

THE STATE OF HAWAII

DATA BOOK 1998

A STATISTICAL ABSTRACT

DBEDT

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

P.O. Box 2359 • Honolulu, Hawaii 96804
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OF HAWAII**

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This report has been produced by the Hawaii State Department of Business, Economic Development & Tourism's Research and Economic Analysis Division, headed by Pearl Imada Iboshi, Ph.D. It was compiled and edited by Glenn K. Ifuku, Research and Statistics Officer, with the assistance of Robert C. Schmitt (retired State Statistician), Mary Blewitt, Hans Meyer, Jan Nakamoto, Paul Oshiro, Kenoilani Koli, Iris Mishima, Susan Yanos, Jason Chaves and Michelle Fernandez. The Index was prepared by the staff of the Business Resource Center Library. Stewart A. Wastell, illustrator, drew the district and neighborhood maps.

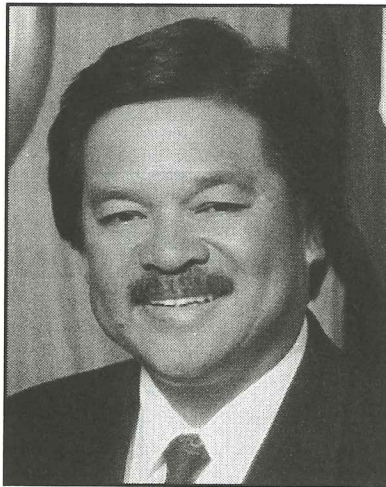
Copies of this report are available from the DBEDT Research and Economic Analysis Division, 250 South Hotel Street, 4th floor, P. O. Box 2359, Honolulu, Hawaii 96804. The price per copy is \$20.00 in Hawaii, \$24.00 air-mailed postpaid to the continental United States, \$27.00 air-mailed postpaid to Canada, \$40.00 air-mailed postpaid to Mexico, and \$53.00 air-mailed postpaid to all other countries. Please make check or money order payable to **The State of Hawaii**.

ABOUT THIS BOOK

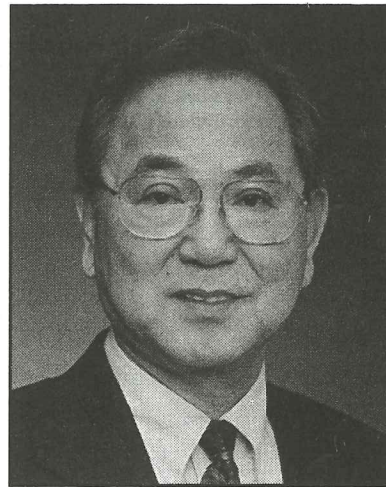
The Department of Business, Economic Development & Tourism is pleased to present the 1998 edition of the *State of Hawaii Data Book*, the official summary of statistics on the social, economic, and political organization of our state.

This publication, the 31st in the series, closely follows the organization and format of its counterpart, the *Statistical Abstract of the United States*, to facilitate comparison of state and national data. It places the 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.



Benjamin J. Cayetano
Governor of Hawaii



Seiji F. Naya
Director of Business,
Economic Development & Tourism

STATE OF HAWAII

COUNTIES and DISTRICTS

KURE ATOLL
MIDWAY ISLANDS

PEARL AND HERMES ATOLL

LISIANSKI ISLAND

LAYSAN ISLAND

MARO REEF

GARDNER PINNACLES

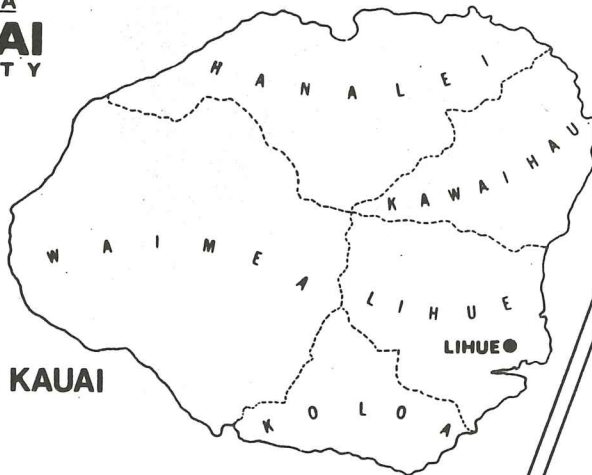
NOTE: The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession) are part of the Honolulu District.

District boundaries shown are those in effect prior to 1989, when Waikakalaua, Waipio Acres, and Mililani Town were shifted from Ewa District to Waiaua District, and 1991, when Sunset Beach was transferred from Koolauloa District to Waialua District.

FRENCH FRIGATE SHOALS

NECKER ISLAND

INSET A
KAUAI
COUNTY



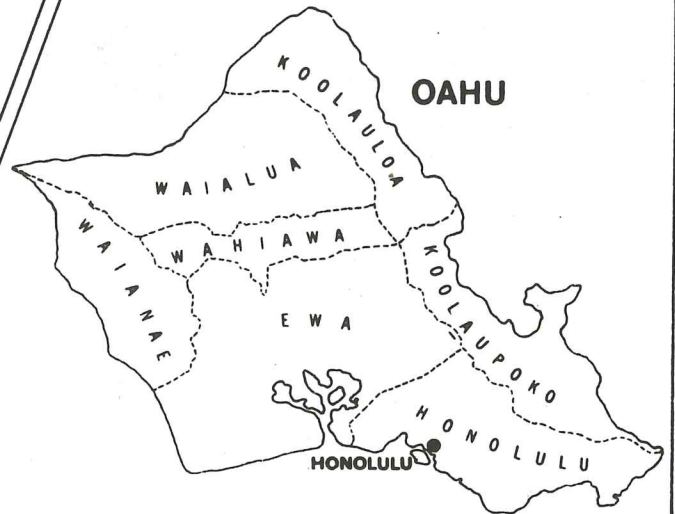
KAUAI



NIIHAU



INSET B
HONOLULU
CITY AND COUNTY



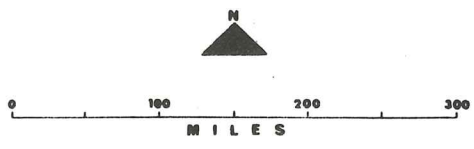
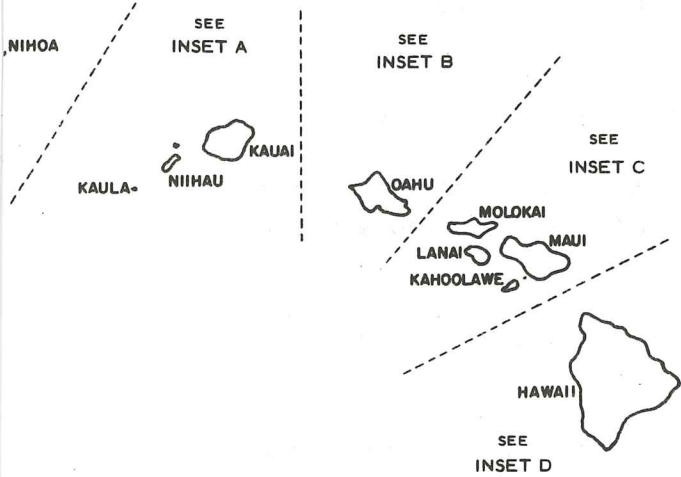
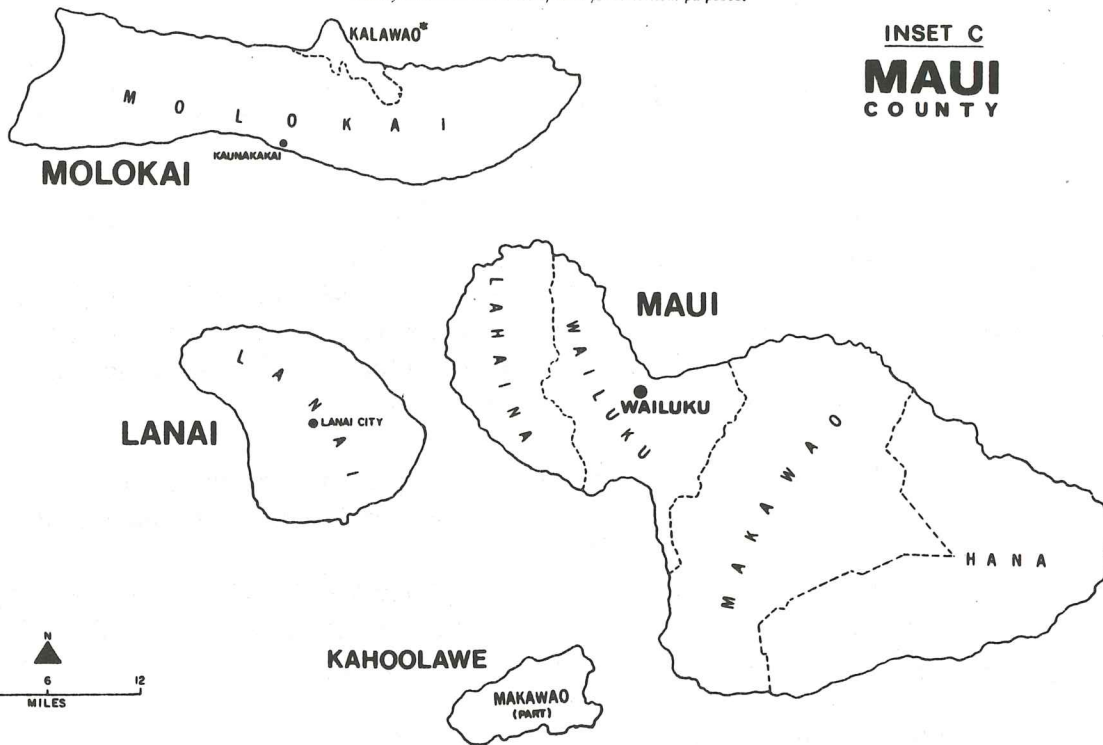
OAHU

HONOLULU



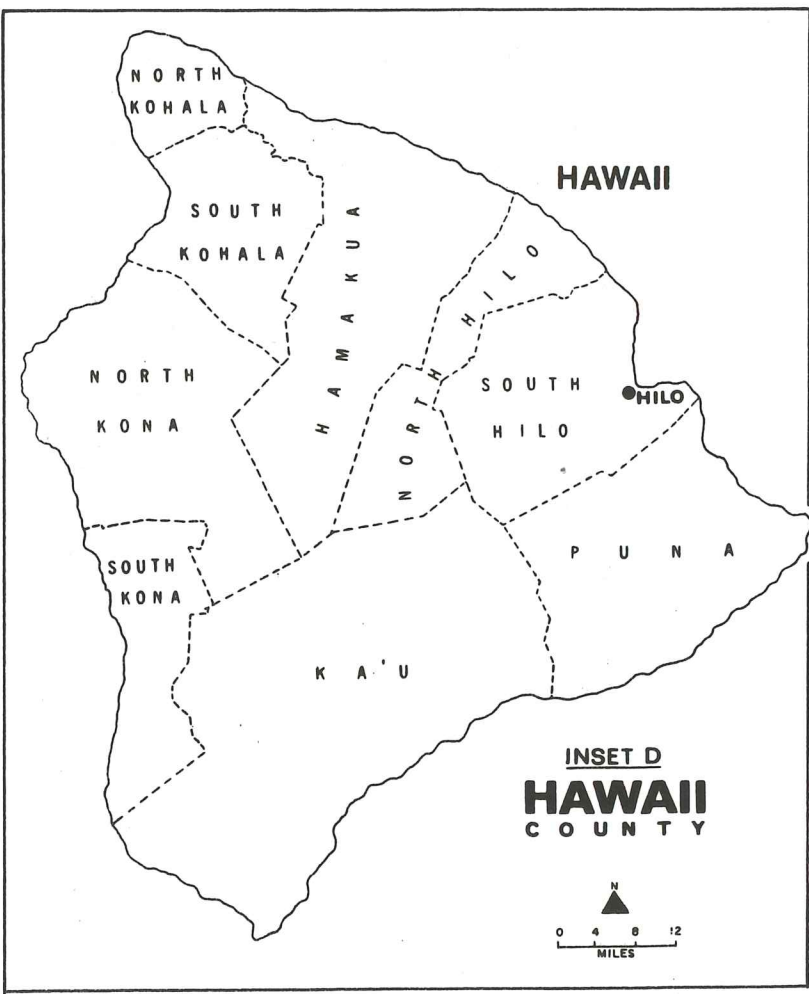
*Kauaoo is officially designated as a separate county but is usually treated as a district of Maui for statistical purposes.

**INSET C
MAUI
COUNTY**



STATE OF HAWAII
DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM

1991



**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. Bureau of the Census in its annual 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. Cells without available data usually show (NA), and sometimes three dots (...). The symbol (X) is used when data are not applicable.

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.

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 conducted by the U.S. Bureau of the Census, the estimates developed annually by the Federal-State Cooperative Program for Population Estimates, the Hawaii Health Survey conducted regularly since 1969 by the Hawaii State Department of Health, the ongoing series on visitors present and residents absent provided by the Hawaii Visitors & Convention Bureau, and the U.S. Immigration and Naturalization Service tabulations on immigration. 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: 1998*.

Table 1.01-- POPULATION OF COUNTIES: 1831 TO 1990

[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 (including Kalawao)
	Number	Percent change 1/				
1831-32 2/	130,313	...	29,755	45,792	12,024	42,742
1835-36 3/	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

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

2/ Total population also reported as 129,814.

3/ 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, and *1990 Census of Population and Housing*, 1990 CPH-1-13 (August 1991), table 2.

Table 1.02-- CHARACTERISTICS OF THE POPULATION: 1831 TO 1990

[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

NA Not available.

1/ Includes Portuguese and most Puerto Ricans. Data for 1970-1990 also include some persons of mixed race.

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

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.

**Table 1.03-- RESIDENT POPULATION, BY MILITARY STATUS:
1980 TO 1998**

[Excludes visitors present but includes residents temporarily absent]

Year	Total resident population 1/	Armed forces 2/	Civilian population		
			All civilians	Military dependents 3/	Not military dependents
1980: April 1	964,691	57,056	907,635	64,023	843,612
July 1	968,500	57,900	910,600	64,100	846,500
1981: July 1	978,195	56,576	921,619	64,344	857,275
1982: July 1	993,780	54,879	938,901	66,709	872,192
1983: July 1	1,012,717	55,162	957,555	66,252	891,303
1984: July 1	1,027,922	57,340	970,582	67,083	903,499
1985: July 1	1,039,698	56,383	983,315	64,281	919,034
1986: July 1	1,051,762	58,122	993,640	66,210	927,430
1987: July 1	1,067,917	58,122	1,009,795	64,850	944,945
1988: July 1	1,079,827	56,815	1,023,012	69,905	953,107
1989: July 1	1,094,588	56,360	1,038,228	60,274	977,954
1990: April 1	1,108,229	55,222	1,053,007	59,935	993,072
July 1	1,112,772	55,288	1,057,484	60,614	996,870
1991: July 1	1,132,040	54,738	1,077,302	63,328	1,013,974
1992: July 1	1,151,344	55,099	1,096,245	56,994	1,039,251
1993: July 1	1,163,835	52,674	1,111,161	62,166	1,048,995
1994: July 1	1,176,078	52,845	1,123,233	54,338	1,068,895
1995: July 1	1,183,066	50,729	1,132,337	46,519	1,085,818
1996: July 1	1,187,283	47,986	1,139,297	55,337	1,083,960
1997: July 1	1,192,057	44,542	1,147,515	55,575	1,091,940
1998: July 1	1,193,001	44,984	1,148,017	60,538	1,087,479

1/ Estimates after April 1, 1990 are revisions released in December 1998, and may differ somewhat from earlier figures cited in other tables.

2/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. They differ somewhat from corresponding figures from other sources.

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

Source: Federal-State Cooperative Program for Population Estimates; Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers.

**Table 1.04-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE
STATUS: 1980 TO 1998**

Year	Resident population 1/		De facto population 3/		De facto-resident ratio
	Total	Temporarily absent 2/	Total	Visitors present 2/	
1980: April 1	964,691	9,600	1,052,700	97,600	1.091
July 1	968,500	9,600	1,055,400	96,500	1.090
1981: July 1	978,200	11,600	1,062,600	96,000	1.086
1982: July 1	993,800	14,500	1,084,600	105,300	1.091
1983: July 1	1,012,700	11,500	1,109,200	108,000	1.095
1984: July 1	1,027,900	16,100	1,130,500	118,700	1.100
1985: July 1	1,039,700	18,600	1,137,800	116,700	1.094
1986: July 1	1,051,800	17,200	1,167,500	132,900	1.110
1987: July 1	1,067,900	15,700	1,186,500	134,300	1.111
1988: July 1	1,079,800	20,800	1,200,400	141,400	1.112
1989: July 1	1,094,600	18,700	1,245,600	169,700	1.138
1990: April 1	1,108,229	18,360	1,248,360	158,491	1.126
July 1	1,112,772	17,970	1,256,872	162,070	1.129
1991: July 1	1,132,040	16,590	1,273,040	157,590	1.125
1992: July 1 4/	1,151,344	37,080	1,267,654	153,390	1.101
1993: July 1 4/	1,163,835	49,117	1,263,468	148,750	1.086
1994: July 1	1,176,078	50,190	1,285,088	159,200	1.093
1995: July 1	1,183,066	50,562	1,291,564	159,060	1.092
1996: July 1	1,187,283	51,692	1,297,201	161,610	1.093
1997: July 1	1,192,057	35,808	1,314,369	5/ 158,120	1.103
1998: July 1	1,193,001	31,743	1,321,098	159,840	1.107

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 but excludes persons of local origin attending school or in military service outside the area. See also table 1.03, footnote 1 and 2. Total resident population estimates after April 1, 1990 are revisions released in December 1998 and may differ from corresponding figures in other *Data Book* tables.

2/ 12-month moving averages.

3/ 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. Total de facto population estimates after April 1, 1990 are revised and may differ from corresponding figures in other *Data Book* tables.

4/ The large increases in residents absent after 1991 and corresponding declines in visitors present may partly reflect changes in survey methods.

5/ Revised.

Source: Federal-State Cooperative Program for Population Estimates; Hawaii Visitors & Convention Bureau, Basic Data Survey; and the Hawaii State Department of Business, Economic Development & Tourism.

Table 1.05-- RESIDENT POPULATION OF ISLANDS: 1950 TO 1990

Island	1950	1960	1970	1980	1990
State of Hawaii	499,794	632,772	769,913	964,691	1,108,229
Hawaii	68,350	61,332	63,468	92,053	120,317
Kahoolawe	-	-	-	-	-
Maui 1/	40,103	35,717	38,691	62,823	91,361
Lanai	3,136	2,115	2,204	2,119	2,426
Molokai	5,280	5,023	5,261	6,049	6,717
Oahu 2/	353,006	500,394	630,497	762,534	836,231
Kauai	29,683	27,922	29,524	38,856	50,947
Niihau 3/	222	254	237	226	230
Northwestern Hawaiian Islands	14	15	31	31	24
French Frigate Shoals	14	(NA)	(NA)	4	-
Laysan Island	-	(NA)	(NA)	5	-
Kure Atoll	-	(NA)	(NA)	22	(6/)
Other islands 4/	-	(NA)	(NA)	-	-
OTHER ISLANDS 5/					
Midway Islands	416	2,356	2,220	453	13
Baker Island	-	-	-	-	-
Howland Island	-	-	-	-	-
Jarvis Island	-	-	-	-	-
Johnston Atoll	46	156	1,007	327	173
Kingman Reef	-	-	-	-	-
Palmyra Atoll	-	-	-	-	-

NA Not available.

1/ Including Molokini, uninhabited.

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.

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

5/ Not legally part of the State of Hawaii.

6/ Reported as uninhabited by the 1990 census but with 24 by the U.S. Coast Guard.

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).

Table 1.06-- RESIDENT POPULATION, BY COUNTIES: 1980 TO 1998

[1990-1998 figures are revised and were released on 3/12/99. Based on place of usual residence. Includes armed forces 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/
1980: April 1	964,691	762,565	92,053	39,082	70,991
July 1	968,500	764,600	92,900	39,400	71,600
1981: July 1	978,195	767,573	96,122	40,457	74,043
1982: July 1	993,780	776,075	98,798	41,804	77,103
1983: July 1	1,012,717	789,097	100,764	42,796	80,060
1984: July 1	1,027,922	797,791	103,528	43,634	82,969
1985: July 1	1,039,698	804,294	105,900	44,357	85,147
1986: July 1	1,051,762	810,444	108,362	45,567	87,389
1987: July 1	1,067,917	818,447	111,735	47,203	90,532
1988: July 1	1,079,827	824,072	113,439	48,549	93,767
1989: July 1	1,094,588	831,337	116,585	49,847	96,819
1990: April 1	1,108,229	836,231	120,317	51,177	100,504
July 1	1,112,772	838,107	121,459	51,620	101,586
1991: July 1	1,132,040	846,568	127,350	53,139	104,983
1992: July 1	1,151,344	858,543	131,272	54,003	107,526
1993: July 1	1,163,835	864,366	134,191	54,835	110,443
1994: July 1	1,176,078	871,362	136,284	55,677	112,755
1995: July 1	1,183,066	873,027	138,537	56,092	115,410
1996: July 1	1,187,283	873,131	139,726	56,728	117,698
1997: July 1	1,192,057	874,449	141,848	56,539	119,221
1998: July 1	1,193,001	872,478	143,135	56,603	120,785

1/ Including Kalawao County (Kalaupapa Settlement). Kalawao had 144 inhabitants in 1980, 130 in 1990, and 74 in 1998.

Source: Federal-State Cooperative Program for Population Estimates.

Table 1.07-- DE FACTO POPULATION, BY COUNTIES: 1980 TO 1998

[1990 -1997 figures were revised. Includes all persons physically present in area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as averages for 12-month periods centered on estimate date]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1980: April 1	1,052,700	822,000	98,700	46,100	85,900
July 1	1,055,400	823,400	99,300	46,400	86,400
1981: July 1	1,062,600	824,700	101,700	47,300	89,000
1982: July 1	1,084,600	837,600	104,300	48,400	94,200
1983: July 1	1,109,200	846,300	108,500	50,500	104,000
1984: July 1	1,130,500	852,300	109,600	54,100	114,400
1985: July 1	1,137,800	854,800	112,500	55,200	115,400
1986: July 1	1,167,500	871,000	116,600	59,700	120,100
1987: July 1	1,186,500	881,000	120,400	62,100	123,100
1988: July 1	1,200,400	888,200	122,200	64,200	125,700
1989: July 1	1,245,600	905,900	132,300	68,100	139,200
1990: April 1	1,248,400	908,000	135,100	68,000	137,300
July 1	1,256,900	912,000	136,500	69,000	139,400
1991: July 1	1,273,100	913,900	144,100	71,400	143,700
1992: July 1	1,267,700	909,300	146,400	65,700	146,300
1993: July 1	1,263,500	907,000	147,600	60,800	148,100
1994: July 1	1,285,100	917,600	149,800	66,700	151,000
1995: July 1	1,291,600	918,800	151,300	68,000	153,400
1996: July 1	1,297,200	919,600	152,800	69,600	155,200
1997: July 1	1,314,400	925,500	159,100	71,000	158,900
1998: July 1	1,321,100	923,400	163,100	72,400	162,300

1/ Including Kalawao County (Kalaupapa Settlement). The 1998 de facto population of Kalawao was 74.

Source: Federal-State Cooperative Program for Population Estimates; Hawaii Visitors & Convention Bureau, Basic Data Survey; calculations by DBEDT.

Table 1.08-- RESIDENT AND DE FACTO POPULATION, BY COUNTIES AND ISLANDS: 1990 AND 1995

County and island	Resident population			De facto population		
	April 1, 1990	July 1, 1995	Percent change	April 1, 1990	July 1, 1995 1/	Percent change
State total	1,108,229	1,179,198	6.4	1,248,360	1,287,596	3.1
Counties:						
Hawaii	120,317	137,291	14.1	135,080	150,304	11.3
Maui	100,374	115,070	14.6	137,170	153,522	11.9
Kalawao	130	93	-28.5	128	93	-27.3
Honolulu	836,231	870,761	4.1	908,019	915,534	0.8
Kauai	51,177	55,983	9.4	67,963	68,133	(Z)
Island:						
Hawaii	120,317	137,291	14.1	135,080	150,304	11.3
Maui	91,361	105,336	15.3	126,992	141,169	11.2
Kahoolawe	-	-	...	-	-	...
Lanai	2,426	2,989	23.2	2,629	4,571	73.9
Molokai	6,717	6,838	1.8	7,677	7,875	2.6
Oahu 2/	836,231	870,761	4.1	908,019	915,534	0.8
Kauai 3/	50,947	55,983	(NA)	67,737	68,133	(NA)
Niihau 3/	230	(NA)	(NA)	226	(NA)	(NA)

NA Not available.

Z Less than 0.05 percent.

1/ Preliminary. State total differs from figure displayed in Table 1.04. The state total presented in the current table is based upon preliminary data by island.

2/ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, except Midway (24 residents in 1990).

3/ Niihau included with Kauai in 1995.

Source: U.S. Bureau of the Census, 1990 Public Law 94-171 counts; Hawaii State Department of Business, Economic Development & Tourism estimates of resident and de facto population based on resident population estimates in present *Data Book*, table 1.10, and Hawaii Visitors & Convention Bureau survey data on visitors present and residents absent.

**Table 1.09-- LAND AREA AND DE FACTO POPULATION DENSITY, BY
COUNTIES AND ISLANDS: 1995**

County and island	Land area		De facto population density	
	Square km.	Square miles	Per square km.	Per square mile
State total	16,636.5	6,423.4	77.4	200.5
Counties:				
Hawaii	10,433.1	4,028.2	14.4	37.3
Maui	3,002.5	1,159.3	51.1	132.4
Kalawao	34.2	13.2	2.7	7.0
Honolulu	1,554.5	600.2	589.0	1,525.4
Kauai	1,612.2	622.5	42.3	109.5
Islands:				
Hawaii	10,433.1	4,028.2	14.4	37.3
Maui	1,883.7	727.3	74.9	194.1
Kahoolawe	115.6	44.6	0.0	0.0
Lanai	364.0	140.5	12.6	32.5
Molokai	673.4	260.0	11.7	30.3
Oahu 1/	1,554.5	600.2	589.0	1,525.4
Kauai	1,430.5	552.3	47.6	123.4
Niihau 2/	181.7	70.2	(3/)	(3/)

1/ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, except Midway (7.0 sq. km., 2.7 sq. mi., 24 inhabitants).

2/ Includes Kaula (1.0 sq. km., 0.4 sq. mi.) and Lehua (1.0 sq. km., 0.4 sq. mi.), both uninhabited.

3/ Niihau population included with Kauai. In 1990, densities were 122.6 per square mile on Kauai and 3.2 per square mile on Niihau.

Source: Area from U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 15, and 1990 Public Law 94-171 data; population from present *Data Book*, table 1.08; density computed.

**Table 1.10-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS:
1980, 1990, AND 1995**

County and district (see maps, pp. 6-7)	April 1, 1980	April 1, 1990	July 1, 1995	Percent change	
				1980 to 1990	1990 to 1995
State total	964,691	1,108,229	1,179,198	14.9	6.4
Hawaii County	92,053	120,317	137,291	30.7	14.1
Puna	11,751	20,781	27,585	76.8	32.7
South Hilo	42,278	44,639	45,790	5.6	2.6
North Hilo	1,679	1,541	1,561	-8.2	1.3
Hamakua	5,128	5,545	5,757	8.1	3.8
North Kohala	3,249	4,291	4,826	32.1	12.5
South Kohala	4,607	9,140	12,098	98.4	32.4
North Kona	13,748	22,284	25,447	62.1	14.2
South Kona	5,914	7,658	8,619	29.5	12.5
Ka'u	3,699	4,438	5,607	20.0	26.3
Maui County 1/	70,991	100,504	115,163	41.6	14.6
Hana	1,423	1,895	2,027	33.2	7.0
Makawao	19,005	29,207	33,854	53.7	15.9
Wailuku	32,111	45,685	53,316	42.3	16.7
Lahaina	10,284	14,574	16,137	41.7	10.7
Lanai	2,119	2,426	2,989	14.5	23.2
Molokai	5,905	6,587	6,745	11.5	2.4
Kalawao	144	130	93	-9.7	-28.5
City & Co. of Honolulu	762,565	836,231	870,761	9.7	4.1
Honolulu	365,048	377,059	369,485	3.3	-2.0
Koolaupoko	109,373	117,694	121,990	7.6	3.7
Koolauloa	14,195	18,443	19,152	29.9	3.8
Waialua	9,849	11,549	11,572	17.3	0.2
Wahiawa	41,562	43,886	48,905	5.6	11.4
Waianae	31,487	37,411	37,966	18.8	1.5
Ewa	191,051	230,189	261,691	20.5	13.7
Kauai County	39,082	51,177	55,983	30.9	9.4
Hanalei	2,668	4,631	5,404	73.6	16.7
Kawaihau	10,497	15,627	17,537	48.9	12.2
Lihue	8,590	10,663	11,237	24.1	5.4
Koloa	8,734	11,368	12,586	30.2	10.7
Waimea	8,593	8,888	9,220	3.4	3.7

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 (March 1993), table 8; 1995 county estimates from the Federal-State Cooperative Program for Population Estimates; 1995 district estimates by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.11-- RESIDENT POPULATION OF ISLANDS AND CENSUS
DESIGNATED PLACES: 1990**

[This table presents data for the 123 "census designated places" defined by the Hawaii State Department of Business, Economic Development & Tourism, in cooperation with the Bureau of the Census, for the 1990 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]

Island and place	Resident population	Island and place	Resident population
Hawaii	120,317	Hawaii (con.):	
Captain Cook	2,595	Waimea	5,972
Halaula	496	Wainaku	1,243
Hawaiian Beaches	2,846	Maui	91,361
Hawaiian Ocean View	969	Haiku-Pauwela	4,509
Hawaiian Paradise Park	3,389	Haliimaile	841
Hawi	924	Hana	683
Hilo	37,808	Kaanapali	579
Holualoa	3,834	Kahului	16,889
Honalo	1,926	Kapalua	408
Honaunau-Napoopoo	2,373	Kihei	11,107
Honokaa	2,186	Lahaina	9,073
Honomu	532	Maalaea	443
Kahaluu-Keauhou	1,990	Makawao	5,405
Kailua	9,126	Napili-Honokowai	4,332
Kalaea	4,490	Paia	2,091
Kapaau	1,083	Pukalani	5,879
Keaau	1,584	Waihee-Waiehu 1/	4,004
Kealahou	1,453	Waikapu	729
Kukuihaele	316	Wailea-Makena	3,799
Kurtistown	910	Wailuku	10,688
Laupahoehoe	508		
Mountain View	3,075	Kahoolawe	-
Naalehu	1,027		
Paauilo	620	Lanai	2,426
Pahala	1,520	Lanai City	2,400
Pahoa	1,027		
Papaikou	1,634	Molokai	6,717
Paukaa	495	Kaunakakai	2,658
Pepeekeo	1,813	Kualapuu	1,661
Puako	397	Maunaloa	405
Volcano	1,516		
Waikoloa Village	2,248		

Continued on next page.

**Table 1.11-- RESIDENT POPULATION OF ISLANDS AND CENSUS
DESIGNATED PLACES: 1990 -- Con.**

Island and place	Resident population	Island and place	Resident population
Oahu 2/	836,231	Oahu (con.):	
Ahuimanu	8,387	Waianae	8,758
Aiea	8,906	Waikane	717
Barbers Point Housing	2,218	Waimalu	29,967
Ewa Beach	14,315	Waimanalo	3,508
Ewa Gentry	1,992	Waimanalo Beach	4,185
Ewa Villages	3,780	Waipahu	31,435
Halawa	13,408	Waipio	11,812
Haleiwa	2,442	Waipio Acres	5,304
Hauula	3,479	Wheeler AFB	2,600
Heeia	5,010	Whitmore Village	3,373
Hickam Housing	6,553		
Honolulu 3/	377,059	Kauai	50,947
Iroquois Point	4,188	Anahola	1,181
Kaaawa	1,138	Eleele	1,489
Kahaluu	3,068	Hanalei	461
Kahuku	2,063	Hanamaulu	3,611
Kailua	36,818	Hanapepe	1,395
Kaneohe	35,448	Kalaheo	3,592
Kawela Bay	366	Kalihiwai	435
Laie	5,577	Kapaa	8,149
Maili	6,059	Kaumakani	803
Makaha	7,990	Kekaha	3,506
Makaha Valley	1,012	Kilauea	1,685
Makakilo City	9,828	Koloa	1,791
Maunawili	4,847	Lawai	1,787
Mililani Town	29,359	Lihue	5,536
Mokapu 4/	11,662	Omao	1,142
Mokuleia	1,776	Pakala Village	565
Nanakuli	9,575	Poipu	975
Pearl City	30,993	Princeville	1,244
Punaluu	672	Puhi	1,210
Pupukea	4,111	Wailua	2,018
Schofield Barracks	19,597	Wailua Homesteads	3,870
Village Park	7,407	Waimea	1,840
Wahiawa	17,386		
Waialua	3,943	Niihau, Lehua and Kaula	230

Footnotes and source on next page.

**Table 1.11-- RESIDENT POPULATION OF ISLANDS AND CENSUS
DESIGNATED PLACES: 1990 -- Con.**

1/ Spelling corrected from that in census report.

2/ Includes the Northwestern Hawaiian Islands, except Midway. This is the area legally described as the City and County of Honolulu.

3/ Honolulu CDP is coterminous with Honolulu Census County Division and also Honolulu District. It extends from Red Hill to Makapuu Point, south and west of the crest of the Koolau Mts. Like all other CDPs on Oahu, it is part of a single municipality, the City and County of Honolulu. The population count has been corrected from the published figure.

4/ Official name, used in 1980 census. The 1990 census bulletin refers to Mokapu as Kaneohe Station.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 1.

**Table 1.12-- POST-ENUMERATION SURVEY (PES) ESTIMATES OF THE
TOTAL POPULATION OF THE UNITED STATES, HAWAII, AND
SELECTED COUNTIES: 1990**

Subject	United States	State of Hawaii	Counties over 100,000		
			Honolulu	Hawaii	Maui
Enumerated population	248,709,873	1,108,229	836,231	120,317	100,374
PES estimate	252,712,822	1,129,162	852,074	122,654	102,187
Percent net undercount	1.584	1.854	1.859	1.905	1.774
Standard error	0.191	0.808	0.837	0.750	0.741

Source: U.S. Bureau of the Census, *Assessment of Accuracy of Adjusted Versus Unadjusted 1990 Census Base for Use in Intercensal Estimates* (August 7, 1992), Att. 4 and 12.

Table 1.13-- POPULATION RANKING OF THE STATE, HONOLULU, AND COUNTIES: 1990 AND 1998

Comparison 1/	Resident population, 1998	Ranking		
		Population 2/		Percent change, 1990-1998 3/
		1990	1998	
State of Hawaii:				
Among the 50 States and D.C.	1,193,001	41	41	23
Among the 50 States	1,193,001	41	41	23
Honolulu MSA: 4/				
Among all MSAs and CMSAs	5/ 871,766	54	5/ 55	6/ 183
City and County of Honolulu: 7/				
Among all counties	872,478	40	43	1,725
Among all incorporated places	872,478	11	11	8/ 118
Honolulu CDP: 9/				
Among all incorporated places	395,789	39	41	8/ 115
Hawaii County 10/	143,135	383	362	425
Kalawao County 10/	74	3,139	3,141	3,141
Kauai County 10/	56,603	823	816	971
Maui County 10/	120,711	457	429	381

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

2/ Largest number ranking 1.

3/ Ranking of the area in regard to 1990-98 population percent change, greatest percent change ranking 1.

4/ The Honolulu MSA consists of the City and County of Honolulu, comprising Oahu and the Northwestern Hawaiian Islands (except Midway).

5/ 1996 estimate.

6/ 1990-1996 percent change ranking among the 273 U.S. MSAs.

7/ The City and County of Honolulu consists of Oahu and the Northwestern Hawaiian Islands (except Midway).

8/ 1990-1998 percent change ranking among the 218 U.S. cities with populations of 100,000 and greater.

9/ The Honolulu CDP consists 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). Honolulu and Arlington are the only CDPs for which postcensal population estimates are calculated by the Census Bureau.

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

Source: U.S. Bureau of the Census, press releases, printouts, and records.

Table 1.14-- CHARACTERISTICS OF OAHU NEIGHBORHOODS: 1990

Neighborhood Area (see maps on pp. 24-25) 1/	Resident population	House- holds	Average household size	Percent college grads 2/	Median household income 3/
Oahu total	836,231	265,625	3.02	24.6	40,581
1 Hawaii Kai	27,432	8,835	3.08	41.7	65,901
2 Kuliouou-Kalani Iki	15,280	4,986	3.06	45.0	65,844
3 Waialae-Kahala	9,635	3,549	2.71	46.3	66,228
4 Kaimuki	18,425	6,216	2.90	26.8	45,397
5 Diamond Head/Kapahulu/ St. Louis Heights	20,860	8,040	2.56	27.3	39,357
6 Palolo	13,034	4,097	3.16	20.7	40,844
7 Manoa	20,834	6,420	2.79	44.5	51,866
8 McCully/Moiliili	28,466	13,428	2.08	27.8	31,974
9 Waikiki	19,757	11,445	1.71	29.4	26,980
10 Makiki/Tantalus	29,989	14,681	2.03	36.0	33,623
11 Ala Moana/Kakaako	10,943	6,218	1.72	26.0	25,162
12 Nuuanu/Punchbowl	16,221	5,776	2.78	30.1	44,199
13 Downtown	11,752	5,814	1.89	26.6	25,436
14 Liliha/Kapalama	21,235	6,683	3.00	21.7	43,164
15 Kalihi/Palama	40,147	10,967	3.46	9.1	25,647
16 Kalihi Valley	17,798	4,079	4.33	9.5	39,794
17 Moanalua	12,260	3,576	3.30	24.9	43,706
18 Aliamanu/Salt Lake	37,442	12,029	3.11	23.3	38,078
19 Airport	26,734	5,877	3.40	19.3	29,989
20 Aiea	32,648	10,680	2.93	24.4	45,585
21 Pearl City	46,758	13,540	3.44	22.3	55,053
22 Waipahu	51,295	13,921	3.68	15.9	46,501
23 Ewa	42,967	11,449	3.65	15.9	40,679
24 Waianae Coast	37,411	9,429	3.93	8.9	32,392
25 Mililani/Waipio	34,681	10,630	3.26	30.9	51,807
26 Wahiawa	44,541	11,020	3.45	12.6	29,767
27 North Shore	15,749	4,764	3.23	18.9	37,209
28 Koolauloa	14,340	3,614	3.67	22.2	35,283
29 Kahaluu	14,397	4,258	3.37	26.4	50,454
30 Kaneohe	40,595	12,237	3.25	26.4	51,497
31 Kailua	41,886	13,283	3.13	34.5	56,788
32 Waimanalo	9,057	2,088	4.30	10.1	42,763
33 Mokuapu/Kaneohe MCAS	11,662	1,996	3.85	13.3	26,927

1/ Data in this table pertain to neighborhood areas whose boundaries are very close but do not match exactly to the neighborhood board boundaries.

2/ Percent of persons 25 years and over with a bachelor's degree or higher.

3/ Median 1989 income of households, in dollars.

Source: City and County of Honolulu Planning Department, tabulations from the 1990 U.S. Census.

Table 1.15-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990

[See maps, pp. 6-7 and 28-29]

District 1/ and census tract	Population	Households	District 1/ and census tract	Population	Households
C & C of Honolulu	836,231	265,304	24.01	3,016	1,356
			24.02	3,285	1,645
Honolulu	377,059	137,801	25	4,229	2,144
1.02	1,674	545	26	4,957	2,103
1.04	8,376	2,455	27.01	4,340	622
1.05	5,251	1,591	27.02	4,998	2,000
1.06	6,292	2,249	28	4,075	1,431
1.07	3,009	908	29	1,383	438
1.08	2,830	1,008	30	4,236	1,531
2	5,742	1,838	31.01	3,851	1,246
3.98	5,617	1,833	31.02	3,537	1,108
4.97	2,771	949	32	853	314
4.98	3,372	1,100	33	876	290
5	3,744	1,353	34.03	5,177	2,652
6	1,311	491	34.04	4,757	2,284
7	2,993	971	34.05	3,080	1,768
8	3,856	1,233	34.06	5,924	2,863
9.01	2,334	906	34.07	1,136	620
9.02	3,779	1,338	35	4,688	2,364
9.03	2,760	973	36.97	2,369	1,195
10	3,194	1,005	36.98	5,235	3,220
11	4,072	1,132	37	2,325	1,305
12.01	3,118	1,127	38	721	368
12.02	3,081	1,020	39	181	24
13	4,488	1,572	40	991	626
14	2,595	855	41	4,742	2,150
15	3,664	1,243	42	2,672	1,508
16	3,911	1,373	43	5,632	2,312
17	2,536	1,384	44	5,429	1,594
18.01	1,307	723	45	5,264	2,061
18.02	4,411	2,518	46	3,687	1,212
19.01	1,190	702	47	4,837	1,567
19.02	6,000	3,568	48	5,991	1,645
20.01	3,037	1,714	49	2,978	948
20.02	3,823	2,183	50	4,724	1,599
21	3,691	1,648	51	2,399	1,133
22	7,292	3,552	52	2,480	1,169
23	5,687	2,659	53	4,208	1,490

Continued on next page.

Table 1.15-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990 - Con.

