IMPORTING AND EXPORTING COMPANIES,
HAWAII AND THE UNITED STATES: 2014 TO 2016**

[In number, millions of dollars, and percent]

Characteristic	2014		2015		2016	
	Hawaii	U.S.	Hawaii	U.S.	Hawaii	U.S.
Exports by state of origin of movement 1/						
Value of exports	1,447	1,620,532	1,896	1,502,572	795	1,451,011
Value as percent of total	0.1	100.0	0.1	100.0	0.1	100.0
Known value 2/	914	1,447,277	598	3/ 1,338,358	440	1,290,213
Percent of known value	0.1	100.0	(4/)	100.0	(4/)	100.0
Number of identified exporters	886	305,213	3/ 850	3/ 295,571	781	287,314
Percent of number of ident. exp.	0.3	100.0	0.3	100.0	0.3	100.0
Percent change from previous year						
Value of exports	142.0	2.6	31.0	-7.3	-58.1	-3.4
Known value 2/	99.6	2.9	-34.6	3/ -7.5	-26.4	-3.6
Number of exporters	2.7	0.1	3/ -4.1	3/ -3.2	-8.1	-2.8
Imports by state of destination 5/						
Value of imports	5,330	2,347,685	3,758	2,248,232	2,931	2,187,805
Value as percent of total	0.2	100.0	0.2	100.0	0.1	100.0
Known value 2/	5,145	2,057,714	3,553	1,969,469	2,629	1,911,184
Percent of known value	0.3	100.0	0.2	100.0	0.1	100.0
Number of identified exporters	2,054	187,825	2,128	196,925	2,333	211,335
Percent of number of ident. imp.	1.1	100.0	1.1	100.0	1.1	100.0
Percent change from previous year						
Value of imports	-12.6	3.5	-29.5	-4.2	-22.0	-2.7
Known value 2/	-11.8	3.6	-30.9	-4.3	-26.0	-3.0
Number of importers	1.1	2.0	3.6	4.8	9.6	7.3

1/ This series provides export statistics based on the U.S. state from which the merchandise starts its journey to the port of export; i.e., the transportation origin. This information is reported by the exporter. See Source "Technical Documentation" for limitations of this data series.

2/ Defined as portion of total U.S. exports and imports that could be matched to specific companies.

3/ Revised from previous *Data Book*.

4/ Represents zero or one-half unit of measurement shown.

5/ This series provides import statistics based on the U.S. state, U.S. territory or U.S. possession where the merchandise is destined, as known at the time of entry summary filing. This information is reported by the importer. See Source "Technical Documentation" for limitations of this data series.

Source: U.S. Census Bureau, *Profile of U.S. Importing and Exporting Companies, 2013-2014*

<<http://www.census.gov/foreign-trade/Press-Release/edb/2014/edbrel.pdf>> accessed April 14, 2016; Ibid. 2014-2015

<<http://www.census.gov/foreign-trade/Press-Release/edb/2015/edbrel.pdf>> accessed January 4, 2017;

Ibid. 2015-2016 <<https://www.census.gov/foreign-trade/Press-Release/edb/2016/index.html>> accessed

April 17, 2018 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 24.14-- AGRICULTURAL AND NONAGRICULTURAL LANDHOLDINGS
OF FOREIGN OWNERS: 2004 TO 2015**

[The source report is required annually under section 5 of the U.S. Agricultural Foreign Investment Disclosure Act of 1978. Under the Act, any person who holds an Immigration and Naturalization Service Form I-151 or I-551 (green card) is exempt from filing. For 2004 and 2005, approximate land area as established by the U.S. Census Bureau in conjunction with the 1990 Census of Population there were 4,111,000 acres of land in the state and for 2006 through 2015, 4,110,720 acres with the 2000 Census]

Closing date 1/	Parcels owned by foreigners	Privately owned agricultural land 2/	Acres owned by foreigners	Percent of all privately owned agric. land 3/	Agricultural acres owned by foreigners
Feb. 28, 2004	100	1,986,000	172,186	8.4	167,206
Feb. 28, 2005	103	1,986,000	172,211	8.4	167,600
Feb. 28, 2006	104	1,803,038	172,238	9.3	167,627
Feb. 28, 2007	105	1,803,038	172,619	9.3	168,008
Feb. 29, 2008	106	1,803,038	162,590	8.8	157,974
Feb. 28, 2009	114	1,803,038	163,495	8.8	158,874
Feb. 28, 2010	114	1,803,038	163,495	8.8	158,874
Dec. 31, 2010	115	1,803,038	163,527	8.8	158,884
Dec. 31, 2011	116	1,803,038	163,530	8.8	158,887
Dec. 31, 2012	116	1,803,038	163,530	8.8	158,887
Dec. 31, 2013	115	1,803,038	163,498	8.8	158,887
Dec. 31, 2014	115	1,803,038	163,498	8.8	158,877
Dec. 31, 2015	113	1,803,038	163,139	8.8	158,529

1/ Historically reports have covered the 12-month period ending the last day of February, however, a second report was issued for 2010, which contains data gathered between March 1, 2010 and December 31, 2010. Beginning with the 2011, the report will be published only as of the end of each calendar year.