District 1/ and census tract	Population	Households	District 1/ and census tract	Population	Households
54	1,609	402	75.05	5,189	1,715
55	2,144	622	75.06	1,367	400
56	6,185	1,877	77.01	4,206	1,170
57	1,867	624	77.02	4,689	1,456
57.99 2/	298	-	78.03	9,136	2,703
58	3,404	1,073	78.04	2,034	584
59	3,570	782	78.05	5,300	1,687
60	5,857	1,367	78.06	5,441	1,867
61	3,575	794	78.07	5,759	2,768
62.01	5,040	1,228	78.08	2,960	959
62.02	2,390	618	80.01	1,610	501
63.01	3,433	818	80.02	2,914	866
63.02	2,781	560	80.03	5,055	1,697
64.01	1,827	379	80.05	7,313	1,975
64.02	5,680	1,331	80.06	5,383	1,463
65	4,077	974	80.07	5,904	1,600
66	2,952	911	81	2,384	624
67.01	6,894	1,909	82	-	-
67.02	2,758	868	83.01	5,786	1,513
68.02	5,845	1,386	83.02	6,699	1,387
68.03	36	1	84	9,677	2,696
68.04	8,835	2,327	85	4,529	1,313
68.05	4,326	1,569	86.03	6,509	2,086
68.06	1,922	548	86.04	4,015	1,026
68.07	10,084	4,000	86.98	5,521	1,333
69	3,182	925	86.99 2/	23	-
70	4,796	1,441	87.01	7,598	1,715
71	2,618	781	87.02	4,161	969
72	1,003	62	87.98	4,471	1,324
114	-	-	88	6,172	1,415
			89.01	8,084	2,079
Ewa	230,189	64,948	89.04	5,183	1,750
73	6,689	1,858	89.05	7,561	2,086
73.99 2/	53	-	89.06	4,025	1,287
74	3,633	711	89.07	4,560	1,304
74.99 2/	4,331	-	89.08	6,688	1,910
75.02	1,236	21	89.09	3,779	1,145
75.03	4,952	1,481	89.10	10,444	3,174
75.04	3,080	814	89.11	11,893	4,055

Continued on next page.

Table 1.15-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990 - Con.

District 1/ and census tract	Population	Households	District 1/ and census tract	Population	Households
89.12	2,193	461	102.02	6,926	1,350
Wahiawa	43,886	10,849	Koolaupoko	117,694	33,886
90	2,600	702	103.02	3,745	1,081
91	4,303	1,024	103.03	4,660	1,337
92	7,930	2,461	103.05	4,663	1,357
93	4,214	1,382	103.06	6,562	2,064
94	5,242	1,776	105.03	2,111	567
95.01	3,532	873	105.04	5,373	1,461
95.02	7,307	1,472	105.05	3,612	1,056
95.03	4,339	1	105.06	7,804	2,573
95.04	1,178	301	106.01	3,200	945
95.05	3,241	857	106.02	5,480	1,578
			107.01	3,551	1,193
Waianae	37,411	9,417	107.02	4,336	1,256
96.01	5,974	1,232	108	11,662	2,014
96.03	6,820	1,612	109.01	3,208	1,009
96.04	4,733	1,083	109.03	4,253	1,328
97.01	5,523	1,614	109.04	3,391	1,034
97.02	6,153	1,442	109.05	2,568	846
98	8,208	2,434	110	3,910	1,101
			111.03	3,884	1,123
Waialua	11,549	3,468	111.04	4,937	1,470
99.01	5,792	1,864	111.05	3,732	1,508
99.02	3,956	1,113	111.06	5,774	1,704
100	1,801	491	112.01	4,687	1,556
			112.02	1,536	596
Koolauloa	18,443	4,935	113.01	4,859	1,189
101	6,909	2,127	113.02	4,196	940
102.01	4,608	1,458			

1/ 1980 boundaries.

2/ Persons living aboard vessels.

Source: U.S. Bureau of the Census, Summary Tape File 1A, tabulated by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

**Table 1.16-- RESIDENT POPULATION AND HOUSEHOLDS FOR HAWAII,
KAUAI, KALAWAO AND MAUI COUNTIES, BY DISTRICTS AND CENSUS
TRACTS: 1990**

[See maps, pp. 6-7 and 27]

County, district, and census tract	Population	Households	County, district, and census tract	Population	Households
HAWAII			South Kohala	9,140	3,095
Total	120,317	41,461	217	9,140	3,095
South Hilo	44,639	15,558	North Kohala	4,291	1,351
201	5,102	1,705	218	4,291	1,351
202	1,871	579	Hamakua	5,545	1,796
203	3,723	1,633	219	3,681	1,209
204	3,612	1,410	220	1,864	587
205	5,576	2,096	North Hilo	1,541	506
206	3,902	1,355	221	1,541	506
207.01	4,399	1,559			
207.02	4,693	1,460	KAUAI		
208.01	3,062	868	Total	51,177	16,295
208.02	5,081	1,746			
209	3,618	1,147	Hanalei	4,631	1,628
Puna	20,781	7,136	401	4,631	1,628
210.01	6,844	2,262	Kawaihau	15,627	4,938
210.02	7,235	2,603	402.01	2,178	656
211	6,702	2,271	402.02	6,622	2,151
Ka'u	4,438	1,530	403	6,827	2,131
212	4,438	1,530	Lihue	10,663	3,330
South Kona	7,658	2,591	404	5,384	1,345
213	4,998	1,654	405	5,275	1,985
214	2,660	937	405.99 1/	4	-
North Kona	22,284	7,898	Koloa	11,368	3,689
215.01	6,486	2,166	406	4,900	1,617
215.02	2,944	1,058	407	6,468	2,072
215.97	104	33			
215.98	3,089	1,142			
216	9,661	3,499			

Continued on next page.

**Table 1.16-- RESIDENT POPULATION AND HOUSEHOLDS FOR HAWAII,
KAUAI, KALAWAO AND MAUI COUNTIES, BY DISTRICTS AND CENSUS
TRACTS: 1990 -- Con.**

County, district, and census tract	Population	Households	County, district, and census tract	Population	Households
Waimea	8,888	2,710	Wailuku	45,685	15,017
408	2,913	919	306	213	85
409	5,745	1,749	307	12,869	4,902
410	230	42	307.99 1/	9	-
			308	2,273	655
KALAWAO			309	8,372	2,509
			310	5,060	1,849
Total	130	62	311.01	4,516	1,297
			311.02	4,332	1,475
Kalawao	130	62	311.03	4,438	1,099
319	130	62	312	3,386	1,099
			313	217	47
MAUI			Lahaina	14,574	4,868
			314	9,189	2,683
Total	100,374	33,145	315	5,385	2,185
Hana	1,895	589	Lanai	2,426	847
301	1,895	589	316	2,426	847
Makawao	29,207	9,798	Molokai	6,587	2,026
302	5,695	1,916	317	4,419	1,407
303.01	5,525	1,960	318	2,168	619
303.02	2,496	1,029			
304.01	7,271	2,290			
304.02	6,127	1,929			
305	2,093	674			

1/ Persons living aboard vessels.

Source: U.S. Bureau of the Census, Summary Tape File 1A, tabulated by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

Table 1.17-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR WAIKIKI: 1960 TO 1990

[For definitions of resident and de facto population, see table 1.04, footnotes 1 and 3. For earlier years, 1920-1950, see *Data Book 1987*, table 14. Waikiki is bounded by the Ala Wai Canal, Kapahulu Avenue, and the Pacific Ocean]

Subject	1960	1970	1980	1990	Density 1/	
					1980	1990
Resident population	11,075	13,124	17,384	19,768	34.3	39.0
Temporarily absent 2/	36	176	174	327	0.3	0.6
De facto population	18,753	34,874	63,710	95,979	125.7	189.3
Visitors present 2/	7,714	21,926	46,500	76,538	91.7	151.0
Employed persons: 3/						
Living in Waikiki	6,327	7,866	9,593	11,065	18.9	21.8
Working in Waikiki	(NA)	(NA)	30,011	(NA)	59.2	(NA)

NA Not available.

1/ Per acre. Based on land area of 205 hectares (507 acres).

2/ Annual averages. Estimated.

3/ Includes armed forces.

Source: Visitors present and residents absent estimated by the Hawaii State Department of Business, Economic Development & Tourism from Hawaii Visitors Bureau survey data. Area, resident population, and employment from U.S. Bureau of the Census, census tract bulletins, 1960-1980, and 1990 Census tapes tabulated by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center, and *Data Book 1987*, table 380.

**Table 1.18-- POPULATION AND LAND AREA, URBAN AND RURAL,
BY COUNTIES: 1990**

Subject	State total	Honolulu	Hawaii	Kauai	Maui & Kalawao
Land area (square miles)	6,423.4	600.2	4,028.2	622.5	1,172.5
Urban 1/	644.4	197.8	322.6	28.2	95.8
Rural	5,779.0	402.3	3,705.7	594.3	1,076.7
Resident population	1,108,229	836,231	120,317	51,177	100,504
Urban 1/	986,171	806,429	73,135	28,264	78,343
Rural	122,058	29,802	47,182	22,913	22,161

1/ Includes both the Honolulu Urbanized Area (138.7 square miles, 632,603 inhabitants) and Kailua Urbanized Area (35.0 square miles, 114,506 inhabitants).

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Population and Housing Unit Counts, Hawaii*, 1990 CPH-2-13 (March 1993), tables 5, 7, and 23.

Table 1.19-- CENTERS OF POPULATION, BY COUNTIES: 1990

County	North latitude (degrees)	West longitude (degrees)	Approximate location
State of Hawaii	21.1756	157.5708	5 mi. SE of Koko Head
Hawaii County	19.6898	155.4060	20 mi. W of Hilo
Maui County	20.8722	156.4547	0.6 mi. SW of Wailuku PO
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

Source: Hawaii State Department of Business, Economic Development & Tourism, estimated from block group data in U.S. Bureau of Census, STF-1A.

Table 1.20-- POPULATION BY MILITARY STATUS: 1950 TO 1990

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

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population Characteristics of Hawaii by Military Status, 1990* (Statistical Report 227, December 1993), table 1.

**Table 1.21-- POPULATION CHARACTERISTICS, BY
MILITARY STATUS: 1990**

Subject	All groups	Armed Forces	Military dependents	Other civilians
Population	1,108,229	54,001	63,215	991,013
Oahu	836,231	53,549	62,621	720,061
Other islands	271,998	452	594	270,952
Households	356,748	28,548	1,794	326,406
Families	266,439	25,338	1,794	239,307
Age (percent)	100.0	100.0	100.0	100.0
Under 18 years	25.3	(Z)	54.9	24.8
18 to 64 years	63.5	100.0	44.3	62.7
65 years and over	11.3	(Z)	0.7	12.5
Median age (years)	33	27	15	35
Male	32	27	8	34
Female	34	27	23	35
Female (percent)	49.1	12.1	65.3	50.1
Race 1/ (percent)	100.0	100.0	100.0	100.0
White	33.4	70.6	61.9	29.6
Black	2.4	16.5	13.3	0.9
American Indian, Eskimo, or Aleut	0.5	1.0	0.8	0.5
Asian or Pacific Islander	61.9	7.7	20.2	67.5
Other race	1.7	4.2	3.8	1.5
Hispanic origin	7.1	7.7	8.9	7.0
Foreign born (percent)	14.7	5.6	9.8	15.5
Persons per household	3.00	1.21	-	2.98
Persons per family	3.47	1.16	-	3.48
Persons in group quarters (percent)	3.3	36.3	0	1.7
Persons 15 years and over never married (percent)	29.2	35.4	16.5	29.2
Male	33.8	35.0	51.2	33.4
Female	24.4	38.7	9.7	25.1
Children ever born per 1,000 women:				
15 to 24 years	289	216	591	257
25 to 34 years	1,199	819	1,531	1,166
35 to 44 years	1,812	1,189	2,096	1,800
Residence in 1985 2/ (percent):				
Same house as 1990	50.9	6.1	10.1	55.7
Different State	16.3	77.6	64.3	10.2
Abroad	4.7	9.6	14.5	3.9

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**Table 1.21-- POPULATION CHARACTERISTICS, BY
MILITARY STATUS: 1990 -- Con.**

Subject	All groups	Armed Forces	Military dependents	Other civilians
Persons 3 years and over enrolled in school	290,578	6,531	24,605	259,442
Persons 25 years and over:				
Percent high school graduate or higher	80.1	98.6	95.2	63.9
Percent bachelor's degree or higher	22.9	24.1	21.3	22.9
Persons 16 years and over in labor force (percent)	70.4	100.0	63.4	68.6
Female	63.3	100.0	61.7	62.8
Percent of civilian labor force unemployed	3.5	(X)	7.8	3.4
High-status workers 3/ (percent)	25.6	18.0	22.7	26.5
Median income in 1989 (dollars):				
Households	38,829	29,652	33,681	40,288
Families	43,176	34,283	37,763	51,165
Income in 1989 below poverty level 4/ (percent):				
Families	6.0	2.7	0.7	6.4
Persons	8.3	2.4	4.2	8.7

X Not applicable.

Z Less than 0.05 percent.

1/ Persons of mixed race classified by self-identification or by race of mother.

2/ For persons 5 years and over in 1990.

3/ Persons in executive, administrative, managerial, and professional specialty occupations as percent of all persons 16 years and over employed in civilian labor force.

4/ Data based on Mainland poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the extent of poverty in Hawaii.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population Characteristics of Hawaii by Military Status, 1990* (Statistical Report 227, December 1993), tables 2 and 3.

**Table 1.22-- POPULATION PROJECTIONS, RESIDENT AND DE FACTO,
BY COUNTIES: 1990 TO 2020**

[Thousands. As of July 1. Series DBEDT 2020]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
Resident population: 2/						
1990	1,112.9	838.2	274.7	121.5	51.6	101.6
1995	1,179.2	870.9	308.4	137.2	56.0	115.2
2000	1,238.5	904.0	334.5	149.6	60.9	124.0
2005	1,304.0	944.0	360.0	160.6	66.6	132.8
2010	1,366.8	980.0	386.8	173.9	72.0	140.9
2015	1,430.5	1,016.0	414.4	189.1	77.3	148.0
2020	1,494.1	1,050.6	443.6	205.4	82.8	155.4
De facto population: 3/						
1990	1,257.0	912.1	345.0	136.5	69.0	139.5
1995	1,287.1	915.4	371.9	149.7	69.3	152.8
2000	1,372.8	959.2	413.8	165.9	78.8	169.0
2005	1,463.0	1,007.0	456.2	181.9	89.5	184.8
2010	1,548.7	1,048.9	500.0	200.4	100.1	199.5
2015	1,633.3	1,090.3	543.2	220.9	109.6	212.7
2020	1,720.2	1,130.6	589.8	243.3	119.7	226.7

1/ Includes Kalawao.

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 but excludes persons of local origin attending school or in military service outside the area.

3/ 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.

Source: Hawaii State Department of Business, Economic Development, and Tourism, *Population and Economic Projections for the State of Hawaii to 2020 (Series DBEDT 2020)* (1997).

Table 1.23-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 2000, 2010 AND 2020

[As of July 1. Series DBEDT 2020 projections. For 1988 estimate, see *Data Book 1990*, table 21]

Age group	1995		2000		2010		2020	
	Both sexes	Female	Both sexes	Female	Both sexes	Female	Both sexes	Female
Total	1,179,198	583,389	1,238,501	614,410	1,366,770	679,928	1,494,144	743,277
Under 5 years	95,196	46,268	90,094	43,482	97,148	46,863	106,056	51,175
5 to 9 years	84,715	41,127	92,738	45,688	90,193	44,212	100,854	49,401
10 to 14 years	81,292	39,333	82,566	40,022	87,033	42,810	94,085	46,170
15 to 19 years	78,763	38,206	81,192	38,947	91,612	44,895	88,958	43,370
20 to 24 years	82,042	36,695	96,011	42,967	100,005	44,616	104,571	47,429
25 to 29 years	81,253	38,433	82,414	39,279	100,408	46,980	110,826	52,932
30 to 34 years	95,360	46,303	76,733	37,325	94,237	45,459	98,134	47,098
35 to 39 years	100,803	49,096	93,545	45,439	78,409	38,377	96,078	46,031
40 to 44 years	96,139	47,166	98,467	48,224	75,219	36,708	92,379	44,785
45 to 49 years	81,043	40,270	93,184	46,311	90,393	44,639	75,544	37,679
50 to 54 years	61,460	31,328	79,013	39,522	94,296	47,027	71,814	35,795
55 to 59 years	47,337	25,265	60,429	31,121	89,900	45,359	87,458	43,825
60 to 64 years	45,103	23,897	47,156	25,412	77,519	39,554	92,268	46,835
65 to 69 years	47,660	25,888	43,400	23,339	58,670	30,916	86,259	44,430
70 to 74 years	41,404	21,706	44,054	24,528	42,771	23,841	70,071	36,839
75 to 79 years	29,106	15,577	36,134	19,490	35,518	20,020	48,632	26,665
80 to 84 years	17,199	9,203	23,088	12,903	31,055	18,408	30,681	18,111
85 years and over	13,323	7,628	18,283	10,411	32,384	19,244	39,476	24,707
Median age	34.5	35.5	35.9	37.1	36.5	38.1	37.3	38.7

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2020 (Series DBEDT 2020)* (1997).

Table 1.24-- RESIDENT POPULATION, BY AGE AND SEX: 1980 AND 1990

Age	April 1, 1980			April 1, 1990		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	964,691	494,683	470,008	1,108,229	563,891	544,338
Under 5 years	77,848	40,004	37,844	83,223	42,748	40,475
5 to 9 years	73,057	37,555	35,502	80,907	41,579	39,328
10 to 14 years	74,870	38,459	36,411	73,896	38,144	35,752
15 to 19 years	86,446	45,673	40,773	72,491	38,097	34,394
20 to 24 years	105,682	59,070	46,612	90,794	50,552	40,242
25 to 29 years	95,287	48,864	46,423	100,178	52,738	47,440
30 to 34 years	84,314	42,990	41,324	100,518	51,325	49,193
35 to 39 years	63,948	32,684	31,264	95,782	48,955	46,827
40 to 44 years	47,468	23,765	23,703	82,557	42,368	40,189
45 to 49 years	45,240	21,589	23,651	61,963	31,253	30,710
50 to 54 years	49,204	23,298	25,905	46,812	23,019	23,793
55 to 59 years	47,383	23,502	23,881	45,375	21,087	24,288
60 to 64 years	37,794	18,871	18,923	48,728	22,651	26,077
65 to 69 years	29,153	15,384	13,769	45,584	21,848	23,736
70 to 74 years	20,222	10,991	9,231	33,069	15,696	17,373
75 to 79 years	13,673	6,796	6,877	22,694	11,255	11,439
80 to 84 years	7,541	3,177	4,364	13,261	6,599	6,662
85 years and over	5,561	2,011	3,550	10,397	3,977	6,420
Under 18 years	275,583	141,516	134,067	280,126	144,278	135,848
18 to 64 years	612,958	314,808	298,150	703,098	360,238	342,860
65 years and over	76,150	38,359	37,791	125,005	59,375	65,630
Median age (years)	28.3	27.6	29.1	32.6	31.7	33.5

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 20, and *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 17.

**Table 1.25-- RESIDENT POPULATION, BY AGE AND SEX:
1990 AND 1998**

[Includes armed forces stationed or homeported in Hawaii. The 1998 estimates are provisional]

Age group	April 1, 1990 (MARS) 1/			July 1, 1998		
	Both sexes	Male	Female	Both sexes	Male	Female
Total	1,108,229	563,918	544,311	1,193,001	598,147	594,854
Under 5 years	85,448	43,915	41,533	84,095	43,182	40,913
5 to 9 years	80,680	41,486	39,194	88,186	45,336	42,850
10 to 14 years	73,570	37,988	35,582	77,912	40,222	37,690
15 to 19 years	73,050	38,378	34,672	83,504	43,005	40,499
20 to 24 years	91,693	51,139	40,554	84,085	45,274	38,811
25 to 29 years	100,435	52,862	47,573	71,218	37,256	33,962
30 to 34 years	100,540	51,316	49,224	83,946	42,767	41,179
35 to 39 years	95,123	48,547	46,576	99,702	51,074	48,628
40 to 44 years	82,238	42,159	40,079	100,558	51,171	49,387
45 to 49 years	61,011	30,764	30,247	88,371	44,342	44,029
50 to 54 years	46,635	22,866	23,769	73,099	35,858	37,241
55 to 59 years	45,217	20,983	24,234	55,071	25,700	29,371
60 to 64 years	48,862	22,725	26,137	44,948	21,192	23,756
65 to 69 years	45,265	21,717	23,548	45,605	20,555	25,050
70 to 74 years	32,789	15,573	17,216	42,870	19,734	23,136
75 to 79 years	22,591	11,238	11,353	33,411	15,505	17,906
80 to 84 years	13,020	6,453	6,567	20,046	8,739	11,307
85 and over	10,062	3,809	6,253	16,374	7,235	9,139
5 to 17	196,396	101,277	95,119	214,232	110,468	103,764
18 to 24	122,597	67,714	54,883	119,455	63,369	56,086
25 to 44	378,336	194,884	183,452	355,424	182,268	173,156
45 to 64	201,725	97,338	104,387	261,489	127,092	134,397
16 years and over	854,518	433,227	421,291	927,008	461,173	465,835
18 years and over	826,385	418,726	407,659	894,674	444,497	450,177
21 years and over	777,428	391,948	385,480	841,012	416,635	424,377
65 years and over	123,727	58,790	64,937	158,306	71,768	86,538
85 years and over	10,062	3,809	6,253	16,374	7,235	9,139
Median age	32.5	31.6	33.4	36.2	35.2	37.3

1/ Modified age, race, and sex (MARS). The decennial census age statistics have been modified by the Bureau of Census to adjust for incorrect age reporting and for a tendency for respondents to round up their age if close to having a birthday.

Source: Population Estimates and Population Distribution Branches, U.S. Bureau of the Census.

Table 1.26-- RESIDENT POPULATION, BY AGE AND SEX, BY COUNTIES: 1990

Subject	State total	City and County of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	1,108,229	836,231	120,317	130	51,177	100,374
Male	563,891	425,994	60,665	80	25,951	51,201
Female	544,338	410,237	59,652	50	25,226	49,173
Males per 100 females	103.6	103.8	101.7	160.0	102.9	104.1
Under 18 years	280,126	204,613	34,515	-	14,115	26,883
18 to 64 years	703,098	539,786	70,716	86	30,378	62,132
65 years and over	125,005	91,832	15,086	44	6,684	11,359
Percent:						
Under 18 years	25.3	24.5	28.7	0.0	27.6	26.8
18 to 64 years	63.4	64.5	58.8	66.2	59.4	61.9
65 years and over	11.3	11.0	12.5	33.8	13.1	11.3
Median age (years)	32.6	32.2	34.3	60.9	33.9	33.5
In group quarters	37,632	33,893	1,685	45	654	1,355
Percent	3.4	4.1	1.4	34.6	1.3	1.3

Source: U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), tables 17, 39, 54, and 57.

Table 1.27-- RESIDENT POPULATION, BY AGE AND SEX, BY COUNTIES: 1997

Subject	State total	City and County of Honolulu	Other counties		
			Hawaii	Kauai	Maui 1/
Total persons	1,186,602	869,857	141,458	56,423	118,864
Male	596,755	436,884	71,047	28,485	60,339
Female	589,847	432,973	70,411	27,938	58,525
Males per 100 females	101.2	100.9	100.9	102.0	103.1
Under 18 years	302,592	214,911	40,094	15,725	31,862
18 to 64 years	727,309	542,927	81,011	32,156	71,215
65 years and over	156,701	112,019	20,353	8,542	15,787
Percent:					
Under 18 years	25.5	24.7	28.3	27.9	26.8
18 to 64 years	61.3	62.4	57.3	57.0	59.9
65 years and over	13.2	12.9	14.4	15.1	13.3

1/ Includes Kalawao.

Source: U.S. Bureau of the Census, *Estimates of the Population of Counties by Age, Sex, Race and Hispanic Origin: 1990 to 1997*, (September 4, 1998) at <http://www.census.gov/population/www/estimates/county/casrh/casrh15.txt> and *Estimates of the Population of Counties by Age Group: July 1, 1997* (September 4, 1998) at <http://www.census.gov/population/estimates/county/ca/cahi97.txt>.

Table 1.28-- RACE BY COUNTIES: 1990

Race or Hispanic origin	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All races	1,108,229	836,231	120,317	51,177	100,504
White	369,616	264,372	47,736	17,712	39,796
Black	27,195	25,875	615	211	494
American Indian, Eskimo, or Aleut	5,099	3,532	868	178	521
Asian or Pacific Islander	685,236	526,459	68,699	32,093	57,985
Chinese	68,804	63,265	2,518	810	2,211
Filipino	168,682	120,029	15,540	12,709	20,404
Japanese	247,486	195,149	25,044	10,242	17,051
Korean	24,454	22,646	921	204	683
Vietnamese	5,468	5,231	78	21	138
Hawaiian	138,742	91,967	23,120	7,736	15,919
Samoan	15,034	14,364	382	64	224
Other Asian or Pacific	16,566	13,808	1,096	307	1,355
Other race	21,083	15,993	2,399	983	1,708
Hispanic origin 1/	81,390	56,884	11,134	5,580	7,792

1/ Persons of Hispanic origin can be of any race. The 1990 total included 21,972 Whites, 1,279 Blacks, 1,098 American Indians, Eskimos, and Aleuts, 38,832 Asians and Pacific Islanders, and 18,209 persons of other races.

Source: U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), tables 4 and 5.

Table 1.29-- ETHNIC STOCK BY COUNTIES: 1998

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao.
Weighted data based upon a sample survey of 12,923 persons]

Ethnic stock 1/	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,148,807	835,965	139,773	55,568	117,501
Unmixed (except Hawaiian)	688,747	516,625	70,572	31,871	69,679
Caucasian	252,320	166,372	35,921	14,120	35,907
Black	17,433	16,208	842	76	307
Japanese	208,653	165,925	19,440	9,238	14,050
Chinese	41,843	39,386	862	218	1,377
Filipino	146,380	108,439	12,785	8,039	17,117
Korean	13,728	12,814	294	180	440
Samoan/Tongan	8,390	7,481	428	-	481
Mixed (except Hawaiian) 2/ Hawaiian/part Hawaiian	223,595 236,465	163,334 156,006	25,639 43,562	12,865 10,832	21,757 26,065

1/ Ethnicity is based on the ethnicity of father and mother or self-identified. Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 and 1990, census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

2/ Includes miscellaneous races and not reported (12,364 in 1998).

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

Table 1.30-- RACE AND HISPANIC ORIGIN: 1980 AND 1990

[Persons of mixed race classified by self-identification or by race of mother]

Race or Hispanic origin	1980 1/	1990	Percent distribution		Percent change
			1980	1990	
All races	964,691	1,108,229	100.0	100.0	14.9
White	318,770	369,616	33.0	33.4	16.0
Black	17,364	27,195	1.8	2.5	56.6
American Indian, Eskimo, or Aleut	2,768	5,099	0.3	0.5	84.2
Asian or Pacific Islander	583,252	685,236	60.5	61.8	17.5
Chinese	56,285	68,804	5.8	6.2	22.2
Filipino	133,940	168,682	13.9	15.2	25.9
Japanese	239,748	247,486	24.9	22.3	3.2
Korean	17,962	24,454	1.9	2.2	36.1
Vietnamese	3,463	5,468	0.4	0.5	57.9
Hawaiian	115,500	138,742	12.0	12.5	20.1
Samoaan	14,073	15,034	1.5	1.4	6.8
Other Asian or Pacific 2/	2,281	16,566	0.2	1.5	} -16.0
Other race	42,537	21,083	4.4	1.9	
Hispanic origin 3/	71,263	81,390	7.4	7.3	14.2

1/ Based on 100-percent tabulations. The Asian or Pacific Islander category includes only groups listed separately in the race question. Write-in responses for groups such as Thai, Laotian, and Tongan were not included in 100-percent totals for the Asian or Pacific Islander population and were instead included with the "other race" group.

2/ 1980 figure limited to Asian Indians and Guamanians.

3/ Persons of Hispanic origin can be of any race. The 1990 total included 21,972 Whites, 1,279 Blacks, 1,098 American Indians, Eskimos, and Aleuts, 38,832 Asians and Pacific Islanders, and 18,209 persons of other race.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), tables 15 and 16; U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 3.

Table 1.31-- RACE AND HISPANIC ORIGIN, BY COUNTIES: 1990 AND 1997

[Persons of mixed race classified by self-identification or by race of mother]

Date and county	All races	White	Black	American Indian 1/	Asian and Pacific Islander	Hispanic (of any race)
JULY 1, 1990						
State total	1,112,546	385,417	31,518	5,400	690,211	81,656
Hawaii	121,451	49,258	751	910	70,532	11,266
Honolulu	837,919	276,585	29,234	3,671	528,429	56,580
Kauai	51,615	18,343	434	186	32,652	5,649
Maui 2/	101,561	41,231	1,099	633	58,598	8,161
JULY 1, 1997						
State total	1,186,602	395,846	35,401	6,607	748,748	94,918
Hawaii	141,458	56,711	1,166	1,252	82,329	14,030
Honolulu	869,857	272,855	32,866	4,384	559,752	64,246
Kauai	56,423	19,752	369	230	36,072	6,438
Maui 2/	118,864	46,528	1,000	741	70,595	10,204

1/ Includes Eskimo and Aleut.

2/ Includes Kalawao (81 inhabitants in 1997).

Source: U.S. Bureau of the Census, *Estimates of the Population of Counties by Age, Sex, and Race: 1990-1997* (Sept. 4, 1998).

**Table 1.32-- HAWAIIANS LIVING IN HAWAII OR OTHER STATES:
1980 AND 1990**

[Persons of mixed race classified by self-identification or by race of mother]

Place of residence	1980	1990	Percent increase
Hawaiians in U.S.	166,814	211,014	26.5
Living in Hawaii	115,500	138,742	20.1
Living in other States	51,314	72,272	40.8
California	23,086	34,447	49.2
Rest of U.S.	28,228	37,825	34.0

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, U.S. Summary*, PC80-1-B1 (May 1983), table 62, and *1990 Census of Population, General Population Characteristics, U.S.*, 1990 CP-1-1 (Nov. 1992), table 253.

Table 1.33-- ANCESTRY: 1990

[Persons who reported at least one specific ancestry group. No more than two groups per person were coded]

Ancestry group 1/	Persons	Ancestry group 1/	Persons
Total 2/	1,108,229	Korean	28,887
English	71,569	Okinawan	5,998
German	102,883	Vietnamese	5,277
Irish	65,587	Hawaiian 3/	156,812
Portuguese	57,125	Samoan	14,971
Puerto Rican	16,432	Tongan	3,283
Chinese	96,293	Afro-American	23,864
Filipino	176,370	American Indian	14,835
Japanese	262,113	White	13,442
		Not reported	55,494

1/ Shown separately for all groups over 50,000, plus several smaller groups of special interest in Hawaii.

2/ Out of 1,335,722 responses, 1,052,735 reported a first ancestry and 282,987 reported a second ancestry as well.

3/ The U.S. total was 256,081.

Source: U.S. Bureau of the Census, *1990 Census of Population, Supplementary Reports, Detailed Ancestry Groups for States*, 1990 CP-S-1-2 (October 1992), tables 1 and 3.

Table 1.34-- HISPANIC ORIGIN BY RACE: 1990

[Data based on a five-percent sample and thus somewhat different from corresponding figures, elsewhere in this section, based on full counts or larger sample sizes]

Race	Total	Hispanic origin	Not of Hispanic origin
All races	1,104,668	74,918	1,029,750
White	368,911	21,525	347,386
Black	27,116	1,278	25,838
American Indian	4,731	935	3,796
Eskimo	323	-	323
Aleut	174	-	174
Chinese	67,152	1,552	65,600
Filipino	165,730	16,954	148,776
Japanese	252,722	2,039	250,683
Korean	24,576	270	24,306
Vietnamese	5,582	-	5,582
Other Asian	8,954	304	8,650
Hawaiian	136,135	12,327	123,808
Other Polynesian	17,512	463	17,049
Micronesian	5,211	1,083	4,128
Melanesian	326	-	326
Other Pacific Islander	298	45	253
All other	19,215	16,143	3,072

Source: U.S. Bureau of the Census, *1990 Public Use Microdata Sample, Hawaii*.

Table 1.35-- PLACE OF BIRTH AND CITIZENSHIP: 1980 AND 1990

Place of birth and citizenship	1980	1990
Total population	964,691	1,108,229
Born in United States	806,742	914,024
Hawaii	557,990	621,992
Other state	248,752	292,032
Northeast	46,698	53,125
Midwest	60,236	68,961
South	58,189	67,570
West	83,629	102,376
Born outside United States	157,949	194,205
Puerto Rico	1,182	1,502
U.S. outlying area	7,323	7,492
Born abroad of American parent(s)	12,428	22,507
Foreign born	137,016	162,704
Naturalized citizen	62,287	89,983
Not a citizen	74,729	72,721
18 years and over	689,108	828,004
Native	(NA)	678,227
Foreign born	(NA)	149,777
Naturalized citizen	(NA)	85,518
Not a citizen	(NA)	64,259
Born in Hawaii, living in U.S.	817,353	945,148
Born and living in Hawaii	557,990	621,992
Living on Mainland	259,363	323,156

NA Not available.

Source: U.S. Bureau of the Census, *1990 Selected Place of Birth and Migration Statistics for States*, CPH-L-121, tables 2 and 3; *1990 Age, Nativity, and Citizenship for the United States, States and Counties*, CPH-L-114, table 1; and data from STF-3A, extracted by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

Table 1.36-- LANGUAGE SPOKEN AT HOME BY PERSONS FIVE YEARS OLD AND OVER, BY ABILITY TO SPEAK ENGLISH: 1990

Language spoken at home 1/	Total	English ability			
		Very well	Well	Not well	Not at all
Persons 5 years and over	1,026,209	...	...	...	...
Only English at home	771,485	...	...	...	...
Other than English at home	254,724	130,306	76,827	42,225	5,366
French 2/	3,825	3,048	507	270	-
German	4,066	3,213	535	307	11
Portuguese	1,110	815	206	89	-
Spanish	13,723	10,321	2,409	932	61
Bisayan	1,710	753	603	340	14
Chinese 3/	25,489	10,417	8,088	5,476	1,508
Hawaiian 4/	8,872	6,711	1,566	584	11
Ilocano	26,283	10,493	9,849	5,433	508
Japanese	69,587	34,772	21,457	12,165	1,193
Korean	14,636	5,450	4,664	3,759	763
Samoan	9,420	5,712	2,514	1,012	182
Tagalog	55,341	27,289	18,699	8,701	652
Thai (Laotian)	2,811	1,121	1,099	483	108
Tongan	2,213	1,050	584	504	75
Vietnamese	4,620	1,525	1,597	1,302	196
All other languages	11,018	7,616	2,450	868	84

1/ Shown separately for languages with 1,000 or more speakers.

2/ Excludes 29 French Creole.

3/ Excludes 505 Mandarin.

4/ Excludes 48 Hawaiian Pidgin and 968 Pidgin.

Source: U.S. Bureau of the Census, *Language Spoken at Home and Ability to Speak English for United States, Regions and States: 1990*, 1990 CPH-L-133.

Table 1.37-- HOUSEHOLD TYPE AND RELATIONSHIP: 1990

Household type and relationship	State total	Oahu	Other islands
Total persons	1,108,229	836,231	271,998
In households	1,070,597	802,338	268,259
Householder	356,267	265,304	90,963
Family householder	263,456	197,294	66,162
Nonfamily householder: Male	49,705	35,873	13,832
Female	43,106	32,137	10,969
Spouse	210,468	158,438	52,030
Child	345,365	259,193	86,172
Other relative	96,494	74,876	21,618
Nonrelatives	62,003	44,527	17,476
In group quarters	37,632	33,893	3,739
Inmate of institution	7,805	6,365	1,440
Other	29,827	27,528	2,299
Householder 65 years and over living alone	20,933	14,868	6,065
Persons per household	3.01	3.02	2.95
Persons per family	3.48	3.50	3.42
Persons under 18 years	280,126	204,313	75,813
Householder or spouse	205	134	71
Own child	236,257	172,112	64,145
In married-couple family	194,497	144,180	50,317
With female householder, no husband present	32,140	21,729	10,411
With male householder, no wife present	9,620	6,203	3,417
Other relatives	36,462	27,515	8,947
Nonrelatives	5,670	3,896	1,774
Inmate of institution	320	300	20
Other, in group quarters	1,212	356	856
Persons 65 years and over	125,005	91,832	33,173
Family householder	49,612	36,068	13,544
Spouse	27,848	19,980	7,868
Other relatives	17,549	13,891	3,658
Nonrelatives	1,990	1,597	393
Nonfamily householder: Male	7,296	5,016	2,280
Female	15,219	11,019	4,200
Inmate of institution	3,861	2,964	897
Other, in group quarters	441	391	50

Source U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), tables 41 and 42.

**Table 1.38-- HOUSEHOLDS, FAMILIES, AND GROUP QUARTERS:
1950 TO 1990**

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	1/ 356,268	263,456	1/ 1,070,607	915,783	37,632	3.01	3.48

NA Not available.

1/ Revised.

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*, 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; *Estimates of Housing Units, Households, Households by Age of Householder, and Persons per Household of States: Annual Time Series, July 1, 1991 to July 1, 1996 (includes revised census housing and population counts)*, ST-96-24R (August 21, 1997), at <http://www.census.gov/population/estimates/housing/hsehld96.txt>.

**Table 1.39-- HOUSING UNITS, HOUSEHOLDS, AND PERSONS PER
HOUSEHOLD: ANNUALLY, 1990 TO 1996**

Date 1/	Housing units	Households	Persons per household
1990 (April 1)	2/ 389,811	2/ 356,268	3.01
1991	399,647	365,496	2.99
1992	407,227	373,546	2.97
1993	412,662	376,406	2.99
1994	419,452	379,622	3.00
1995	426,360	384,259	2.98
1996	433,057	388,509	2.96

1/ As of July 1 unless otherwise specified.

2/ Revised.

Source follows next table.

**Table 1.40-- HOUSING UNITS, HOUSEHOLDS, AND PERSONS PER
HOUSEHOLD: 1990 AND 1996**

Subject	April 1, 1990 1/	July 1, 1996	Percent change
Total housing units	389,811	433,057	11.1
Households by age of householder, total	356,268	388,509	9.0
15 to 24 years	16,826	16,186	-3.8
25 to 34 years	73,004	61,079	-16.3
35 to 44 years	87,474	95,919	9.7
45 to 54 years	57,546	79,472	38.1
55 to 64 years	49,936	48,802	-2.3
65 years and over	71,482	87,051	21.8
Persons in households	1,070,607	1,148,718	7.3
Persons per household 2/	3.01	2.96	-1.7

1/ All figures were revised except for persons per household.

2/ The U.S. average in 1996 was 2.62. Hawaii ranked second among the 50 States.

Source: U.S. Bureau of the Census, *Estimates of Housing Units, Households, Households by Age of Householder, and Persons per Household of States: Annual Time Series, July 1, 1991 to July 1, 1996 (includes revised census housing and population counts)*, ST-96-24R (August 21, 1997), at <http://www.census.gov/population/estimates/housing/hsehld96.txt>.

**Table 1.41-- HOUSEHOLDS, POPULATION IN HOUSEHOLDS, AND
POPULATION PER HOUSEHOLD, BY ISLANDS: 1980 AND 1990**

County and island	Households		Population in households		Population per household	
	1980	1990 1/	1980	1990 1/	1980	1990
State total	294,052	356,267	925,092	1,070,597	3.15	3.01
Hawaii	29,237	41,461	90,436	118,632	3.09	2.86
Maui	20,162	30,272	62,134	90,031	3.08	2.97
Lanai	650	847	1,986	2,426	3.06	2.86
Molokai	1,769	2,088	5,992	6,647	3.39	3.18
Oahu	230,214	265,304	725,865	802,338	3.15	3.02
Kauai	11,979	16,253	38,453	50,293	3.21	3.09
Niihau	41	42	226	230	5.51	5.48

1/ Revisions to the 1990 state totals are reflected in the preceding table. Data revisions are not available by islands.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21 and 47, and *1980 Census of Population and Housing, Census Tracts, Hawaii, Selected Areas*, PHC80-2-13 (June 1983), table P-1; U.S. Bureau of the Census, printouts.

Table 1.42-- POPULATION IN GROUP QUARTERS, BY TYPE OF GROUP QUARTERS, METROPOLITAN AND NONMETROPOLITAN: 1990

Type of group quarters	State total	Oahu	Other islands
In group quarters	37,632	33,893	3,739
Institutionalized persons	7,805	6,365	1,440
Correctional institutions	2,322	1,961	361
Nursing homes	3,225	2,450	775
Other institutions	2,258	1,954	304
Other persons in group quarters	29,827	27,528	2,299
College dormitories	4,958	4,239	719
Military quarters	19,307	19,230	77
Emergency shelters for homeless persons	854	665	189
Visible in street locations	1,071	769	302
Shelters for abused women	73	18	55
Drug/alcohol abuse group homes	349	305	44
Other noninstitutional group quarters 1/	3,215	2,302	913

1/ Includes crews of maritime vessels (233 Statewide). Persons aboard Naval vessels are included in military quarters population.

Source: U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), tables 38 and 41.

**Table 1.43 -- MARRIED COUPLES, UNMARRIED COUPLES, AND SUBFAMILIES:
1960 TO 1990**

Subject	1960	1970	1980	1990
Married couples	120,192	154,678	198,398	227,853
Married couple families 1/	113,164	147,326	188,933	215,835
Married couple subfamilies 2/	7,028	7,352	9,465	12,018
Percent	5.8	4.8	4.8	5.3
Unmarried couples	(NA)	(NA)	9,963	14,871
Subfamilies 2/	9,151	10,111	13,319	25,318
Married couple subfamilies	7,028	7,352	9,465	12,018
Mother-child subfamilies	1,731	2,288	3,132	10,264
Other subfamilies	392	471	722	3,036

NA Not available.

1/ Based on a sample; data may therefore differ somewhat from corresponding full-count tabulations.

2/ A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without children, or one parent with one or more never married children under 18 years of age, living in a household and related to either the householder or householder's spouse. The number or percentage of subfamilies is sometimes treated as a measure of the "doubling up" of households.

Source: U.S. Bureau of the Census, *1960 Census of Population, Detailed Characteristics, Hawaii*, PC(1)-13D (1962), table 108; *1970 Census of Population, Detailed Characteristics, Hawaii*, PC(1)-D13 (1972), table 155; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (1983), table 64 and p. B-2; *1980 Census of Population, Detailed Population Characteristics, Hawaii*, PC80-1-D13 (1983), table 208; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (1993), table 21.

Table 1.44-- MARITAL STATUS, BY SEX: 1980 AND 1990

Marital status	1980		1990	
	Male	Female	Male	Female
Total, 15 years and over	378,665	360,251	441,420	428,783
Single	137,448	94,160	152,188	106,715
Now married, except separated	208,968	204,446	241,961	237,260
Separated	4,354	5,639	6,425	7,539
Widowed	7,198	29,220	9,053	38,530
Divorced	20,697	26,786	31,793	38,739

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21, and *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 39.

**Table 1.45--SINGLE, WIDOWED, OR DIVORCED PERSONS, BY SEX:
1960 TO 1990**

[Persons 14 years old and over for 1960 and 1970, and 15 years old and over for later dates]

Year	Single, widowed, or divorced			Never married		
	Male	Female	Sex ratio	Male	Female	Sex ratio
1960	98,384	65,156	151.0	84,965	44,376	191.5
1970	119,256	98,016	121.7	104,625	68,009	153.8
1980	165,343	150,166	110.1	137,448	94,160	146.0
1990	193,034	183,984	104.9	152,188	106,715	142.6

Source: 1980 from *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21; 1990 from *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 39; other years from *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 31-32.

**Table 1.46-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY
MILITARY STATUS: 1980 TO 1990 AND 1990 TO 1998**

Period and component	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
1980 TO 1990 1/						
Net change	143,538	-1,723	-4,088	149,349	14,935	100.0
Natural increase	112,148	-604	34,007	78,745	7,875	52.7
Live births	168,523	-	34,847	133,676	13,368	...
Deaths	56,375	604	840	54,931	5,493	...
Net mil. separations 2/	-	734	-	-734	-73	-0.5
Net migration 3/	31,390	-1,853	-38,095	71,338	7,134	47.8
1990 TO 1998 4/						
Net change	84,772	-10,238	603	94,407	11,443	100.0
Natural increase	96,584	-1,154	27,722	70,016	8,487	74.2
Live births	155,905	-	28,380	127,525	15,458	...
Deaths	59,321	1,154	658	57,509	6,971	...
Net mil. separations 2/	} -11,812	-9,084	-27,119	24,391	2,956	25.8
Net migration 3/						

1/ April 1, 1980 to March 31, 1990.

2/ Separations less inductions for armed forces.

3/ Includes error of closure.

4/ April 1, 1990 to June 30, 1998.

Source: Estimated by the Hawaii State Department of Business, Economic Development, & Tourism from census counts, DBEDT surveys of military population, special tabulations by the Hawaii State Department of Health, and data from the Federal-State Cooperative Program for Population Estimates.

Table 1.47-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY COUNTIES: 1990 TO 1998

[For 1980-1990 estimates, see *Data Book 1993-94*, p. 51]

Component	State total	Honolulu	Hawaii	Kauai	Maui 1/
Resident population:					
April 1, 1990 (census)	1,108,229	836,231	120,317	51,177	100,504
July 1, 1998 (estimate)	1,193,001	872,478	143,135	56,603	120,785
Net change	84,772	36,247	22,818	5,426	20,281
Resident births	155,905	116,503	17,055	7,201	15,146
Resident deaths	59,321	42,770	7,907	3,079	5,565
Foreign migrants (net) 2/	51,460	40,661	3,124	1,855	5,820
Federal citizen movement 3/	19,225	19,064	50	89	22
Domestic migrants (net) 4/	-80,263	-95,659	10,782	-490	5,104
Residual change 5/	-2,234	-1,552	-286	-150	-246

1/ Including Kalawao County.

2/ Net migration of legal immigrants to the United States, undocumented immigrants to the United States, and emigrants from the United States.

3/ Net movement of Armed Forces, Federally affiliated civilian citizens, and their dependents between the United States and overseas.

4/ Net of migration to a state from other states and from a state to other states. This includes the Armed Forces and their dependents.

5/ The bulk of the residual change component is internal (domestic) net migration, though we have no reliable way to quantify it. The residual change figure is also affected by any inaccuracies in input data or variations in implementing the estimating.

Source: U.S. Bureau of the Census, *County Population Estimates and Demographic Components of Population Change: Annual Time Series, July 1, 1990 to July 1, 1998 (includes revised April 1, 1990 Census Population Counts)*, CO-98-8 (March 12, 1999).

**Table 1.48--CHARACTERISTICS OF INTENDED RESIDENTS ARRIVING
IN HAWAII: 1992 TO 1994**

Characteristics	Westbound			Eastbound		
	1992	1993	1994	1992	1993	1994
Total	41,790	39,810	36,020	4,280	2,240	5,050
Previous residence:						
United States	40,370	38,080	34,020	-	-	(NA)
Foreign	1,420	1,730	2,000	4,280	2,240	(NA)
Age:						
Median (years)	29.8	(NA)	(NA)	26.8	(NA)	(NA)
60 and over	1,190	(NA)	(NA)	50	(NA)	(NA)
Males per 100 females	161	(NA)	(NA)	165	(NA)	(NA)
Occupation of party head	Westbound parties			Westbound persons		
	1992	1993	1994	1992	1993	1994
Total	25,480	25,040	21,960	41,790	39,810	36,020
Management	1,560	2,960	2,540	2,530	4,700	4,170
Professional	2,420	2,450	2,140	3,960	3,890	3,510
Military service	11,200	10,990	9,710	18,380	17,470	15,930
Military dependent	1,760	1,430	1,320	2,880	2,270	2,160
Student	1,630	1,730	1,710	2,660	2,750	2,810
Retired	590	520	500	950	830	820
All others	6,320	4,970	4,040	10,430	7,900	6,620

NA Not available.

Source: Hawaii Visitors Bureau, Basic Data Survey, special tabulation.

Table 1.49-- INTENDED RESIDENTS ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL AND MILITARY STATUS: 1991 TO 1996

Year	All intended residents	Westbound by military status			Eastbound	
		Total	Military service	Military dependent		All other
1991	24,690	17,430	2,480	5,590	9,360	7,260
1992	46,070	41,790	11,210	10,050	20,530	4,280
1993	42,050	39,810	10,990	8,750	20,070	2,240
1994	41,070	36,020	9,710	8,390	17,920	5,050
1995	41,314	36,104	(NA)	(NA)	(NA)	5,210
1996	36,210	32,310	(NA)	(NA)	(NA)	3,900

NA Not available.

Source: Hawaii Visitors & Convention Bureau, special tabulations of Basic Data Survey.

**Table 1.50-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH:
1993 TO 1997**

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence, and include non-immigrant arrivals who changed their status after entry. Data include immigrants admitted under Section 245A of the Immigration Reform and Control Act of 1986. These formerly illegal aliens must have resided in the U.S. since 1982 to qualify or were employed in seasonal agriculture work for a minimum of 90 days between May 1985 and May 1996; therefore, they are not new residents]

Country of birth	1993	1994	1995	1996	1997
All countries	8,504	7,746	7,537	8,436	6,867
Canada	220	155	167	125	70
Hong Kong	251	239	184	183	118
Japan	454	510	485	480	540
Korea	390	329	408	398	287
People's Republic of China	745	743	480	555	479
Philippines	4,670	4,329	4,308	5,208	4,266
Taiwan	132	81	87	145	57
Vietnam	481	353	332	328	214
Other countries	1,161	1,007	1,086	1,014	836

Source: U.S. Immigration and Naturalization Service, Office of Policy and Planning, Demographic Statistics, Statistics Branch, printouts.

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Table 1.51-- PERSONS NATURALIZED, BY COUNTRY OF FORMER ALLEGIANCE: 1992 TO 1997

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	Vietnam	Other countries
1992	4,475	341	321	3,131	73	175	434
1993	4,960	477	302	3,035	37	252	857
1994	4,659	434	403	2,571	182	245	824
1995	5,182	433	459	2,865	190	304	931
1996	6,090	556	579	2,940	251	517	1,247
1997	3,994	1/ 328	390	1,941	154	362	2/ 819

1/ People's Republic of China, 260; Taiwan, 68.

2/ Japan, 109; Mexico, 91; Canada, 58; Western Samoa, 80; American Samoa, 15; others, 466.

Source: U.S. Immigration and Naturalization Service, Office of Policy and Planning, Demographic Statistics, Statistics Branch, records.

**Table 1.52-- RESIDENCE IN 1985 OF PERSONS 5 YEARS AND OVER,
FOR THE STATE AND OAHU: 1990**

Residence in 1985	State total	Oahu only
Persons 5 years and over	1,026,209	775,063
Lived in same house	522,612	390,155
Lived in different house in U.S.	455,180	343,548
Same State	288,227	209,319
Same county	264,910	201,127
Different county	23,317	8,192
Different State	166,953	134,229
Lived abroad	48,417	41,360
Hawaii in 1985, Mainland in 1990	187,209	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), tables 23 and 37, and *1990 Selected Place of Birth and Migration Statistics for States*, CPH-L-121 (undated), table 4.

Table 1.53--MIGRATION BY ORIGIN AND DESTINATION: 1998

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 12,923 persons. Weighted and adjusted data]

Area migrated from	Area migrated to						
	State total	Oahu	Hawaii	Kauai	Maui	Molokai	Lanai
Total	35,156	27,737	2,614	895	3,392	337	181
Within state							
Oahu	1,284	(X)	725	71	321	58	109
Hawaii	325	141	(X)	36	94	54	-
Kauai	129	-	-	(X)	129	-	-
Maui	732	583	-	34	(X)	115	-
Molokai	57	-	57	-	-	(X)	-
Lanai	-	-	-	-	-	-	(X)
Other state	25,798	21,260	1,713	689	2,008	78	50
U.S. Territory	492	492	-	-	-	-	-
Other country	6,339	5,261	119	64	841	32	22

X Not applicable.

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

Table 1.54-- INTERCOUNTY MIGRATION, BY DESTINATION AND AGE: 1998

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 12,923 persons. Weighted and adjusted data]

Age group	County migrated to				
	State total	Oahu	Hawaii	Kauai	Maui
Total	36,534	28,887	2,778	895	3,974
Under 15 years	7,990	6,893	332	107	658
15 to 24 years	8,296	7,085	441	198	572
25 to 34 years	7,332	6,133	221	203	775
35 to 44 years	6,085	4,894	409	48	734
45 to 54 years	3,152	1,866	711	117	458
55 to 64 years	2,207	1,443	252	71	441
65 years and over	1,472	573	412	151	336

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

Section 2

VITAL STATISTICS AND HEALTH

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

The major source for data on vital statistics and health is the Hawaii State Department of Health. Long-term trends are traced in *Historical Statistics of Hawaii*, Section 2. Sections 2 and 3 of the *Statistical Abstract of the United States: 1998* contain data for the nation as a whole.

Table 2.01-- BIRTHS AND DEATHS: 1980 TO 1997

Calendar year	Resident births 1/	Resident deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births 3/		
			Births	Deaths	To unmarried mothers	Fetal deaths 4/	Infant deaths 5/
1980	18,129	4,903	18.7	5.1	175.6	15.3	10.8
1981	18,174	4,927	18.6	5.0	181.8	13.1	10.5
1982	18,675	5,123	18.8	5.2	186.3	12.7	8.9
1983	19,090	5,409	18.8	5.3	197.8	11.4	10.0
1984	18,667	5,571	18.2	5.4	191.8	9.5	10.9
1985	18,267	5,751	17.6	5.5	201.3	9.7	9.1
1986	18,253	5,788	17.4	5.5	203.9	11.0	9.2
1987	18,555	6,149	17.4	5.8	213.7	9.2	8.8
1988	18,937	5,970	17.5	5.5	223.3	10.8	7.4
1989	19,335	6,381	17.7	5.8	239.0	9.9	8.4
1990	20,438	6,687	18.4	6.0	249.3	10.4	7.1
1991	19,880	6,696	17.6	5.9	262.5	10.5	7.0
1992	19,837	6,846	17.2	5.9	264.5	11.1	6.5
1993	19,567	7,226	16.8	6.2	273.0	11.7	7.6
1994	19,438	7,206	16.5	6.1	283.8	12.0	6.8
1995	18,552	7,482	15.7	6.3	291.8	12.1	5.9
1996	18,378	7,803	15.5	6.6	302.3	9.6	5.8
1997	17,326	7,710	14.5	6.5	299.0	8.5	6.4

1/ Events occurring in Hawaii. 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. Bureau of the Census, as revised through Dec. 31, 1998.

3/ Place of occurrence basis.

4/ 20 weeks gestation and over. Includes elective abortions.

5/ Under 1 year of age.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and Office of Health Status Monitoring, records; Rates per 1,000 resident population calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.02-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1993 TO 1997

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1993	19,650	-	19,650	3,564	16,086	3,564
1994	19,515	-	19,515	3,604	15,911	3,604
1995	18,636	-	18,636	3,172	15,464	3,172
1996	18,451	-	18,451	3,132	15,319	3,132
1997	17,415	-	17,415	3,131	14,284	3,131
Deaths:						
1993	7,570	162	7,408	87	7,321	249
1994	7,529	154	7,375	76	7,299	230
1995	7,795	173	7,622	65	7,557	238
1996	8,148	185	7,963	77	7,886	262
1997	8,016	151	7,865	78	7,787	229
Birth rates: 2/						
1993	15.6	0	16.3	57.3	14.0	31.0
1994	15.2	0	15.9	66.3	13.5	33.6
1995	14.5	0	15.1	68.2	13.0	32.6
1996	14.3	0	14.8	56.6	12.9	30.3
1997	13.5	0	14.0	56.3	12.0	31.3
Death rates: 2/						
1993	6.0	3.1	6.1	1.4	6.4	2.2
1994	5.9	2.9	6.0	1.4	6.2	2.1
1995	6.1	3.4	6.2	1.4	6.4	2.4
1996	6.3	3.9	6.4	1.4	6.6	2.5
1997	6.2	3.4	6.3	1.4	6.6	2.3

1/ Death rates for military dependents based on 1990 age and sex composition of military dependents and 1990 age-sex-specific death rates for all civilians. Deaths of civilians other than military dependents calculated as residual.

2/ Per 1,000 de facto population in each group.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; birth and death rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1992 TO 1997

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate 1/			
1992	27,297	23.7	19,837	1,518	5,942
1993 2/	26,765	23.0	19,567	1,392	5,806
1994	26,457	22.5	19,438	1,265	5,754
1995	25,139	21.2	18,552	1,086	5,501
1996	24,234	20.4	18,378	985	4,871
1997	22,680	19.0	17,326	854	4,500

1/ Per 1,000 resident population, July 1. Based on population estimates by the U.S. Census Bureau, as revised through Dec. 31, 1998.

2/ Excludes one birth, four standard fetal deaths, and six elective abortions with unknown residence.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; Rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.04-- BIRTHS AND DEATHS, BY RESIDENCE: 1994 TO 1997

Event and year	Occurring in Hawaii				Persons born in or current residents of Hawaii 1/	
	Total	Resident	Non-resident	Not reported	Total	Out of State
Births:						
1994	19,515	19,438	75	2	19,474	36
1995	18,636	18,552	81	3	18,578	26
1996	18,451	18,378	69	4	18,396	18
1997	17,415	17,326	87	2	(NA)	(NA)
Deaths:						
1994	7,530	7,206	309	15	7,441	235
1995	7,795	7,482	309	4	7,718	236
1996	8,148	7,803	338	7	8,124	321
1997	8,016	7,710	303	3	(NA)	(NA)

NA Not available.

1/ Birth figures exclude mothers who were born in Hawaii but are now residents of another state.

Death figures include deaths of Hawaii residents occurring in Hawaii or in other states as well as Guam, Canada, and other foreign countries as well as deaths of persons born in Hawaii but who were residents of other states at the time of death. The death, however, must have been reported to the Hawaii Department of Health by the health department in the location that the death occurred.

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

Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1995 TO 1997

[Excludes births to Hawaii residents occurring out of state]

Subject	1995	1996	1997
Number of resident births	18,552	18,378	17,326
City and County of Honolulu	13,791	13,728	12,860
Percent on Oahu	74.3	74.7	74.2
Hawaii County	2,028	1,979	1,891
Kauai County	842	807	742
Maui County (incl. Kalawao)	1,891	1,864	1,833
Percent attended by M.D. or O.D. in hospital	94.8	94.6	94.6
Males per 100 females	104.0	105.6	106.0
Median weight of single births (grams)	3,315	3,305	3,295
Percent low birth weight (under 2,500 grams)	6.6	6.7	7.1
Percent single births under 40 weeks gestation	54.0	51.7	56.9
Percent plural	1.9	1.9	1.6
Percent with 1 or more congenital malformations	4.0	3.7	4.0
Percent to unmarried mothers	29.3	30.3	30.0
Percent with prenatal visit in first three months	81.2	81.7	81.3
Percent first child born to mother 1/	29.4	27.3	29.9
Percent first child born alive to mother	42.9	42.7	42.1
Median age of mothers (years)	27	27	27
Median age of known fathers (years)	30	30	30

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

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

Table 2.06-- CHILDREN EVER BORN PER 1,000 WOMEN 15 TO 44 YEARS OLD, BY GEOGRAPHIC AREA: 1990

Age of women	State total	Oahu	Other islands
Women 15 to 24 years	289	281	316
Women 25 to 34 years	1,199	1,132	1,423
Women 35 to 44 years	1,812	1,778	1,911

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 35.

**Table 2.07-- RESIDENT BIRTHS, MIXED AND UNMIXED RACE,
BY MILITARY STATUS OF PARENTS: 1997**

Military status of parents	Total births	Unmixed	Mixed 1/	Not reported 2/	Percent mixed 3/
Total	17,326	7,193	9,140	993	56.0
Military	3,103	2,211	822	70	27.1
Civilian	12,783	4,972	7,791	20	61.0
Status not reported	1,440	10	527	903	98.1

1/ Includes all Part Hawaiian births, including those in which both parents were Part Hawaiian.

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

3/ Based on number reporting.

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

**Table 2.08-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES,
BY SEX: 1997**

A total of 7,374 first names, including variant spellings, was reported for the 17,415 babies born in Hawaii in 1997]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Joshua	161	Taylor	89
2	Michael (tie)	114	Kayla	73
3	Tyler (tie)	114	Jessica	61
4	Justin	103	Rachel	56
5	Jacob	93	Alyssa	54
6	Jordan	88	Ashley (tie)	52
7	Brandon (tie)	84	Jasmine (tie)	52
8	Noah (tie)	84	Sarah	51
9	Nicholas	81	Samantha	49
10	Matthew	78	Kiana (tie)	46
			Nicole (tie)	46

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

**Table 2.09-- MOST COMMON SURNAMES ON BIRTH AND DEATH
CERTIFICATES: 1997**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	79	Lee	70
2	Smith	71	Wong	49
3	Wong	63	Nakamura (tie)	33
4	Johnson	52	Young (tie)	33
5	Brown	50	Chang (tie)	31
6	Kim	48	Yamamoto (tie)	31
7	Williams	41	Kim	30
8	Jones	40	Higa (tie)	27
9	Silva	39	Tanaka (tie)	27
10	Nguyen	38	Ching (tie)	25
			Oshiro (tie)	25

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**

[In years]

Year	All races	Caucasian	Chinese	Filipino	Hawaiian and Part- Hawaiian	Japanese	Other
1910	43.96	54.83	54.17	(NA)	32.58	49.34	15.62
1920	45.69	56.45	53.80	28.12	33.56	50.54	28.38
1930	53.95	61.90	60.07	46.14	41.87	60.07	32.58
1940	62.00	64.03	65.32	56.85	51.78	66.28	59.48
1950	69.53	69.21	69.74	69.05	62.45	72.58	68.29
1960	72.42	72.80	74.12	71.53	64.60	75.68	62.19
1970	74.20	73.24	76.11	72.61	67.62	77.44	76.74
1980	77.78	75.79	81.65	79.32	71.83	80.91	78.98
1990	78.85	75.53	82.93	78.94	74.27	82.06	80.37

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.

Table 2.11-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1910 TO 1996

[Average expectation of life (e_0) in years]

Year	United States			Hawaii		
	Both sexes	Male	Female	Both sexes	Male	Female
1910	50.0	48.4	51.8	43.96	44.04	43.83
1920	54.1	53.6	54.6	45.69	45.64	45.75
1930	59.7	58.1	61.6	53.95	52.70	55.86
1940	62.9	60.8	65.2	62.00	59.92	64.86
1950	68.2	65.6	71.1	69.53	67.77	71.67
1960	69.7	66.6	73.1	72.42	70.39	74.75
1970	70.8	67.1	74.7	74.20	72.12	76.44
1980	73.7	70.0	77.4	77.78	74.54	81.51
1990	75.4	71.8	78.8	78.85	75.90	82.06
1996	76.1	73.1	79.1	(NA)	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *Historical Statistics of the United States, Colonial Times to 1970*, Part 1 (1975), p. 55; U.S. Department of Health and Human Services, National Center for Health Statistics, "Deaths: Final Data for 1996," *National Vital Statistics Reports*, Vol. 47, No. 9, November 10, 1998, p.22; 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; *Statistical Abstract of the United States: 1997*, p. 88.

Table 2.12-- AVERAGE LIFETIME, BY SEX: 1959-61 TO 1989-91

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

NA Not available.

1/ Among the 50 states and D.C., 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.

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, and *U.S. Decennial Life Tables for 1989-91*, Vol. II, *State Life Tables*, No. 12, *Hawaii* (March 1998), p. 4.

Table 2.13-- SELECTED LIFE TABLE VALUES: 1989-91

Exact age in years (x)	Average expectation of life in years (e _x)			Number surviving to specified age per 100,000 born alive (l _x)		
	Both sexes	Male	Female	Both sexes	Male	Female
0	78.21	75.37	81.26	100,000	100,000	100,000
1	77.80	75.01	80.78	99,253	99,154	99,358
5	73.95	71.18	76.92	99,053	98,925	99,189
15	64.12	61.37	67.06	98,817	98,647	98,997
25	54.53	51.89	57.32	98,128	97,739	98,570
35	45.04	42.58	47.59	97,132	96,291	98,063
45	35.74	33.49	38.06	95,418	93,989	96,982
55	26.98	24.93	29.06	91,637	89,354	94,067
65	18.98	17.31	20.66	83,847	79,600	88,093
75	12.01	10.88	13.07	68,406	61,075	76,007
85	6.55	5.71	7.07	40,617	32,940	49,596
95	3.29	2.92	3.40	8,840	5,002	12,652

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, *U.S. Decennial Life Tables for 1989-91*, Vol. II, *State Life Tables*, No. 12, *Hawaii* (March 1998), pp. 6-11.

Table 2.14-- CHARACTERISTICS OF RESIDENT DEATHS: 1995 TO 1997

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1995	1996	1997
Number of resident deaths	7,488	7,803	7,710
City and County of Honolulu	5,438	5,557	5,484
Hawaii County	973	1,064	1,052
Kauai County	374	403	419
Maui County (incl. Kalawao)	703	779	755
Males per 100 females	137.4	132.7	133.1
Median age (years)	74	75	75
Centenarian deaths: Male	13	11	14
Female	47	52	42
Oldest (years): Male	108	106	105
Female	106	110	110
Percent married	44.7	46.4	46.3
Deaths under 1 year	106	98	104
Per 1,000 live births	5.7	5.3	6.0
Fetal deaths 1/	6,587	5,856	5,354
Per 1,000 deliveries	262	242	236
Fetal deaths, 20 or more weeks gestation 2/	226	178	148
Per 1,000 live births	12.1	9.6	8.5
Standard fetal deaths 3/	1,086	985	854
Elective abortions	5,501	4,871	4,500
Per 1,000 live births	296.5	265.0	259.7

1/ Includes elective abortions.

2/ Place of occurrence basis. 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 2.15-- CAUSE OF DEATH, BY SEX: 1997

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	7,710	4,402	3,308
Tuberculosis	10	6	4
Other infective 1/	182	119	63
Malignant neoplasm	1,799	1,031	768
Digestive organs	560	330	230
Respiratory system	494	315	179
Breast	110	1	109
Genital organs	164	105	59
Urinary organs	75	50	25
Leukemia	62	38	24
Other	334	192	142
Diabetes mellitus	195	96	99
Heart disease	2,307	1,306	1,001
Rheumatic	14	4	10
Hypertensive	90	43	47
Ischemic	1,172	697	475
Other heart	1,031	562	469
Hypertension	30	19	11
Cerebrovascular disease	683	353	330
Arteriosclerosis	11	6	5
Other circulatory	103	51	52
Influenza/pneumonia	358	199	159
Chronic obstructive pulmonary diseases	249	144	105
Peptic ulcer	24	17	7
Cirrhosis of liver	59	46	13
Nephritis and nephrosis	89	59	30
Pregnancy, birth & puerperium	1	-	1
Congenital anomalies	37	22	15
Perinatal conditions	46	24	22
Symptoms, signs & ill-defined conditions	67	36	31
Other diseases 2/	884	457	427
Unintentional injury	306	212	94
Motor vehicles	136	86	50
Other	170	126	44
Suicide	132	104	28
Homicide & legal intervention	49	37	12
Other external causes	89	58	31

1/ Includes AIDS.

2/ Includes other respiratory.

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

**Table 2.16-- GREATEST CATASTROPHIC MORTALITY OF RECORD,
BY TYPE OF DISASTER: 1778 TO 1999**

[Complete through May 18, 1999]

Kind 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
	Oct. 15, 1997	Palolo	Fire destroyed 3 houses	7
Flood	Jan. 18, 1916	Iao; Wailuku	Cloudburst and flood	14
Homicide	July 15, 1952	Near Koko Head	Mass murder	5
	Nov. 22, 1965	Aiea	Mass murder	5
	June 25-26, 1991	Waipahu; Kailua	Mass murder	5
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
	July 5, 1969	Kam 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 400
War, riots, etc.	Dec. 7, 1941	Oahu	Pearl Harbor attack	2,500
	Jan. 1790	Olowalu	U.S. ship fired on native canoes	> 100
	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; *Data Book 1997*, table 2.14, as updated.

Table 2.17-- CATASTROPHIC MORTALITY: 1989 TO 1999

[Includes all accidents, natural disasters, and other events causing five or more deaths.
Complete through May 18, 1999]

Date	Place	Kind of disaster	Deaths
1989: Jan. 31	Texas	Crash of Hawaii-bound airplane	19
Feb. 24	100 mi. S. of Honolulu	Airplane door lost	9
June 11	Waimanu, Hawaii	Airplane crash	11
Oct. 28	Halawa, Molokai	Airplane crash	20
1990: Nov. 13	Near Puunene, Maui	3-car auto crash	5
1991: Aug. 25-26	Waipahu and Kailua	Murder spree	5
1992: Jan. 14	Between Oahu and Maui	Airplane disappearance	5
Apr. 22	Haleakala summit, Maui	Airplane crash	9
Sept. 11	Kauai and Oahu	Hurricane Iniki	8
Sept. 16	Haleakala slope, Maui	Helicopter crash	7
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 Crater, Kauai	Helicopter crash	6
1999: May 9	Sacred Falls, Oahu	Landslide	8

Source: Hawaii State Department of Business, Economic Development & Tourism file of newspaper accounts.

**Table 2.18-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1970 TO 1997**

Method	1970	1980	1990	1995	1996	1997
All methods	4,197	5,204	7,055	7,795	8,148	8,016
Burial	2,197	2,343	2,798	2,813	2,861	2,811
Cremation	1,509	2,241	3,564	4,386	4,670	4,616
Removal	470	567	656	558	580	548
Entombment	13	44	35	11	11	20
Medical science	3	-	-	24	22	20
Other	-	1	-	-	1	-
Unknown	5	8	2	3	3	1

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

**Table 2.19-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1994 TO 1998**

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1994: June 30	2,377	1,783	255	102	237
1995: June 30	2,358	1,760	261	107	230
1996: June 30	2,509	1,873	285	109	242
1997: June 30	2,559	1,919	277	114	249
1998: June 30	2,600	1,974	287	112	227

Source: Hawaii State Department of Human Services, Services for the Blind Branch, records.

Table 2.20-- SELECTED CHRONIC CONDITIONS: 1996 AND 1997

[Provisional data. Based on a sample survey of 13,608 persons]

Selected chronic conditions	Prevalence of condition		Conditions per 1,000 persons 1/	
	1996	1997	1996	1997
Diabetes	48,423	45,838	42	40
Hypertension	144,823	145,232	126	127
High blood cholesterol	123,967	143,407	108	125
Asthma	100,706	123,316	88	108
Arthritis	(NA)	75,861	(NA)	66
Alzheimer 2/	2,096	(NA)	6	(NA)

NA Not available.

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

2/ Asked only for persons 45 years of age and over in households. Deleted from survey in 1997.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 2.21-- SPECIFIED COMMUNICABLE DISEASES: 1993 TO 1997

[1997 data reported as of 2/2/99; earlier data not updated. However, new categories added this year which are E. coli 0157:H7, Giardiasis, Hepatitis B (Acute), Pertussis, and Meningitis (bacterial) have data reported as of 2/2/99 for the years 1993 through 1997]

Disease	1993	1994	1995	1996	1997
Cases:					
AIDS	373	238	222	192	98
Campylobacteriosis	403	601	699	854	823
E. coli 0157:H7	(1/)	(1/)	17	8	11
Fish poisoning 2/	95	119	129	43	92
Giardiasis	190	131	182	229	162
Gonorrhea	864	699	565	501	507
Hansen's Disease 3/	17	21	19	15	26
Hepatitis A	69	59	166	120	148
Hepatitis B (Acute)	22	28	32	14	11
Influenza	2,531	1,233	255	129	4/ 1,051
Leptospirosis 5/	24	22	23	42	60
Malaria 6/	7	15	12	12	13
Measles (Rubeola)	20	17	3	51	6
Meningitis, bacterial 7/	10	9	5	8	7
Mumps	30	19	14	31	27
Pertussis (whooping cough)	14	19	65	35	19
Pneumococcal disease	73	77	110	98	52
Rubella	28	4	5	3	9
Salmonellosis	337	304	303	428	387
Shigella	98	202	102	87	65
Syphilis (Primary & Secondary)	7	4	-	4	1
Tuberculosis	251	247	193	200	167
Deaths: 8/					
AIDS	129	145	130	73	38
Hansen's Disease 3/	-	1	-	-	-
Hepatitis A	-	-	-	1	-
Hepatitis B (Acute)	13	4	8	11	11
Influenza	1	-	1	3	3
Pneumococcal disease	-	1	2	1	-
Salmonellosis	-	-	1	1	-
Tuberculosis	5	4	6	5	10

Footnotes and source on next page.

Table 2.21--SPECIFIED COMMUNICABLE DISEASES: 1993 TO 1997 -- Cont.

- 1/ Reportable disease beginning in 1995.
 - 2/ Scombroid, ciguatera and hallucinogenic fish poisoning.
 - 3/ Excludes reinstated cases.
 - 4/ Of the 1,051 reported cases, 252 cases were confirmed illnesses and 799 were influenza-like illnesses.
 - 5/ Includes previously unreported cases.
 - 6/ Acquired outside the State.
 - 7/ Category changed from "meningitis, all types" to "meningitis, bacterial". Viral meningitis is no longer reported.
 - 8/ Resident data. For the years shown, no deaths were reported from campylobacteriosis, fish poisoning, giardiasis, gonorrhea, leptospirosis, malaria, measles (rubeola), meningitis (bacterial), mumps, pertussis, rubella, shigella or syphilis. No data were available for deaths caused by E. coli 0157:H7.
- Source: Hawaii State Department of Health, Office of Health Status Monitoring, Epidemiology Branch, and AIDS Surveillance Program, records.

**Table 2.22-- HEALTH RISK BEHAVIORS AND CONDITIONS FOR
PERSONS 18 YEARS AND OLDER: 1995 TO 1998**

[Weighted percent of adults who reported the health risk behaviors or conditions]

Risk factor 1/	1995	1996	1997	1998
Seatbelt non-use	12.6	(NA)	12.8	(NA)
Acute drinking 2/	12.4	(NA)	17.1	(NA)
Chronic drinking 3/	2.9	(NA)	5.0	(NA)
Drinking and driving	2.1	(NA)	2.4	(NA)
High cholesterol	27.1	(NA)	31.5	(NA)
Hypertension	21.1	(NA)	23.9	(NA)
Lack of exercise 4/	(NA)	71.9	(NA)	69.7
Poor nutrition 5/	(NA)	74.9	(NA)	72.5
Diabetes	3.2	4.6	5.0	5.6
Current smokers 6/	17.8	22.2	18.7	19.5
Overweight 7/	22.4	23.9	26.6	27.8

NA Not available.

1/ Certain risk factor data are collected only on alternating years.

2/ Five or more drinks on at least one occasion, in the past month.

3/ Sixty or more drinks in the past month.

4/ No regular and sustained physical activity.

5/ Less than five fruits and vegetables a day.

6/ Listed as "cigarette smoking" in previous *Data Book* tables.

7/ Body mass index (BMI) greater than or equal to 27.3 for females; body mass index greater than or equal to 27.8 for males.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Behavioral Risk Factor Surveillance System (BRFSS) 1995-1998 at http://www.hawaii.gov/health/stats/hs_hsp.html and records.

Table 2.23-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1993 TO 1998

Category and year	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
Number of facilities:						
1993	57	23	41	13	486	13
1994 4/	73	23	41	29	489	12
1995	74	23	42	29	499	12
1996	71	23	42	26	5/ 523	5/ 12
1997	76	24	43	30	521	11
1998	(NA)	(NA)	(NA)	(NA)	530	12
Number of licensed beds: 5/						
1993	6,818	2,600	3,510	708	2,164	413
1994 4/	7,130	2,600	3,492	1,038	2,216	407
1995	7,130	2,642	3,504	984	2,274	393
1996	7,433	2,633	3,814	986	5/ 2,403	5/ 393
1997	7,611	2,654	3,827	1,130	2,410	349
1998	(NA)	(NA)	(NA)	(NA)	2,463	363

NA Not available.

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

2/ Five beds or fewer.

3/ Six beds or more.

4/ Additional specialty care facilities were added to the survey.

5/ Number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in *The State of Hawaii Data Book 1996* and earlier referred to the number of beds with Certificate of Need approval. Certificate of Need approved beds included beds completed and beds being developed (not yet in service).

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1994* (September 1995); State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1995* (March 1997); State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data* (June 1997); State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1997 Data* (July 1998); and Hospital and Medical Facilities Branch, records.

Table 2.24-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1992 TO 1997

[Excludes Tripler Army Medical Center]

Type of facility and year	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:				
1992	98,973	1,837	6.8	71.1
1993	100,290	1,848	6.7	71.1
1994	101,057	1,849	6.7	71.2
1995	101,001	1,802	6.5	68.2
1996	100,519	1,689	6.1	64.2
1997	100,353	1,715	6.2	64.5
Long-term care:				
1992	3,255	3,343	375	96.2
1993	3,346	3,339	364	95.1
1994	3,149	3,413	395	97.8
1995	3,577	3,308	335	94.4
1996	4,577	3,520	279	92.3
1997	5,098	3,472	247	90.7

Source: Hawaii State Department of Health, *Statistical Report* (annual); State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1994*; State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1995*; State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data*; State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1997 Data* and records.

Table 2.25-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1997

[Facilities recognized by the Hawaii State Health Planning and Development Agency.
Excludes Tripler Army Medical Center]

Category and island	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
NUMBER OF FACILITIES						
State total	76	24	43	30	521	11
Oahu	54	11	26	25	436	8
Hawaii	8	6	8	-	51	-
Kauai	5	3	5	-	16	2
Maui	6	2	2	4	12	-
Molokai	2	1	1	1	6	1
Lanai	1	1	1	-	-	-
NUMBER OF LICENSED BEDS 4/						
State total	7,611	2,654	3,827	1,130	2,410	349
Oahu	5,644	2,082	2,490	1,072	2,040	280
Hawaii	827	264	563	-	224	-
Kauai	390	114	276	-	62	57
Maui	692	182	466	44	56	-
Molokai	44	8	22	14	28	12
Lanai	14	4	10	-	-	-

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

2/ Five beds or fewer.

3/ More than five beds.

4/ Number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in the the *State of Hawaii Data Book 1996 and earlier* referred to the number of beds with Certificate of Need approval. Certificate of Need approved beds included beds completed and beds being developed (not yet in service).

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1997 Data* (July 1998), and Hospital and Medical Facilities Branch, records.

Table 2.26-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1997

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	100,353	1,715	6.2	64.5
Oahu	74,093	1,368	6.7	65.7
Hawaii	11,708	154	4.6	56.4
Kauai	5,182	54	3.8	47.0
Maui	9,248	139	5.5	76.1
Molokai	114	1	2.5	9.9
Lanai	8	-	1.3	0.9
LONG-TERM CARE				
State total	5,098	3,472	247	90.7
Oahu	3,608	2,275	230	91.4
Hawaii	541	550	361	97.2
Kauai	477	266	203	96.3
Maui	365	358	358	76.8
Molokai	102	18	66	83.3
Lanai	5	6	318	58.1

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1997 Data* (July 1998).

Table 2.27-- ADULT PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1988 TO 1998

Facilities and year	Persons active, Dec. 31	Admissions	Discharges	Persons served
Hawaii State Hospital:				
1988 1/	237	712	689	926
1989 1/	220	777	794	1,014
1990 1/	193	738	765	958
1991 1/	159	311	345	504
1992	198	394	355	553
1993	195	446	449	644
1994	199	275	271	470
1995 2/	172	107	123	295
1996	164	102	110	274
1997	163	100	101	264
1998	161	137	132	293
State-supported outpatient community mental health centers:				
1988	2,612	2,092	2,043	4,655
1989	2,369	1,840	2,083	4,452
1990	2,505	1,764	1,628	4,133
1991	3,037	2,494	1,962	4,999
1992	3,509	2,182	1,710	5,219
1993	3,410	2,004	2,103	5,513
1994	3,246	1,692	1,856	5,102
1995	2,798	804	866	3,664
1996	2,867	818	749	3,616
1997	3,024	804	647	3,671
1998	3,395	539	743	3/ 3,557

1/ Figures include children and adolescents who were part of Hawaii State Hospital up until the end of June 1991.

2/ Prior to 1995, a patient's administrative leave for treatment at a facility outside Hawaii State Hospital was counted as a discharge when the patient left, then counted as an admission when the patient returned to the Hawaii State Hospital. From 1995, this type of patient leave was handled as an internal transfer.

3/ Number of persons served is for fiscal year 1998. Data reports were unavailable since August 1998 due to the fire in Kinau Hale which destroyed some files. Reports from the new data system are estimated to be available in August 1999.

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

**Table 2.28-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1994 TO 1998**

Year	Number of beds, June 30 1/	Admissions 2/		Patients in hospital 4/	
		Total	First 3/	Average 2/	June 30
1994	202	273	216	196	199
1995	202	117	112	186	171
1996	202	89	87	170	167
1997	202	101	100	164	168
1998	202	113	106	164	163

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

2/ Year ended June 30.

3/ Admissions in which a person has entered the facility for the first time during the fiscal year that data are being collected for.

4/ Includes patients on leave and absent without leave. In 1998, about .4% of the patients were on leave or absent without leave.

Source: Hawaii State Hospital, records.

Table 2.29-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1994 TO 1998

[Waimano Training School and Hospital is the State institution for the mentally retarded]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1994	172	-	82	80	-
1995	172	3	77	75	3
1996	101	-	57	46	5
1997	101	-	38	36	3
1998 3/	30	-	26	25	2

1/ Year ended June 30. Excluding returns from community placement.

2/ Year ended June 30.

3/ Anticipate that individuals in the large institution will be integrated into the community by June 1999, then program will focus on providing community support services.

Source: Waimano Training School and Hospital, records.

Table 2.30-- HANSEN'S DISEASE PATIENTS REGISTERED: 1993 TO 1997

Subject	1993	1994	1995	1996	1997
Patients on register, Dec. 31	460	419	390	365	357
Department of Health's Hansen's Disease Community Program 1/	378	342	320	301	297
Kalaupapa	79	74	68	64	60
Hale Mohalu at Leahi	3	3	2	-	-
New cases	17	21	19	15	26
Deaths	10	11	15	11	6

1/ Previously categorized as "at home". Patients are registered to this community program, but reside at home.

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

**Table 2.31--COMMUNITY HOSPITAL CHARACTERISTICS, FOR THE
UNITED STATES AND HAWAII: 1995**

Characteristic	United States	Hawaii	
		Number	Rank 1/
Number of community hospitals	5,194	21	45
Beds	872,736	3,030	45
Admissions	30,945,657	97,268	43
Average stay (days)	6.5	9.1	4
Average cost to hospital --			
Per patient day	\$967.69	\$955.79	24
Per stay	\$6,215.51	\$8,444.64	1

1/ Among 50 states; largest number, longest number of days or highest average cost to hospital ranking 1.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data 1997-1998* (1998), pp. 110.