2/ Preliminary estimate based on unpublished USDA, Economic Research Service 1997 data through 2005, and for 2006-2015, similar unpublished 2002 data of Ruben Lubowski, Economic Research Service. Total land area minus federal, state, county and municipal; Indian Trust; rural transportation; and urban lands. Includes forest land, pasture land, cropland, range, and miscellaneous. Estimates of urban and rural transportation lands are from U.S. Department of Agriculture, Economic Research Service, 2006 and estimates of federal and other public lands are from the General Services Administration, 2001 and National Resource Conservation Service, 2002 respectively.

3/ The December 31, 2015 percentage for Hawaii ranked 2nd (rank of 1 assigned to the highest) among the 50 States, exceeded only by Maine at 16.5 percent and well above the national percentage of 2.1 percent.

Source: U.S. Department of Agriculture, Farm Service Agency, *Foreign Ownership of U. S. Agricultural Land Through February 28* (annual except 2008 when it was through February 29), reports 1 and 3 and *Ibid. Foreign Holdings of U.S. Agricultural Land Through December 31* (annual), reports 1, 2 and 3 <<http://www.fsa.usda.gov/programs-and-services/economic-and-policy-analysis/afida/index>> accessed June 27, 2018.

Table 24.15-- AGRICULTURAL AND NONAGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS, BY COUNTRY AND BY COUNTY: 2014 AND 2015

[The source report is required annually under section 5 of the U.S. Agricultural Foreign Investment Disclosure Act of 1978. Under the Act, any person who holds an Immigration and Naturalization Service Form I-151 or I-551 (green card) is exempt from filing. Based on a 2000 estimate from the U.S. Census Bureau Geography Division, there were 4,111,720 acres of land. Privately-owned: land area minus federal, state, county and municipal; Indian Trust; rural transportation; and urban lands. Includes forest land, pasture land, cropland, range, and miscellaneous]

Subject	State total	Honolulu	Hawaii	Kauai	Maui
December 31, 2014					
Parcels owned by foreigners	115	11	74	7	23
Use of landholdings of foreign owners	163,498	6,153	96,050	7,927	53,368
Agriculture	158,877	2,960	94,875	7,886	53,156
Cropland	38,847	1,843	34,149	133	2,722
Pasture	78,852	-	28,332	2,849	47,671
Forest	7,071	-	1,730	4,201	1,140
Other agriculture	34,107	1,117	30,664	703	1,623
Non agriculture	4,621	3,193	1,175	41	212
Acres owned by foreigners	163,498	6,153	96,050	7,927	53,368
Canada	82	-	66	-	16
Germany	434	-	23	384	27
Netherlands	37,378	-	37,376	-	2
United Kingdom	3,128	-	3,128	-	-
All others	122,476	6,153	55,457	7,543	53,323
December 31, 2015					
Parcels owned by foreigners	113	10	73	7	23
Use of landholdings of foreign owners	163,139	6,137	95,707	7,927	53,368
Agriculture	158,529	2,955	94,532	7,886	53,156
Cropland	38,842	1,838	34,149	133	2,722
Pasture	78,509	-	27,989	2,849	47,671
Forest	7,071	-	1,730	4,201	1,140
Other agriculture	34,107	1,117	30,664	703	1,623
Non agriculture	4,610	3,182	1,175	41	212
Acres owned by foreigners	163,139	6,137	95,707	7,927	53,368
Canada	82	-	66	-	16
Germany	434	-	23	384	27
Netherlands	37,035	-	37,033	-	2
United Kingdom	3,128	-	3,128	-	-
All others	122,460	6,137	55,457	7,543	53,323

Source: U.S. Department of Agriculture, Farm Service Agency, *Foreign Ownership of U. S. Agricultural Land Through December 31*, reports 2 and 3, and for 2015 also Report 1 (annual) <<http://www.fsa.usda.gov/programs-and-services/economic-and-policy-analysis/afida/index>> accessed June 26, 2018; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 24.16-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES, BY COUNTRY OF ULTIMATE BENEFICIAL OWNER: 1977 TO 2006

[Data for Hawaii nonbank affiliates owned 10 percent or more, directly or indirectly, by a foreign person. Amounts are book values, in millions of dollars. 1981-1983 Hawaii totals are estimated based on historical shares and growth rates]