**Table 2.32-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS
LICENSED IN HAWAII, BY PLACE OF ADDRESS: JUNE 30, 1998**

[Excludes inactive licenses]

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	5,576	1,326	11,558	1,326
Hawaii addresses	2,997	1,013	9,484	786
Hawaii	244	93	979	74
Maui	222	71	808	67
Lanai	1	1	12	-
Molokai	8	3	34	2
Oahu	2,420	804	7,258	605
Kauai	102	41	393	38
Mainland U.S.	2,511	302	1,954	533
Foreign	68	11	120	7

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, records.

Table 2.33-- PERSONAL HEALTH CARE EXPENDITURES, BY TYPE: 1993

[Data represent spending for services produced by Hawaii's health care providers, as opposed to those consumed by Hawaii residents or supplied by Hawaii employers]

Expenditure type	Million dollars	Percent
Personal health care expenditures, total	3,485	100.0
Hospital care	1,460	41.9
Physician services	771	22.1
Dental services	235	6.7
Other professional services	222	6.4
Home health care	32	0.9
Drugs and other medical nondurables	416	11.9
Vision products and other medical durables	64	1.8
Nursing home care	181	5.2
Other personal health care	104	3.0
Medicare personal health care expenditures	496	...
Medicaid personal health care expenditures	354	...

Source: *Statistical Abstract of the United States: 1995* (1995), p. 111.

Table 2.34-- MARRIAGES AND DIVORCES: 1980 TO 1997

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population 3/		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 4/	Inter-racial 5/
1980	11,856	9,442	4,438	9.7	4.6	20.4	44.4
1981	12,218	9,445	4,253	9.7	4.3	22.7	44.5
1982	13,483	10,053	4,233	10.1	4.3	25.4	45.0
1983	14,062	10,216	4,583	10.1	4.5	27.3	45.5
1984	14,982	10,020	4,769	9.7	4.6	33.3	46.3
1985	15,421	9,893	4,887	9.5	4.7	35.8	46.9
1986	16,219	9,571	4,674	9.1	4.4	30.4	46.5
1987	16,567	9,714	4,419	9.1	4.1	41.3	44.6
1988	17,281	9,708	5,020	9.0	4.6	43.8	42.9
1989	17,974	9,952	5,613	9.1	5.1	44.6	44.3
1990	18,306	10,407	5,179	9.4	4.7	43.1	45.9
1991	17,764	10,051	5,184	8.9	4.6	43.4	43.9
1992	17,725	10,049	5,040	8.7	4.4	43.3	44.3
1993	17,252	9,744	4,888	8.4	4.2	43.5	44.1
1994	18,118	9,317	4,993	7.9	4.2	48.6	44.5
1995	18,669	9,277	5,505	7.8	4.7	50.3	45.0
1996	19,589	9,003	4,903	7.6	4.1	54.0	45.6
1997	19,901	8,878	4,877	7.4	4.1	55.5	44.8

1/ One or both partners residents of Hawaii.

2/ Final decrees only.

3/ Based on July 1 estimates by the U.S. Bureau of the Census, as revised through Dec. 31, 1998.

4/ Both partners nonresidents of Hawaii.

5/ Excludes nonresident marriages. Also, for these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; Rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 2.35-- MARRIAGE AND DIVORCE RATES BASED ON RISK
POPULATION: 1910 TO 1990**

Census year	Females 15 years old and over 1/		Marriages 2/		Divorces 2/	
	Unmarried 3/	Married 4/	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

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

2/ Annual averages for two-year periods centering on each census date. Place of occurrence basis.

Marriage data for 1969-1970 and later years exclude nonresident marriages.

3/ Single, widowed or divorced.

4/ Includes separated persons.

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; Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1969, 1970, 1979, 1980, and records.

**Table 2.36-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1994 TO 1997**

[Place of occurrence basis]

Subject	1994	1995	1996	1997
MARRIAGES				
Number	18,118	18,669	19,589	19,901
Percent on Oahu	53.0	51.1	49.0	46.5
Percent Hawaii residents:				
Both bride and groom	47.8	46.6	42.4	41.3
One partner only	3.6	3.1	3.5	3.2
Neither bride nor groom	48.6	50.3	54.0	55.5
Median age (years):				
Groom	31	32	32	32
Bride	29	29	30	30
Percent previously married:				
Groom	37.6	38.4	38.8	39.1
Bride	38.5	38.7	38.8	39.8
DIVORCES AND ANNULMENTS				
Number	4,993	5,505	4,903	4,877
Divorces	4,981	5,494	4,883	4,858
Annulments	11	9	20	17
Not reported	1	2	-	2
Percent occurring on Oahu	73.4	76.1	73.9	74.3
Percent Hawaii residents:				
Both partners	75.3	75.5	76.0	75.7
One partner only	23.1	23.0	23.0	23.4
Neither partner	0.1	<0.1	<0.1	0.1
Not reported 1/	1.4	1.4	0.9	0.8
Median age (years):				
Husband	36	36	37	37
Wife	34	34	35	34
Percent interracial 2/	41.6	41.9	41.5	43.2
Percent with children under 18 years	49.3	50.1	50.9	50.1
Median years married	6.4	6.4	6.8	6.7

1/ Couples where the residence of one or more partners is unknown.

2/ For these calculations, divorces where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records.

**Table 2.37-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND
NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1997**

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents	Residence unknown
All marriages	19,901	8,878	11,020	3
Race of partners:				
Both partners same race 1/	14,447	4,848	9,596	3
Different	5,454	4,030	1,424	-
Percent different	27.4	45.4	12.9	-
Type of ceremony:				
Civil ceremony	3,465	2,777	686	2
Religious ceremony	16,433	6,101	10,331	1
Unknown	3	-	3	-

1/ Includes marriages with both partners of unknown race.

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

Table 2.38-- MARITAL DISSOLUTION: 1980 TO 1997

Subject	1980	1990	1997	Percent		
				1980	1990	1997
Married couples	185,698	210,468	226,388	100.0	100.0	100.0
Marriages ended	6,782	8,292	8,446	3.7	3.9	3.7
By divorce	4,438	5,172	4,873	2.4	2.5	2.2
By death	2,344	3,120	3,573	1.3	1.5	1.6
Husbands	1,678	2,234	2,562	0.9	1.1	1.1
Wives	666	886	1,011	0.4	0.4	0.4

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; U.S. Bureau of the Census, *1980 Census of Population*, PC80-1-B13, table 21, and *1990 Census of Population*, 1990 CP-1-13, table 30; 1997 DBEDT estimate of married couples, based on 1990-97 percent increase in estimated population.

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. Bureau of the Census, 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: 1998* presents comparable information for the nation as a whole.

**Table 3.01-- SCHOOL ENROLLMENT, BY TYPE OF SCHOOL AND AGE, BY
GEOGRAPHIC AREAS: 1990**

Subject	State total	Oahu	Other islands
TYPE OF SCHOOL			
Persons 3 years and over enrolled	290,578	221,821	68,757
Preprimary school	21,276	15,977	5,299
Public school	10,739	7,839	2,900
Elementary or high school	186,653	135,478	51,175
Public school	157,102	110,708	46,394
College	82,649	70,366	12,283
Public college	66,131	55,366	10,765
AGE			
Persons 3 years and over enrolled	290,578	221,821	68,757
3 and 4 years	11,695	8,797	2,898
5 to 14 years	148,259	106,913	41,346
15 to 17 years	39,058	28,670	10,388
18 and 19 years	16,589	13,458	3,131
20 to 24 years	24,866	22,136	2,730
25 to 34 years	24,369	21,200	3,169
35 years and over	25,742	20,647	5,095
Percent enrolled in school:			
3 and 4 years	35.7	36.2	34.3
5 to 14 years	94.5	94.5	94.5
15 to 17 years	94.4	94.8	93.4
18 and 19 years	55.9	56.6	53.0
20 to 24 years	28.1	30.0	18.5
25 to 34 years	12.0	13.4	7.1
35 years and over	5.1	5.5	3.9

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 36.

Table 3.02-- EDUCATIONAL ATTAINMENT, BY GEOGRAPHIC AREA: 1990

Age and educational attainment	State total	Oahu	Other islands
Persons 18 to 24 years	118,184	97,548	20,636
High school graduate (includes equivalency)	51,928	42,531	9,397
Some college or associate degree	44,870	38,035	6,835
Bachelor's degree or higher	6,349	5,600	749
Persons 25 years and over	709,820	534,187	175,633
Less than 5th grade	24,642	18,003	6,639
5th to 8th grade	47,164	32,128	15,036
9th to 12th grade, no diploma	69,700	50,222	19,478
High school graduate (includes equivalency)	203,893	151,930	51,963
Some college, no degree	142,881	107,988	34,893
Associate degree, occupational program	34,376	24,598	9,778
Associate degree, academic program	24,740	18,149	6,591
Bachelor's degree	111,837	89,197	22,640
Master's degree	32,282	26,880	5,402
Professional school degree	12,818	10,359	2,459
Doctorate degree	5,487	4,733	754
Percent:			
Less than 5th grade	3.5	3.4	3.8
High school graduate or higher	80.1	81.2	76.6
Male	81.7	83.3	76.9
Female	78.4	79.2	76.2
Some college or higher	51.3	52.8	47.0
Bachelor's degree or higher	22.9	24.6	17.8
Male	24.4	26.4	18.4
Female	21.4	22.7	17.1

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 36.

**Table 3.03-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS
OLD AND OVER: 1940 TO 1990**

Years completed	1940	1950	1960	1970	1980	1990
Percent 4 years of high school or more 1/	20.5	31.6	46.1	61.9	73.8	80.1
Percent 4 years of college or more 2/	5.3	6.1	9.0	14.0	20.3	22.9

1/ For 1990, percent high school graduate or higher.

2/ For 1990, percent Bachelor's degree or higher.

Source: U.S. Bureau of the Census, *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.

Table 3.04-- EDUCATIONAL ATTAINMENT OF PERSONS 25 YEARS OLD AND OVER, BY COUNTIES: 1990

Subject	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Population 25 years and over	709,820	77,099	534,187	130	33,045	65,359
Percent --						
High school graduate or higher	80.1	77.7	81.2	51.5	73.1	77.0
With bachelor's degree or higher	22.9	18.5	24.6	4.6	16.3	17.8

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics*, Hawaii (April 1992), table 4.

Table 3.05-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, FOR THE UNITED STATES AND HAWAII: MARCH 1996

[Noninstitutional population]

Geographic area	Population 25 years and over (1,000)	High school graduate or more		Bachelor's degree or more	
		Percent	1.6* (s.e.) 1/	Percent	1.6*(s.e.) 1/
United States	168,323	81.7	0.3	23.6	0.3
Hawaii	731	84.4	2.1	23.9	2.4
Rank 2/	41	23	...	24	...

1/ The value of 1.6 times the standard error, added to and subtracted from the estimated percentage, yields the 90-percent confidence level.

2/ Among the 50 states.

Source: U.S. Bureau of the Census, *Educational Attainment in the United States: March 1997*, Detailed Tables, from website <http://www.census.gov/>.

Table 3.06-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, FOR THE UNITED STATES AND HAWAII: MARCH 1997

[Noninstitutional population]

Geographic area	Population 25 years and over (1,000)	High school graduate or more		Bachelor's degree or more	
		Percent	1.6* (s.e.) 1/	Percent	1.6*(s.e.) 1/
United States	170,581	82.1	0.3	23.9	0.3
Hawaii	764	83.7	2.2	22.5	2.5
Rank 2/	41	28	...	26	...

1/ The value of 1.6 times the standard error, added to and subtracted from the estimated percentage, yields the 90-percent confidence level.

2/ Among the 50 states.

Source: U.S. Bureau of the Census, *Educational Attainment in the United States: March 1997*, Detailed Tables, from website <http://www.census.gov/>.

Table 3.07-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, FOR THE UNITED STATES AND HAWAII: MARCH 1998

[Noninstitutional population]

Geographic area	Population 25 years and over (1,000)	High school graduate or more		Bachelor's degree or more	
		Percent	1.6* (s.e.) 1/	Percent	1.6*(s.e.) 1/
United States	172,211	82.8	0.3	24.4	0.3
Hawaii	773	84.6	2.2	24.0	2.6
Rank 2/	40	23	...	22	...

1/ The value of 1.6 times the standard error, added to and subtracted from the estimated percentage, yields the 90-percent confidence level.

2/ Among the 50 states.

Source: U.S. Bureau of the Census, *Educational Attainment in the United States: March 1998*, Detailed Tables, from website <http://www.census.gov/>.

**Table 3.08-- PRIVATE EDUCATIONAL SERVICES (SIC 82),
BY TYPE OF SERVICE: 1996**

SIC code	Type of service	No. of establishments		Employees, week including March 12	Annual payroll (\$1,000)
		Total	20 or more employees		
82	Educational services	299	78	10,413	254,628
821	Elementary and secondary schools	110	50	5,459	156,546
822	Colleges and universities	23	9	3,448	65,902
823	Libraries	4	1	20-99	(D)
824	Vocational schools	30	4	465	17,542
829	Schools and educ. services, n.e.c.	124	14	500-999	(D)

D Withheld to avoid disclosing data for individual establishments.

Source: U.S. Bureau of the Census, *County Business Patterns 1996, Hawaii*, CBP-96-13 (November 1998), p. 12.

Table 3.09-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1985-1986 TO 1995-1996

School year	Schools (September)			Teachers (September)		
	Total	Public	Private	Total	Public	Private
1985-86	373	232	141	10,677	8,221	2,456
1986-87	377	232	145	10,788	8,244	2,544
1987-88	369	231	138	11,168	8,632	2,536
1988-89	376	235	141	11,485	8,973	2,512
1989-90	374	238	136	11,856	9,202	2,654
1990-91	372	238	134	13,206	10,721	2,485
1991-92	368	239	129	13,676	11,116	2,580
1992-93	368	238	130	13,658	11,326	2,332
1993-94 1/	370	241	129	13,769	11,445	2,324
1994-95 1/	374	242	132	14,045	11,602	2,443
1995-96 1/	(NA)	246	(NA)	(NA)	11,629	(NA)
School year	Enrollment (September)			High school graduates		
	Total	Public	Private	Total	Public	Private
1985-86	200,952	164,169	36,783	12,468	9,958	2,510
1986-87	201,188	164,640	36,548	13,097	10,491	2,606
1987-88	202,419	166,240	36,179	13,448	10,800	2,648
1988-89	203,358	167,899	35,459	13,100	10,597	2,503
1989-90	205,591	169,904	35,687	11,717	9,335	2,382
1990-91	207,558	171,793	35,765	11,948	9,571	2,377
1991-92	210,271	175,114	35,157	12,009	9,649	2,360
1992-93	212,448	177,806	34,642	11,621	9,320	2,301
1993-94 1/	215,708	180,428	35,280	12,307	9,870	2,437
1994-95 1/	219,224	183,795	35,429	(NA)	9,435	(NA)
1995-96 1/	(NA)	186,581	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Data exclude UH Lab School.

Source: Hawaii State Department of Education, records.

**Table 3.10-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 1995,
AND HIGH SCHOOL GRADUATES, 1994-1995, FOR THE PUBLIC SCHOOL
SYSTEM, BY ISLANDS**

Island	Number of schools	Number of teachers	Enrollment	High school graduates
State total	246	11,629	186,581	9,435
Hawaii	37	1,711	28,083	1,541
Maui	23	1,089	18,479	880
Lanai	1	39	606	34
Molokai	5	127	1,907	96
Oahu 1/	166	7,983	126,330	6,289
Kauai	13	679	11,155	594
Niihau	1	2	21	1
Other islands	-	-	-	-

1/ Data exclude UH Lab School.

Source: Hawaii State Department of Education, records.

**Table 3.11-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES:
1995 AND 1996**

Grade	September 1995			September 1996		
	Total	Public 1/	Private	Total	Public 1/	Private
All grades	(NA)	187,190	(NA)	226,258	189,180	37,078
Nursery	(NA)	606	(NA)	5,223	695	4,528
Kindergarten	(NA)	16,065	(NA)	18,061	15,625	2,436
1	(NA)	15,492	(NA)	18,465	16,119	2,346
2	(NA)	14,882	(NA)	17,291	15,082	2,209
3	(NA)	14,257	(NA)	16,441	14,409	2,032
4	(NA)	13,754	(NA)	15,790	13,796	1,994
5	(NA)	13,181	(NA)	15,455	13,409	2,046
6	(NA)	13,279	(NA)	15,004	12,848	2,156
7	(NA)	12,675	(NA)	15,810	12,724	3,086
8	(NA)	12,491	(NA)	15,347	12,353	2,994
9	(NA)	14,918	(NA)	18,368	15,359	3,009
10	(NA)	12,232	(NA)	15,090	12,355	2,735
11	(NA)	10,592	(NA)	13,972	11,422	2,550
12	(NA)	9,671	(NA)	11,527	9,033	2,494
Specials 2/	(NA)	13,095	(NA)	14,414	13,951	463

NA Not available.

1/ Data exclude UH Lab School (not available in 1995).

2/ Public school data include ungraded students in special schools.

Source: Hawaii Council of Private Schools, *Private School Enrollment Report 1996-1997*, Hawaii State Department of Education, records.

**Table 3.12-- PUBLIC SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 1998**

Grade	State total 1/	Hawaii	Maui	Honolulu 1/	Kauai
All grades	189,395	27,993	21,608	126,745	10,962
Nursery	674	87	54	495	33
Kindergarten	14,481	1,835	1,603	10,245	798
1	14,904	2,031	1,604	10,517	752
2	14,954	2,103	1,610	10,410	830
3	14,863	2,076	1,596	10,412	779
4	13,730	1,931	1,517	9,540	742
5	13,202	1,907	1,433	9,084	778
6	12,674	1,884	1,410	8,645	735
7	11,934	1,876	1,381	7,965	712
8	11,601	1,918	1,444	7,569	670
9	14,103	2,307	1,648	9,383	764
10	12,374	1,999	1,516	8,115	744
11	11,531	1,921	1,340	7,588	682
12	9,523	1,570	1,168	6,117	668
Specials 2/	17,521	2,635	2,338	11,155	1,308

1/ Data exclude UH Lab School.

2/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records and <http://www.k12.hi.us/public/stats/EN98a.NSF>

**Table 3.13-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS:
FALL, 1992 TO 1995**

Category	1992	1993	1994	1995
All federally-connected pupils	35,318	33,650	33,340	33,013
Percent of total enrollment	20.0	18.7	18.1	17.8
Military dependents	19,832	18,725	18,513	(NA)
Others 1/	15,486	14,925	14,827	(NA)

NA Not available.

1/ Includes dependents of civilian employees of armed forces.

Source: Hawaii State Department of Education, records.

**Table 3.14-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT,
1993-1994 AND 1995-1996, AND PRIVATE HIGH SCHOOL
GRADUATES, 1991-1992 AND 1994-1995**

[Data limited to schools that offer first grade or above. Teacher count is FTE]

School year	Number of schools	Enrollment	FTE teachers	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

Source: National Center for Education Statistics, Private School Universe Survey, 1993-94, NCES 96-143 (May 15,1996) and Private School Universe Survey, 1995-96, NCES 98-229 (March 25,1998).

**Table 3.15-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND
DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY
EDUCATION: 1981-1982 TO 1994-1995**

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1981-1982	432,228,402	17,237,000	2,701	22,473	177
1982-1983	497,763,951	23,304,890	3,098	21,504	2/ 174
1983-1984	509,710,506	11,941,000	3,256	25,380	176
1984-1985	526,741,742	13,652,707	3,351	25,648	174
1985-1986	585,533,781	27,812,430	3,795	26,595	176
1986-1987	589,592,735	23,445,100	3,748	27,546	176
1987-1988	622,638,850	32,211,000	3,950	28,353	177
1988-1989	661,605,931	37,505,200	4,172	29,835	174
1989-1990	727,501,992	50,569,700	4,605	32,252	175
1990-1991	863,592,130	50,464,700	5,016	34,448	175
1991-1992	914,792,363	100,194,691	5,246	35,684	177
1992-1993	978,441,540	52,250,890	5,533	35,684	176
1993-1994	1,040,108,578	81,995,840	5,740	35,844	176
1994-1995	1,058,601,305	64,152,364	5,794	35,532	176

1/ Based on average daily membership.

2/ One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, records.

**Table 3.16-- SCHOLASTIC ASSESSMENT TEST SCORE AVERAGES:
1997 AND 1998**

[Recalibrated averages, not directly comparable to earlier data reported in *Data Book 1995*, table 3.17. Formerly known as the Scholastic Aptitude Test]

Component	Hawaii seniors		U.S. averages	
	1997	1998	1997	1998
Mathematical	512	513	511	512
Verbal	483	483	505	505

Source: *Honolulu Star Bulletin*, September 1, 1998.

**Table 3.17-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC
SCHOOL GRADES 3, 6, 8, AND 10: 1997 AND 1998**

[Percent of students taking test]

Subject and level	Norm	Grade 3		Grade 6		Grade 8		Grade 10	
		1997	1998	1997	1998	1997	1998	1997	1998
Reading:									
Below average	23	36.8	33.9	23.2	23.2	34.9	35.1	30.6	31.6
Average	54	52.7	55.2	57.6	57.6	48.8	48.8	49.8	49.0
Above average	23	10.4	10.9	19.3	19.2	16.3	16.1	19.6	19.4
Math:									
Below average	23	26.0	24.1	20.0	20.9	33.3	32.1	30.2	30.8
Average	54	50.9	50.8	54.2	53.1	46.1	47.3	50.4	50.3
Above average	23	23.1	25.1	25.9	26.0	20.6	20.6	19.4	18.9

Source: *Honolulu Star-Bulletin*, November 25, 1998, p. A-1, Hawaii State Department of Education, Internet website, <http://lilinode.k12.hi.us/public/stats>.

**Table 3.18-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS:
FALL 1988 TO 1998**

[Fall headcount enrollment of regular students]

Year	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 2/	Univ. of Hawaii- West Oahu	
		Total	Classified		Unclassi- fied 1/			
			Under- graduates	Gradu- ates				
1988	42,525	18,424	12,121	4,382	1,921	1,769	492	
1989	43,644	18,546	12,021	4,601	1,924	1,927	601	
1990	45,742	18,810	12,073	4,809	1,928	2,553	652	
1991	47,527	19,316	12,530	5,005	1,781	2,670	667	
1992	49,412	19,810	12,838	5,207	1,765	2,790	692	
1993	50,229	20,037	12,991	5,343	1,703	2,953	676	
1994	51,380	19,983	12,903	5,518	1,562	2,870	744	
1995	49,895	19,757	13,050	5,220	1,457	2,737	716	
1996	47,075	18,232	12,216	4,789	1,227	2,723	648	
1997	45,551	17,365	11,782	4,514	1,069	2,639	648	
1998	45,337	17,013	11,500	4,508	1,005	2,730	685	
		Community Colleges 3/						
Year	Total	Honolulu	Kapiolani	Leeward	Windward	Hawaii	Kauai	Maui
1988	21,840	4,292	5,467	5,439	1,555	1,861	1,231	1,995
1989	22,570	4,193	5,717	5,646	1,604	2,037	1,299	2,074
1990	23,727	4,379	6,275	5,805	1,622	1,896	1,413	2,337
1991	24,874	4,462	6,526	6,343	1,611	1,847	1,496	2,589
1992	26,120	4,767	7,116	6,098	1,782	2,106	1,563	2,688
1993	26,563	4,740	7,356	6,449	1,635	2,348	1,457	2,578
1994	27,783	4,817	7,639	6,486	1,763	2,762	1,507	2,809
1995	26,685	4,429	7,283	6,330	1,671	2,780	1,452	2,740
1996	25,472	4,062	7,319	5,987	1,517	2,416	1,356	2,815
1997	24,899	3,970	7,189	5,936	1,513	2,221	1,283	2,787
1998	24,909	4,124	7,236	5,765	1,491	2,308	1,136	2,849

1/ Unclassified at UH Manoa; also includes "no data on educational level."

2/ Excludes Hawaii Community College, which until Fall 1991 was organizationally part of UH Hilo.

3/ Data for all years include Hawaii Community College, which until Fall 1991 was organizationally part of UH Hilo.

Source: University of Hawaii, Institutional Research Office, records.

**Table 3.19-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY
THE UNIVERSITY OF HAWAII: 1988 TO 1998**

Year ended June 30	University of Hawaii at Manoa					
	Asso- ciate's	Bache- lor's	Master's	Doc- torate	First profes- sional 1/	Other 2/
1988	54	2,521	830	111	126	259
1989	92	2,404	833	162	119	224
1990	87	2,431	804	114	113	235
1991	78	2,362	835	143	118	217
1992	41	2,410	932	140	116	211
1993	-	2,527	1,088	147	115	250
1994	-	2,537	1,018	166	133	314
1995	-	2,603	1,070	155	121	331
1996	-	2,782	1,053	186	122	285
1997	-	2,659	1,168	175	129	164
1998	-	2,528	932	161	128	81

Year ended June 30	University of Hawaii at Hilo 3/		Univ. of Hawaii- West Oahu: Bachelor's	Community Colleges 3/		
	Certifi- cates 4/	Bachelor's degree		Certifi- cates 5/	Asso- ciate's degree	No data
1988	-	208	108	393	1,937	15
1989	30	154	116	247	1,805	21
1990	29	203	126	274	1,919	20
1991	44	210	149	285	1,950	-
1992	47	222	135	260	2,063	42
1993	62	280	190	316	2,135	22
1994	64	311	161	347	2,022	17
1995	73	367	186	516	2,107	1
1996	82	414	199	422	2,201	-
1997	45	421	199	372	2,304	-
1998	46	411	205	405	2,104	-

1/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

2/ Certificates in Dental Hygiene and professional diplomas.

3/ Due to Hawaii CC's organizational transfer from the UH Hilo unit to the community college unit in Fall 1991, the community college figures have been retroactively adjusted to include Hawaii CC and the UH Hilo figures adjusted to exclude Hawaii CC.

4/ Professional Certificates in Education.

5/ Certificates of Achievement.

Source: University of Hawaii, Institutional Research Office, records.

**Table 3.20-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES,
AND FACULTY AND STAFF: 1996 TO 1998**

Subject	1996	1997 2/	1998
Curricula offered at Manoa Campus, Fall 1/	277	280	282
Bachelor's degree programs	88	88	90
Master's degree programs	87	87	87
Doctoral programs (DrPH, EdD, PhD)	53	55	56
Other programs 1/	49	50	49
Tuition per semester (full-time undergraduate, regular session) (dollars):			
Manoa Campus: Resident	1,152	1,416	1,464
Nonresident	3,876	4,656	4,704
Hilo (upper division): Resident	888	1,068	1,104
Nonresident	3,204	3,852	3,888
West Oahu: Resident	696	876	912
Nonresident	2,868	3,444	3,480
Community colleges: Resident	384	468	492
Nonresident	2,556	2,856	2,880
Finances, fiscal year ending June 30:			
Current fund revenues (\$1,000)	572,750	575,003	621,334
Current fund expenditures (\$1,000)	639,867	648,926	688,945
Faculty and staff, October	7,772	7,816	7,830
Board of Regents appointees	6,052	6,132	6,156
Full-time	4,078	4,120	4,111
Part-time	1,974	2,012	2,045
Civil Service personnel	1,720	1,684	1,674
Full-time	1,667	1,641	1,625
Part-time	53	43	49

1/ Includes 2-year, undergraduate, and graduate certificate programs; first professional degree programs (JD, MD); and other programs.

2/ 1997 data have been revised from previous year databook table.

Source: University of Hawaii, Institutional Research Office, records.

Table 3.21-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1993 TO 1998

[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
1993, total	11,790	10,517	1,273	486	1,205	274
Brigham Young	1,980	1,980	-	72	269	-
Chaminade	2,284	1,923	361	95	167	99
Hawaii Pacific	7,526	6,614	912	319	769	175
1994, total	12,435	11,108	1,327	490	1,305	335
Brigham Young	2,096	2,096	-	50	280	-
Chaminade	2,429	2,037	392	147	186	129
Hawaii Pacific	7,910	6,975	935	293	839	206
1995, total	12,672	11,104	1,568	476	1,303	425
Brigham Young	2,241	2,241	-	39	253	-
Chaminade	2,395	1,889	506	178	200	147
Hawaii Pacific	8,036	6,974	1,062	259	850	278
1996, total	13,209	11,577	1,632	374	1,292	468
Brigham Young	2,396	2,396	-	31	233	-
Chaminade	2,543	2,023	520	169	193	167
Hawaii Pacific	8,270	7,158	1,112	174	866	301
1997, total 4/	13,296	11,710	1,586	356	1,362	474
Brigham Young	2,294	2,294	-	29	212	-
Chaminade	2,612	2,130	482	168	231	137
Hawaii Pacific	8,390	7,286	1,104	159	919	337
1998, total	13,496	11,764	1,732	436	1,518	491
Brigham Young	2,301	2,301	-	28	267	-
Chaminade	2,690	2,034	656	173	236	145
Hawaii Pacific	8,505	7,429	1,076	235	1,015	346

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.

4/ 1997 figures have been revised from previous year databook table.

Source: Compiled by Hawaii State Department of Business, Economic Development & Tourism from college officials.

Table 3.22-- RESIDENCE AND MIGRATION OF FRESHMEN STUDENTS IN INSTITUTIONS OF HIGHER EDUCATION AND FRESHMEN STUDENTS GRADUATING FROM HIGH SCHOOL IN THE PAST 12 MONTHS: FALL 1996

Category	New undergraduate students 1/	Freshmen students 2/	
		Total	In 4-year colleges
Students enrolled in State 3/	9,519	6,062	3,037
Students residents of State 4/	9,936	7,020	3,929
Students remaining in State 5/	7,611	4,951	1,978
Migration of students:			
Out of State	2,325	2,069	1,951
Into State	1,908	1,111	1,059
Net migration	-417	-958	-892

1/ Students who are enrolled at the reporting institution for the first time at the undergraduate level.

2/ Freshman students, graduating from high school in the past 12 months, 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, *Digest of Education Statistics 1998*, pp. 225-227.

**Table 3.23-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY
SYSTEM: 1993 TO 1998**

Subject	1993	1994	1995	1996	1997	1998
Library locations, June 30	49	49	49	49	49	49
Oahu	23	23	23	23	23	23
Other islands	26	26	26	26	26	26
Personnel, June 30 1/	623.55	614.05	514.05	512.05	512.05	512.05
Librarians	179.00	179.00	159.00	159.00	159.00	159.00
All others	444.55	435.05	355.05	353.05	353.05	353.05
Hours open 2/	58	55	53	53	53	53
Collections, June 30 (1,000)	3,114	3,364	3,644	3,662	3,197	3,201
Circulation, year ended June 30 (1,000)	6,992	7,259	7,499	7,407	7,602	7,781

1/ Full-time equivalent basis, but including permanent and temporary State general-funded positions and temporary Federal funded positions, and excluding student help.

2/ Regular weekly totals for Hawaii State Library, Honolulu.

Source: Hawaii State Public Library System, Management Information Branch, records.

**Table 3.24-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM
BY DISTRICTS: 1998**

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30	
Total system	49	512.05	7,781,129	
Oahu	23	287.50	5,318,464	
Hawaii State Library	1	81.00	717,539	
East Oahu Library District	12	109.00	2,593,643	
West Oahu Library District	9	82.00	1,968,961	
Library for the Blind and Physically Handicapped	1	15.50	38,321	
Other islands	26	127.55	2,462,665	
Hawaii Library District	13	58.55	1,221,802	
Kauai Library District	5	28.00	493,891	
Maui Library District 2/ Administration/Centralized Processing Center	8 ...	41.00 97.00	746,972 ...	
	Collections, June 30			
District	Books, video tapes & sound recordings	Periodical subscriptions	Video tapes	Sound recordings 3/
Total system	3,196,562	4,409	(NA)	(NA)
Oahu	2,179,541	2,397	(NA)	(NA)
Hawaii State Library	546,247	1,236	(NA)	(NA)
East Oahu Library District	882,689	546	(NA)	(NA)
West Oahu Library District	630,252	449	(NA)	(NA)
Other islands	1,017,021	2,012	(NA)	(NA)
Hawaii Library District	457,106	854	(NA)	(NA)
Kauai Library District	222,600	383	(NA)	(NA)
Maui Library District 2/ Library for the Blind and Physically Handicapped 4/	337,315 120,353	775 166	(NA) 152	(NA) (NA)

NA Not available

1/ Full-time equivalent basis, but including permanent and temporary State general-funded positions and temporary Federal funded positions but excluding student help.

2/ Includes libraries on Lanai (1 location), Maui (6 locations), and Molokai (1 location).

3/ Includes phonotapes and CDs.

4/ Includes print, braille, and recorded media.

Source: Hawaii State Public Library System, Management Information Branch, records.

Table 3.25-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1997 AND 1998

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1997	1998	1997	1998
All campuses	3,520,510	3,597,854	793,445	725,317
University of Hawaii at Manoa 1/	2,925,821	2,991,974	609,231	537,331
University of Hawaii-West Oahu	26,645	26,708	4,907	5,585
University of Hawaii at Hilo 2/ 3/	253,465	252,187	68,835	66,006
Community colleges, total 2/	314,579	326,985	110,472	116,395
Honolulu	54,815	55,012	8,815	8,376
Kapiolani	66,959	67,133	27,506	28,252
Leeward	63,259	64,687	16,433	19,811
Windward	36,706	46,417	12,844	12,391
Kauai	47,032	48,095	9,170	9,990
Maui	45,808	45,641	35,704	37,575

1/ Volumes total includes Government Documents Collection. Circulation total includes media use at Wong Audiovisual Center.

2/ Hawaii Community College and UHH West Hawaii campus are included with the University of Hawaii at Hilo.

3/ UH Hilo bound volumes also include Government Documents.

Source: University of Hawaii at Manoa, University Libraries, records.

Section 4

LAW ENFORCEMENT, COURTS, AND PRISONS

Statistics in this section refer to victimization rates, crimes known to the police, stolen property, arrests, police personnel, attorneys, the judiciary system, prisons, and youth 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 semi-annual 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: 1998*, Section 5.

Table 4.01-- CRIME VICTIMIZATION, BY TYPE OF OFFENSE, AGE, SEX, AND BY COUNTIES: 1997

[Based on 879 complete responses to a questionnaire mailed to 1,465 licensed drivers]

County, sex, and age	Percent victimized 1/			Selected offenses	Percent victimized 1/	Percent of crimes reported to police
	Any crime	Property crime	Violent crime			
Total	48.0	45.0	11.6	Robbery	1.2	50.0
				Attempted robbery	1.2	50.0
County:				Assault	1.0	67.7
Honolulu	50.8	48.1	11.7	Threatened assault	5.9	31.1
Hawaii	47.9	41.4	13.7	Rape	0.9	20.0
Maui	41.1	38.4	9.8	Other sexual assault	0.8	0.0
Kauai	28.6	29.2	8.2	Vehicle theft	7.1	91.2
				Theft from vehicle	24.4	50.8
Sex:				Attempted theft from vehicle	14.7	33.3
Male	51.1	48.0	13.0	Burglary	9.1	68.7
Female	45.0	42.1	10.1	Attempted burglary	18.0	77.4
Age (years):						
16 to 18	60.9	52.2	26.1			
19 to 24	64.3	51.8	19.6			
25 to 34	59.1	54.5	19.7			
35 to 44	49.5	47.3	9.9			
45 to 54	53.2	50.6	12.7			
55 to 64	36.3	33.7	8.8			
65 to 74	32.6	32.6	0.0			
75 and over	20.4	20.8	2.0			

1/ One or more times in 1997.

Source: Hawaii State Department of the Attorney General, Crime Prevention & Justice Assistance Division, *Crime and Justice in Hawaii, 1998 Hawaii Household Survey Report* (December 1998).

**Table 4.02-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE
POLICE, BY COUNTIES: 1987 TO 1997**

[Part I offenses include murder, negligent manslaughter, forcible rape, robbery, aggravated assault, burglary, larceny-theft, motor vehicle theft, and arson. Actual offenses include reported or known offenses, less unfounded cases]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1987	63,530	59.5	49,372	4,956	2,555	6,647
1988	65,665	60.8	49,589	5,938	2,548	7,590
1989	69,601	63.6	52,709	6,860	2,781	7,251
1990	67,957	61.1	51,175	7,518	2,605	6,659
1991	68,116	60.2	51,294	7,279	2,385	7,158
1992	71,258	61.9	53,826	6,940	2,502	7,990
1993	73,935	63.5	56,681	6,919	2,355	7,980
1994	79,190	67.3	61,158	7,162	2,383	8,487
1995	85,824	72.5	67,439	7,107	2,657	8,621
1996	78,314	66.0	60,352	6,889	2,987	8,086
1997	71,874	60.3	53,713	7,353	2,855	7,953

1/ Annual rate per 1,000 resident population based on July 1 population estimates by the U.S. Bureau of the Census, as revised through Dec. 31, 1998.

Source: Department of the Attorney General, Crime Prevention and Justice Assistance Division, from police department annual reports and records. Negligent manslaughter statistics revised to exclude traffic cases. The revised manslaughter statistics, the numbers of arsons reported in Honolulu in 1987, and the number of forcible rapes reported in Honolulu in 1989 were compiled from reports to the Uniform Crime Reporting (UCR) Program. Annual rates per 1,000 resident population calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 4.03-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1988 TO 1997

Offense	1988	1989	1990	1991	1992
All Part I offenses	65,665	69,601	67,957	68,116	71,258
Murder	44	53	44	45	42
Manslaughter (negligent) 1/	2	1	2	1	-
Forcible rape 2/	353	353	352	375	440
Robbery	914	908	1,016	986	1,151
Aggravated assault	1,502	1,427	1,605	1,338	1,365
Burglary	13,665	14,879	13,577	14,011	13,006
Larceny - theft	44,859	47,204	46,699	47,195	50,544
Motor vehicle theft	3,927	4,385	4,224	3,814	4,351
Arson 3/	399	391	438	351	359
Offense	1993	1994	1995	1996	1997
All Part I offenses	73,935	79,190	85,824	78,314	71,874
Murder	45	50	56	40	47
Manslaughter (negligent) 1/	1	3	-	-	2
Forcible rape 2/	394	359	336	326	371
Robbery	1,214	1,221	1,553	1,606	1,403
Aggravated assault	1,408	1,461	1,564	1,350	1,478
Burglary	13,310	14,029	13,832	12,781	12,741
Larceny - theft	51,912	55,260	59,907	54,701	48,984
Motor vehicle theft	5,283	6,383	8,199	7,157	6,468
Arson 3/	368	424	377	353	380

1/ Manslaughter offenses due to traffic accidents have been deleted for consistency in statewide reporting. However, arrests in connection with traffic fatalities are included in arrests for negligent manslaughter.

2/ The number of forcible rapes for 1989 has been revised, using updated figures from the Uniform Crime Reporting Program (UCR). (UCR figures for Honolulu offenses during the July-December 1989 period were revised late in 1990 due to the discovery of substantial over-reporting of forcible rapes.)

3/ The 1991 arson count for Honolulu was adjusted to agree with Uniform Crime reports.

Source: Department of the Attorney General, Crime Prevention and Justice Assistance Division, primarily from annual reports of the county police departments unless otherwise indicated. For 1989 and 1990, statistics for Honolulu were compiled from a special report obtained specifically for this publication.

**Table 4.04-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES
CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE:
1987 TO 1997**

Year	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	Part I	Part II, except traffic 2/	Part I	Part II, except traffic 2/	Part I	Part II, except traffic 2/
1987	63,530	107,259	12,245	66,416	19.3	61.9
1988	65,665	113,073	11,846	72,026	18.0	63.7
1989	69,601	120,461	9,592	63,279	13.8	52.5
1990	67,957	119,366	12,534	68,645	18.4	57.5
1991	68,116	116,746	14,253	74,608	20.9	63.9
1992	71,258	120,345	13,270	79,096	18.6	65.7
1993	73,935	115,494	11,274	74,477	15.2	64.5
1994	79,190	118,939	12,183	75,841	15.4	63.8
1995	85,824	121,629	11,660	80,461	13.6	66.2
1996	78,314	115,435	12,335	79,523	15.8	68.9
1997	71,874	117,352	12,692	3/ 85,606	17.7	72.9

1/ Annual data on clearances include prior years' offenses cleared in the current year.

2/ Part II data include "hit and run" cases in Honolulu 1987, 1988 and 1991. All traffic cases excluded for 1989-1990 and 1992-96.

3/ A special effort by the Hawaii County Police Department to close cases which were referred to the Prosecutor dating back to 1984 resulted in a greater number of Part II clearances than would normally be expected.

Source: Data compiled by Department of the Attorney General, Crime Prevention and Justice Assistance Division, from Police Department annual reports and Uniform Crime Reporting Program.

**Table 4.05-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES
CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE,
BY COUNTIES: 1997**

County	Actual offenses known to police		Number cleared by arrest or otherwise		Percent cleared	
	Part I 1/	Part II 2/	Part I 1/	Part II 2/	Part I 1/	Part II 2/
State total	71,874	117,352	12,692	85,606	17.7	72.9
Honolulu	53,713	72,092	8,667	49,377	16.1	68.5
Hawaii	7,353	14,580	2,097	3/ 12,904	28.5	88.5
Kauai	2,855	4,320	449	1,571	15.7	36.4
Maui	7,953	26,360	1,479	21,754	18.6	82.5

1/ Includes arson.

2/ Excludes traffic offenses.

3/ All Part II offenses cleared in 1997, including those closed due to an administrative "house cleaning, " are included in the clearance count.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, from data provided by county police departments.

**Table 4.06-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I
OFFENSES CLEARED BY ARREST OR OTHERWISE,
FOR THE STATE AND OAHU: 1997**

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared	
	State total	Oahu only	State total 2/	Oahu only	State total	Oahu only
All Part I offenses	71,874	53,713	12,692	8,667	17.7	16.1
Murder	47	34	34	23	72.3	67.6
Manslaughter (neg.)	2	1	-	-	0	0
Rape	371	257	214	170	57.7	66.1
Robbery	1,403	1,214	481	389	34.3	32.0
Aggravated assault	1,478	1,131	802	546	54.3	48.3
Burglary	12,741	8,755	1,481	886	11.6	10.1
Larceny	48,984	36,430	8,788	5,997	17.9	16.5
Motor vehicle theft	6,468	5,589	851	628	13.2	11.2
Arson	380	302	41	28	10.8	9.3

1/ Includes offenses committed in prior years.

2/ All category figures (except for murder and arson) were modified due to the Hawaii County Police closing a backlog of cases pending prosecutorial action.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, from data provided by county police departments and *Crime in Hawaii 1997* (August 1998).

**Table 4.07-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES,
BY AGE AND SEX, AND BY COUNTIES: 1997**

Subject	State total	Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	12,625	8,844	1,900	1,365	516
Juveniles	4,291	2,899	681	437	274
Male	2,997	1,988	491	305	213
Female	1,294	911	190	132	61
Adults	8,334	5,945	1,219	928	242
Male	6,148	4,400	861	706	181
Female	2,186	1,545	358	222	61
PART II OFFENSES (EXCEPT TRAFFIC)					
Total	57,435	40,911	7,178	6,326	3,020
Juveniles	12,570	9,691	1,378	817	684
Male	7,237	5,569	762	493	413
Female	5,333	4,122	616	324	271
Adults	44,865	31,220	5,800	5,509	2,336
Male	36,236	25,430	4,509	4,443	1,854
Female	8,629	5,790	1,291	1,066	482

Source: Department of the Attorney General, Crime Prevention and Justice Assistance Division, from Uniform Crime Reports.

Table 4.08-- CHILD ABUSE AND NEGLECT REPORTS: 1991 TO 1997

[Includes abuse, neglect, abuse and neglect, and sexual abuse reports]

Subject	1991	1992	1993	1994	1995	1996	1997
Reports	4,365	4,568	4,753	5,186	4,984	4,775	5,235
Confirmed	2,318	2,485	2,411	2,334	2,317	2,268	2,531

Source: Hawaii State Department of Human Services, *Child Abuse and Neglect in Hawaii, 1997*, at <http://www.hawaii.gov/dhs/> and Central Registry of Reported Child Abuse and Neglect, records.

Table 4.09-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1987 TO 1997

Year	Locally stolen motor vehicles			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
1987	13,222.5	10,021.0	75.8	32,071.0	3,089.0	9.6
1988	15,956.0	12,312.1	77.2	37,895.0	1,965.8	5.2
1989	11,067.8	7,397.7	76.2	45,311.0	2,310.9	5.1
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

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, data from Uniform Crime Reports and *Crime in Hawaii 1997* (August 1998).

**Table 4.10-- VALUE OF PROPERTY STOLEN AND VALUE OF STOLEN
PROPERTY RECOVERED, BY COUNTIES: 1997**

Subject	State total	Honolulu	Hawaii	Maui	Kauai
Value of property stolen (1,000)	66,424.1	50,774.3	4,478.3	8,989.2	2,182.2
Motor vehicles	15,908.6	11,836.3	862.4	2,855.3	354.6
Other property	50,515.4	38,938.0	3,615.9	6,133.9	1,827.6
Value of stolen property recovered 1/ (\$1,000)	13,603.7	9,804.4	905.5	2,591.4	302.4
Motor vehicles	11,341.6	8,414.1	621.9	2,083.0	222.6
Other property	2,262.1	1,390.3	283.6	508.4	79.8
Percent of value recovered	20.5	19.3	20.2	28.8	13.9
Motor vehicles	71.3	71.1	72.1	73.0	62.8
Other property	4.5	3.6	7.8	8.3	4.4

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, data from Uniform Crime Reports and *Crime in Hawaii 1997* (August 1998).

**Table 4.11-- CRIME RATES FOR THE UNITED STATES AND HAWAII:
1996 AND 1997**

[Offenses known to the police per 100,000 estimated population]

Type of offense	U.S. rate		Hawaii rate		Hawaii rank 1/	
	1996 2/	1997	1996 2/	1997	1996	1997
All index offenses 3/	5,086.6	4,922.7	6,590.4	6,024.9	6	9
Violent crime	636.5	610.8	280.8	278.0	40	41
Property crime	4,450.1	4,311.9	6,309.6	5,746.9	4	6

1/ Out of 50 states and D. C., with highest crime rate ranking 1.

2/ Revised.

3/ Excluding arson and negligent manslaughter.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, records; U.S. Department of Justice, Federal Bureau of Investigation.

**Table 4.12-- AUTHORIZED POLICE PERSONNEL, BY COUNTIES:
DECEMBER 1998**

Year and status	State total	Honolulu	Hawaii	Kauai	Maui
Total	3,759	2,594	545	176	444
Sworn, active	2,792	1,931	386	141	334
Sworn, reserve	134	109	25	-	-
Not sworn	833	554	134	35	110

Source: County police departments, records.

**Table 4.13-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:
1996 TO 1998**

[As of June 30]

Subject	1996	1997	1998
Federal judges and magistrates: 1/			
U.S. Bankruptcy Court	1	1	1
U.S. District Court	7	7	8
State justices and judges: 1/			
Supreme Court	5	5	5
Intermediate Court of Appeals	4	4	4
Circuit Courts 2/	29	29	29
Assigned to Family Court	2	2	2
District Courts 3/	35	35	35
Assigned to Family Court	13	13	13
Land Court	(4/)	(4/)	(4/)
Tax Appeal Court	(4/)	(4/)	(4/)
Attorneys licensed in Hawaii 5/	5,717	5,892	6,102
Active	4,063	4,132	4,249
Inactive	1,634	1,760	1,853

1/ Authorized full-time positions.

2/ Includes two judges assigned to the Family Court, 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 five locations.

3/ 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 22 locations.

4/ Caseload assigned to Circuit Court judges.

5/ Data for all years include judges. The 1997 data are as of September 17 and the 1998 data are as of November 23.

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, records.

**Table 4.14-- UNITED STATES DISTRICT COURT CASES:
1996 TO 1998**

[Years ended September 30]

Subject	1996	1997	1998
Civil cases:			
Commenced (filings)	1,117	1,840	1,075
Terminated	1,073	1,297	1,108
Pending, end of period 1/	967	1,517	1,484
Criminal cases:			
Commenced (filings)	1,146	1,292	718
Terminated	915	1,032	723
Pending, end of period 2/	635	971	966
Bankruptcy:			
Commenced (filings), total	2,758	4,161	5,522
Business	(NA)	189	127
Nonbusiness	(NA)	3,972	5,395
Terminated	2,294	3,602	4,716
Pending, end of period	1,800	2,359	3,165

NA Not available.

1/ Excludes asbestos cases transferred to the Pennsylvania Eastern District Court under Order 875 of the Judicial Panel on Multidistrict Litigation.

2/ Includes some cases in which all defendants have been fugitives since before April 1, 1996.

Source: Administrative Office of the United States Courts, *Judicial Business of the United States Courts 1997 and 1998* at <http://www.uscourts.gov/publications.html>.

**Table 4.15-- UNITED STATES BANKRUPTCY COURT CASES FILED
UNDER CHAPTER 7 AND CHAPTER 13 OF THE BANKRUPTCY
CODE: 1988 TO 1998**

[Cases filed in 1998 which were on the caseload as of 3/22/99 were included in the table. of a case is based upon chapter designation as of 3/22/99. Therefore, the chapter under which a case is placed in this table may differ from the chapter under which it was originally filed. Data prior to 1998 were not updated]

Year	Chapter 7 1/			Chapter 13 2/		
	Total	Business	Personal	Total	Business	Personal
1988	770	97	673	58	2	56
1989	780	100	680	75	3	72
1990	781	59	722	68	-	68
1991	1,004	52	952	56	-	56
1992	1,292	100	1,192	64	2	62
1993	1,389	155	1,234	71	7	64
1994	1,470	113	1,357	77	6	71
1995	1,909	135	1,774	100	6	94
1996	2,823	141	2,682	237	11	226
1997	4,012	131	3,881	402	17	385
1998	5,236	79	5,157	517	5	512

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 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).

Source: United States Bankruptcy Court of the District of Hawaii, records.

**Table 4.16-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1996 TO 1998**

[Years ended June 30]

Court and type of action	1996	1997	1998
Supreme Court 1/	2,903	3,135	4,012
Primary cases	715	695	713
Appeals	650	616	646
Original proceedings	65	79	67
Supplemental proceedings	2,188	2,440	3,299
Intermediate Court of Appeals 2/	217	311	350
Primary cases	128	123	148
Appeals	128	123	148
Supplemental proceedings	89	188	202
Circuit Courts Proper	15,630	16,185	16,913
Primary proceedings	15,630	16,185	16,913
Civil actions	7,390	7,642	8,021
Probate proceedings	1,287	1,344	1,408
Guardianship proceedings	526	643	622
Miscellaneous proceedings	1,953	1,595	1,645
Criminal actions	4,474	4,961	5,217
Part I offenses	1,871	1,962	2,014
Part II offenses	2,603	2,999	3,203
Family Courts	57,553	48,465	47,419
Primary proceedings and referrals	45,180	35,913	34,219
Marital actions and proceedings	6,163	5,915	6,261
Uniform reciprocal enforcement of support	628	586	364
Adoption proceedings	508	641	750
Parental proceedings	2,616	2,636	2,766
Domestic Abuse Protective Orders (Ch. 586)	2,553	2,859	3,275
Miscellaneous proceedings	2,596	2,457	2,247
Criminal actions	4,841	4,815	4,337
Adults' referrals	8,725	(3/)	(3/)
Children's referrals	16,550	16,004	14,219
Supplemental proceedings	12,373	12,552	13,200

Footnote and source on next page.

**Table 4.16-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1996 TO 1998 -- Con.**

Court and type of action	1996	1997	1998
District Court	552,378	566,282	574,172
Civil	24,583	25,111	27,645
Regular civil	19,053	19,538	21,586
Small claims	5,530	5,573	6,059
Traffic	475,159	490,282	491,113
Moving - arrest and citation	98,268	125,336	137,236
Non-moving	84,352	102,098	109,697
Parking	292,539	262,848	244,180
Other violations	4,889	4,507	5,532
Criminal actions	47,747	46,382	49,882
Part I offenses	6,560	6,621	7,780
Part II offenses	41,187	39,761	42,102

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 163 in 1996, 127 in 1997, and 153 in 1998.

2/ Data exclude cases transferred back to the Supreme Court: 35 in 1996, 9 in 1997, and 6 in 1998.

3/ Adult's referrals are no longer being reported.

Source: The Judiciary, State of Hawaii, annual reports.

**Table 4.17-- STATE JUDICIARY CASES TERMINATED, BY TYPE OF ACTION:
1996 TO 1998**

[Years ended June 30]

Court and type of action	1996	1997	1998
Supreme Court 1/	2,825	3,254	4,131
Primary cases	644	822	856
Appeals	572	752	792
Original proceedings	72	70	64
Supplemental proceedings	2,181	2,432	3,275
Intermediate Court of Appeals 2/	246	579	509
Primary cases	152	402	315
Appeals	152	402	315
Supplemental proceedings	94	177	194
Circuit Courts Proper	18,991	12,399	17,433
Primary proceedings	18,991	12,399	17,433
Civil actions	9,284	5,498	8,226
Probate proceedings	1,831	1,155	1,007
Guardianship proceedings	500	308	337
Miscellaneous proceedings	2,939	1,199	2,730
Criminal actions	4,437	4,239	5,133
Part I offenses	1,671	1,748	1,886
Part II offenses	2,766	2,491	3,247
Family Courts	63,257	53,330	52,790
Primary proceedings and referrals	51,618	40,696	39,514
Marital actions and proceedings	6,965	6,112	8,697
Uniform reciprocal enforcement of support	921	765	452
Adoption proceedings	527	766	731
Parental proceedings	3,056	2,830	2,853
Domestic Abuse Protective Orders (Ch. 586)	2,531	2,760	3,202
Miscellaneous proceedings	2,533	3,522	3,129
Criminal actions	6,368	6,617	5,472
Adults' referrals	7,581	(3/)	(3/)
Children's referrals	21,136	17,324	14,978
Supplemental proceedings	11,639	12,634	13,276

Footnote and source on next page.

**Table 4.17-- STATE JUDICIARY CASES TERMINATED, BY TYPE OF ACTION:
1996 TO 1998 -- Con.**

Court and type of action	1996	1997	1998
District Court	497,163	494,027	515,675
Civil	22,347	21,359	23,274
Regular civil	17,127	16,213	17,697
Small claims	5,220	5,146	5,577
Traffic	427,932	430,906	440,551
Moving - arrest and citation	89,874	106,334	119,875
Non-moving	75,673	82,479	91,916
Parking	262,385	242,093	228,760
Other violations	4,677	3,542	4,533
Criminal actions	42,207	38,220	47,317
Part I offenses	6,093	6,258	8,252
Part II offenses	36,114	31,962	39,065

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 163 in 1996, 127 in 1997, and 153 in 1998.

2/ Data exclude cases transferred back to the Supreme Court: 35 in 1996, 9 in 1997, and 6 in 1998.

3/ Adult's referrals are no longer being reported.

Source: The Judiciary, State of Hawaii, annual reports.

**Table 4.18-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:
ANNUAL AVERAGES, 1988 TO 1998**

[Mean head count for fiscal years ended June 30]

Year	Total 1/	Adult facilities 1/				Juvenile facilities 2/	
		Sentenced felons	Sentenced jail 3/	Not sentenced	Technical violators 4/	Boys	Girls
1988	2,194	1,414	219	484	...	63	14
1989	2,193	1,428	206	494	...	56	9
1990	2,382	1,482	212	629	...	53	6
1991	2,430	1,462	239	667	...	52	10
1992	2,600	1,434	274	597	233	55	7
1993	5/ 2,824	1,480	294	647	297	58	6
1994	2,881	1,534	285	705	286	64	7
1995	3,039	1,537	246	805	368	67	16
1996	6/ 3,070	6/ 1,488	243	853	436	7/ 44	7/ 6
1997	8/ 3,450	8/ 1,557	343	994	498	50	8
1998	8/ 4,157	8/ 1,662	432	1,348	644	61	10

1/ Includes eight facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers; Kulani Correctional Facility, Halawa Correctional Facility, Women's Community Correctional Center, and Waiawa Correctional Facility.

2/ Hawaii Youth Correctional Facility.

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/ Includes "other jurisdiction" population (42).

6/ Excludes 277 sentenced felons incarcerated in two Texas correctional facilities.

7/ On September 5, 1995, a new secure facility with a ceiling of 30 beds was first occupied. Also, more use is being made of residential programs in the community.

8/ Excludes 600 sentenced felons incarcerated in three Texas correctional facilities.

Source: Hawaii State Department of Public Safety, records; Hawaii State Department of Human Services, Office of Youth Services/Hawaii Youth Correctional Facility, records.

Table 4.19-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED FELON POPULATION: 1988 TO 1998

[Years ended June 30. 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 sentences (months)		
	At admission	Currently as of June 30	Felons admitted		Felons released: time served
			Minimum	Maximum	
1988	29.0	29.0	46.9	115.9	2/ 39.4
1989	30.1	28.7	43.9	132.6	2/ 43.9
1990	30.2	30.7	45.1	122.6	2/ 42.8
1991	32.1	33.6	44.6	140.5	36.1
1992	31.9	34.6	41.6	128.5	37.8
1993	32.3	34.1	40.2	119.5	34.3
1994	31.4	34.0	45.2	129.3	33.7
1995	32.3	34.4	46.1	110.0	38.8
1996	33.4	33.9	39.5	105.0	34.0
1997	33.3	34.3	51.2	3/ 106.0	38.9
1998	33.5	34.9	45.2	3/ 105.2	36.7

1/ For sentenced felon population on June 30.

2/ Average time served did not include sentenced felons with unknown offenses.

3/ Average based on statutory maximum sentences for each offense grade.

Source: Hawaii State Department of Public Safety, Correctional Information System (CIS); Hawaii Paroling Authority, annual reports.

**Table 4.20-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:
1995 TO 1998**

[Years ended June 30]

Item	1995	1996	1997	1998
Number of parolees, June 30 1/	1,694	1,769	1,804	1,878
Parolees in Hawaii	1,172	1,249	1,376	1,261
Parolees outside Hawaii 2/	298	219	251	292
In institution	53	45	54	70
Whereabouts unknown (cumulative)	236	244	123	255
Administrative cases	63	12	-	-
Minimum imprisonment terms fixed	1,993	2,159	2,558	2,876
Number of persons for whom minimum terms fixed	663	695	852	864
Number of parole consideration hearings	(NA)	2,082	1,931	1,426
Persons considered for parole	1,239	1,135	1,356	1,094
Paroles tentatively granted	712	622	713	721
Paroles denied/deferred/continued	527	1,460	1,207	705
Parole violation hearings	501	446	482	439
Parole revocations	427	316	376	359
Continued on parole/deferred	74	130	106	80
Pardon investigations	35	32	24	55
Persons recommended for pardon	(NA)	11	21	27
Persons pardoned	13	(NA)	(NA)	(NA)
Discharges from parole	244	272	287	277
Full parole term before discharge	165	153	179	185
Early discharge approved	74	110	101	80
Deceased	5	9	7	12

NA Not available.

1/ In addition, provided courtesy supervision to 36 interstate cases as of June 30, 1998.

2/ Includes Hawaii cases on reciprocal parole supervision on U.S. Mainland as well as Hawaii cases who are on the U.S. Mainland or Foreign countries receiving some or no supervision but not suspended or absconded. Also includes cases in protective custody. In 1994 and 1995, Hawaii cases on reciprocal parole supervision on the U.S. Mainland were not counted in the number of parolees on June 30 and so for the aforementioned years, the subcategories do not sum to the total.

Source: Hawaii State Department of Public Safety, Hawaii Paroling Authority, annual reports.

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 Institute of Geophysics. 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: 1998*, Section 6.

Table 5.01-- GREAT CIRCLE DISTANCES 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 DISTANCES BETWEEN SPECIFIED PLACES -- Con.

Places	Statute miles	Nautical miles	Kilometers
DISTANCES FROM HONOLULU INT. 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. Department of the Interior, Geological Survey, *Elevations and Distances in the United States* (1980), pp. 22-23, and records; E. H. Bryan, Jr., *American Polynesia and the Hawaiian Chain* (1942), pp. 38, 42, and 134.

Table 5.02-- LATITUDES AND LONGITUDES 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:		
Airport	20°48'	156°57'
Molokai:		
Kaunakakai	21°05'	157°02'
Laaupoint	21°06'	157°19'
Cape Halawa	21°10'	156°43'
Oahu:		
Honolulu: 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 (Kauai 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; Hawaii State Department of Accounting and General Services, Survey Division, records.

**Table 5.03-- TIME DIFFERENTIALS BETWEEN HONOLULU AND
SELECTED CITIES**

City	June		December	
	Day	Hour	Day	Hour
Honolulu	Same	12:00 noon	Same	12:00 noon
Los Angeles	Same	3:00 p.m.	Same	2:00 p.m.
Denver	Same	4:00 p.m.	Same	3:00 p.m.
Houston	Same	5:00 p.m.	Same	4:00 p.m.
Chicago	Same	5:00 p.m.	Same	4:00 p.m.
Atlanta	Same	6:00 p.m.	Same	5:00 p.m.
Washington	Same	6:00 p.m.	Same	5:00 p.m.
New York	Same	6:00 p.m.	Same	5:00 p.m.
London	Same	11:00 p.m.	Same	10:00 p.m.
Singapore	Next	6:00 a.m.	Next	6:00 a.m.
Hong Kong	Next	6:00 a.m.	Next	6:00 a.m.
Manila	Next	6:00 a.m.	Next	6:00 a.m.
Tokyo	Next	7:00 a.m.	Next	7:00 a.m.
Sydney	Next	8:00 a.m.	Next	9:00 a.m.

Source: GTE Hawaiian Tel, The White Pages, *Oahu, June 1999-2000*, pp. 38, 41.

Table 5.04-- WIDTHS AND DEPTHS 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;
- 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 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
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
Niihoa	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/ 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.

3/ 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.

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-- 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	2,147,985

Source: Marine Surveys and Maps, National Ocean Survey, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, information supplied September 15, 1978.

Table 5.07-- LAND AND WATER AREA OF COUNTIES: 1990

[See maps on pages 6 and 7]

Measurement unit and type of area	State total	Hawaii	Maui	Kalawao	Honolulu	Kauai
Square miles:						
Land	6,423.4	4,028.2	1,159.3	13.2	600.2	622.5
Inland water 1/	35.9	4.4	3.6	-	19.0	8.9
Territorial water 2/	4,472.4	1,054.3	1,236.0	39.1	1,507.8	635.1
Square kilometers:						
Land	16,636.5	10,433.1	3,002.5	34.2	1,554.5	1,612.2
Inland water 1/	92.9	11.5	9.3	-	49.2	22.9
Territorial water 2/	11,583.4	2,730.7	3,201.2	101.3	3,905.2	1,644.9
Acres:						
Land	4,110,966	2,578,073	741,933	8,451	384,125	398,383
Inland water 1/	22,976	2,816	-	2,304	12,160	5,696
Territorial water 2/	2,862,336	674,752	791,040	25,024	964,992	406,464

1/ Lakes, streams, reservoirs, etc. Includes Pearl Harbor.

2/ Within three miles of coast.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 15, and unpublished records.

Table 5.08-- LAND AREA OF ISLANDS: 1990

Island	Square miles 1/	Square kilometers	Acres 1/
STATE OF HAWAII	6,423.4	16,636.5	4,110,966
Hawaii	4,028.2	10,433.1	2,578,073
Maui	727.3	1,883.7	465,472
Molokini	0.036	0.093	23
Kahoolawe	44.6	115.5	28,543
Lanai	140.5	364.0	89,946
Molokai	260.0	673.5	166,425
Oahu	597.1	1,546.5	382,148
Kauai	552.3	1,430.5	353,484
Niihau	69.5	179.9	44,455
Lehua	0.444	1.149	284
Kaula	0.247	0.640	158
Northwestern Hawaiian Islands 2/	3.108	8.049	1,989
Nihoa	0.271	0.701	173
Necker Island	0.071	0.183	45
French Frigate Shoals	0.096	0.249	62
Gardner Pinnacles	0.009	0.024	6
Maro Reef	Awash	Awash	Awash
Laysan Island	1.588	4.114	1,017
Lisianski Island	0.601	1.556	384
Pearl and Hermes Atoll	0.139	0.359	89
Kure Atoll	0.333	0.863	213
OTHER ISLANDS 3/			
Baker, Howland, and Jarvis Islands	2.9	7.5	1,853
Johnston Atoll	1.1	2.8	692
Kingman Reef	0.4	1.0	247
Midway Islands	2.5	6.4	1,581
Palmyra Atoll	4.6	11.9	2,941

1/ Areas in square miles and acres were calculated directly from measurements in .001 square kilometers and independently rounded. 1 square mile = 640 acres = 2.58999 square kilometers.

2/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii.

3/ In central Pacific, not legally part of the State of Hawaii.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 15; *Population and Housing Unit Counts, United States*, 1990 CPH-2-1 (October 1993), table 1; Summary Tape File 1B; and letter from Geography Division, March 30, 1992.

**Table 5.09-- 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 5.10-- 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 5.11-- ELEVATIONS 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

Continued on next page.

Table 5.11-- ELEVATIONS 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); U.S.S. Tanager survey, 1923 (for Necker Island, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes Atoll and Kure Atoll.)

Table 5.12-- MAJOR NAMED WATERFALLS, BY ISLANDS

Island	Waterfall	Height (feet)		Horizontal distance (feet)
		Sheer drop	Cascade	
Hawaii	Kaluahine	...	620	400
	Akaka	442	...	...
	Waiilikahi	320	...	6
Maui	Honokohau	...	1,120	500
	Waihiumalu	...	400	150
Molokai	Kahiwa	...	1,750	1,000
	Papalaua	...	1,200	500
	Waialele	...	500	150
Oahu	Kaliuwaa (Sacred)	1/ 80	1,520	3,000
Kauai	Waipoo (2 falls)	...	800	600
	Awini	...	480	500
	Hinalele	280	...	...
	Wailua	200	...	...

1/ Refers to 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; "Tall Falls", *The Honolulu Advertiser*, June 25, 1995, pp. A17 and A20.

Table 5.13-- MAJOR STREAMS, BY ISLANDS

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	Paliaka Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge 2/ (million gal./day):		
Hawaii	Wailuku River	250
Maui	Iao Stream	43
Molokai	Wailau Stream	30
Oahu	Waikele Stream	3/ 27
Kauai	Hanalei River	140

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 recent available year.

3/ Most of discharge is from nearby groundwater outflow.

Source: Longest water feature from U.S. Geological Survey, records; other data from Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records.

Table 5.14-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS

Island and lake	Type	Elevation (feet)	Area 1/ (acres)	Maximum depth (feet)
Hawaii:				
Green Lake	Lake	3	2	20
Lake Waiiau 2/	Lake	13,020	2	10
Waiakea Pond	Tidal pond	(SL)	27	7
Maui:				
Kanaha Pond	Marsh	(SL)	41	3
Kealia Pond	Marsh	(SL)	500	(NA)
Waieleele	Pond	6,690	0.5	21
Molokai:				
Kauhako	Pool	(SL)	0.9	814
Kualapuu Reservoir	Reservoir	821	100	50
Meyer Lake	Impoundment	2,021	6-10	5
Oahu:				
Ho'omaluhia	Reservoir	202	90	90
Kaelepuu Pond	Lake	(SL)	198	(NA)
Kawainui Marsh	Marsh	(SL)	1,000	(NA)
Wahiawa Reservoir	Reservoir	842	302	85
Kauai:				
Nomilu Fishpond	Pond	(SL)	20	66
Waita Reservoir	Reservoir	241	424	23
Niihau:				
Halalii Lake	Playa	(SL)	841-865	(NA)
Halulu Lake	Playa	(SL)	182-371	(NA)
Laysan:				
Laysan Lagoon	Closed lagoon	(SL)	161	16

NA Not available.

SL Sea level.

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.

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); *Data Book 1992*, table 143; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, May 18, 1994.

Table 5.15-- 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 5.16-- 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	...	...	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
	Percent of area with elevation --			Percent of area with slope --	
	Less than 500 feet	2,000 feet or more	Approximate mean altitude (feet)	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

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; U.S. Geological Survey, *Elevations and Distances in the United States* (1978), pp. 4-5.

Table 5.17-- VOLCANIC ERUPTIONS: 1969 TO 1998

[Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active in recent years and included in this table. Complete through December 31, 1998]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Elevation (meters)	Area (square km.)	Volume (mil. cubic meters)
Mauna Loa:						
1975: July 5	301	<1	S	3,900	13.5	30.0
1984: March 25	104	22	S, ER	4,030-2,870	28.5	176.0
Kilauea:						
1969: Feb. 22	4.0	6	ER	930-870	6.0	16.1
May 24	2.0	874	ER	940	50.0	185.0
1971: Aug. 14	-	<1	C	1,100-1,080	3.1	9.1
Sept. 24	-	5	C, SWR	1,120-820	3.9	7.7
1972: Feb. 3	4.3	900	ER	940	46.0	162.0
1973: May 5	-	<1	ER	1,000-980	0.3	1.2
Nov. 10	-	30	ER	980-870	1.0	2.7
1974: July 19	-	3	C, ER	1,080-980	3.1	6.6
Sept. 19	2.0	<1	C	1,100	1.0	10.2
Dec. 31	3.4	<1	SWR	1,080	7.5	14.3
1975: Nov. 29	11.0	<1	C	1,080-1,060	0.3	0.2
1977: Sept. 13	21.5	18	ER	620-480	7.8	32.9
1979: Nov. 16	26.3	1	ER	980-960	0.3	0.6
1982: April 30	29.5	<1	C	1,080	0.3	0.5
Sept. 25	4.8	<1	C	1,080	0.8	3.0
1983: Jan. 3 2/	3.3	5,841	ER	780-650	99.5	1,622.0

1/ C, caldera; ER, east rift; S, summit; SWR, southwest rift.

2/ Still in progress. There have been 55 separate episodes, they destroyed 181 housing units and added 206 hectares to the area of the island.

Source: Gordon A. Macdonald, Agatin T. Abbott, and Frank L. Peterson, *Volcanoes in the Sea*, 2nd ed. (1983), pp. 64-65 and 80-81; U.S. Geological Survey, Hawaiian Volcano Observatory, records.

Table 5.18-- MAJOR EARTHQUAKES: 1838 TO 1999

[Includes all earthquakes with magnitudes of 6.0 or greater, 1839 to 1983, and 5.0 or greater, 1984 to 1999. Except for the earthquake of April 2, 1868, magnitudes of earthquakes prior to 1929 are conjectural. Complete through July 12, 1999]

Date and time (HST)	Location	Magnitude (Richter scale)
1838: December 12	Hawaii	6.0
1841: April 7	Hawaii	6.0
1852: March 31	Hawaii	6.0
1868: March 28	Hawaii	6.5
April 2	Hawaii	7.5
1871: February 19	Molokai or Maui	6.5
1875: November 23	Hawaii	6.0
1887: January 24	Hawaii	6.0
1913: October 25	Hawaii	6.5
1918: November 1	Hawaii	6.5
1919: September 14	Hawaii	6.5
1929: October 5	Hawaii	6.5
1938: January 23	N. of Pauwela Point, Maui	6.75
1940: June 17	Hawaii	6.0
1941: September 28	Hawaii	6.0
1950: May 30	Hawaii	6.25
1951: April 23	Hawaii	6.5
August 21	Hawaii	6.9
1952: May 23	Hawaii	6.0
1954: March 30	Hawaii	6.0
March 30	Hawaii	6.5
1961: September 25	Hawaii	5.75-6
1962: June 28	Hawaii	6.1
1973: April 26	Honolulu, Hawaii	6.2
1975: Nov. 29, 4:47 AM	Puna, Hawaii	7.2
1983: Nov. 16, 6:13 AM	S.E. flank of Mauna Loa	6.7
1984: June 8, 5:34 PM	80 miles S. of Honolulu	5.3
1986: April 26, 7:19 AM	28 miles N.E. of Maui	5.1
1987: Feb. 3, 4:22 PM	26 miles S. of Kahoolawe	5.0
1989: June 25, 5:27 PM	Kalapana area	6.1
1994: Feb. 1, 12:01 AM	Offshore, 12 miles S. of Kilauea	5.2
1997: June 30, 5:47 AM	5 miles W. of Kalapana	5.2
1999: April 16, 2:56 PM	4 miles N. of Pahala	5.6

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, *A Study of Past Earthquakes, Iseismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii* (University of Hawaii, Center for Engineering Research, Engineering Bulletin, June 15, 1972); information supplied by Wm. Mansfield Adams and Augustine S. Furumoto, Institute of Geophysics, University of Hawaii; Hawaii Institute of Geophysics, records; U.S. Geological Survey, National Earthquake Information Service; U.S. Geological Survey, Hawaiian Volcano Observatory, records. <http://hvo.wr.usgs.gov/earthquakes/felt/currEQ.html>.

**Table 5.19-- EARTHQUAKES WITH HONOLULU INTENSITIES OF
V OR GREATER: 1859 TO 1998**

[Complete through December 31, 1998]

Date	Epicentral location	Magnitude (Richter scale)	Honolulu average intensity (Modified Mercalli Scale 1/)
1861: Dec. 5	Molokai-Lanai vic. (?)	(NA)	Mid V
Dec. 15	Molokai-Lanai vic. (?)	(NA)	Lower V - mid V
1868: Apr. 2	SE coast of Hawaii	7.5	Upper IV - lower V
Apr. 4	Maui group vicinity (?)	(NA)	Lower V
1871: Feb. 19	S coast of Lanai	7.0	Upper VI - lower VII
1895: Dec. 8	Oahu vicinity (?)	(NA)	Mid V
1926: Mar. 19	N of Kohala, Hawaii	(NA)	Upper IV - lower V
1929: Oct. 5	W of Kona, Hawaii	6.5	Lower V
1938: Jan. 22	N of Maui	6.8	Upper V - lower VI
1948: June 28	S coast of Oahu	4.8	Mid VI
1964: Oct. 11	Ka Lae, Hawaii	5.5	Upper IV - lower V
1973: Apr. 26	Hamakua coast, Hawaii	6.2	Mid V
1981: Mar. 5	Kalohi Channel	5.0	Mid V

NA Not available.

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.

Source: Doak C. Cox, "Earthquake Experience in Honolulu", *The Hawaiian Journal of History*, Vol. 21 (1987), pp. 98-109; U.S. Geological Survey, Hawaiian Volcano Observatory, records.

**Table 5.20-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:
1819 TO 1998**

[Complete through December 31, 1998]

Date	Place of observation	Maximum height in Hawaii 1/		Deaths in Hawaii	Damage in Hawaii
		Meters	Feet		
1819: April 12 2/	W. Hawaii	2.0	7	-	Unknown
1837: Nov. 7	Hilo	6.0	20	16	200 houses
1841: May 17	Hilo	4.6	15	-	Unknown
1868: April 2	Ka'u	12.2	40	47	Great locally
Aug. 14	Hilo	4.6	15	-	Severe
1869: Aug. 24	S.E. Puna	9.1	30	-	Some
1877: May 10	Hilo	4.9	16	5	Severe; \$14,000
1878: Jan. 20	N. Oahu	3.0	10	-	Some houses
1896: June 15	Kona	9.1	30	-	Unknown
1906: Jan. 31	Hilo	3.6	12	-	None
Aug. 16	Maalaea	3.6	12	-	Some
1919: April 9	S. Kona	4.3	14	-	None
April 30	Ka'u	4.2	14	-	None
1922: Nov. 11	Hilo	2.1	7	-	Minor
1923: Feb. 4	Hilo	6.1	20	1	Severe; \$1,500,000
1924: May 30	Lanai	5.0	16	-	Great locally
1933: March 2	Kona	2.9	10	-	Some
1946: April 1	N.E. Hawaii	17.0	56	159	\$26,000,000
1952: Nov. 4	Hawaii	6.1	20	-	\$800,000-1,000,000
1957: March 9	Haena	16.0	52	1	\$5,000,000
1960: May 22	Hilo	10.5	34	61	\$23,000,000
1964: March 27	N. Oahu	4.8	16	-	\$67,590
1975: Nov. 29	Ka'u	14.6	48	2	\$1,500,000

1/ Data before 1946 are approximate and probably low in many cases.

2/ Earliest tsunami for which definite information exists. A tsunami observed at Ho'okena in 1813 or 1814 may have exceeded two meters.

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; U.S. Geological Survey, Hawaiian Volcano Observatory, records.

Table 5.21-- MAJOR DAMS: 1994

Name	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre-ft.)
Wahiawa Dam	Wahiawa, Oahu	98	460	7,761
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai	58	7,100	4,265
Alexander Dam	Kalaheo, Kauai	119	600	2,500
Ho'omaluhia Dam	Luluku, Oahu	132	2,200	2,500
Nuuanu No. 4	Honolulu, Oahu	73	1,730	1,420
Waimanalo Dam	Waimanalo, Oahu	62	2,118	182

Source: Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records.

Table 5.22-- FRESH WATER USE, BY TYPE, BY ISLANDS: 1995

[Million gallons per day]

Use	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai	Niihau 1/
Total	981.44	108.52	356.06	3.44	9.33	264.23	239.86	-
Ground water	498.34	104.14	120.18	3.44	4.77	227.85	37.96	-
Domestic	133.06	17.17	19.60	0.52	1.48	86.39	7.90	-
Agricultural	180.49	12.63	88.85	1.95	3.18	52.59	21.29	-
Industrial	25.38	0.33	2.27	0.01	0.01	17.27	5.49	-
Thermoelectric	67.34	67.34	-	-	-	-	-	-
Commercial	92.07	6.67	9.46	0.96	0.10	71.60	3.28	-
Surface water	483.10	4.38	235.88	-	4.56	36.38	201.90	-
Domestic	1.33	1.33	-	-	-	-	-	-
Agricultural	481.30	3.05	235.47	-	4.50	36.38	201.90	-
Industrial	0.05	-	-	-	0.05	-	-	-
Thermoelectric	-	-	-	-	-	-	-	-
Commercial	0.42	-	0.41	-	0.01	-	-	-

1/ 1995 water-use data for Niihau not compiled.

Source: Data compiled by the U.S. Geological Survey and provided by the Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records.

**Table 5.23-- WATER SERVICES AND CONSUMPTION, FOR COUNTY
WATERWORKS: 1996 TO 1998**

[Services as of June 30; consumption for fiscal years]

Geographic area	Number of services			Consumption (million gallons)		
	1996	1997	1998	1996	1997	1998
State total	229,989	2/ 231,260	233,043	75,389	71,810	73,301
City and County of Honolulu	152,184	152,692	153,649	51,343	48,624	49,265
Honolulu District 1/	61,091	61,180	61,205	25,376	24,420	24,587
Rest of Oahu	91,093	91,512	92,444	25,967	24,204	24,678
Hawaii County	33,094	2/ 33,402	33,716	8,363	7,804	8,159
Kauai County	16,793	16,860	16,958	4,206	3,944	4,148
Maui County	27,918	28,306	28,720	11,477	11,438	11,729
Maui	26,409	26,795	27,205	11,138	11,110	11,387
Molokai	1,509	1,511	1,515	339	328	342

1/ Maunalua to Moanalua.

2/ Revised.

Source: Data compiled by Hawaii State Department of Business, Economic Development & Tourism from 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 5.24-- HAZARDOUS WASTE SITES ON THE NATIONAL PRIORITY LIST:
1993 TO 1997**

[Includes both proposed and final sites]

Subject	1993	1994	1995	1996	1997
Number of sites	3	4	4	4	1/ 4
Rank (among the 50 states)	47	46	45	45	45

1/ The national 50-State total was 1,231 sites in 1997.

Source: EPA data cited in *Statistical Abstract of the United States* for 1994 (p. 235), 1995 (p. 237), 1996 (p. 238), 1997 (p. 238), and 1998 (p. 246).

**Table 5.25-- POLLUTION ABATEMENT CAPITAL EXPENDITURES AND
OPERATING COSTS: 1990 TO 1994**

[Millions of dollars. Statistics cover manufacturing establishments with 20 employees or more]

Subject and year	Total, including nonmedia	Media				Nonmedia and other
		Total	Air	Water	Solid/ contained waste	
Capital expenditures:						
1990	(NA)	23.2	12.6	(D)	(D)	(NA)
1991	(NA)	4.0	1.8	(D)	(D)	(NA)
1992	2.8	2.8	.5	2.3	-	(Z)
1993	37.3	37.2	1.8	35.3	-	.2
1994	5.7	4.7	2.6	2.1	(Z)	1.1
Operating costs:						
1990	(NA)	12.0	3.5	(D)	(D)	(NA)
1991	(NA)	15.8	(D)	9.0	(D)	(NA)
1992	16.2	12.8	3.3	4.6	4.9	3.4
1993	15.2	12.3	(D)	4.4	(D)	2.8
1994	21.7	20.3	7.4	8.9	4.1	1.4

D Withheld to avoid disclosing data for individual companies.

Z Less than half the unit shown.

NA Not available.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Pollution Abatement Costs and Expenditures, 1994*, MA200(94)-1, May 1996, table 2.

**Table 5.26-- WATER QUALITY AT PUBLIC BEACHES, BY ISLANDS:
1997 AND 1998**

Island	Number of locations	Number of samples	Enterococci density 1/			
			Lowest 2/	Highest 3/	Number over 7	Mean 4/
1997						
State total	162	2,480	1.0	236.9	28	3.8
Hawaii	46	533	1.0	124.0	6	3.0
Hilo Shoreline	21	244	1.2	124.0	5	4.7
Kona Shoreline	25	289	1.0	7.8	1	2.1
Maui	46	523	1.0	23.1	4	2.5
Lanai	2	4	6.6	28.3	1	13.7
Molokai	-	-	...	...	...	...
Oahu	38	1,091	1.0	236.9	10	5.2
Kauai	30	329	1.0	77.8	7	3.8
1998						
State total	159	2,499	0.6	258.4	30	2.5
Hawaii	45	536	0.6	83.2	9	2.5
Hilo Shoreline	20	239	0.8	83.2	9	4.8
Kona Shoreline	25	297	0.6	3.0	0	1.5
Maui	48	525	0.6	39.6	1	1.7
Lanai	-	-	...	...	...	...
Molokai	-	-	...	...	...	...
Oahu	36	1,081	0.6	258.4	6	2.9
Kauai	30	357	0.6	75.8	5	2.6

1/ Geometric mean, number per 100 ml. The geometric mean standard for Enterococci density is 7 per 100 ml.

2/ The lowest average value in 1998 was reported at multiple beaches on the islands of Hawaii, Kauai, Maui and Oahu. The lowest average value in 1997 was reported at multiple beaches on the islands of Hawaii, Kauai, Maui and Oahu.

3/ The highest average value in 1998 was that reported for the Ala Wai Canal at the McCully Street Bridge on Oahu. The highest average value in 1997 was that reported for the Ala Wai Canal at the Ala Moana Bridge on Oahu.

4/ Not weighted by number of samples.