Year	All countries	Asia & Pacific	Japan	Australia, etc. 1/	Other Asia & Pacific	Canada	Europe	Lat. Amer. & other W. Hem.	Other, subtotal 2/
1977	672	(NA)	374	1	(NA)	31	83	(D)	(D)
1978	742	(NA)	407	1	(NA)	37	69	3	225
1979	789	(NA)	445	1	(NA)	51	109	5	178
1980	1,020	(NA)	565	(D)	(NA)	115	119	18	(D)
1981	1,158	(NA)	664	2	(NA)	94	134	16	(D)
1982	1,366	(NA)	758	(D)	(NA)	96	213	17	(D)
1983	1,460	(NA)	1,098	(D)	(NA)	93	(D)	18	(D)
1984	1,691	(NA)	1,203	(D)	(NA)	96	187	18	(D)
1985	1,777	(NA)	1,278	102	(NA)	99	129	20	149
1986	2,013	(NA)	1,442	109	(NA)	113	171	32	146
1987	3,474	3,201	2,969	125	107	66	134	66	7
1988	4,990	4,570	4,235	136	199	78	261	73	8
1989	8,224	7,660	6,757	666	237	88	368	97	11
1990	11,830	10,872	9,960	(D)	(D)	68	759	119	(D)
1991	13,921	12,853	11,866	736	251	80	837	139	12
1992	15,454	14,630	13,601	738	291	121	487	209	7
1993	16,030	15,137	13,935	867	335	183	487	217	6
1994	16,185	15,289	13,948	858	483	198	454	230	14
1995	15,972	14,958	13,372	(D)	(D)	227	507	218	(D)
1996	15,324	14,342	12,980	(D)	(NA)	55	677	172	(NA)
1997	14,805	13,478	12,516	(D)	(D)	108	870	222	127
1998	12,453	11,033	10,552	34	447	119	900	274	127
1999	11,460	10,113	9,689	35	389	118	823	274	132
2000	10,369	8,983	8,452	36	495	28	948	272	138
2001	9,787	8,354	7,924	38	392	28	1,049	246	110
2002 3/	7,816	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2003 3/	7,579	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2004 3/	6,741	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2005 3/	5,838	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2006 3/ 4/	8,007	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Figures for Australia include New Zealand and South Africa for 1977-86 but exclude these countries thereafter.

2/ Figures for Other subtotal include New Zealand and South Africa for 1987-1998 but exclude these countries for 1977-86. Figures for Other subtotal include Middle East, Africa less South Africa, Other Asia and Pacific less New Zealand, and United States for those years.

3/ Beginning with 2002, the survey data was largely tabulated for majority-owned (50 percent or more foreign direct investor) affiliates.

4/ The Nonbank U.S. Affiliates series ended with 2006. Beginning with 2007, it was replaced by a series that includes both bank and nonbank affiliates.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies* (annual) and *Foreign Direct Investment in the United States: Benchmark Survey* (various years) and <<http://www.bea.gov/international/di1fdiop.htm>> accessed July 4, 2012; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 24.17-- EMPLOYMENT OF NONBANK AFFILIATES IN HAWAII, BY COUNTRY OF AFFILIATE: 1977 TO 2006

[Data for Hawaii nonbank affiliates owned 10 percent or more, directly or indirectly, by a foreign person. Employment in thousands]

Year	All countries	Asia & Pacific	Japan	Australia, etc. 1/	Other Asia & Pacific	Canada	Europe	Lat. Amer. & other W. Hem.	Other, subtotal 2/
1977	11.4	(NA)	7.3	0.1	(NA)	0.3	0.5	(D)	(D)
1978	11.9	(NA)	7.2	(D)	(NA)	0.4	0.8	(D)	3.1
1979	14.7	(NA)	8.6	(D)	(NA)	0.6	1.3	(D)	3.4
1980	15.5	(NA)	9.0	(D)	(NA)	0.7	1.5	(D)	(D)
1981	17.0	(NA)	9.1	(D)	(NA)	0.7	1.6	1.1	(D)
1982	16.4	(NA)	9.3	0.4	(NA)	0.6	2.2	(D)	(D)
1983	16.3	(NA)	9.7	(D)	(NA)	0.6	1.7	0.7	(D)
1984	16.5	(NA)	9.8	(D)	(NA)	0.5	2.2	0.8	(D)
1985	18.7	(NA)	11.7	(D)	(NA)	0.5	1.6	0.8	(D)
1986	18.4	(NA)	10.9	1.1	(NA)	0.7	1.8	2.1	1.8
1987	27.3	22.8	20.6	1.4	0.8	0.7	1.0	(D)	(D)
1988	34.8	27.2	24.3	1.5	1.4	0.8	3.2	3.5	1.5
1989	45.0	36.1	30.3	2.6	3.2	0.8	4.0	3.7	3.6
1990	53.0	42.3	36.0	2.7	3.6	0.7	6.2	3.6	3.8
1991	56.0	44.8	38.3	3.2	3.3	0.7	6.1	4.0	3.7
1992	53.8	42.1	36.5	3.3	2.3	0.5	6.5	4.0	3.0
1993	52.4	43.1	37.5	3.5	2.1	1.5	3.6	4.0	2.3
1994	50.8	40.4	37.0	1.4	2.0	1.4	4.0	4.7	0.3
1995	48.9	37.7	34.3	1.7	1.7	1.6	4.3	4.6	0.7
1996	47.5	36.0	32.6	1.5	1.9	0.9	6.8	2.9	0.9
1997	50.2	37.5	34.0	(D)	(D)	1.5	7.0	2.9	(D)
1998	43.4	31.4	30.0	(D)	(D)	1.1	6.2	3.7	1.0
1999	44.3	31.5	29.9	(3/)	(D)	0.9	7.1	3.7	1.1
2000	44.8	29.9	28.5	(D)	(D)	1.3	8.5	3.8	1.3
2001	41.0	27.5	26.2	(D)	(NA)	0.8	7.9	3.9	0.9
2002 4/	37.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2003 4/	35.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2004 4/	31.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2005 4/	29.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2006 4/ 5/	28.7	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Figures for Australia include New Zealand and South Africa for 1977-86 but exclude these countries thereafter.

2/ Figures for Other subtotal include New Zealand and South Africa for 1987-1998 but exclude these countries for 1977-86. Figures for Other subtotal include Middle East, Africa less South Africa, Other Asia and Pacific less New Zealand, and United States for those years.

3/ Fewer than 50 employees.

4/ Beginning with 2002, the survey data was largely tabulated for majority-owned (50 percent or more foreign direct investor) affiliates.

5/ The Nonbank U.S. Affiliates series ended with 2006. Beginning with 2007, it was replaced by a series that includes both bank and nonbank affiliates.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies* (annual) and *Foreign Direct Investment in the United States: Benchmark Survey* (various years) and <<http://www.bea.gov/international/di1fdiop.htm>> accessed July 4, 2012; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 24.18-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES, BY INDUSTRY OF AFFILIATE: 1977 TO 2006

[Investment by Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person. In millions of dollars. Data for 1996 are the last year presented according to the International Survey Industry based on the 1987 Standard Industrial Classification]

Year	All industries	Petroleum	Manufacturing	Wholesale trade	Retail trade	Finance, nonbank	Insurance	Real estate	Services & other	Services	Other
1977	672	16	8	5	54	-	1	233	354	(NA)	(NA)
1978	742	17	12	8	57	1	1	246	400	(NA)	(NA)
1979	789	17	14	7	65	1	1	256	427	(NA)	(NA)
1980	1,020	(D)	(D)	17	52	(D)	2	431	474	(NA)	(NA)
1981	1,158	(D)	24	(D)	(D)	1	2	494	501	(NA)	(NA)
1982	1,366	21	38	24	80	(D)	1	584	(D)	(NA)	(NA)
1983	1,460	22	40	28	253	10	1	558	(D)	(NA)	(NA)
1984	1,691	23	73	56	274	3	3	605	653	(NA)	(NA)
1985	1,777	26	103	60	281	3	2	584	719	(NA)	(NA)
1986	2,013	31	157	61	280	4	1	713	767	(NA)	(NA)
1987	3,474	26	129	44	297	3	(D)	991	(D)	1,860	(D)
1988	4,990	28	201	91	322	3	8	1,739	2,598	2,371	227
1989	8,224	(D)	247	179	340	10	15	2,380	(D)	4,309	(D)
1990	11,830	(D)	368	189	490	17	15	3,868	(D)	5,855	(D)
1991	13,921	(D)	386	212	535	82	13	4,069	(D)	7,385	(D)
1992	15,454	(D)	290	(D)	564	222	17	5,075	8,450	7,939	511
1993	16,030	(D)	296	258	570	300	(D)	4,907	8,970	8,454	516
1994	16,185	(D)	308	257	597	306	18	4,615	(D)	8,863	(D)
1995	15,972	(D)	319	168	626	(D)	21	4,374	9,255	8,480	775
1996	15,324	(D)	279	181	739	205	(D)	4,167	8,830	8,072	758
1997	14,805	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1998	12,453	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1999	11,460	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2000	10,369	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2001	9,787	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2002 1/	7,816	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2003 1/	7,579	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2004 1/	6,741	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2005 1/	5,838	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2006 1/ 2/	8,007	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Beginning with 2002, the survey data was largely tabulated for majority-owned (50 percent or more foreign direct investor) affiliates.