Source: Hawaii State Department of Health, Clean Water Branch, records.

**Table 5.27-- WATER QUALITY AT SELECTED PUBLIC BEACHES:
1997 AND 1998**

Island and beach	Number of samples		Enterococci density 1/	
	1997	1998	1997	1998
Hawaii:				
Hapuna Beach	13	12	1.5	1.4
Kahaluu Beach	12	12	3.3	2.7
Kealakekua Bay (off curio stand)	11	12	2.1	1.9
Hilo Bay (Mooheau Park)	-	-	-	-
Spencer Beach Park	12	12	5.7	2.5
Maui:				
Kapalua (Fleming) Beach (north)	10	12	2.8	0.9
Kihei (north)	10	12	1.8	2.0
Makena Beach	11	12	1.0	0.8
Seven Pools	10	9	1.1	1.5
Sheraton Kaanapali (shoreline)	11	12	1.1	1.2
Lanai:				
Hulopoe Bay	2	-	6.6	-
Molokai:				
Kaunakakai Harbor	-	-	-	-
Oahu:				
Ala Moana Park (center)	-	-	-	-
Ewa Beach Park	-	-	-	-
Haleiwa Beach	22	23	5.6	1.6
Hanauma Bay	44	46	5.0	3.4
Kailua Beach Park	42	36	3.7	2.2
Kuhio Beach	42	46	10.9	5.0
Makaha Beach	-	-	-	-
Waimea Beach	41	44	3.5	2.0
Kauai:				
Anini Park Pavilion	11	12	4.1	1.4
Kalapaki Beach (middle)	11	12	7.2	6.2
Kekaha (Oomano Point)	11	12	1.2	0.9
Poipu Beach Pavilion	11	12	1.4	1.0
West of Lydgate Park (wading pool)	11	13	1.5	1.5

1/ Geometric mean, number per 100 ml. The geometric mean standard for Enterococci density is 7 per 100 ml.

Source: Hawaii State Department of Health, Clean Water Branch, records.

**Table 5.28-- U.S. NAVY OIL SPILLS, FOR THE UNITED STATES AND
HAWAII: 1990 TO 1997**

[Spills in port by ships or shore facilities. All spills reached water. Totals for 8 year period.
By fiscal year]

Subject	All U.S. ports	Pearl Harbor	Lualualei
Total amount spilled (gallons)	181,453	6,086	65
Number of spills	1,402	103	2
Average spill (gallons)	129	59	33

Source: *The Honolulu Advertiser*, November 22, 1998, p. A3.

**Table 5.29-- REFUSE AND SEWAGE STATISTICS FOR OAHU:
1988 TO 1998**

[Years ended June 30]

Year	Tons of municipal solid waste delivered 1/			Sewage treated 2/ (millions of gallons)
	Total	City and County refuse vehicles	Other vehicles	
1988	739,820	403,528	336,292	39,757
1989	778,673	302,851	474,822	39,918
1990	825,058	276,178	548,880	41,763
1991	1,015,842	293,857	721,985	44,484
1992	1,049,647	331,269	718,378	42,705
1993	1,023,113	322,901	700,212	42,415
1994	1,017,367	331,602	685,765	42,756
1995	1,017,709	325,381	692,328	43,175
1996	959,793	288,057	671,736	41,403
1997	945,081	302,078	643,003	42,616
1998	861,851	295,117	566,714	41,289

Year	Sewage pumped 2/ (millions of gallons)	Miles of sewers 2/	City and County pump stations	City and County treatment plants
1988	51,713	1,769	59	17
1989	51,623	1,805	59	14
1990	50,858	1,828	62	13
1991	52,849	1,859	64	13
1992	53,290	1,890	65	12
1993	52,480	1,914	67	11
1994	53,298	1,945	69	8
1995	53,088	1,893	64	8
1996	52,114	1,910	65	8
1997	54,197	1,940	63	8
1998	50,605	1,940	64	8

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.

Source: City and County of Honolulu, Department of Environmental Services.

Table 5.30-- AIR QUALITY IN DOWNTOWN HONOLULU: 1988 TO 1997

[Annual arithmetic means, in micrograms per cubic meter (mg/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} (mg/m^3) 1/	CO (ppm) 2/	Year	PM_{10} (mg/m^3) 1/	CO (ppm) 2/
1988	-	1.7	1993	13	1.8
1989	-	1.8	1994	14	0.8
1990	-	1.5	1995	14	0.8
1991	-	1.7	1996	14	0.8
1992	-	1.6	1997	8	0.8

1/ The State and Federal Ambient Air Standard for PM_{10} annual average is $50 mg/m^3$.

2/ There is no annual standard for CO. The State Ambient Air Standard for 1-hour CO is $9 ppm/m^3$ and the Federal standard is $35 ppm/m^3$.

Source: Hawaii State Department of Health, Clean Air Branch, records.

Table 5.31-- AIR QUALITY AT SPECIFIED LOCATIONS: 1997

[24-hour sampling, in micrograms per cubic meter]

Sampling station	PM 10			Sulfur dioxide		
	Annual range		Annual arithmetic average	Annual range		Annual arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Downtown Honolulu	3	21	8	0	7	2
Liliha	5	28	15	...	...	...
Pearl City	7	45	14	...	...	...
Kapolei	5	42	13	0	20	2
Makaiwa	...	...	...	0	16	1
West Beach	12	28	17	1	12	6
Waimanalo	9	29	18	...	...	...
Kauai:						
Lihue	4	31	16	...	...	...

Source: Hawaii State Department of Health, Clean Air Branch, records.

**Table 5.32-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT
MAUNA LOA: ANNUAL MEAN VALUES, 1958 TO 1998**

[Parts per million]

Year	Annual average	Year	Annual average	Year	Annual average
1958	1/ 315.17	1972	327.26	1986	347.21
1959	315.83	1973	329.45	1987	348.98
1960	316.75	1974	1/ 329.72	1988	351.34
1961	317.49	1975	3/ 331.14	1989	352.89
1962	318.30	1976	332.04	1990	354.26
1963	318.83	1977	333.79	1991	355.45
1964	2/ 319.04	1978	335.35	1992	356.20
1965	319.87	1979	336.73	1993	356.90
1966	321.21	1980	338.72	1994	358.70
1967	322.02	1981	340.12	1995	360.62
1968	322.83	1982	341.21	1996	362.40
1969	323.93	1983	342.87	1997	363.54
1970	325.27	1984	344.48	1998	366.60
1971	326.17	1985	345.85		

1/ Based on data for 8 months.

2/ Based on data for 9 months.

3/ Based on data for 11 months.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Geophysical Monitoring for Climatic Change, records; provided by Saul Price, National Weather Service, Pacific Region, Honolulu (for 1958-1991) and Mauna Loa Observatory (for 1992-1998).

Table 5.33-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

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	30	71.2	75.9	53	94	128
Hawaii Volcanoes Nat. Park Hdq.	3,970	57.6	63.2	31	93	101
Naalehu	800	70.2	75.1	50	93	47
Kailua	30	72.1	77.3	54	93	25
Puako 2/	5	73.1	79.8	52	98	10
Waimea (Kamuela)	2,670	61.3	66.8	34	90	31
Honokaa	1,070	67.6	75.5	(NA)	(NA)	86
Mauna Kea summit 3/	13,796	31.3	42.5	11	66	20
Maui:						
Hana Airport	60	71.4	77.3	50	94	83
Haleakala summit	10,025	42.6	50.0	14	73	44
Kihei 4/	85	70.9	78.4	49	98	13
Kahului Airport	40	71.5	79.2	48	96	20
Lahaina	45	71.5	78.0	52	97	15
Molokai:						
Kaunakakai	10	(NA)	(NA)	(NA)	(NA)	14
Molokai Airport	450	70.2	77.6	48	91	27
Lanai:						
Lanai City	1,620	65.8	72.8	46	88	37

Continued on next page.

Table 5.33-- 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:						
Honolulu International Airport	10	72.6	81.0	53	94	23
Waikiki (Honolulu Zoo)	10	72.8	80.3	51	95	25
Manoa (Lyon Arboretum)	500	69.9	76.1	49	96	158
Kaneohe (State Hospital)	200	71.0	77.5	43	93	71
Kahuku	25	71.6	78.8	49	95	40
Wheeler AFB	845	68.2	75.5	52	89	40
Waianae	10	72.1	79.7	45	96	20
Kauai:						
Kilauea (town)	315	68.7	75.6	49	94	68
Lihue Airport	100	71.3	79.1	50	90	44
Poipu (Makahuena Pt.)	50	72.1	79.4	50	95	35
Kekaha	9	71.0	78.5	48	95	21
Kokee (Kanalohuluhulu)	3,600	54.7	63.8	29	86	70
Northwestern Hawaiian Islands:						
Midway	10	65.0	78.6	52	89	44

NA Not available.

1/ For some stations, data represent 30-year normals.

2/ Temperature data are for Mahukona.

3/ Based on incomplete and non-continuous data for 1966-1972. Precipitation estimated.

4/ Temperature data refer to Puunene Airport.

Source: Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data supplied February 14, 1995.

**Table 5.34-- CLIMATIC NORMALS, MEANS, AND EXTREMES FOR HILO,
KAHULUI, HONOLULU, AND LIHUE AIRPORTS**

Subject	Hilo	Kahului	Honolulu	Lihue
Normal temperatures (°F):				
Daily maximum	81.5	83.9	84.4	81.2
Daily minimum	66.4	67.2	70.0	69.9
Monthly: Coolest month	71.7	71.7	72.9	71.6
Warmest month	76.3	79.3	81.4	79.5
Annual	74.0	75.6	77.2	75.6
Extreme temperatures (°F):				
Record highest	94	97	95	90
Record lowest	53	48	53	50
Normal degree days, base 65°F:				
Heating	-	-	-	-
Cooling	3,284	3,883	4,474	3,883
Precipitation (inches):				
Normal	129.19	20.92	22.02	43.00
Maximum monthly	50.82	14.46	20.79	22.91
Minimum monthly	0.28	0.00	T	T
Maximum in 24 hours	22.30	7.01	17.07	11.54
Normal relative humidity (percent)	79	73	68	75
Wind speed (m.p.h.):				
Mean	7.4	14.7	11.4	12.8
Peak gust	59	54	51	115
Percent of possible sunshine	40	67	71	58
Mean number of days:				
Clear	35.5	130.5	90.0	55.3
Partly cloudy	131.3	145.2	178.8	183.2
Cloudy	195.3	89.5	92.0	123.2
Precipitation .01 inch or more	273.3	100.2	100.7	199.8
Thunderstorms	9.7	4.0	6.7	7.8
Temperature maximum 90° and above	1.0	23.5	31.4	0.1

T Trace amount.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1998* for Hilo, Kahului, Honolulu, and Lihue.

Table 5.35-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent)		Wind (miles/hour)		Percent of possible sunshine	Mean number of days		
	8 A.M.	2 P.M.	Mean speed	Fastest obs. 2/		Clear	Cloudy	Precip. .01 inch or more
January	81	62	9.4	32	65	9.5	8.5	9.7
February	78	59	10.1	35	68	8.1	7.6	8.6
March	73	57	11.3	30	72	7.4	9.3	9.2
April	70	56	11.7	31	70	5.9	9.6	9.5
May	67	54	11.6	30	72	6.7	8.7	7.9
June	66	52	12.6	26	74	6.5	6.2	5.8
July	67	52	13.4	28	76	7.4	5.1	7.4
August	67	51	13.0	28	77	8.0	5.7	6.1
September	68	52	11.4	38	77	7.9	5.7	7.4
October	70	56	10.7	25	71	7.5	8.1	8.8
November	74	59	10.9	46	64	7.2	8.8	9.8
December	78	61	10.6	33	63	7.9	8.7	10.5
Annual	72	56	11.4	46	71	90.0	92.0	100.7

T Trace amount.

1/ Normal dry bulb.

2/ Fastest observation, 2 minutes, during period of record through 1995.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii 1998*.

Table 5.36-- AVERAGE TEMPERATURE, PERCENT OF POSSIBLE SUNSHINE, AND PRECIPITATION, FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1950 TO 1998

Year	Average temperature (°F)	Percent of possible sunshine	Precipitation (inches)	Year	Average temperature (°F)	Percent of possible sunshine	Precipitation (inches)
1950	75.7	(NA)	31.68	1975	76.2	62	24.39
1951	76.3	(NA)	39.73	1976	76.8	60	12.90
1952	75.4	(NA)	10.65	1977	78.2	68	12.36
1953	75.9	71	9.97	1978	76.8	69	25.05
1954	75.8	68	27.30	1979	77.0	68	16.93
1955	74.5	62	37.86				
1956	75.9	69	21.23	1980	77.5	69	26.90
1957	76.0	72	24.22	1981	77.1	72	13.41
1958	75.3	70	35.02	1982	76.9	56	34.92
1959	76.7	70	14.14	1983	77.2	64	5.03
				1984	78.1	71	17.08
1960	76.7	70	12.07	1985	76.9	69	17.38
1961	77.2	81	14.26	1986	78.3	77	13.93
1962	76.5	71	13.58	1987	77.9	73	23.53
1963	76.7	64	37.91	1988	78.5	75	16.47
1964	77.0	63	20.12	1989	77.5	79	27.52
1965 1/	76.1	74	42.78				
1966 1/	77.6	68	23.18	1990	77.6	77	19.84
1967 1/	77.6	58	34.34	1991	77.7	67	17.94
1968 1/	77.9	63	37.26	1992	77.8	(NA)	19.00
1969 1/	77.4	68	22.50	1993	77.1	88	5.84
				1994	78.8	89	15.59
1970 1/	78.2	72	15.49	1995	79.3	89	13.60
1971 1/	76.1	70	26.64	1996	78.6	(NA)	33.12
1972	76.2	65	26.94	1997	77.8	88	19.99
1973	77.2	63	14.24	1998	77.1	(NA)	4.52
1974	77.5	61	24.02				

NA Not available.

1/ 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, Honolulu, Hawaii* (annual).

**Table 5.37-- AVERAGE DAILY TEMPERATURE AND DAYS WITH MAXIMUM
OF 90° OR HIGHER; FOR HONOLULU INTERNATIONAL AIRPORT:
1971 TO 1998**

Year	Average daily maximum (°F)	Days 90° or higher	Year	Average daily maximum (°F)	Days 90° or higher
1971	82.7	-	1985	84.6	53
1972	83.2	3	1986	86.2	64
1973	84.4	10	1987	85.7	93
1974	85.0	25	1988	86.1	70
1975	83.6	1	1989	85.2	34
1976	84.1	9	1990	84.0	47
1977	85.2	16			
1978	84.2	13	1991	84.9	35
1979	84.7	51	1992	85.2	28
1980	84.6	22	1993	84.5	23
			1994	85.5	85
1981	84.6	9	1995	86.8	116
1982	83.5	27	1996	84.0	69
1983	85.1	44	1997	85.1	50
1984	85.5	63	1998	83.7	-

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual).

**Table 5.38-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT:
ANNUALLY, 1988 TO 1998**

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1988	78.5	73.1	82.1	57	94	16.47
1989	77.5	72.9	81.9	56	92	27.52
1990	77.6	71.5	82.3	57	93	19.84
1991	77.7	72.4	82.4	55	93	17.94
1992	77.8	72.9	82.2	58	92	19.00
1993	77.1	70.9	81.3	54	93	5.84
1994	78.8	72.0	84.3	56	95	15.59
1995	79.3	73.4	83.4	56	94	13.60
1996	78.6	74.0	82.8	56	93	33.12
1997	77.8	72.3	82.7	57	94	19.99
1998	77.1	72.5	81.1	53	89	4.52

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		
1988	71	53	9.8	39	75	88
1989	72	55	10.5	41	79	82
1990	69	54	11.2	46	77	109
1991	69	53	10.0	39	67	86
1992	71	55	9.5	49	(NA)	98
1993	70	53	10.9	46	88	76
1994	72	55	11.9	51	89	80
1995	74	57	10.7	41	89	81
1996	73	56	9.6	40	(NA)	106
1997	80	57	10.0	41	88	105
1998	72	56	11.0	(NA)	(NA)	74

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, Honolulu, Hawaii* (annual).

Table 5.39-- 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, Climatological Section, data supplied February 14, 1995.

**Table 5.40-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY,
1988 TO 1998**

[In inches]

Year	Hawaii				Maui		
	Hilo Airport	Lalamilo	Kona Village	Naalehu	Kahului Airport	Kihei	Lahaina
1988	140.19	12.52	11.70	38.21	26.79	17.03	14.91
1989	166.71	(NA)	13.32	74.79	40.63	27.00	26.95
1990	211.22	23.54	19.80	89.83	35.20	19.17	19.84
1991	153.04	15.73	8.88	44.45	16.09	6.62	11.11
1992	119.89	12.72	9.90	40.57	16.98	11.03	9.73
1993	114.49	20.67	5.91	40.56	12.69	5.82	11.76
1994	182.81	11.87	4.62	63.34	13.93	5.61	8.02
1995	85.92	6.04	5.72	26.55	13.45	8.21	6.30
1996	120.21	25.35	24.70	59.07	31.00	22.32	22.81
1997	131.61	17.48	15.57	49.43	23.08	19.96	16.68
1998	108.78	8.86	1.37	17.62	6.76	4.47	1.86

Year	Oahu				Kauai		
	Waikiki	University of Hawaii	Nuuanu Res. 4	Kane-ohe 1/	Koloa	Lihue Airport	Princeville
1988	24.50	(NA)	124.42	65.89	63.23	43.06	77.10
1989	(NA)	39.53	129.50	73.53	87.81	56.77	116.65
1990	26.15	40.66	137.81	60.48	73.27	39.37	86.44
1991	26.10	42.83	115.02	65.33	71.30	41.63	82.01
1992	(NA)	35.10	118.58	60.14	52.53	50.17	(NA)
1993	16.92	24.14	81.62	34.55	52.98	22.27	48.02
1994	20.16	33.68	125.48	52.36	60.73	32.99	72.15
1995	12.25	20.98	99.26	(NA)	56.76	46.57	86.94
1996	29.96	42.11	116.76	68.02	(NA)	56.14	85.53
1997	25.30	40.67	116.22	(NA)	42.02	48.02	81.57
1998	10.97	24.50	74.62	28.52	33.72	26.47	56.52

NA Not available.

1/ Revised.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Climatological Data, Annual Summary, Hawaii and Pacific* (annual); and Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records.

Table 5.41-- MAJOR HURRICANES: 1950 TO 1998

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. <http://www.nws.noaa.gov/pr/hnl/cphc/pages/summaries.html>.

**Table 5.42-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN
HAWAIIAN WATERS, BY MONTHS**

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; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data provided February 14, 1995.

Table 5.43-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[In Fahrenheit degrees]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1983*.

Table 5.44-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT SELECTED LOCATIONS, AT BEGINNING OF EACH SEASON: 1997

[Hawaiian Standard Time]

Subject	Hilo	Kahului	Honolulu	Lihue	Barking Sands
Sunrise (a.m.):					
March 20	6:24	6:29	6:35	6:41	6:42
June 20	5:42	5:45	5:50	5:55	5:56
Sept. 22	6:09	6:15	6:21	6:26	6:28
Dec. 21	6:51	6:58	7:05	7:12	7:14
Sunset (p.m.):					
March 20	6:32	6:37	6:43	6:49	6:51
June 20	7:02	7:10	7:16	7:23	7:25
Sept. 22	6:16	6:21	6:27	6:33	6:35
Dec. 21	5:47	5:50	5:55	6:00	6:01
Hours of daylight:					
March 20	12:08	12:08	12:08	12:08	12:09
June 20	13:20	13:25	13:26	13:28	13:29
Sept. 22	12:07	12:06	12:06	12:07	12:07
Dec. 21	10:56	10:52	10:50	10:48	10:47

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084, and records; Bishop Museum Planetarium, records.

**Table 5.45-- "LAHAINA" (SHADOWLESS) NOONS FOR SELECTED
LOCATIONS: 1999**

[Lahaina (or shadowless) noons occur when the sun is directly overhead at a specified location]

Location	Lahaina Noon	
	May	July
Honolulu: 1999 Time	27 12:28 p.m.	16 12:37 p.m.
Kahului: 1999 Time	24 12:22 p.m.	19 12:31 p.m.
Lihue: 1999 Time	31 12:23 p.m.	11 12:31 p.m.
Hilo: 1999 Time	19 12:17 p.m.	24 12:27 p.m.

Source: Bishop Museum Planetarium, records.

**Table 5.46-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE
HONOLULU AREA: 1995 TO 1998**

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali]

Species	1995	1996	1997	1998
All species:				
Species	43	46	57	51
Individual birds	10,220	9,781	17,836	17,005
Endemic species: 1/				
'Apapane	105	6	16	9
Hawaiian Coot 2/	37	62	58	76
Hawaiian Stilt 2/	100	155	148	168
Oahu 'Amakihi	62	34	38	20
Hawaiian Moorhen 2/	2	4	8	9
Oahu 'Elepaio	6	13	4	10
Indigenous species: 3/				
Great Frigatebird	60	111	23	44
Red-footed Booby	1,044	1,246	125	1,221
Alien species: 4/				
Cattle Egret	120	231	40	178
Common Myna	1,265	1,146	2,136	2,474
Common Waxbill	339	622	1,117	408
House Sparrow	349	244	480	455
Japanese White-eye	300	303	547	403
Java Sparrow	1,096	396	1,754	1,525
Red-vented Bulbul	582	710	1,743	1,406
Rock Dove	86	239	304	302
Spotted Dove	889	703	1,239	1,295
Zebra (Barred) Dove	1,713	1,424	3,505	3,690
Visitor species: 5/				
Pacific Golden-Plover	815	763	1,351	1,268
Ruddy Turnstone	365	340	288	287

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: Hawaii Audubon Society, *'Elepaio* (monthly), and records.

Table 5.47-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA, BY TYPE OF SPECIES: 1996 TO 1998

[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]

Type of species	Number of species			Number of individuals		
	Dec. 1996	Dec. 1997	Dec. 1998	Dec. 1996	Dec. 1997	Dec. 1998
All species	46	57	51	9,781	17,836	17,005
Endemic	7	7	7	277	281	306
Indigenous	5	4	9	1,463	171	1,313
Alien	26	34	27	6,881	15,695	13,761
Visitor	8	12	8	1,160	1,689	1,625

Source: Hawaii Audubon Society, records.

**Table 5.48-- TREES ALONG STREETS OR IN PARKS UNDER THE
JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1992 TO 1997**

[As of June 30]

Location	1992	1993	1994 2/	1995	1996	1997
Along City and County streets and highways 1/	127,056	130,458	131,817	132,286	134,270	135,626
In City and County parks	98,685	99,025	99,412	100,377	101,063	102,083

1/ Excludes Federal, State, and private thoroughfares.

2/ Revised.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 5.49-- ESTIMATED NUMBER OF SPECIES IN HAWAII: 1995 TO 1997

[Excludes viruses and bacteria]

Category	Species		
	1995	1996	1997
Total in Hawaii and surrounding waters	21,383	22,077	22,462
Endemic to Hawaii	8,759	8,805	8,864
Nonindigenous protists, fungi, plants, and animals	4,532	4,573	4,598
Terrestrial	15,000	(NA)	(NA)
Found in fresh water	300	(NA)	(NA)
Marine-inhabiting	5,500	6,500	(NA)

NA. Not available.

Source: A. Allen, S. E. Miller and G. M. Nishida, "Hawaii Biological Survey: a model for the Pacific Region", *Marine and Coastal Biodiversity in the Tropical Island Pacific Region*, Volume I (1995): 349-355, East-West Center and Pacific Science Association, Honolulu; L. G. Eldredge and S. E. Miller, "How many species are there in Hawaii?", *Bishop Museum Occasional Papers* 41 (1995): 3-18; L. G. Eldredge and S. E. Miller, "Numbers of Hawaiian species: Supplement 2, including a review of freshwater invertebrates", *Bishop Museum Occasional Papers* 48 (1997): 3-22; L. G. Eldredge and S. E. Miller, "Numbers of Hawaiian species: Supplement 3, with notes on fossil species", *Bishop Museum Occasional Papers* 55 (1998): 3-15.

**Table 5.50-- THREATENED AND ENDANGERED SPECIES, FOR THE
UNITED STATES AND HAWAII: 1995**

Geographic area	Total	Bird	Mammal	Plant	Snail
Hawaii	273	31	2	199	41
Niihau	8	1	1	6	-
Kauai	83	13	2	68	-
Oahu	129	7	2	79	41
Molokai	59	6	1	52	-
Lanai	42	4	1	37	-
Kahoolawe	4	-	-	4	-
Maui	78	12	2	64	-
Hawaii	67	14	2	51	-
United States	...	88	...	526	...

Source: *National Geographic*, September 1995, pp. 14-15.

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, and sugar cane land in Section 22.

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. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 339,757 acres to 688,130.

Tabulations by the U.S. Department of Agriculture and 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 Department of Finance, and City and County of Honolulu Planning Information Branch provided the data for this section. *Historical Statistics of Hawaii*, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 6, 7, and 23 of the *Statistical Abstract of the United States: 1998*.

Table 6.01-- LAND OWNERSHIP, COVER, OR USE: 1982 TO 1992

[In thousand of acres. Based on sample data and subject to sampling variation. Small differences between reported values accordingly may not be statistically significant]

Land ownership, cover, or use	1982 1/	1987 1/	1992	
			Estimated value	Sampling variation 2/
Total surface area	4,093.3	4,093.3	4,093.3	227.8
LAND OWNERSHIP				
Federal land 3/	350.8	430.4	431.9	131.1
Nonfederal land	3,701.5	3,621.8	3,620.8	236.2
Developed	123.4	128.5	149.8	29.2
Rural	3,578.1	3,493.3	3,471.0	237.7
Water area	41.0	41.1	40.6	22.9
LAND COVER OR USE				
Cropland	303.1	294.1	274.3	43.1
Cultivated	268.2	252.2	228.6	39.3
Noncultivated	34.9	41.9	45.7	20.0
Grazing land	1,019.7	996.6	1,013.4	132.7
Forest land	1,575.3	1,538.4	1,482.5	199.4
Minor land cover/uses	656.8	643.0	680.4	189.0
All other land cover/uses	538.4	621.2	642.7	132.7

1/ Revised from *Data Book 1993-94*, table 6.1.

2/ 95-percent confidence interval, plus or minus.

3/ Includes ceded land; excludes leased land and submerged land.

Source: U.S. Department of Agriculture, Natural Resources Conservation Service (formerly the Soil Conservation Service), 1992 National Resources Inventory.

**Table 6.02-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU:
1992 AND 1997**

Subject	June 1992: Oahu total	June 1997		
		Oahu total	Honolulu district	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	375,220	374,889	54,117	320,772
Residential	30,162	32,104	9,914	22,189
Industrial	9,361	9,597	3,793	5,804
Commercial	4,464	4,277	1,544	2,733
Hotel	305	317	130	187
Agriculture	69,927	56,846	300	56,545
Usable vacant	39,769	48,256	2,431	45,825
Other	221,233	223,493	36,005	187,489
STRUCTURES BY YEAR BUILT 1/				
All structures	156,126	165,733	64,450	101,283
Before 1930	7,922	6,387	5,016	1,371
1930 to 1939	8,770	8,268	5,287	2,981
1940 to 1949.	14,788	14,139	8,180	5,959
1950 to 1959	29,744	29,180	14,002	15,178
1960 to 1969	40,999	40,618	15,325	25,290
1970 to 1979	28,096	28,252	8,126	20,126
1980 to 1989	20,245	20,206	5,220	14,986
1990 and later	5,562	18,689	3,294	15,389
DWELLING UNITS BY TYPE 1/				
All dwelling units	271,108	290,715	152,041	138,674
Single family and duplex	144,815	153,592	58,107	95,485
Low density multi-family	15,760	23,672	1,392	22,280
High density multi-family	110,533	113,451	92,542	20,909

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:
1964 TO 1998**

[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]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
UNADJUSTED 3/					
1964: August	4,111,500	117,800	1,862,600	2,124,400	6,700
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

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 1984 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.

Source: Hawaii State Department of Business, Economic Development & Tourism, Land Use Commission, records.

**Table 6.04-- ESTIMATED ACREAGE OF LAND USE DISTRICTS,
BY ISLANDS: DECEMBER 31, 1998**

[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]

Island	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
State total	4,112,388	193,001	1,974,994	1,934,423	9,970
Hawaii	2,573,400	53,291	1,305,706	1,213,715	688
Maui	465,800	21,166	194,836	246,032	3,766
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,228	38,197	46,678	2,397
Molokai	165,800	2,539	49,768	111,627	1,866
Oahu	386,188	98,364	156,618	131,206	-
Kauai	353,900	14,413	198,769	139,465	1,253
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands 3/	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/ 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-- LAND OWNERSHIP OR TENURE, BY ISLANDS: FALL 1988

[In acres. Government land leased to private users is included with privately owned land]

Island	All land 1/	Land owned by government 2/			Privately owned land
		Federal	State	Counties	
State total 3/ Percent	4,035,601 100.0	338,035 8.4	1,188,242 29.4	14,898 0.4	2,494,426 61.8
Hawaii	2,497,055	229,848	817,391	1,278	1,448,537
Maui	448,170	26,875	102,345	1,568	317,381
Kahoolawe	28,800	28,800	-	-	-
Molokini	19	19	-	-	-
Lanai	88,985	5	124	14	88,843
Molokai	170,910	211	47,601	265	122,831
Oahu	403,154	48,861	69,541	11,162	273,590
Kauai	351,292	3,158	150,984	610	196,540
Niihau	46,705	-	-	-	46,705
Lehua and Kaula	512	256	256	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

3/ Data exclude the Northwestern Hawaiian Islands (1,722 acres).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records. Tabulation by State Department of Business, Economic Development & Tourism.

Table 6.06-- LAND PARCELS, BY COUNTIES: FISCAL YEARS 1991 TO 2000

[Fiscal year ending June 30]

Fiscal Year 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1991	424,111	224,339	50,966	124,902	23,904
1992	431,271	227,449	52,362	126,497	24,963
1993	438,388	231,893	53,414	127,444	25,637
1994	446,276	236,138	55,379	128,543	26,216
1995	452,568	240,652	56,108	128,954	26,854
1996	459,646	245,257	57,044	129,708	27,637
1997	467,966	250,320	57,992	131,060	28,594
1998	471,942	252,587	58,866	131,658	28,831
1999	475,538	254,282	59,852	132,366	29,038
2000	476,194	256,839	58,866	131,658	28,831

1/ This table conforms to the convention of "Fiscal Year ending June 30, 2000" as 2000. Earlier *Data Book* tables may have used as "Year" a fiscal year beginning July 1 or calendar year beginning January 1.

Source: City and County of Honolulu, Department of Budget & Fiscal Services (Department of Finance through 1999), Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions*, State of Hawaii (annual).

**Table 6.07-- REAL PROPERTY TAX EXEMPTIONS FOR CEMETERIES,
CHURCHES, HOSPITALS AND SCHOOLS, BY COUNTIES: 1998-1999**

[For fiscal year ended June 30.]

Category	Cemeteries	Churches	Hospitals	Schools
PARCELS				
State total	104	1,448	86	185
Honolulu	46	802	68	129
Maui	4	220	11	12
Hawaii	45	291	3	41
Kauai	9	135	4	3
AMOUNT (\$1,000)				
State total	44,178	1,230,484	540,956	745,339
Honolulu	39,159	980,823	491,220	692,242
Maui	1	125,723	28,187	14,862
Hawaii	2,697	82,697	11,314	37,383
Kauai	2,321	41,241	10,235	852

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1998-1999 Tax Year, State of Hawaii* (July 1998).

**Table 6.08-- REAL PROPERTY TAX EXEMPTIONS FOR CEMETERIES,
CHURCHES, HOSPITALS AND SCHOOLS, BY COUNTIES: 1999-2000**

[For fiscal year ended June 30.]

Category	Cemeteries	Churches	Hospitals	Schools
PARCELS				
State total	102	1,455	89	184
Honolulu	45	800	69	128
Maui	4	225	11	12
Hawaii	44	296	3	41
Kauai	9	134	6	3
AMOUNT (\$1,000)				
State total	38,971	1,155,480	497,029	726,728
Honolulu	34,043	905,939	447,721	674,362
Maui	1	124,495	27,556	13,757
Hawaii	2,650	83,848	11,111	37,840
Kauai	2,277	41,198	10,641	769

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1999-2000 Tax Year, State of Hawaii* (July 1999).

**Table 6.09-- LAND OWNED IN FEE SIMPLE BY SELECTED LARGE
LANDOWNERS: 1996 TO 1998**

[In acres. Unless otherwise specified, as of December 31]

Landowner	1996	1997	1998
Eight large landowners	999,063	996,226	992,998
Percent of total land area 1/	24.3	24.2	24.2
Bernice P. Bishop Estate 2/	366,184	366,098	366,374
Parker Ranch	137,007	136,602	136,436
Castle & Cooke, Inc.	100,510	100,023	99,909
Dole Food Company, Inc.	28,746	28,745	28,685
Samuel M. Damon Estate	121,600	121,595	121,595
Alexander and Baldwin Properties	93,160	93,020	93,080
C. Brewer and Company, Ltd.	80,156	79,343	76,219
James Campbell Estate	71,700	70,800	70,700

1/ Based on area of 4,110,966 acres.

2/ As of July 1.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of major landowners.

Table 6.10-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1994 TO 1997

[As of September 30]

Subject	1994	1995	1996	1997
OWNED				
Number of installations	317	262	256	254
Land area, total (acres)	688,129.5	350,932.7	350,221.2	350,151.4
Percent of State area	16.8	8.5	8.5	1/ 8.5
Urban	21,412.5	20,626.0	125,628.7	125,628.7
Rural	666,717.0	330,306.7	224,592.5	224,522.7
Number of buildings	16,336	15,084	15,166	15,145
Floor area of bldgs. (1,000 sq. ft.)	77,457	76,136	77,846	77,834
Cost, total (\$1,000) 2/	3,397,196	3,212,033	3,397,303	3,398,474
Land	90,674	70,393	64,021	64,021
Buildings	2,222,696	2,192,454	2,383,306	2,384,505
Structures and facilities	1,083,826	949,186	949,976	949,948
Predominant usage of land (acres):				
Agriculture and grazing	-	-	-	-
Forest and wildlife	337,342.0	1,384.3	450	450
Parks and historic sites	220,526.7	220,526.7	220,526.7	220,526.7
Power development and distribution	-	-	-	-
Military, excluding airfields	111,014.8	111,014.5	111,025.5	111,025.5
Airfields	6,794.9	6,794.9	6,794.4	6,794.4
Harbor and port facilities	2.9	2.2	2.2	2.2
Reclamation and irrigation	-	-	-	-
Office building locations	62.4	62.4	61.7	61.7
Flood control and navigation	1,907.2	-	-	-
Vacant	1.5	1.5	1.5	1.5
Institutional	-	-	-	-
Housing	87.4	-	-	-
Storage	778.2	778.2	772.8	772.8
Industrial	9,037.1	8,996.3	9,144.9	9,144.9
Research and development	274.2	209.5	279.3	209.5
Misc. land	300.2	1,162.2	1,162.2	1,162.2
LEASED				
Number of leases	557	542	533	531
Land area, total (acres)	15,176.0	72,572.4	72,653.6	72,653.6
Urban	638.3	633.7	633.7	633.7
Rural	14,537.7	71,938.7	72,019.9	72,019.9
Number of building locations	515	644	641	639
Floor area of buildings (1,000 sq. ft.)	979.7	1,038.6	1,017.7	1,015.5
Annual rental (\$1,000)	9,805	13,680	13,965	13,906

Footnotes and source on next page.

Table 6.10-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1994 TO 1997 -- Con.

1/ The U.S. percentage was 29.8. The Hawaii percentage ranked the 18th highest among the 50 States and D.C.

2/ At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

Source: U.S. General Services Administration, *Summary Report of Real Property Owned by the United States Throughout the World* (annual) and *Summary Report of Real Property Leased by the United States Throughout the World* (annual).

**Table 6.11-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE,
LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1998**

[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	Molokai	Oahu	Kauai
Acreage 1/ In homestead use	197,673 40,703	115,088 27,288	30,208 644	25,384 11,005	6,783 951	20,211 815
Homestead leases 2/ Residential	6,547 5,189	1,785 1,028	578 512	813 385	2,897 2,839	474 425
Agricultural	1,057	484	66	402	58	47
Pastoral	301	273	-	26	-	2
Applicant waiting list 2/ Residential	29,702 16,022	11,347 4,917	5,820 2,740	1,630 706	7,503 6,133	3,402 1,526
Agricultural	11,806	5,233	2,735	785	1,370	1,683
Pastoral	1,874	1,197	345	139	-	193

1/ Data based on latest figures from the trust resolution project. Acreages are rounded to the nearest acre and include 10,492 acres of new lands out of the 16,518-acre land transfer from the Public Land Trust. Oahu total includes 14.4 acres of Kalawahine land provided under Act 150, SLH 1990, 1,356 acres at Lualualei under Executive Orders to the the U.S. Navy, 53.615 acres at Princess Kahanu Estates, and 20.114 acres at Waianae Kai. Act 95, SLH 1996, also transferred 51.324 acres at Kealakehe (La'i'opua) and 37.839 acres at Kapolei, Oahu, as part of the land claims settlement. DHHL also purchased 59.170 acres at Waiehu Kou, Maui.

2/ Residence, agriculture, or pasture. Since applicants may apply for two types of leases, duplications occur. The Department estimates the unduplicated Statewide total number of applicants at about 18,265. Data are subject to audit.

Source: Hawaii State Department of Hawaiian Home Lands, records.

**Table 6.12-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY,
BY COUNTIES: JANUARY 10, 1997**

[In thousands of acres]

Type of document	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All types	1,398.4	72.6	969.8	155.3	200.7
Public lands	419.2	19.6	317.1	38.0	44.5
General lease 1/ 2/	361.9	10.6	297.6	39.8	14.0
Revocable permit 1/ 3/	110.0	3.6	34.8	29.6	42.0
Unencumbered lands 4/	131.4	13.6	88.7	10.7	18.4
Lands set aside to other government agencies	768.6	42.8	536.5	96.6	92.7
Executive order 1/	264.8	17.8	200.4	26.1	20.4
Governor's proclamation	517.2	29.2	340.3	72.7	75.0
Dept. of Hawaiian Home Lands	192.0	4.8	107.8	19.1	60.3
University of Hawaii	1.8	0.7	0.5	0.4	0.1
Hawaii Housing Authority	1.5	1.2	0.1	0.05	0.1
Highways and roads	15.2	3.4	7.7	1.2	2.9

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.

**Table 6.13-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY,
BY COUNTIES: JANUARY 10, 1998**

[In thousands of acres]

Type of document	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All types	1,398.1	72.6	969.7	155.3	200.4
Public lands	418.9	19.6	317.0	38.0	44.2
General lease 1/ 2/	370.9	10.6	306.9	39.8	13.6
Revocable permit 1/ 3/	110.5	3.6	34.8	29.8	42.3
Unencumbered lands 4/	121.7	13.5	79.4	10.7	18.1
Lands set aside to other government agencies	768.6	42.8	536.5	96.6	92.7
Executive order 1/	264.8	17.8	200.4	26.1	20.5
Governor's proclamation	517.2	29.2	340.3	72.7	75.0
Dept. of Hawaiian Home Lands	192.0	4.8	107.8	19.1	60.3
University of Hawaii	1.8	0.7	0.5	0.4	0.1
Hawaii Housing Authority	1.5	1.2	7.7	0.05	0.1
Highways and roads	15.2	3.4	0.04	1.2	2.9

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 Visitors & Convention Bureau (particularly in its annual research reports), the State Parks Division of the Hawaii State Department of Land and Natural Resources, the Hawaii State Department of Business, Economic Development & Tourism, 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 7 of the *Statistical Abstract of the United States: 1998*.

Table 7.01-- TRAVEL CHARACTERISTICS FOR HAWAII AND THE UNITED STATES: 1977 AND 1995

[Trips of 100 miles or more, one way. Excludes travel outside the U.S.]

Subject	Hawaii			United States		
	1977	1995	Percent change	1977	1995	Percent change
People who live in area						
Percent traveling households	67	75	12.5	72	80	10.8
Trips per household	1.3	3.1	138.5	4.1	5.5	34.1
Trips per traveling household	1.9	4.2	121.1	5.7	6.9	21.1
Trips per capita	0.5	1.9	280.0	2.0	4.0	66.7
Trips per traveler	(NA)	2.7	(NA)	4.0	4.8	20.0
Miles per traveler	(NA)	7,392	(NA)	2,836	3,943	39.0
Miles per trip	(NA)	2,704	(NA)	709	827	16.6
People who visit area						
Trips per traveler	2.1	3.4	61.9	4.0	4.8	20.0
Miles per traveler	14,654	16,538	12.9	2,836	3,943	39.0
Miles per trip	7,013	4,885	-30.3	709	827	16.6

NA Not available.

Source: U.S. Bureau of Transportation Statistics, *1995 American Travel Survey, State Highlights, Hawaii* (1997), table 1.

Table 7.02-- PERSON TRIPS TO, FROM, AND WITHIN HAWAII, BY CENSUS DIVISIONS OR STATES OF DESTINATION OR ORIGIN: 1995

[Trips of 100 miles of more, one way. Excludes travel outside the U.S.]

Census division or selected state of destination or origin 1/	Destination of person trips from Hawaii (1,000)	Origin of person trips to Hawaii (1,000)
Total person trips	2,086	4,624
Within Hawaii 2/	1,322	1,322
To or from other states	764	3,302
New England	9	69
Mid-Atlantic	36	189
East North Central	36	269
West North Central	18	146
South Atlantic	71	188
East South Central	13	42
West South Central	33	214
Texas	26	182
Mountain	263	236
Nevada	218	35
Pacific (except Hawaii)	285	1,949
Washington	56	261
California	210	1,530

1/ Top three states in each category are listed.

2/ Trips with both origin and destination within Hawaii.

Source: U.S. Bureau of Transportation Statistics, *1995 American Travel Survey, Summary Travel Characteristics, Hawaii* (1997), Pub. No. BTS/ATS95-ESTC/HI (Oct. 1, 1997), tables 6-11.

**Table 7.03-- PERSON TRIPS TO, FROM, AND WITHIN HAWAII, BY
SELECTED TRAVELER CHARACTERISTICS: 1995**

[Trips of 100 miles or more, one way. Excludes travel outside the U.S.]

Travel characteristics	Origin in Hawaii			Destination in Hawaii 1/	
	Total	Dest. in Hawaii	Dest. outside Hawaii	Total	Origin outside Hawaii
All person trips (1,000)	2,086	1,322	764	4,624	3,302
Age (percent):					
Under 25 years	18.7	20.5	15.8	17.2	15.8
60 years and over	16.5	11.4	25.4	14.6	15.9
Female (percent)	46.1	45.3	47.4	47.3	48.1
Race (percent):					
White	36.2	34.8	38.6	65.4	77.6
Black	1.7	1.1	2.7	2.0	2.3
Asian or Pacific Islander	55.7	56.2	54.8	29.2	18.4
Household income over \$60,000 (percent)	50.9	49.1	53.9	53.3	54.9
Married-couple household (percent)	74.3	71.8	78.5	74.9	76.1
Bachelor's degree or higher (percent) 2/	39.9	40.8	38.6	45.9	47.8
Activity status (percent): 2/					
Working full time	69.1	73.5	62.1	68.4	66.5
Retired	13.3	8.5	20.9	9.8	10.3
All household trips (1,000)	1,494	939	555	2,992	2,054
Mean round-trip distance (miles)	2,769	359	6,842	4,731	6,729
Business trip (percent)	41.6	48.4	30.1	30.3	22.0
Vacation trip (percent)	43.7	35.2	58.1	61.6	73.7
Mean nights away from home	6.7	3.4	10.7	8.6	10.3
Lodging at destination (percent):					
Friend's or relative's home	40.6	46.4	33.6	27.0	20.9
Hotel, motel, or resort	50.5	43.6	58.8	51.9	54.6

1/ Includes "destination in Hawaii, origin in Hawaii," same as figures in second column of data.

2/ Persons 16 years and over.

Source: U.S. Bureau of Transportation Statistics, *1995 American Travel Survey, Summary Travel Characteristics, Hawaii*, Pub. No. BTS/ATS95-ESTC/HI (Oct. 1, 1997), tables 1 and 11.

**Table 7.04-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND
TRANSIT STATUS: 1989 TO 1998**

Direction and status	1989	1990	1991	1992	1993
All directions	8,236,250	8,507,330	8,272,760	8,405,740	7,878,950
Landing	7,149,700	7,453,550	7,286,140	7,266,350	6,945,630
Intransit	1,086,550	1,053,780	986,620	1,139,390	933,320
Westbound 1/	5,734,910	5,692,950	5,444,070	5,295,770	5,039,640
Landing	5,115,410	5,127,690	4,913,650	4,664,350	4,520,430
Intransit	619,500	565,260	530,420	631,420	519,210
Eastbound 2/	2,501,340	2,814,380	2,828,690	3,109,970	2,839,310
Landing	2,034,290	2,325,860	2,372,490	2,602,000	2,425,200
Intransit	467,050	488,520	456,200	507,970	414,110
Direction and status	1994	1995	1996	1997 3/	1998
All directions	7,909,250	7,957,220	8,049,980	8,182,660	7,852,500
Landing	7,263,820	7,466,710	7,648,880	7,723,580	7,545,230
Intransit	645,430	490,510	401,100	459,080	307,270
Westbound 1/	5,197,640	5,056,770	5,078,740	5,147,470	5,169,410
Landing	4,772,380	4,725,150	4,801,570	4,907,620	5,033,100
Intransit	425,260	331,620	277,170	239,850	136,310
Eastbound 2/	2,711,610	2,900,450	2,971,240	3,035,190	2,683,090
Landing	2,491,440	2,741,560	2,847,310	2,815,960	2,512,130
Intransit	220,170	158,890	123,930	219,230	170,960

1/ Arriving from North America.

2/ Arriving from Asia and Oceania.

3/ 1997 data have been revised from previous year databook table.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.05-- PASSENGER STATUS OF PARTIES AND PASSENGERS
ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL: 1996 TO 1998**

Year and direction of travel	All types	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents
			Overnight or longer	Intransit		
PARTIES 1/						
1996, total	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Westbound	2,662,048	2,027,264	127,897	(NA)	487,212	19,675
Eastbound	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1997, total	3,838,720	2,946,000	357,320	(NA)	513,550	21,850
Westbound	2,699,380	2,061,830	114,440	(NA)	503,220	19,890
Eastbound	1,139,340	884,170	242,880	(NA)	10,330	1,960
1998, total	3,933,570	3,155,870	259,770	(NA)	496,750	21,170
Westbound	2,773,230	2,165,040	101,560	(NA)	488,760	17,860
Eastbound	1,160,340	990,830	158,210	(NA)	7,990	3,310
PASSENGERS						
1996, total	(NA)	(NA)	(NA)	401,115	(NA)	(NA)
Westbound	5,078,747	3,768,649	235,804	277,177	764,768	32,349
Eastbound	(NA)	(NA)	(NA)	123,938	(NA)	(NA)
1997 total	8,182,660	6,270,661	605,479	459,080	810,840	36,600
Westbound	5,147,470	3,866,820	211,130	239,850	796,650	33,020
Eastbound	3,035,190	2,403,841	394,349	219,230	14,190	3,580
1998, total	7,852,500	6,274,720	463,500	307,270	771,960	35,050
Westbound	5,169,410	4,058,210	187,060	136,310	759,280	28,550
Eastbound	2,683,090	2,216,510	276,440	170,960	12,680	6,500

NA Not available.

1/ Not surveyed for intransit passengers.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.06-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS:
1965 TO 1998**

[For earlier years, 1921-1964, see *Data Book 1987*, table 210]

Year	Visitors staying overnight or longer			Average number of visitors present		
	Total	West-bound	East-bound	Total	West-bound	East-bound
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709
1981	3,934,623	2,974,791	959,832	95,968	85,449	10,519
1982	4,242,925	3,278,525	964,400	105,310	94,740	10,570
1983	4,367,880	3,395,880	972,000	108,040	97,390	10,650
1984	4,855,580	3,721,380	1,134,200	118,660	106,260	12,400
1985	4,884,110	3,708,610	1,175,500	116,700	103,820	12,880
1986	5,606,980	4,256,390	1,350,590	132,910	118,110	14,800
1987	5,799,830	4,204,010	1,595,820	134,270	116,780	17,490
1988	6,142,420	4,264,730	1,877,690	141,410	115,760	25,650
1989	6,641,820	4,705,320	1,936,500	169,670	135,480	34,190
1990	6,971,180	4,719,730	2,251,450	162,070	125,590	36,480
1991	6,873,890	4,584,460	2,289,430	157,590	121,330	36,260
1992	6,513,880	3,980,120	2,533,760	153,390	113,860	39,530
1993	6,124,230	3,764,520	2,359,710	148,750	108,090	40,660
1994	6,430,300	3,997,820	2,432,480	159,200	115,220	43,980
1995	6,629,180	3,933,110	2,696,070	159,060	113,040	46,020
1996	6,829,800	4,004,450	2,825,350	161,610	114,440	47,170
1997	6,876,140	4,077,950	2,798,190	158,120	114,960	43,160
1998	6,738,220	4,245,270	2,492,950	159,840	119,680	40,160

Source: Hawaii Visitors & Convention Bureau, *Annual Research Report* (annual) and records.

**Table 7.07-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO
HAWAII: 1997 AND 1998**

Country of residence	1997			1998		
	Total	West-bound	East-bound	Total	West-bound	East-bound
All visitors	6,876,140	4,077,950	2,798,190	6,738,220	4,245,270	2,492,950
United States 1/	3,631,990	3,387,180	244,810	3,871,350	3,595,530	275,820
Canada	303,860	250,710	53,150	318,990	258,770	60,220
Asia						
Japan	2,222,650	65,200	2,157,450	2,008,500	56,310	1,952,190
Taiwan	58,130	7,390	50,740	37,180	5,660	31,520
Korea	110,080	15,330	94,750	21,930	5,340	16,590
Hong Kong	27,730	5,550	22,180	21,400	4,500	16,900
China	29,930	18,830	11,100	30,350	20,340	10,010
Philippines	11,580	6,320	5,260	9,120	6,060	3,060
Singapore	12,080	1,510	10,570	6,260	840	5,420
Indonesia	20,640	10,010	10,630	4,320	2,030	2,290
Other Asia	27,790	13,930	13,860	17,850	10,050	7,800
Oceania						
Australia	83,140	29,760	53,380	69,900	24,970	44,930
New Zealand	40,260	14,910	25,350	37,200	13,720	23,480
Other Oceania	7,650	3,090	4,560	8,730	4,240	4,490
Europe						
United Kingdom	76,800	60,930	15,870	80,220	64,280	15,940
Germany	80,500	69,580	10,920	67,660	58,360	9,300
Other Europe	97,730	87,130	10,600	94,530	84,280	10,250
Other foreign countries	33,600	30,590	3,010	32,730	29,990	2,740

1/ Excludes Hawaii. Includes remaining 49 states, D.C., and U.S. territories and possessions.
Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.08-- VISITOR DAYS, BY DIRECTION OF TRAVEL:
1991 TO 1998**

Year	Total	Westbound	Eastbound
1991	57,518,790	44,285,880	13,232,910
1992	56,139,630	41,671,860	14,467,770
1993	54,294,750	39,452,170	14,842,580
1994	58,111,440	42,057,070	16,054,370
1995	58,054,840	41,258,320	16,796,520
1996	59,149,440	41,886,550	17,262,890
1997	57,715,920	41,962,110	15,753,810
1998	58,342,380	43,683,830	14,658,550

Source: Hawaii Visitors & Convention Bureau, *Annual Research Report* (annual) and records.

**Table 7.09-- AVERAGE VISITOR CENSUS, BY COUNTIES AND ISLANDS:
1997 AND 1998**

[Westbound data based largely on intended island visits and length of stay, as reported on arrival in Hawaii. Eastbound data reflect actual visits]

County or island	1997			1998		
	Total 1/	West-bound	East-bound 1/	Total	West-bound	East-bound
State total	158,120	114,960	43,160	159,840	119,680	40,160
Oahu	77,280	42,230	35,050	74,100	43,780	30,320
Hawaii County	21,480	18,960	2,520	23,760	19,920	3,840
Kauai County	16,110	14,770	1,340	17,280	15,790	1,490
Maui County	43,250	39,000	4,250	44,700	40,190	4,510
Lanai	1,850	1,770	80	1,310	1,240	70
Maui	39,930	35,810	4,120	42,100	37,720	4,380
Molokai	1,470	1,420	50	1,290	1,230	60

1/ Revised.

Source: Hawaii Visitors & Convention Bureau, *Annual Research Report* (annual) and records.

Table 7.10-- VISITOR ARRIVALS, WESTBOUND AND OTHER, BY AREAS VISITED: 1997 AND 1998

[Covers visitors staying overnight or longer anywhere in the state, and any overnight or non-overnight interisland trips reported by these visitors]

Areas visited 1/	1997			1998		
	Total	West-bound	East-bound	Total	West-bound	East-bound
State total 2/	6,876,140	4,077,950	2,798,190	6,738,220	4,245,270	2,492,950
Oahu	5,018,510	2,279,850	2,738,660	4,718,420	2,283,450	2,434,970
Kauai	1,011,190	856,930	154,260	1,040,340	903,840	136,500
Maui County 2/	2,350,300	1,879,320	470,980	2,360,350	1,944,200	416,150
Maui	2,280,190	1,820,830	459,360	2,302,760	1,890,960	411,800
Molokai	83,770	71,050	12,720	72,910	66,590	6,320
Lanai	104,570	94,750	9,820	94,390	86,750	7,640
Hawaii County 2/	1,214,050	915,410	298,640	1,270,620	961,420	309,200
Hilo side	385,460	289,330	96,130	388,840	301,710	87,130
Kona side	1,028,060	797,780	230,280	1,083,410	840,220	243,190
One island only	4,816,490	2,744,280	2,072,210	4,741,100	2,910,970	1,830,130
Oahu only	3,242,200	1,223,730	2,018,470	3,024,160	1,239,510	1,784,650

1/ Westbound data based largely on intended visits, as reported upon arrival in state. Beginning in 1994, eastbound data reflect actual visits.

2/ Because many visitors planned to visit more than one area, detail sums to more than the totals and subtotals shown here.

Source: Hawaii Visitors & Convention Bureau, records.

Table 7.11-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS, BY DIRECTION OF TRAVEL: 1997 AND 1998

Subject	Total	Westbound	Eastbound
1997			
Residence (percent):			
United States	54.8	83.1	8.8
Pacific and Mountain States	30.3	49.1	2.8
California	18.9	31.0	1.4
Males per 100 females	(NA)	(NA)	(NA)
Average age (years)	(NA)	(NA)	(NA)
High-status occupations 1/ (percent)	38.1	43.1	30.1
Persons per party	1.9	1.9	2.0
Arriving June-August (percent)	27.0	27.0	27.0
Repeat visitors 2/ (percent)	57.4	63.2	49.0
Pleasure trip (percent)	82.9	78.2	89.9
In hotel only	70.0	54.6	83.0
Destined beyond Hawaii (percent)	8.8	5.2	14.1
1998			
Residence (percent):			
United States	57.5	84.7	11.1
Pacific and Mountain States	33.0	49.6	4.8
California	19.7	31.2	22.7
Males per 100 females	(NA)	(NA)	(NA)
Average age (years)	(NA)	(NA)	(NA)
High-status occupations 1/ (percent)	38.7	43.2	31.1
Persons per party	2.0	1.9	2.2
Arriving June-August (percent)	26.8	26.7	27.0
Repeat visitors 2/ (percent)	60.0	64.0	53.1
Pleasure trip (percent)	81.8	77.4	89.4
In hotel only	63.7	54.1	80.2
Destined beyond Hawaii (percent)	6.9	4.4	11.1

NA Not available.

1/ Senior management, middle management, and professional as a percent of all visitor party heads.

2/ Party heads.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.12-- WESTBOUND VISITORS FROM OTHER STATES BY
AREA OF RESIDENCE: 1997 AND 1998**

[Limited to visitors staying overnight or longer. Includes both visitors destined to and beyond Hawaii]

Residence	1997	1998
United States	3,387,180	3,595,530
Pacific	1,663,760	1,758,770
Alaska	30,970	36,210
California	1,262,570	1,325,080
Oregon	121,700	127,790
Washington	248,520	269,680
Mountain	339,620	348,560
West North Central	166,100	169,430
West South Central	191,440	201,680
East North Central	334,600	355,600
East South Central	67,500	69,660
New England	90,190	91,050
Middle Atlantic	203,840	217,080
South Atlantic	270,350	285,810
Other	59,780	97,890

Source: Hawaii Visitors & Convention Bureau, records.

Table 7.13-- TRIP CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL: 1997 AND 1998

[Limited to visitors staying overnight or longer. Includes both visitors destined to and beyond Hawaii]

Subject	Westbound		Eastbound	
	1997	1998	1997	1998
All visitors 1/	4,077,950	4,245,270	2,798,190	2,492,950
Purpose of visit: 1/				
Pleasure	3,187,090	3,285,150	2,515,890	2,228,290
Honeymoon	262,320	270,120	404,190	327,320
Meetings, conventions, incentive 1/	340,400	378,800	106,170	74,570
Convention	211,310	229,520	39,370	27,950
Corporate meeting	74,400	81,570	33,300	14,410
Incentive	60,020	74,400	34,990	33,030
Other business	176,250	183,100	23,770	27,650
Visit friends or relatives	346,410	351,410	61,990	77,670
Government or military	54,490	57,050	18,540	7,780
Attend school	10,800	12,340	22,720	8,260
Traveler method:				
Tour group	383,760	411,930	1,321,550	1,230,190
Package	1,463,640	1,575,490	2,028,150	1,370,220
Group tour and package	306,660	330,410	1,277,060	913,620
True independent	2,537,210	2,585,500	725,550	802,570
Accommodations:				
Hotel	2,490,310	2,568,220	2,370,040	2,055,220
Hotel only	2,226,280	2,296,410	2,323,760	1,998,800
Condo	1,076,430	1,116,760	284,990	262,080
Condo only	895,550	940,190	252,300	228,840
Friends, relatives	459,850	470,990	68,790	104,170
Cruise ship	55,420	79,450	6,890	4,620
Other accommodations	131,530	102,300	19,750	25,540

1/ Because of multiple responses, detail may add to more than the indicated total.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.14-- CHARACTERISTICS OF VISITOR PARTY HEADS,
BY DIRECTION OF TRAVEL: 1998**

[Limited to visitor party heads staying overnight or longer. Includes both visitors destined to and beyond Hawaii]

Subject	Total	Westbound	Eastbound
All visitor party heads	3,415,640	2,266,600	1,149,040
Occupation:			
Senior management, executive	325,840	244,440	81,400
Middle management	337,830	222,550	115,280
Sales, marketing	322,310	228,670	93,640
Clerical, administration	221,610	94,910	126,700
Professional	615,000	472,610	142,390
Technical, trade	214,710	119,310	95,400
Labor	125,420	26,610	98,810
Farming/Fishing	15,150	9,470	5,680
Homemaker	112,730	54,930	57,800
Military service	43,460	30,150	13,310
Military dependent	5,170	2,750	2,420
Student	240,970	136,430	104,540
Self-employed	257,090	171,410	85,680
Retired	322,290	306,570	15,720
Other non-employed	59,410	20,970	38,440
Other employed	195,080	123,250	71,830
Trips to Hawaii:			
First trip	1,401,470	834,390	567,080
Second trip	651,290	412,250	239,040
Third trip	339,520	219,600	119,920
Fourth trip and over	197,870	145,310	52,560
Persons in party:			
1 person	1,345,050	920,630	424,420
2 persons	1,464,140	1,020,640	443,500
3 persons	235,390	132,980	102,410
4 persons	228,860	124,960	103,900
5 persons or more	75,310	41,360	33,950

Source: Hawaii Visitors & Convention Bureau, records.

Table 7.15-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY DIRECTION OF TRAVEL: 1997 AND 1998

Length of stay	1997			1998		
	Total	West-bound	East-bound	Total	West-bound	East-bound
All visitors	6,876,140	4,077,950	2,798,190	6,738,220	4,245,270	2,492,950
1 to 6 days	3,267,610	1,033,890	2,233,720	2,969,820	1,054,880	1,914,940
7 to 12 days	2,662,180	2,184,450	477,730	2,799,050	2,319,080	479,970
13 to 30 days	858,740	774,700	84,040	877,790	780,390	97,400
31 to 365 days	(NA)	84,910	(NA)	89,010	89,010	-
Median (days)	6.78	8.00	5.00	6.89	8.00	5.00
Mean (days)	8.39	10.29	5.63	8.66	10.29	5.88

NA Not available.

Source: Hawaii Visitors and Convention Bureau, records.

**Table 7.16-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES:
1993 TO 1998**

Subject	1993	1994	1995	1996	1997	1998
Arrivals (1,000)	1,592	1,756	1,999	2,090	2,223	2,009
Average stay (days)	6.1	6.1	6.0	5.8	5.5	5.7
Expenditures (mil. dol.)	3,026	3,657	4,286	3,504	(NA)	(NA)

NA Not available.

Source: Hawaii Visitors & Convention Bureau, *Annual Research Report* (annual) and records.

Table 7.17-- FAMILY INCOME, EDUCATION, TRIP CHARACTERISTICS, AND SATISFACTION OF MAINLANDERS VISITING HAWAII: 1996 AND 1998

Subject	1996 1/	1998 2/
Sample size	1,319	1,689
Family income before taxes (percent)	100.0	100.0
Under \$25,000	8.0	6.0
\$25,000 to \$49,999	23.0	20.0
\$50,000 to \$74,999	22.0	24.0
\$75,000 to \$99,999	15.0	18.0
\$100,000 to \$149,999	12.0	17.0
\$150,000 and over	9.0	15.0
Not reported	11.0	-
Median income (dollars)	(NA)	(NA)
Mean income (dollars)	80,500	(NA)
Education (percent):		
Associate degree	8.0	8.0
Bachelor's or higher	46.0	63.0
Using travel agent (percent)	57.0	58.0
Islands visited (percent):		
Oahu	56.0	52.0
Kauai	22.0	22.0
Maui	46.0	45.0
Hawaii	23.0	23.0
Overall satisfaction (percent):		
Excellent	58.0	68.0
Above average	29.0	31.0
Average or below average	12.0	2.0

NA Not available.

1/ Study not conducted in 1995 and 1997.

2/ No responses are not included.

Source: Hawaii Visitors & Convention Bureau, records.

Table 7.18-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1998

[Dollars. Unweighted averages for Mainlanders before 1988 and for Japanese before 1990]

Year	Mainlanders	Japanese	Year	Mainlanders	Japanese
1931-32 1/	17.50	(NA)	1989	126.57	322.00
1951	28.00	(NA)	1990	136.30	294.04
1960-61	32.00	(NA)	1991	140.54	344.29
1965-66 1/	37.23	(NA)	1992	117.14	344.68
1974	46.20	123.00	1993	116.15	306.54
1977	54.62	146.85	1994	133.79	340.88
1980	71.24	185.00	1995	132.73	356.15
1983	85.88	227.32	1996	137.04	286.89
1986	95.40	299.00	1997	157.07	279.58
1987	102.49	324.00	1998	(NA)	(NA)
1988	121.44	350.00			

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, and records.

Table 7.19-- AVERAGE EXPENDITURE PER VISITOR DAY IN CONSTANT DOLLARS, FOR VISITORS FROM THE MAINLAND: 1931 TO 1998

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/
1931-32 2/	14.4	122	1990	130.7	104
1951	26.0	108	1991	136.2	103
1960-61	29.8	107	1992	140.3	83
1965-66 2/	32.0	116	1993	144.5	80
1974	49.3	94	1994	148.2	90
1977	60.6	90	1995	152.4	87
1980	82.4	86	1996	156.9	88
1983	99.6	86	1997	160.5	98
1986	109.6	87	1998	163.0	(NA)
1989	124.0	102			

1/ In constant (1982-84) dollars.

2/ Oahu only.

Source: Preceding table; U.S. Bureau of Labor Statistics, *CPI Detailed Report*, and <http://stats.bls.gov/blshome.htm>.

Table 7.20-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM THE MAINLAND AND JAPAN, BY EXPENDITURE TYPE: 1996 AND 1997

[In dollars. Excludes transpacific travel costs]

Expenditure type	Visitors from Mainland		Visitors from Japan	
	1996	1997	1996	1997
All items	137.04	157.07	286.89	279.58
Food and beverage	30.76	31.85	39.45	40.09
Restaurants	20.61	18.49	24.77	21.71
Dinner shows	3.70	5.07	3.34	5.81
Dinner or lunch cruise	1.10	3.02	5.32	6.04
Nightclubs, bars	1.92	2.15	0.69	0.63
Groceries	3.43	3.12	5.32	5.89
Entertainment	7.44	12.54	10.74	15.41
Attractions	3.08	7.81	5.22	10.18
Sports, recreation	3.90	3.37	5.25	5.05
Other entertainment	0.46	1.36	0.27	0.18
Transportation	20.05	23.96	12.21	16.52
Ground transportation	0.69	1.00	1.57	2.78
Rental vehicles	8.58	7.29	1.24	2.49
Interisland travel	4.71	6.01	4.11	3.32
Gasoline	1.01	1.27	0.07	0.15
Parking	0.55	0.84	0.04	0.01
Sightseeing tours	4.51	7.55	5.18	7.64
Clothing	8.01	8.38	30.74	29.19
Other fashion 1/	5.95	6.23	69.39	66.98
Agriculture	1.79	1.79	4.58	5.13
Communication	0.68	0.64	0.62	0.76
Personal service	1.32	1.43	2.08	2.39
Lodging	49.33	59.78	73.49	79.60
Souvenirs	4.43	5.04	12.08	13.60
All other	5.56	3.81	7.81	7.30
Adjustment 2/	1.72	1.62	23.70	2.61
Duty-free 3/	-	-	21.13	-
Not duty-free	137.04	157.07	265.76	279.58

1/ Jewelry, cosmetics, leather goods, etc.

2/ Visitors estimate of amount excluded from listed categories and unaccounted expenditures.

3/ For 1997, Duty-free numbers have been distributed among the various categories.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.21-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM
MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS:
1995 AND 1996**

[Dollars]

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1995	1996	1995	1996
All visitors	132.73	137.04	356.15	286.89
Islands:				
Oahu	118.53	117.03	(NA)	(NA)
Neighbor Islands	153.63	155.52	(NA)	(NA)
Group tour status:				
Organized group tour	130.42	126.36	(NA)	(NA)
Individually arranged	135.98	136.83	(NA)	(NA)
Arrived on package tour:				
Yes	128.98	133.85	(NA)	(NA)
No	135.68	137.04	(NA)	(NA)
Accommodations:				
Hotel only	135.72	138.50	(NA)	(NA)
Condo only	114.57	119.35	(NA)	(NA)
Guests of friends and relatives	134.60	114.13	(NA)	(NA)
Other	112.30	122.01	(NA)	(NA)
Length of stay:				
1 to 6 days	131.85	133.76	(NA)	(NA)
7 to 12 days	133.35	136.17	(NA)	(NA)
13 days or longer	116.71	123.10	(NA)	(NA)
Previous visits:				
First trip	134.54	136.46	(NA)	(NA)
Repeat visitors	130.58	133.96	(NA)	(NA)

Continued on next page.

**Table 7.21-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM
MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS:
1995 AND 1996 - Con.**

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1995	1996	1995	1996
Party size:				
1 person	204.25	192.89	(NA)	(NA)
2 persons	143.52	151.09	(NA)	(NA)
3 persons	113.56	117.87	(NA)	(NA)
4 persons or more	93.39	96.76	(NA)	(NA)
Purpose of trip:				
Pleasure	132.17	135.03	(NA)	(NA)
Business: Meetings, conventions, incentive	161.65	144.49	(NA)	(NA)
Other business	161.48	145.10	(NA)	(NA)
Time of year:				
First quarter	136.27	135.13	(NA)	(NA)
Second quarter	128.54	129.01	(NA)	(NA)
Third quarter	127.91	131.71	(NA)	(NA)
Fourth quarter	135.87	144.39	(NA)	(NA)
Children in party:				
Yes	97.78	98.47	(NA)	(NA)
No	141.91	147.45	(NA)	(NA)
On honeymoon:				
Yes	154.40	180.46	(NA)	(NA)
No	130.27	130.46	(NA)	(NA)

NA Not available.

Source: Hawaii Visitors & Convention Bureau, records.

Table 7.22-- ESTIMATED VISITOR EXPENDITURES: 1951 TO 1998

[Millions of dollars. Excludes expenditures by Hawaii residents for all years and additional business expenditures by MCI (meetings, conventions, and incentive) visitors before 1985]

Year	Personal expenditures	Year	Personal expenditures	Year	Personal expenditures	Additional business expend. 1/
1951	24	1967	380	1983	3,974	...
1952	33	1968	440	1984	4,582	...
1953	43	1969	550	1985	4,942	301.6
1954	49	1970	595	1986	5,753	351.1
1955	55	1971	705	1987	6,473	395.1
1956	65	1972	840	1988	8,038	490.6
1957	78	1973	1,020	1989	8,748	533.9
1958	83	1974	1,225	1990	9,363	375.4
1959	109	1975	1,360	1991	9,820	813.5
1960	131	1976	1,640	1992	8,862	697.3
1961	137	1977	1,845	1993	8,014	664.0
1962	154	1978	2,146	1994	9,893	709.9
1963	186	1979	2,537	1995	10,403	1,040.1
1964	205	1980	2,875	1996	10,086	598.0
1965	225	1981	3,200	1997	10,381	388.8
1966	280	1982	3,700	1998	(NA)	(NA)

NA Not available.

1/ By MCI (meetings, conventions, and incentive) visitors. For discussion, see Hawaii Visitors Bureau, *The 1990 Visitor Expenditure Report* (1991), pp. 35-40. Not available before 1985.

Source: Hawaii Visitors Bureau, *1986 Annual Research Report*, p. 1; *1994 Annual Research Report*, p. 47; *Market Research Flash*, May 14, 1997; and Hawaii Visitors & Convention Bureau, records.

**Table 7.23-- VISITOR EXPENDITURES, BY COUNTRY OF RESIDENCE:
1985 TO 1998**

[In thousands of dollars]

Year	Total expenditures	Personal (diary) expenditures				Additional business (MCI) expenditures
		All countries	United States	Japan	Other countries	
1985	5,243,645	4,942,011	3,403,234	983,312	555,465	301,634
1986	6,103,776	5,752,663	3,826,699	1,295,783	630,181	351,113
1987	6,867,631	6,472,578	4,034,545	1,702,125	735,908	395,053
1988	8,528,070	8,037,503	4,659,896	2,553,464	824,143	490,567
1989	9,281,843	8,747,916	5,197,905	2,513,723	1,036,288	533,927
1990	9,738,602	9,363,244	5,661,847	2,500,138	1,201,259	375,358
1991	10,633,836	9,820,302	5,751,981	2,796,973	1,271,348	813,534
1992	9,558,880	8,861,601	4,230,817	3,236,739	1,394,045	697,279
1993	8,677,585	8,013,625	3,909,751	3,025,880	1,077,994	663,960
1994	10,603,172	9,893,275	4,810,573	3,657,124	1,425,578	709,897
1995	11,443,746	10,403,593	4,750,290	4,285,607	1,367,696	1,040,153
1996	10,684,756	10,086,740	4,954,892	3,503,800	1,628,048	598,016
1997	10,770,141	10,381,299	5,691,122	3,213,750	1,476,427	388,842
1998	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii Visitors Bureau, "Revised Historical Visitor Expenditures Estimate," table, June 7, 1993; *Visitor Expenditures 1993* (1994), p. 59; *1994 Annual Research Report* (1996), p.47; Hawaii Visitors & Convention Bureau, *Hawaii Visitors & Convention Bureau 1995 & 1996 Research Report*, p. 109-110; and records.

Table 7.24-- VISITOR EXPENDITURES, BY DIRECTION OF TRAVEL AND ISLANDS: 1993 TO 1997

[In thousands of dollars]

Direction of travel and island	1993	1994	1995	1996	1997
Total	8,677,585	10,603,172	11,443,746	10,684,756	10,770,141
Direction of travel:					
Westbound	5,120,468	6,253,033	6,490,241	6,297,727	6,904,454
Eastbound	3,557,117	4,350,139	4,953,505	4,387,029	3,865,687
Island:					
Oahu	4,870,071	6,107,237	(NA)	(NA)	(NA)
Maui	2,126,709	2,531,596	(NA)	(NA)	(NA)
Kauai	547,702	637,734	(NA)	(NA)	(NA)
Hawaii	1,012,636	1,185,845	(NA)	(NA)	(NA)
Molokai	68,227	68,334	(NA)	(NA)	(NA)
Lanai	52,240	72,426	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii Visitors Bureau, *1991 Island Supplement* (1992), p. 20; *1992 Island Supplement* (1993), p. 21; *Visitor Expenditures 1993* (1994), p. 59; *1994 Annual Research Report* (1996), p. 43; Hawaii Visitors & Convention Bureau, *Hawaii Visitors & Convention Bureau 1995 & 1996 Research Report*, p. 109-110, and records.

**Table 7.25-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES:
1985 TO 1998**

[In millions of dollars]

Year	Total	Visitors 1/	Overseas airlines 2/
1985	5,436.6	5,243.6	193.0
1986	6,296.1	6,103.8	192.3
1987	7,128.9	6,867.6	261.3
1988	8,813.8	8,528.1	285.7
1989	9,613.4	9,281.8	331.6
1990	10,109.2	9,738.6	370.6
1991	11,039.5	10,633.8	405.7
1992	10,020.1	9,558.9	461.2
1993	9,125.1	8,677.6	447.5
1994	11,035.7	10,603.2	432.5
1995	12,027.0	11,587.7	439.3
1996	11,126.6	10,684.8	441.8
1997	11,231.7	10,770.1	461.6
1998 3/	11,594.7	11,133.3	461.4

1/ Includes airline and ship crews' expenditures. Estimated by the Hawaii Visitors Bureau.

2/ Includes payroll, fuel taxes, and landing fees.

3/ Preliminary estimate.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Hawaii's Economy*, July 1999, p. 6.

Table 7.26-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1985 TO 1998

Year	Visitor-related expenditures 1/ (million dollars)	Gross State Product (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs 2/ (1,000)
1985	5,436.6	3,648.0	2,207.3	343.4	129.8
1986	6,296.1	4,224.7	2,556.2	397.7	133.1
1987	7,128.9	4,783.5	2,894.3	496.4	139.7
1988	8,813.8	5,914.0	3,578.4	618.6	147.4
1989	9,613.4	6,450.6	3,903.1	680.3	156.7
1990	10,109.2	6,783.3	4,104.3	714.0	163.1
1991	11,039.5	7,407.5	4,482.1	797.6	168.1
1992	10,020.1	6,262.6	3,952.0	752.7	181.6
1993	9,125.1	5,703.2	3,599.0	687.2	176.3
1994	11,035.7	6,897.3	4,352.6	826.4	176.4
1995	12,027.0	7,516.9	4,743.5	912.0	177.7
1996	11,126.6	6,954.1	4,388.4	870.0	179.6
1997	11,231.7	7,019.8	4,429.9	880.0	180.7
1998 3/	11,594.7	7,246.7	4,573.0	903.3	180.1

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct and indirect.

3/ Preliminary estimate.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Hawaii's Economy*, July 1999, p.6.

Table 7.27-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES: 1980 TO 1998

Year	Implicit price deflator 1/ (1987=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/	Eating out	Apparel, upkeep	All items
1980	74.7	47.28	211.08	41.00	81.0	89.8	83.0
1981	78.0	49.73	296.09	51.00	88.5	94.5	91.7
1982	83.7	51.78	328.10	48.00	95.5	98.4	97.2
1983	87.2	54.78	353.14	49.95	100.1	101.4	99.3
1984	90.5	59.25	353.14	49.95	104.5	100.2	103.5
1985	93.5	68.84	364.00	44.95	108.6	99.6	106.8
1986	95.6	73.20	364.00	46.95	111.4	99.8	109.4
1987	100.0	80.09	486.00	48.95	115.6	102.5	114.9
1988	105.3	87.94	494.00	48.95	121.0	106.8	121.7
1989	110.6	95.83	524.00	44.95	122.2	104.3	128.7
1990	117.7	102.10	560.00	54.95	128.0	107.0	138.1
1991	125.0	101.89	642.00	65.95	133.6	110.5	148.0
1992	131.0	105.59	400.00	69.95	137.8	114.2	155.1
1993	134.5	103.26	566.00	74.00	141.9	116.5	160.1
1994	137.8	105.46	566.00	74.00	146.4	118.7	164.5
1995	140.5	110.27	596.00	74.00	149.2	117.5	168.1
1996	142.6	127.95	530.00	85.00	150.8	118.5	170.7
1997	143.5	137.06	521.00	80.00	152.6	117.3	171.9
1998	143.2	140.63	521.00	88.00	153.3	112.2	171.5

NA Not available.

1/ Hawaii State Department of Business, Economic Development, & Tourism, calculations.

2/ From Pannell Kerr Forster, *Trends in the Hotel Industry, Hawaii* (monthly).

3/ Unrestricted Coach or Economy weekday fare, including taxes as of July 1, by United Airlines. From chronology in *Data Book*, 1980-1998.

4/ Regular fare, including taxes, as of July 1, by Hawaiian Airlines. From chronology in *Data Book*, 1984-1998 and Hawaiian Airlines, records.

5/ Honolulu CPI for all urban consumers, from U.S. Bureau of Labor Statistics.

Source: See above footnotes.

Table 7.28-- HAWAII VISITORS & CONVENTION BUREAU INCOME AND EXPENDITURES: 1995 TO 1999

[In dollars. Years ended June 30]

Year	Income					Expenditures
	Total	State appropriations 1/	Private subscriptions	Advertising co-op 2/	Other 3/	
1995	31,834,278	25,450,629	2,159,198	3,997,378	227,073	34,728,853
1996	32,806,193	23,000,000	1,931,298	7,751,664	123,231	30,140,658
1997	49,834,793	34,550,000	2,168,905	13,016,147	99,741	49,530,885
1998	35,808,190	29,150,000	2,478,190	4,000,000	180,000	(NA)
1999 4/	55,492,469	36,970,000	2,492,868	16,029,601	(NA)	(NA)

NA Not available.

1/ Net after refunds (if any) to the state.

2/ Cash or in-kind contributions from the private sector to match state funding for generic advertising that promotes the Hawaiian Islands as a preferred visitor destination. Not included as a separate category prior to fiscal year 1995.

3/ May include income from Federal grants, mainland promotional programs, literature sales, convention servicing, and interest.

4/ \$12,970,000 State General Fund, \$24,000,000 Tourism Special Fund

Source: KPMG Peat Marwick LLP, *Hawaii Visitors Bureau, Financial Statements and Schedules* (annual); *Hawaii Visitors and Convention Bureau, Financial Statements and Schedules June 30, 1995 to 1997*. and records.

**Table 7.29-- RETURNING RESIDENTS AND AVERAGE NUMBER ABSENT,
BY DIRECTION OF TRAVEL: 1991 TO 1998**

Year	Number returning			Average number absent		
	Total	Westbound	Eastbound	Total	Westbound	Eastbound
1991	387,560	311,760	75,800	16,590	12,520	4,070
1992	706,400	642,440	63,960	37,080	32,960	4,120
1993	779,350	716,100	63,250	49,117	44,890	4,227
1994	792,450	738,540	53,910	50,190	46,150	4,040
1995	795,531	755,941	39,590	50,562	47,862	2,700
1996	786,920	760,700	26,220	51,692	49,840	1,851
1997	810,840	796,650	14,190	35,808	35,467	341
1998	771,960	759,280	12,680	31,743	31,391	353

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.30-- PASSPORTS ISSUED BY THE HONOLULU PASSPORT AGENCY:
1995 TO 1998**

[Calendar year data. The area served by the Honolulu Passport Agency includes Hawaii, American Samoa, Guam, the Northern Mariana Islands, Palau, the Federated States of Micronesia, the Republic of the Marshall Islands, and Taiwan (beginning in calendar year 1997)]

Mailing address	1995	1996	1997	1998
Issued by Honolulu Office	60,149	65,404	66,607	66,472
Mailed to Hawaii addresses	41,638	43,243	43,790	43,490
Mailed outside the state	18,511	22,161	22,817	22,982

Source: U.S. Department of State, Honolulu Passport Agency, records.

Table 7.31-- PERFORMING ARTS, FOR OAHU: 1996-1997 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	47	757	225,066
Diamond Head Theatre	7	120	48,000
Hawaii Pacific University (Hawaii Loa Campus)	2	26	2,080
Honolulu Theatre for Youth	10	354	123,265
Manoa Valley Theatre	6	116	13,584
U.S. Army Community Theatre	4	36	13,614
University of Hawaii at Manoa	18	105	24,523

Source: Hawaii State Department of Business, Economic Development & Tourism mail and telephone survey.

Table 7.32-- PERFORMING ARTS, FOR OAHU: 1997-1998 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	45	737	218,612
Diamond Head Theatre	7	101	37,875
Hawaii Pacific University (Hawaii Loa Campus)	2	26	2,080
Honolulu Theatre for Youth	9	340	120,090
Manoa Valley Theatre	6	116	12,270
U.S. Army Community Theatre	4	36	14,877
University of Hawaii at Manoa	17	118	31,420

Source: Hawaii State Department of Business, Economic Development & Tourism mail and telephone survey.

**Table 7.33-- SYMPHONY ORCHESTRA ACTIVITIES:
1986-1987 TO 1997-1998**

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
HONOLULU SYMPHONY ORCHESTRA				
1986-1987 1/	80	85	139,703	2,394,804
1987-1988	79	127	184,897	4,143,347
1988-1989	80	134	215,808	4,234,275
1989-1990	80	141	183,434	4,978,813
1990-1991	80	101	160,214	5,465,467
1991-1992	80	127	204,253	6,160,301
1992-1993	80	127	194,866	5,983,729
1993-1994 2/	-	-	-	1,380,547
HAWAII SYMPHONY ORCHESTRA				
1994-1995 3/	62	115	120,000	4,700,000
HONOLULU SYMPHONY ORCHESTRA				
1995-1996 4/	80	45	65,000	2,343,305
1996-1997 5/	80	47	73,596	3,919,708
1997-1998	80	48	79,605	5,044,888

1/ Season shortened by musicians' strike, August 8-November 26, 1986.

2/ Concert season eliminated by musicians' strike.

3/ First season in operation. The attendance total is estimated.

4/ 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.

5/ Recording of expenses in compliance with FASB 116 & 117 pertaining to not-for-profit corporations, for 18 week season.

Source: Honolulu Symphony Society, records; Hawaii Symphony Orchestra, records.