2/ The Nonbank U.S. Affiliates series ended with 2006. Beginning with 2007, it was replaced by a series that includes both bank and nonbank affiliates.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies* (annual) and *Foreign Direct Investment in the United States: Benchmark Survey* (various years) and <<http://www.bea.gov/international/di1fdiop.htm>> accessed July 4, 2012; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 24.19-- EMPLOYMENT OF NONBANK AFFILIATES IN HAWAII,
BY INDUSTRY OF AFFILIATE: 1977 TO 2006**

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person. Employment in thousands. Employment less than 500 are rounded to zero. Data for 1996 are the last year presented according to the International Survey Industry based on the 1987 Standard Industrial Classification]

Year	All industries	Petro- leum	Manufac- turing	Whole- sale trade	Retail trade	Finance, nonbank	Insur- ance	Real estate	Services & other	Services	Other
1977	11.4	(D)	0.6	0.4	2.9	-	0.2	0.2	(D)	(NA)	(NA)
1978	11.9	(D)	0.8	0.6	3.2	-	0.2	0.2	(D)	(NA)	(NA)
1979	14.7	(D)	1.3	0.7	4.0	-	0.2	0.3	(D)	(NA)	(NA)
1980	15.5	(D)	1.3	0.8	4.0	(D)	0.3	0.5	(D)	(NA)	(NA)
1981	17.0	(D)	1.3	0.8	5.4	0.1	0.3	0.8	(D)	(NA)	(NA)
1982	16.4	(D)	1.9	0.7	4.2	0.3	(D)	0.7	8.4	(NA)	(NA)
1983	16.3	(D)	1.4	0.8	4.5	0.3	0.2	0.7	(D)	(NA)	(NA)
1984	16.5	(D)	2.0	2.0	4.4	0.2	0.3	0.5	(D)	(NA)	(NA)
1985	18.7	(D)	2.0	1.8	5.0	0.2	0.3	1.0	(D)	(NA)	(NA)
1986	18.4	(D)	2.4	2.0	4.5	0.2	0.2	1.3	(D)	(NA)	(NA)
1987	27.3	-	1.3	1.3	5.1	0.2	1.4	0.6	17.4	11.0	6.4
1988	34.8	-	2.1	2.9	5.3	0.2	0.4	1.8	22.2	13.2	9.0
1989	45.0	0.8	2.3	4.0	5.3	0.2	1.0	2.0	29.5	16.9	12.6
1990	53.0	0.9	2.8	4.2	7.1	0.2	1.0	3.5	33.4	21.2	12.2
1991	56.0	(D)	2.7	4.7	(D)	0.2	1.1	(D)	35.5	23.0	12.5
1992	53.8	(D)	3.5	4.1	7.8	0.2	(D)	3.1	32.9	23.8	9.1
1993	52.4	1.3	2.3	4.2	7.8	0.1	1.0	3.4	32.4	25.0	7.4
1994	50.8	1.0	2.4	3.5	7.8	0.2	0.9	2.6	32.5	26.0	6.5
1995	48.9	(1/)	2.4	1.9	9.1	0.1	(2/)	2.6	30.6	23.4	7.2
1996	47.5	(1/)	2.2	1.5	(3/)	0.1	0.9	2.2	29.5	22.2	7.3
1997	50.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1998	43.4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1999	44.3	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2000	44.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2001	41.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2002 4/	37.1	(NA)	1.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2003 4/	35.6	(NA)	0.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2004 4/	31.5	(NA)	0.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2005 4/	29.0	(NA)	0.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2006 4/ 5/	28.7	(NA)	1.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Employment range 1,000 to 2,499.

2/ Employment range 500 to 999.

3/ Employment range 10,000 to 49,999.

4/ Beginning with 2002, the survey data was largely tabulated for majority-owned (50 percent or more foreign direct investor) affiliates.

5/ The Nonbank U.S. Affiliates series ended with 2006. Beginning with 2007, it was replaced by a series that includes both bank and nonbank affiliates.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies* (annual) and *Foreign Direct Investment in the United States: Benchmark Survey* (various years) and <<http://www.bea.gov/international/di1fdiop.htm>> accessed July 4, 2012; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 24.20-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES AND EMPLOYMENT, BY INDUSTRY OF AFFILIATE: 1997 TO 2006

[Foreign Direct Investment (FDI) by Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person. In millions of dollars and thousands of employees]

Subject	All industries 1/	Manufacturing	Wholesale trade	Retail trade	Information	Finance (exc. depository inst) & insur.	Real estate, rental & leasing	Professional, scientific, & technical services	Other industries
FDI									
1997	14,805	228	203	705	146	199	4,049	2	9,274
1998	12,453	336	184	810	178	76	3,312	1	7,555
1999	11,460	284	177	939	238	58	3,228	2	6,534
2000	10,369	245	228	601	337	81	3,053	4	5,821
2001	9,787	245	277	631	259	76	2,909	4	5,386
2002 2/	7,816	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2003 2/	7,579	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2004 2/	6,741	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2005 2/	5,838	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2006 2/ 3/	8,007	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Employment									
1997	50.2	2.0	2.0	6.6	0.5	1.0	3.2	0.1	34.9
1998	43.4	2.4	1.8	6.4	0.7	1.0	1.8	0.1	29.3
1999	44.3	2.4	1.7	6.6	0.8	1.0	1.7	0.1	29.8
2000	44.8	2.5	3.5	6.5	0.9	1.1	1.8	0.1	28.4
2001	41.0	2.2	3.9	6.2	0.7	1.1	1.9	0.1	24.9
2002 2/	37.1	1.0	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2003 2/	35.6	0.6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2004 2/	31.5	0.8	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2005 2/	29.0	0.5	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
2006 2/ 3/	28.7	1.2	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Effective with 1997 the data are classified according to the 1997 International Survey Industry which is based on the 1997 North American Industry Classification System (NAICS). Petroleum is no longer shown as a separate industry, instead the various petroleum-related activities are distributed among the major NAICS-based industries to which they belong, e.g. gas stations are in retail trade. Services is no longer shown as a separate industry, instead the various services-related activities are distributed among the major NAICS-based industries such as Information, Professional, Other industries, etc. See Tables 24.12 and 24.13 for 1977-96 detailed estimates.

2/ Beginning with 2002, survey data was largely tabulated for majority-owned (50 percent or more foreign direct investor) affiliates.

3/ The Nonbank U.S. Affiliates series ended with 2006. Beginning with 2007, it was replaced by a series that includes both bank and nonbank affiliates.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States, Operations of U.S. Affiliates of Foreign Companies* (annual) and *Foreign Direct Investment in the United States: Benchmark Survey* (various years) and <<http://www.bea.gov/international/di1fdiop.htm>> accessed July 4, 2012; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 24.21-- FOREIGN DIRECT INVESTMENT IN MAJORITY-OWNED AFFILIATES: 2007 TO 2015

[Investment by Hawaii affiliates of U.S. business enterprises owned 50 percent or more, directly or indirectly, by a foreign person. Beginning with statistics for 2007, the BEA is including financial and operating data from both bank and nonbank affiliates. As a consequence, statistics for 2007 and future years are not strictly comparable with statistics from 2006 and earlier, which only covered nonbank affiliates. There is no 'Gross property, plant, and equipment' (GPPE) for 'Majority-Owned' beyond 2007]

Category	GPPE (million dollars)	Employment (1,000 employees)								
	2007	2007	2008	2009	2010	2011	2012	2013	2014	2015
All countries 1/	6,184	31.0	27.6	26.7	26.8	29.8	33.7	34.6	37.2	37.5
Japan 1/	4,320	16.6	13.2	12.8	12.7	14.2	15.5	16.0	17.3	16.8
Canada 1/	18	0.6	0.9	0.9	1.0	0.8	0.8	0.7	1.2	1.4
France	680	4.6	4.3	4.5	4.4	5.9	6.0	6.1	6.3	6.5
Germany	250	0.9	0.8	0.7	0.7	0.7	0.9	0.9	1.0	1.0
Netherlands 1/	(D)	0.1	0.1	0.1	0.1	0.3	0.4	0.4	0.3	0.3
Switzerland 1/	39	0.8	0.9	1.0	0.9	1.0	1.2	1.0	0.9	0.8
United Kingdom	58	2.4	3.0	2.3	2.7	2.5	2.4	2.7	2.7	2.9
Other 2/	(D)	4.9	4.4	4.4	4.3	4.3	6.6	6.8	7.6	7.8
All industries 1/	6,184	31.0	27.6	26.7	26.8	29.8	33.7	34.6	37.2	37.5
Manufacturing 1/	303	2.8	3.4	2.8	3.3	2.8	3.6	3.4	3.3	3.3
Wholesale trade	434	2.5	1.9	1.4	1.3	1.3	1.0	1.0	1.1	1.1
Retail trade 1/	363	3.2	3.3	4.2	4.3	5.5	5.6	5.9	6.0	6.2
Information	150	0.3	0.5	0.4	0.4	0.3	0.3	0.4	0.4	0.4
Finance & ins.	(D)	3.1	2.6	2.6	2.5	2.8	2.9	2.9	2.9	2.9
Real estate & rental & leasing 1/	763	1.3	1.2	1.2	1.2	1.1	(3/)	(3/)	1.2	0.2
Prof., scientific & tech. services 1/	12	0.2	0.1	0.1	0.1	0.3	0.2	0.4	0.5	0.5
Other industries 1/	(D)	17.6	14.5	14.1	13.8	15.6	(4/)	(4/)	21.9	22.7

D Withheld to avoid disclosing data for individual companies.

1/ 2014 revised from previous *Data Book*.

2/ Countries not shown individually are included in 'Other', specifically, 'Other Europe', 'Other Asia & Pacific' and 'Other'. 2007, 2011 and 2012 revised from previous *Data Book*.

3/ Size ranges are given in employment cells that are suppressed. This size range is 1,000 to 2,499.

4/ Size ranges are given in employment cells that are suppressed. This size range is 10,000 to 24,999.

Source: U.S. Bureau of Economic Analysis, International Data, Direct Investment & Multinational Enterprises (MNEs), Foreign Direct Investment in the United States, Data on activities of multinational enterprises, Majority-Owned Bank and Nonbank U.S. Affiliates (data for 2007 and forward), Employment, "Employment by State and Country of UBO 2007-2015" ; "Employment by State and Industry 2007-2015" <<http://www.bea.gov/iTable/iTable.cfm?ReqID=2&step=1>> accessed July 6, 2018; and "Gross Property, Plant, and Equipment by State and Country 2007" and "Gross Property, Plant, and Equipment by State and Industry 2007" <<http://www.bea.gov/iTable/iTable.cfm?ReqID=2&step=1>> accessed January 5, 2017.

**Table 24.22-- FOREIGN DIRECT INVESTMENT IN ALL AFFILIATES:
2007 TO 2015**

[Investment by all Hawaii affiliates of U.S. business enterprises, owned directly or indirectly, by a foreign person. There is neither country nor industry detail available by state, and data on 'Gross property, plant, and equipment' were not collected for 2008 to 2013]

Year	Gross property, plant, and equipment (million dollars)	Employment (1,000 employees)
2007	6,990	32.4
2008	(NA)	29.2
2009	(NA)	28.1
2010	(NA)	28.5
2011	(NA)	31.1
2012	(NA)	34.6
2013	(NA)	35.3
2014 1/	15,896	38.1
2015	14,904	39.1

NA Not available.

1/ Revised from previous *Data Book*.

Source: U.S. Bureau of Economic Analysis, International Data, Direct Investment & Multinational Enterprises (MNEs), Foreign direct investment in the United States, Data on activities of multinational enterprises <<http://www.bea.gov/iTable/iTable.cfm?ReqID=2&step=1#reqid=2&step=1&isuri=1>> accessed July 6, 2018.

BIBLIOGRAPHY

This volume is the 50th of its type compiled by the Hawaii State Department of Business, Economic Development & Tourism (DBEDT) and its predecessor agencies. The first was *Statistical Abstract of Hawaii, 1962*, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled *The State of Hawaii Data Book* were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. The 1987 edition was the first one issued by DBEDT. Copies can be consulted in the Hawaii State Library, University of Hawaii and community college libraries, and other collections throughout the state.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in the underlying reports.

Although most of the series in the *Data Book* are shown only for recent years, many earlier figures appear in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Permitted by the University of Hawaii Press, the electronic copy of this book can be found at http://files.hawaii.gov/dbedt/economic/data_reports/Historical-Statistics-of-Hawaii.pdf.

Statistical abstracts have also been published for the counties of Hawaii and Maui. The Hawaii County Department of Research and Development's *Hawaii County Data Book 2015* was created by the Small Business Development Center's Business Research Library and may be found only online at

<http://www.hisbdc.org/BusinessResearchLibrary/HawaiiCountyDataBook2015.aspx> and <http://www.hawaiicounty.gov/research-and-development/>.

Maui County Data Book 2017, 252 pages, a joint production of the Maui County Office of Economic Development and the Hawaii Business Research Library, a division of the Hawaii Small Business Development Center, was issued in July 2018. The price per print copy is \$20.00 when picked up in person. The online version and archives of previous editions is available at <https://www.hisbdc.org/BusinessResearchLibrary.aspx>.

Persons interested in historical data for other states or the nation as a whole should consult the *Statistical Abstract of the United States* and other Census Bureau resources such as the *State and Metropolitan Area Data Book*, *County and City Data Book* and *USA Counties* https://www.census.gov/library/publications/time-series/statistical_abstracts.html. The *Abstract* was initiated in 1878 and was an annual publication of the U.S. Census Bureau. The last edition, its 131th, was dated 2012. As of October 1, 2011, the U.S. Census Bureau terminated the collection of data for the Statistical Compendia program which affects the *Statistical Abstract of the United States*, *State and Metropolitan Area Data Book*, and the *County and City Data Book*. Accessing and ordering information for U.S. Census Bureau products may be viewed at the website <http://www.census.gov>.

**Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK:
1993-94 TO 2017**

[For earlier years, see *Data Book 1996*, p. 632]

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1993-94	571	639	8.00	1/ 12.00	20,430.00	3,000
1995	629	697	15.00	2/ 19.00	23,000.00	3,000
1996	664	705	15.00	2/ 19.00	27,040.00	3,000
1997	679	711	18.00	3/ 22.00	17,140.00	1,500
1998	718	736	20.00	4/ 24.00	18,244.32	1,250
1999	5/	749	5/	5/	5/	5/
2000	760	739	20.00	6/ 27.00	19,164.32	1,000
2001	5/	744	5/	5/	5/	5/
2002	5/	778	5/	5/	5/	5/
2003	5/	744	5/	5/	5/	5/
2004	5/	796	5/	5/	5/	5/
2005	5/	797	5/	5/	5/	5/
2006	786	790	7/	7/	11,312.00	400
2007	5/	807	5/	5/	5/	5/
2008	5/	802	5/	5/	5/	5/
2009	5/	800	5/	5/	5/	5/
2010	5/	801	5/	5/	5/	5/
2011	5/	819	5/	5/	5/	5/
2012	5/	833	5/	5/	5/	5/
2013	5/	850	5/	5/	5/	5/
2014	5/	844	5/	5/	5/	5/
2015	5/	864	5/	5/	5/	5/
2016	5/	863	5/	5/	5/	5/
2017	5/	860	5/	5/	5/	5/

- 1/ U.S. Mainland price; \$15.00 for Canada, \$20.00 for Mexico, and \$40.00 for all other countries.
2/ U.S. Mainland price; \$21.00 for Canada, \$28.00 for Mexico, and \$48.00 for all other countries.
3/ U.S. Mainland price; \$25.00 for Canada, \$38.00 for Mexico, and \$51.00 for all other countries.
4/ U.S. Mainland price; \$27.00 for Canada, \$40.00 for Mexico, and \$53.00 for all other countries.
5/ The *State of Hawaii Data Book* was not printed. It is available electronically on the Internet. It is also available on CD-ROM for selected *Data Books*.
6/ U.S. Mainland price; \$36.00 for Canada, \$41.00 for Mexico, and \$53.00 for all other countries.
7/ 2006 *Data Book* was not available for purchase.
Source: Hawaii State Department of Business, Economic Development & Tourism records.

AVAILABILITY OF ELECTRONIC VERSIONS OF THE DATA BOOK TABLES

Selected *State of Hawaii Data Books* are available to the public on CD-ROMs and the Internet.

Electronic versions of the *Data Book* on CD-ROM were distributed on the Hawai'i Data Disc series. The first Hawai'i Data Disc, produced by the Research and Economic Analysis Division of DBEDT in 1993, contained the 1989 through 1992 *Data Books*. The 2002 Hawai'i Data Disc became available in September 2002 and included the *Data Books* for 1998 through 2001; the 2003 Hawai'i Data Disc in November 2003 with the *Data Books* for 2001 and 2002; the 2004 Hawai'i Data Disc in November 2004 with the *Data Books* for 2002 and 2003; the 2005 Hawai'i Data Disc in August 2005 with the *Data Books* for 2000 through 2004; and the 2006 Hawai'i Data Disc in August 2006 with the *Data Books* for 2001 through 2005. There were two releases of the 2007 Hawai'i Data Disc. The first, Version 1.0, was released in August 2007 and the second, Version 2.0, was released in January 2008. Both versions included the *Data Books* for 2002 through 2006, but Version 2.0 also included revised and updated *Data Book* tables. The 2008 Hawai'i Data Disc became available in August 2008 and included the *Data Books* for 2003 through 2007. The last CD-ROM, the 2009 Hawai'i Data Disc, was released in August 2009 and included the *Data Books* for 2004 through 2008. From 2010, the Hawai'i Data Disc was no longer produced.

Since 1996, the *Data Book* and other DBEDT publications and information have been made available on the Internet. The current DBEDT Internet site is <http://dbedt.hawaii.gov/>. *Data Book* tables may be viewed or downloaded from this website. Updates and revisions to the tables will also be accessible throughout the year on the DBEDT Internet site.

A related online product is the *State of Hawaii Data Book Time Series*. Information from *Data Books* published between 1969 to the present were combined to produce a time series for selected tables. Only tables that had at least five years of continuous data were selected. This product is also found on the current DBEDT Internet site.

Time-series data from the *Data Book* can also be obtained using the custom search function from the DBEDT Data Warehouse, a web-based data query platform. The Internet site which hosts the DBEDT Data Warehouse is at <http://dbedt.hawaii.gov/economic/datawarehouse/>.

For further information about available data and sources, users should call the Research and Economic Analysis Division at (808) 586-2466.



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