**Table 7.34-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRactions: 1996 TO 1998**

[Calendar year data unless otherwise specified]

Island and cultural attraction	1996	1997	1998
OAHU			
Bernice P. Bishop Museum 1/	445,508	493,866	477,609
Byodo-In Temple	106,712	128,596	117,343
The Contemporary Museum 2/	34,343	34,276	34,830
Damien Museum and Archives	10,131	10,134	10,095
Diamond Head State Monument 3/	1,000,000	1,000,000	1,000,000
Foster Botanical Garden	51,497	48,461	46,863
Fred Ohrt Water Museum 4/	(NA)	4,236	3,821
Halawa Shaft 5/	(NA)	7,680	3,762
Halawa Xeriscape Garden 1/	(NA)	9,714	9,975
Harold L. Lyon Arboretum	29,500	29,500	29,500
Hawaii Children's Museum 6/	-	(NA)	(NA)
Hawaii Maritime Center	(NA)	(NA)	(NA)
Hawaii Nature Center	50,875	46,591	(NA)
Honolulu Academy of Arts	217,888	222,150	215,219
Honolulu Zoo	639,754	634,105	622,517
Ho'omaluhia Botanical Garden	79,706	85,456	86,406
Iolani Palace State Monument 1/	67,892	70,365	71,083
Judiciary History Center	56,059	44,241	35,455
Mission Houses Museum	25,000	23,000	19,500
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center)	120,472	(NA)	(NA)
National Memorial Cemetery of the Pacific	(NA)	(NA)	(NA)
Pacific Aerospace Museum	46,220	44,300	42,500
Polynesian Cultural Center	940,253	(NA)	(NA)
Puu o Mahuka Heiau State Monument 3/	(NA)	20,000	20,000
Queen Emma Summer Palace	31,773	33,222	17,257
Royal Mausoleum State Monument 3/	(NA)	115,000	115,000
Sea Life Park Hawaii	515,000	457,000	407,242
Senator Fong's Plantation and Gardens	95,975	100,058	105,242
Tropic Lightning Museum 7/	9,733	10,476	10,738
Ulu Po Heiau State Monument 3/	(NA)	5,000	5,000
U.S. Army Museum, Ft. DeRussy 7/	114,969	124,083	125,428
U.S.S. Arizona Memorial	1,423,805	1,412,484	1,366,499
U.S.S. Bowfin Submarine Museum	180,227	162,296	164,333
University of Hawaii Art Gallery	50,000	50,000	50,000
Waikiki Aquarium 1/	373,818	336,849	346,668
Waimea Falls Park	402,900	371,848	284,628
Waipahu Cultural Garden Park	29,527	28,618	30,678

Continued on next page.

**Table 7.34-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1996 TO 1998 - Con.**

Island and cultural attraction	1996	1997	1998
HAWAII			
Astronaut Ellison S. Onizuka Space Center	20,159	18,468	17,631
Hawaii Tropical Botanical Garden	39,419	40,320	49,445
Greenwell Store Museum	6,000	7,000	7,050
Hawaii Volcanoes National Park 8/ Hulihee Palace 9/ Lyman House Memorial Museum 10/ Panaewa Rainforest Zoo	2,551,293	2,977,956	2,653,330
Parker Ranch Historic Homes	14,444	5,290	3,725
Parker Ranch Visitor Center	15,428	16,665	18,074
Volcano Art Center	85,000	94,000	102,500
Wailoa Center 1/	53,000	56,000	60,000
MAUI			
Alexander & Baldwin Sugar Museum	23,676	27,748	27,832
Halekii-Pihana Heiaus State Monument 1/ Hana Cultural Center	9,050	10,150	(NA)
Hawaii Nature Center	11,680	(NA)	(NA)
Iao Valley State Monument 1/ Kula Botanical Gardens	10,600	25,200	55,699
Lahaina Restoration Foundation	651,600	710,000	(NA)
Baldwin Missionary Home Museum	22,470	23,100	23,800
Brig <i>Carthaginian</i>	202,350	202,556	213,192
Hale Pa'ahao (Old Lahaina Prison)	48,250	50,180	56,703
Hale Pa'i Printing House	65,300	62,688	57,673
Wo Hing Temple Museum	30,800	31,800	32,347
Maui Historical Society Bailey House Museum	8,200	10,578	4,020
Maui Ocean Center	49,800	47,310	62,449
Maui Tropical Plantation	14,140	14,000	14,000
Whale Center of the Pacific	(NA)	(NA)	(NA)
	(NA)	(NA)	(NA)
	445,384	436,246	426,132
KAUAI			
Grove Farm Homestead	2,356	3,417	3,428
Kauai Museum	24,835	25,000	30,000
Kilauea National Wildlife Refuge 11/ Kokee Natural History Museum	400,000	400,000	400,000
National Tropical Botanical Garden	128,190	25,138	31,126
Waioli Mission House 12/	21,920	-	735
	-	-	

Continued on next page.

**Table 7.34-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRactions: 1996 TO 1998 - Con.**

Island and cultural attraction	1996	1997	1998
MOLOKAI			
Kalaupapa Settlement	8,995	9,589	11,658

NA Not available.

1/ Years ended June 30.

2/ The Contemporary Museum also manage the Honolulu Advertiser Gallery (1997 attendance--17,000, closed in 1998) and the First Hawaii Center Gallery (1997 attendance--30,000, 1998 attendance 30,000).

3/ Years ended June 30. 1996-98 Data estimates.

4/ Years ended June 30. The Fred Oht Museum was unavailable for tours for two months.

5/ Years ended June 30. The Halawa Shaft was closed down from 8/7/97 to 2/5/98 for equipment maintenance.

6/ Closed May 1994 to 1996 will reopen as Children's Discovery Center.

7/ Fiscal Year starts in October 1 and ends in September 30.

8/ Kilauea Visitor Center and Jagger Museum are included in the total attendance at Hawaii Volcanoes National Park.

9/ Closed for repairs 1-1/2 months in 1996.

10/ Closed to the public for a major building addition and renovations from June to December 1996. Reopened on March 3, 1997.

11/ 1996-98 data estimates.

12/ Closed for repairs all of 1996 & 1997, opened June 1998.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual mail and telephone survey of attractions.

**Table 7.35-- CHARACTERISTICS OF MUSEUMS AND
OTHER CULTURAL ATTRACTIONS: 1996**

Characteristic	Amount
Number of establishments	94
Museums, galleries, arboretums	65
Annual revenues (\$1,000)	153,563.8
Percent from sources outside Hawaii	29.7
Total paid employment	3,302
Full-time equivalent	2,168
Full-time employment	1,900
Part-time employment	1,402
Full-time equivalent	268
Labor income (\$1,000)	74,809.5
Wages and salaries	59,294.5
Fringe benefits	15,514.6
Average earning per full-time employee (dollars)	34,506
Total attendance (1,000)	20,129.8
Total impact on--	
State economic output (\$1,000)	339,400
Household income (\$1,000)	142,500
Employment	5,163

Source: Juanita C. Liu, *The Economic Impact of Hawai`i Museums on the Local Economy* (Hawai`i Museums Association, September 8, 1997), tables 1 and 3.

Table 7.36-- NATIONAL PARKS: 1990 TO 1998

Year and area	Acreage, Dec. 31 1/			Visits
	Total	Federal	Non-federal	
1990	247,349	235,885	11,464	5,607,148
1991	247,349	235,885	11,464	5,853,497
1992	247,349	235,885	11,464	5,701,769
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
AREAS: 1998				
Hawaii Volcanoes National Park	207,643	207,643	-	2,653,330
Haleakala National Park	27,350	27,350	-	1,505,930
Pu'uuhonua o Honaunau National Historical Park	181	181	-	492,210
Kaloko-Honokohau National Historical Park	1,161	616	545	56,584
Pu'ukohola Heiau National Historic Site	100	60	40	199,871
U.S.S. Arizona Memorial 2/	12	12	-	1,366,499
Kalaupapa National Historical Park 3/	10,902	23	10,879	(NA)

NA Not available.

1/ Data exclude the Oloa Forest Tract. This 9,654-acre tract is entirely in Federal ownership, is managed by the National Park Service, and has been designated as part of the wilderness system by the Congress, but it is not within the legally authorized boundary of the Hawaii Volcanoes National Park.

2/ The U.S.S. Arizona Memorial is wholly within the Pearl Harbor Naval Base. The acreage figure is the approximate extent of the total area over which the National Park Service has been granted use rights by the U.S. Navy.

3/ As of 1998 National Park Service is not yet keeping visitation figures.

Source: U.S. Department of the Interior, National Park Service, Pacific Island System Support Office, records.

Table 7.37-- STATE PARKS AND HISTORIC SITES: 1986 TO 1997

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1986	74	24,865	882.1	19,680
1987	76	24,909	883.6	20,068
1988	76	24,853	884.9	18,488
1989	77	24,877	887.6	17,270
1990	77	24,857	887.3	19,727
1991	77	24,896	897.3	19,023
1992	80	25,056	921.7	19,255
1993 1/	70	24,779	772.7	15,112
1994	69	24,790	772.2	14,260
1995	69	25,476	772.2	(NA)
1996	68	26,783	772.2	(NA)
1997	67	26,811	771.7	(NA)
ISLANDS: 1995				
Hawaii	18	1,375	275.2	(NA)
Maui	9	332	37.9	(NA)
Molokai	1	234	10.0	(NA)
Oahu	31	9,776	318.5	(NA)
Kauai	10	13,759	130.6	(NA)
ISLANDS: 1996				
Hawaii	17	2,663	275.2	(NA)
Maui	9	332	37.9	(NA)
Molokai	1	234	10.0	(NA)
Oahu	31	9,796	318.5	(NA)
Kauai	10	13,759	130.6	(NA)
ISLANDS: 1997				
Hawaii	16	2,690	274.7	5259
Maui	9	332	37.9	(NA)
Molokai	1	234	10.0	(NA)
Oahu	31	9,796	318.5	(NA)
Kauai	10	13,756	130.6	(NA)

1/ Declines since 1992 reflect transfer of 9 areas to the counties, and also closure of all Kauai state parks from Sept. 11, 1992 to March 20, 1993 because of damage caused by Hurricane Iniki.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, records.

Table 7.38-- MAJOR STATE PARKS: 1997

[Parks having at least 700,000 recreation visits or 1,000 acres]

Park	Acreage, June 30 1/		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
Old Kona Airport State Rec. Area	63.6	21.5	1,146
Hapuna Beach State Rec. Area	103.7	20.4	1,217
Wailua River State Park	1,093.0	37.4	(NA)
Wailuku River State Park	16.3	3.5	904
Akaka Falls State Park	65.4	6.0	664
Haena State Park	131.9	97.7	589
Waimea Canyon State Park	1,866.4	10.0	(NA)
Koikee State Park	4,345.0	55.0	(NA)
Kahana Valley State Park	5,256.5	26.0	(NA)
Sacred Falls State Park	6,175.0	4.0	(NA)
Na Pali Coast State Park	1,375.9	10.0	(NA)

NA Not available.

1/ Acreage for years 1995, 1996 and 1997 have remained constant, and recreation visits numbers were not available for years 1995 and 1996.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, records.

**Table 7.39-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS:
1997 AND 1998**

[As of December 31]

Island	Total sites	Listed Hawaii Register only	Listed National Register only	Listed both Hawaii and National Register	Eligible for National Register 1/
1997					
State total	629	270	109	215	35
Hawaii	121	53	23	40	5
Maui	63	38	4	20	1
Kahoolawe	1	-	1	-	-
Lanai	2	-	-	2	-
Molokai	93	41	10	40	2
Oahu	268	101	67	78	22
Kauai	81	37	4	35	5
1998					
State total	641	279	110	217	35
Hawaii	123	55	23	40	5
Maui	63	37	4	21	1
Kahoolawe	1	-	1	-	-
Lanai	2	-	-	2	-
Molokai	93	41	10	40	2
Oahu	278	109	68	79	22
Kauai	81	37	4	35	5

1/ Sites declared eligible for National Register listing by the National Board.

Source: Hawaii State Department of Land and Natural Resources, State Historic Preservation Division, records.

Table 7.40-- ZOOS: 1995 TO 1998

Subject and Zoo	1995	1996	1997	1998
Species: 1/				
Honolulu Zoo	289	300	314	304
Maui Zoological & Botanical Gardens 2/	32	-	-	-
Molokai Ranch Wildlife Conservation Park 3/	(NA)	-	-	-
Panaewa Rainforest Zoo (Hilo)	54	59	65	70
Individuals: 1/				
Honolulu Zoo	1,353	1,311	1,364	1,335
Maui Zoological & Botanical Gardens 2/	119	-	-	-
Molokai Ranch Wildlife Conservation Park 3/	(NA)	-	-	-
Panaewa Rainforest Zoo (Hilo)	182	191	196	200
Attendance:				
Honolulu Zoo	715,046	639,754	634,105	622,517
Maui Zoological & Botanical Gardens 2/	60,000	-	-	-
Molokai Ranch Wildlife Conservation Park 3/	1,891	-	-	-
Panaewa Rainforest Zoo (Hilo)	75,563	73,400	77,790	76,574

NA Not available.

1/ Animal and bird inventory, December 31.

2/ Closed permanently, December 31, 1995.

3/ Closed from August 1993 to May 1994 for renovation, closed permanently in 1996.

Source: Data obtained by Hawaii State Department of Business, Economic Development & Tourism from Molokai Ranch Wildlife Conservation Park, the parks and recreation departments of the City and County of Honolulu and Counties of Hawaii and Maui, and the Honolulu Zoo records.

Table 7.41-- AQUATIC COLLECTIONS: 1998 AND 1999

[For annual attendance, see table 7.35]

Phylum or class	Sea Life Park, June 30,1999		Waikiki Aquarium, June 30, 1998	
	Species	Individuals	Species	Individuals
Total	206	4,958	401	2,355
Fishes	94	804	201	584
Reptiles	2	31	1	2
Mammals	1/ 6	1/ 71	1	3
Invertebrates	95	4,000	198	1,766
Birds	9	52	-	-

1/ Plus 2 hybrid dolphin/whales.

Source: Sea Life Park, records; Waikiki Aquarium, records.

Table 7.42-- COUNTY PARKS, BY ISLANDS: 1996 TO 1998

[As of December 31]

Island	Number			Acreage		
	1996	1997	1998	1996	1997	1998
State totals	617	(NA)	(NA)	8,920	6,580	6,768
Hawaii	135	135	135	1,361	1,361	1,361
Maui	110	113	115	873	935	1,054
Lanai	4	4	4	15	15	15
Molokai	13	13	13	73	73	73
Oahu 1/	291	(NA)	(NA)	6,195	3,793	3,862
Kauai	64	64	64	403	403	403

1/ 1997 and 1998 numbers exclude Botanical Gardens, Zoo & Golf Courses.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from data provided by County parks and recreation departments.

Table 7.43-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1997

Beach park	Estimated attendance 1/	Rescues	Drownings	Surfing accidents
All parks	20,658,604	1,454	8	405
Ala Moana	1,601,373	80	2	16
Waikiki	9,536,234	384	1	129
Hanauma	2,207,953	231	2	1
Sandy	513,349	175	1	51
Makapuu	198,115	76	-	5
Bellows	101,829	3	-	-
Kailua	579,719	6	-	-
Kualoa	115,506	2	-	-
Waimanalo	231,500	13	-	4
Sunset	716,912	47	-	19
Ehukai	744,768	62	1	67
Ke Waena	344,628	8	1	11
Waimea	984,776	121	-	27
Alii	440,407	99	-	15
Nanakuli	513,673	27	-	6
Depots	107,700	58	-	6
Maili	409,269	41	-	17
Pokai Bay	605,453	18	-	3
Makaha	574,024	25	-	16
Keauwaula	230,476	14	-	12

1/ Based on headcounts taken at approximately two-hour intervals 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 7.44-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1998

Beach park	Estimated attendance 1/	Rescues	Drownings	Surfing accidents
All parks	18,176,702	1,107	4	374
Ala Moana	1,338,993	45	-	11
Waikiki	7,114,656	159	-	195
Hanauma	2,673,375	240	2	-
Sandy	631,254	106	-	36
Makapuu	232,667	48	1	3
Bellows	329,685	4	-	-
Kailua	469,051	4	-	1
Kualoa	389,884	13	-	-
Waimanalo	258,571	10	-	3
Sunset	638,641	45	-	9
Ehukai	526,716	72	-	48
Ke Waena	335,850	13	-	11
Waimea	917,367	177	-	16
Alii	324,229	39	-	6
Nanakuli	524,530	46	-	5
Maili	340,923	32	-	3
Pokai Bay	491,687	9	1	3
Makaha	466,694	23	-	10
Keauwaula	171,928	20	-	13

1/ Based on headcounts taken at approximately two-hour intervals 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 7.45-- SWIMMING AND SURFING SITES, BY ISLANDS

Subject	Six islands	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Miles of sandy shoreline 1/	184.9	19.4	32.6	18.2	23.2	50.3	41.2
Primary 2/	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 3/	1,600	185	212	99	180	594	330

1/ Surveyed in 1962.

2/ Safe, clean, accessible, and generally suitable for swimming.

3/ 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; Surfing Education Association, *The 1971 Statewide Surfing Site Survey*, Vol. 1, p. 93.

Table 7.46-- COUNTY TENNIS FACILITIES: 1996 TO 1998

[As of December 31]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Locations:							
1996	89	20	11	1	1	47	9
1997	(NA)	20	11	1	1	(NA)	9
1998	(NA)	20	11	1	1	(NA)	9
Courts:							
1996	291	45	39	2	2	181	22
1997	307	45	39	2	2	197	22
1998	311	45	39	2	2	201	22

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the County parks and recreation departments.

Table 7.47-- GOLF COURSES, BY NUMBER OF HOLES, OWNERSHIP, AND ISLANDS: EARLY 1997

Status, island, and ownership	Number of golf courses						Number of holes
	Total	9-hole	18-hole	27-hole	36-hole	54-hole	
State total	73	11	54	1	5	2	1,386
Hawaii	16	2	12	-	2	-	306
Municipal	1	-	1	-	-	-	18
Private	15	2	11	-	2	-	288
Maui	9	1	3	-	3	2	279
Municipal	1	-	1	-	-	-	18
Private	8	1	2	-	3	2	261
Lanai	3	1	2	-	-	-	45
Private	3	1	2	-	-	-	45
Molokai	2	1	1	-	-	-	27
Private	2	1	1	-	-	-	27
Oahu	35	5	30	-	-	-	585
Military	9	3	6	-	-	-	135
Municipal	6	1	5	-	-	-	99
Private	20	1	19	-	-	-	351
Kauai	8	1	6	1	-	-	144
Municipal	1	-	1	-	-	-	18
Private	7	1	5	1	-	-	126

Source: Compiled by Hawaii State Department of Business, Economic Development & Tourism from County departments of parks and recreation.

Table 7.48-- GOLF COURSES, BY NUMBER OF HOLES, OWNERSHIP, AND ISLANDS: EARLY 1998

Status, island, and ownership	Number of golf courses						Number of holes
	Total	9-hole	18-hole	27-hole	36-hole	54-hole	
State total	77	11	57	2	5	2	1,458
Hawaii	16	2	12	-	2	-	306
Municipal	1	-	1	-	-	-	18
Private	15	2	11	-	2	-	288
Maui	9	1	3	-	3	2	279
Municipal	1	-	1	-	-	-	18
Private	8	1	2	-	3	2	261
Lanai	3	1	2	-	-	-	45
Private	3	1	2	-	-	-	45
Molokai	2	1	1	-	-	-	27
Private	2	1	1	-	-	-	27
Oahu	39	5	33	1	-	-	657
Military	9	3	6	-	-	-	135
Municipal	6	1	5	-	-	-	99
Private	24	1	22	1	-	-	423
Kauai	8	1	6	1	-	-	144
Municipal	1	-	1	-	-	-	18
Private	7	1	5	1	-	-	126

Source: Compiled by Hawaii State Department of Business, Economic Development & Tourism from County departments of parks and recreation.

Table 7.49-- AVERAGE ANNUAL GOLF ROUNDS, TOTAL GOLF REVENUES AND TOTAL MIX OF PLAY: 1995 AND 1996

Subject	1995	1996
Average annual rounds played per course (Statewide)	55,155	58,499
Oahu	65,769	69,632
Maui County	35,743	36,849
Kauai	31,727	32,410
Big Island	48,434	48,185
Total golf revenues (million dollars)	309	328
Green fees	199	209
Merchandise	77	85
Food and beverage	23	24
Rental clubs/shoes	3	3
Driving range	6	7
Total mix of play (percent)		
Resident	77	73
Tourist	23	27

Source: Coopers & Lybrand, records.

**Table 7.50-- COUNTY GOLF COURSES AND CAMPING PERMITS,
FOR OAHU: 1990 TO 1998**

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
1990	5	81	519,563	9,865
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	(NA)
1998	6	99	747,379	(NA)

NA Not available.

1/ By the City and County of Honolulu.

Source: City and County of Honolulu, Department of Parks and Recreation, records and Department of Enterprise Services, records.

Table 7.51-- SONY OPEN SCORES AND PURSES: 1991 TO 1999

[The Sony Open (formerly the Hawaiian Open) is held at the Waialae Country Club golf course. Distance is 7,060 yards; par is 70/280]

Year	Holes	Winning score		Purse (dollars)	
		Total	Below par	Total	Winner
1991	72	270	18	1,100,000	198,000
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

Note: Up until 1998, event known as the Hawaiian Open, which was held at the Waialea Country Club golf course. Distance was 6,975 yards; par was 72/288

Source: *Honolulu Star-Bulletin*, various issues.

Table 7.52-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: OCTOBER 30, 1997

Island	Public hunting areas		National Wildlife Refuges		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total	57	1,015.6	18	520.5	9	80.6
Hawaii	27	748.4	1	32.7	4	79.5
Maui	7	90.3	3	0.7	1	0.1
Lanai	1	35.6	-	-	-	-
Molokai	1	16.0	1	0.0	-	-
Oahu	10	18.6	3	0.2	4	0.7
Kauai	11	106.7	3	1.4	-	-
Other islands	-	-	7	485.5	(1/)	0.3

1/ The Hawaii State Seabird Sanctuary is comprised of 36 islets offshore all major islands, including Kure Atoll in the Northwestern Hawaiian Islands. This sanctuary is administered out of the Oahu District office.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 7.53-- FISHING AND HUNTING LICENSES ISSUED: 1993 TO 1998

[Years ended June 30]

Type of license	1993	1994	1995	1996	1997	1998
Freshwater fishing	11,072	9,612	7,740	6,557	6,505	6,876
Hunting	10,683	11,073	10,863	10,969	9,888	10,061

Source: Hawaii State Department of Land and Natural Resources, Division of Conservation and Resources Enforcement and Division of Forestry and Wildlife, records.

Table 7.54-- FISHING, HUNTING, AND WILDLIFE-ASSOCIATED RECREATION OF PERSONS 16 YEARS OF AGE AND OLDER: 1996

[For 1980 survey results, see *Data Book 1984*, table 251]

Subject	All activities	Hunting and fishing			Wildlife watching
		Both	Fishing	Hunting	
Hawaii residents: 1/					
Participants (1,000)	201	136	132	21	123
Expenditures (million dollars)	182	112	(NA)	(NA)	70
Taking place in Hawaii: 2/					
Participants, total (1,000)	(NA)	(NA)	260	23	255
Hawaii residents	(NA)	(NA)	130	23	51
Residents of other states	(NA)	(NA)	130	(B)	204
Expenditures (million dollars)	445	150	130	16	295

B Sample size too small to report data reliably.

NA Not available

1/ Estimated population 16 years old or more was 900,000.

2/ Excludes foreign residents.

Source: U.S. Fish and Wildlife Service and U.S. Bureau of the Census, *1996 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation* (November 1997), pp. 97-103, 107, 111, 113.

**Table 7.55-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND
WINNING TIMES: 1991 TO 1998**

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1991	14,605	13,038	2:18:24	2:40:11
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

NA Not available.

Source: Honolulu Marathon Association, records; Honolulu Marathon Records & Statistics, at <http://www.honolulumarathon.org/stats.html>

**Table 7.56-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP
PARTICIPANTS, FINISHERS, AND WINNING TIMES: 1991 TO 1998**

Year	Number of participants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1991	1,379	1,312	8:18:32	9:07:52
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

Source: Ironman Triathlon World Championship, records; 1995-1998 race results from JTL Timing Systems Hawaii at "<http://www.ironmantri.com>" Internet Website.

**Table 7.57-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES
AND WINNING TIMES: 1985 TO 1999**

[The Honolulu Race, sponsored by the Transpacific Yacht Club of Los Angeles,
is run biennially between San Pedro, California, and Diamond Head Lighthouse,
a great circle distance of 2,217 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

Source: Transpac 99' website, <http://www.transpacificyc.org>, *The Honolulu Advertiser*, July 19, 1999.

**Table 7.58-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:
1993-1994 TO 1998-1999 SEASONS**

Bowl	1993- 1994	1994- 1995	1995- 1996	1996- 1997	1997- 1998	1998- 1999
Aloha Bowl 1/	23,645	20,092	20,780	19,467	34,419	34,803
Hula Bowl 2/	25,726	17,074	14,933	14,725	20,079	23,719
Pro Bowl	47,560	45,828	47,066	47,205	49,995	50,075

1/ In 1998, Aloha Bowl played in conjunction with Oahu Bowl, attendance numbers reflect total attendance during both games.

2/ The 1998 and 1999 Hula Bowl was played at Maui's War Memorial Stadium.

Source: Aloha Stadium, records; *Honolulu Star-Bulletin*, various issues.

**Table 7.59-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF
HAWAII AT MANOA: 1995-1996 TO 1997-1998**

[Includes only games played against four-year collegiate teams]

Sports	Games played 1/				Home games	
	Total	Won	Lost	Tied	Home dates	Attendance
1995-1996:						
Baseball	55	29	26	-	39	129,696
Basketball (men's)	28	10	18	-	16	110,594
Basketball (women's)	29	23	6	-	17	54,010
Football	7	4	8	-	7	242,433
Volleyball (men's)	30	27	3	-	18	2/ 137,344
Volleyball (women's)	32	31	1	-	24	145,006
1996-1997:						
Baseball	56	22	34	-	39	108,537
Basketball (men's)	29	21	8	-	19	145,416
Basketball (women's)	29	21	8	-	18	22,725
Football	12	2	10	-	8	263,986
Volleyball (men's)	29	18	11	-	18	142,732
Volleyball (women's)	38	35	3	-	22	184,314
1997-1998:						
Baseball	56	34	22	-	39	98,436
Basketball (men's)	30	21	9	-	22	211,520
Basketball (women's)	28	24	4	-	18	38,201
Football	12	3	9	-	8	267,528
Volleyball (men's)	29	23	6	-	19	135,180
Volleyball (women's)	33	25	8	-	19	129,622

1/ Volleyball data refer to matches.

2/ Includes one MPSF play-off that UH did not play in.

Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Media Relations, records.

**Table 7.60-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:
1996-1997 AND 1997-1998 SEASONS**

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
1996-1997: 3/ Baseball	Boys	351	17,430	53,200
Basketball	Boys and girls	946	116,237	144,700
Football	Boys	282	190,412	120,575
1997-1998: Baseball	Boys	374	18,380	54,850
Basketball	Boys and girls	945	123,650	146,945
Football	Boys	289	210,425	129,800

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.

3/ Because of possible changes in data collecting, numbers may not be comparable to those published in previous years.

Source: Hawaii State Department of Education, Office of Accountability and School Instructional Support, records.

Table 7.61-- PROFESSIONAL BOXING: 1993 TO 1998

Year	Number of promoters	Number of shows	Paid attendance	Gross receipts (dollars)
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

Source: Hawaii State Department of Commerce and Consumer Affairs, Boxing Commission, records.

Table 7.62-- DOG LICENSES ISSUED, BY ISLANDS: 1993 TO 1998

[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	28,304	5,777	649	35	83	19,520	2,240

1/ Beginning in January 1995, the number of registrations issued by the animal shelter were not included in the count. Therefore, the figures for 1995, 1996, 1997 and 1998 were affected by this change.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the County Departments of Finance; Hawaiian Humane Society (for Oahu, 1995-1998).

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 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: 1998*, Section 8.

Table 8.01-- POPULARLY ELECTED OFFICIALS OF STATE AND LOCAL GOVERNMENTS: 1967 TO 1992

Year	Elected State and local officials			Elected State officials	Elected local officials
	Number	Rank 1/	Rate 2/		
1967	184	50	2.5	89	95
1977	172	50	1.9	87	85
1987	160	50	1.5	91	69
1992	183	50	1.7	91	92

1/ Among the 50 States.

2/ Per 10,000 population. In 1992, Hawaii ranked 50th among the 50 States in this rate.

Source: U.S. Bureau of the Census, *1987 Census of Governments*, Vol. 1, *Government Organization*, No. 2, *Popularly Elected Officials*, GC87(1)-2, January 1990, table 2; *1992 Census of Governments*, GC92(1)-2, *Popularly Elected Officials* (June 1995), tables 2 and 3.

**Table 8.02-- POPULATION OF VOTING AGE AND PERCENT VOTING:
1988 TO 1998**

Subject	1988	1990	1992	1994	1996	1998
Persons of voting age 1/ (1,000)	804	837	858	871	875	878
Percent casting votes for--						
Presidential electors	44.0	(X)	43.1	(X)	40.8	(NA)
U.S. Representatives	42.3	40.5	41.4	40.3	40.3	(NA)

X Not applicable.

NA Not available.

1/ Resident population 18 years and over, including armed forces stationed in Hawaii, aliens, and institutional population. November estimates.

Source: *Statistical Abstract of the United States: 1997*, p. 290; U.S. Bureau of the Census, "Projections of the Voting-Age Population for States: November 1998", *Current Population Reports*, P25-1132, April 1998, p. 14.

**Table 8.03-- REPORTED VOTING AND REGISTRATION, BY SEX:
NOVEMBER 1996**

[Civilian noninstitutional population of voting age]

Sex	All persons (1,000)	Total registered		Total voted	
		Number (1,000)	Percent	Number (1,000)	Percent
Both Sexes	839	463	1/ 55.1	361	2/ 43.1
Male	395	220	55.6	168	42.5
Female	444	243	54.7	194	43.6

1/ The U.S. percentage was 65.9. Hawaii ranked 50th among the 50 States.

2/ The U.S. percentage was 54.2. Hawaii ranked 50th among the 50 States.

Source: U.S. Bureau of the Census. <http://www.census.gov/population/socdemo/voting/96CPS/tab4B.txt>

**Table 8.04-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND
GENERAL ELECTIONS, BY COUNTIES: 1998**

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total	582,558	282,773	299,785	291,069	50.0
Hawaii	75,205	36,068	39,137	38,988	51.8
Maui	64,333	31,513	32,820	30,495	47.4
Honolulu	411,071	199,676	211,395	201,583	49.0
Kauai	31,949	15,516	16,433	20,003	62.6
Overseas	-	-	-	-	-
GENERAL ELECTION					
State total	601,404	292,307	309,097	412,520	68.6
Hawaii	77,726	37,349	40,377	53,658	69.0
Maui	66,740	32,741	33,999	43,382	65.0
Honolulu	423,875	206,104	217,771	291,114	68.7
Kauai	33,063	16,113	16,950	24,366	73.7
Overseas	-	-	-	-	-

Source: Hawaii State Office of Elections, records.

**Table 8.05-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND
GENERAL ELECTIONS: 1976 TO 1998**

Type and date of election	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTIONS:					
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20	384,858	186,982	197,876	264,041	68.6
1982: Sept. 18	385,307	185,763	199,544	272,691	70.8
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
GENERAL ELECTIONS:					
1976: Nov. 2	363,045	180,265	182,780	309,089	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	78.9
1982: Nov. 2	405,005	195,259	209,746	325,459	80.3
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

1/ Distribution by sex as of September 1, 1988, 16 days before the election.

Source: Hawaii State Office of Elections, *Result of Votes Cast, Primary and General Elections*, and records.

**Table 8.06-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, SEPTEMBER 19, 1998**

Office, party, and candidate	Votes	Office, party, and candidate	Votes
U.S. SENATE		U.S. HOUSE, DISTRICT 2	
Democrat:		Democrat:	
Inouye, D.	108,891	Mink, P.	61,382
Thompson, R.	8,468	Bourgoin, D.	7,106
Republican:		Republican:	
Young, C.	26,920	Douglass, C.	19,575
Friedheim, J.	18,969	O'Leary, P.	15,289
Douglass, E.	10,417	White, T.	9,640
Deluze, J.	8,995	Libertarian:	
Sink, W.	7,519	Chun, N.	182
Amen, R.	7,476	GOVERNOR	
Gregory S.	6,368	Democrat:	
Friel, H.	5,358	Cayetano, B.	95,797
Manner, P.	3,703	Brewer, J.	6,169
Libertarian:		Ho, R.	3,024
Mallan, L.	300	Tamura, F.	2,740
Nonpartisan:		Onaga, R.	1,651
Brown, J.	133	Shiratori, M.	1,499
U.S. HOUSE, DISTRICT 1		Republican:	
Democrat:		Lingle, L.	109,061
Abercrombie, N.	40,492	Fasi, F.	48,488
Kaan, A.	2,089	Libertarian:	
Canopin, A.	1,783	Peabody, G.	300
Republican:		Nonpartisan:	
Ward, G.	54,844	Hitchcock, L.	79
Natural Law:		Mattes, P.	38
Bedworth, N.	35	Najibi, M.	26

Continued on next page.

**Table 8.06-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, SEPTEMBER 19, 1998 -- Con.**

Office, party, and candidate	Votes	Office, party, and candidate	Votes
LT. GOVERNOR		COUNTY OF MAUI MAYOR	
Democrat:		Democrat:	
Hirono, M.	99,490	Apana, J.	7,882
Cook, N.	12,154	Lee, A.	7,792
		Lindsey, E.	1,255
Republican:		Cannon, T.	726
Koki, S.	69,546		
Liu, M.	56,937	Republican:	
Dudley, K.	13,880	Arakawa, A.	7,699
Lessary, J.	3,861	Downing, M.	2,045
Libertarian:		COUNTY OF KAUAI MAYOR	
Bartley, L.	301	Kusaka, M.	8,721
		Thronas, M.	5,044
		Asing, B.	4,869
		Field-Grace, S.	260
		Goodwin, G.	80

Source: Hawaii State Office of Elections, *1998 Primary and Special Election Statewide Summary Reports*.

**Table 8.07-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTIONS:
1988 TO 1998**

Year	Total votes cast	Democratic	Republican	Other parties	Nonpartisan	Invalid or blank
1988	1/ 275,673	1/ 221,340	1/ 50,924	563	1,340	1/ 1,180
1990	1/ 276,407	1/ 221,839	1/ 48,563	1/ 963	1/ 3,847	1/ 1,195
1992	251,576	194,945	49,379	4,290	1,815	1,147
1994	309,700	212,270	58,316	1/ 35,355	2,045	1,714
1996	1/ 275,548	1/ 213,512	1/ 54,644	1/ 3,273	1/ 2,443	1/ 1,676
1998	291,069	122,977	159,126	752	197	8,017

1/ Revised.

Source: Hawaii State Office of Elections, *Results of Votes Cast, Primary Elections*, and records.

**Table 8.08-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTION,
BY COUNTIES: SEPTEMBER 19, 1998**

Party	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
Total votes cast	291,069	38,988	30,495	201,583	20,003
Democratic	122,977	19,548	18,432	72,812	12,185
Hawaii Green	378	206	36	109	27
Libertarian	339	62	23	223	31
Natural Law	35	0	0	35	0
Republican	159,126	18,289	11,230	122,806	6,801
Nonpartisan	197	64	18	105	10
Invalid	8,017	819	756	5,493	949

Source: Hawaii State Office of Elections, *Results of Votes Cast, Primary Election 1998*, and records.

**Table 8.09-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND
VOTES CAST, BY ISLANDS: NOVEMBER 3, 1998**

Island	Number of precincts	Registered voters	Votes cast	Percent voting
State total	334	601,404	412,520	68.6
Hawaii	59	77,726	53,658	69.0
Maui	36	61,310	39,632	64.6
Lanai	1	1,509	1,016	67.3
Molokai: Molokai District	4	3,847	2,672	69.5
Kalawao District	1	74	62	83.8
Oahu 1/	213	423,875	291,114	68.7
Kauai	19	32,957	24,298	73.7
Niihau	1	106	68	64.2

1/ Includes the Northwestern Hawaiian Islands as part of the 51st Representative District.
Includes count of overseas ballots.

Source: Hawaii State Office of Elections, records.

Table 8.10-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 3, 1998

Age	Both sexes	Male	Female
All ages	601,404	292,307	309,097
18 or 19 years	10,921	5,135	5,786
20 to 29 years	94,812	45,451	49,361
30 to 39 years	119,062	57,797	61,265
40 to 49 years	132,849	65,046	67,803
50 to 64 years	130,650	64,331	66,319
65 years and over	113,103	54,547	58,556
Not reported	7	-	7

Source: Hawaii State Office of Elections, records.

**Table 8.11-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1986 TO 1998**

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
U.S. SENATOR						
1986	328,797	Inouye, D.	241,887	Hutchinson, F.	86,910	-
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
U.S. REPRESENTATIVE, DISTRICT 1						
1986	168,377	Hannemann, M.	63,061	Saiki, P.	99,683	5,633
1988 3/	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
U.S. REPRESENTATIVE, DISTRICT 2						
1986	162,819	Akaka, D.	123,830	Hustace, M.	35,371	3,618
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

Continued on next page.

**Table 8.11-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1986 TO 1998 -- Con.**

Office and election year	Total votes cast 1/	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
STATE GOVERNOR						
1986	334,115	Waihee, J.	173,655	Anderson, D.	160,460	-
1990	340,132	Waihee, J.	203,491	Hemmings, F.	131,310	5,331
1994	369,013	Cayetano, B.	134,978	Saiki, P.	107,908	(4/)
1998	407,556	Cayetano, B.	204,206	Lingle, L.	198,952	4,398
CITY & COUNTY OF HONOLULU, MAYOR 5/						
1988	263,882	Bornhorst, M.	117,479	Fasi, F.	146,403	-
1992	263,328	O'Connor, D.	124,719	Fasi, F.	127,939	10,670
1996 6/	254,780	-	-	-	-	254,780

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 Senator Matsunaga. He was sworn in on May 16, 1990 and elected on Nov. 8, 1990.

3/ For special election to fill unexpired term of Representative Heftel, Sept. 20, 1986, see *Data Book 1987*, table 280.

4/ The total for other parties, 126,127, included 113,158 for F. Fasi (Best) and 12,969 for K. Dudley (Green).

5/ 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. A total of 213,616 votes was cast, excluding over votes and blank votes. J. Harris, the winner, received 67,670 votes.

6/ Nonpartisan election. The top two candidates in the Primary Election faced each other in the General Election. J. Harris received 146,034 votes and A. Morgado received 108,746 votes.

Source: Hawaii State Office of Elections, *Results of Votes Cast, General Elections*, and records.

**Table 8.12-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, NOVEMBER 3, 1998**

Office, candidate and party 1/	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
U.S. SENATE				
Inouye, D (D)	38,844	32,326	224,619	19,463
Young, C. (R)	10,840	8,086	48,941	3,097
Mallan, L. (L)	2,223	1,261	7,831	593
U.S. HOUSE, DISTRICT 1				
Abercrombie, N (D)	-	-	116,693	-
Ward, G. (R)	-	-	68,905	-
Bedworth, N. (NL)	-	-	3,973	-
U.S. HOUSE, DISTRICT 2				
Mink, P. (D)	34,832	29,851	62,868	16,703
Douglass, C. (R)	13,400	9,542	23,847	3,634
Chun, N. (L)	3,129	2,044	5,695	2,326
GOVERNOR/LT. GOVERNOR				
Cayetano/Hirono (D)	23,826	20,777	145,839	13,764
Lingle/Koki (R)	28,326	21,390	139,171	10,065
Peabody/Bartley (L)	848	572	2,849	129
COUNTY OF MAUI MAYOR				
Apana, J. (D)	-	22,350	-	-
Arakawa, A. (R)	-	20,101	-	-
COUNTY OF KAUAI MAYOR				
Kusaka, M.	-	-	-	14,115
Thronas, M.	-	-	-	9,564

1/ D, Democrat; L, Libertarian; NL, Natural Law; R, Republican.

Source: Hawaii State Office of Elections, *1998 General Election County Summary Reports*.

**Table 8.13-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD
OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES:
NOVEMBER 3, 1998**

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total	100,163	46,566	53,597	64,806	64.7
Hawaii	15,674	7,074	8,600	10,084	64.3
Maui	12,428	5,909	6,519	7,628	61.4
Honolulu	66,670	31,010	35,660	43,233	64.8
Kauai	5,391	2,573	2,818	3,861	71.6

Source: Hawaii State Office of Elections, records.

Table 8.14-- CAMPAIGN EXPENDITURES: 1998 ELECTIONS

[Dollars. Table excludes national races.]

Election and office	All candidates (dollars)	Number of Candidates	Open Seats
Total	19,995,083.91	401	113
Election:			
Primary	9,714,834.77	363	-
General	5,683,305.02	256	-
Supplemental	4,325,026.10	(NA)	-
Office:			
Governor	8,616,620.07	12	1
Lt. Governor	1,715,197.18	7	1
State Senator	2,432,177.06	44	13
State Representative	2,789,214.53	155	51
Mayor (Maui)	627,445.17	6	1
Mayor (Kauai)	415,393.58	5	1
Council (Honolulu)	1,887,788.98	19	9
Council (Hawaii)	352,430.49	29	9
Council (Maui)	586,680.57	42	9
Council (Kauai)	300,218.26	21	7
Board of Education	29,953.31	23	6
Office of Hawaiian Affairs	241,964.70	38	5

NA Not available.

Source: Hawaii State Campaign Spending Commission, records.

**Table 8.15-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU:
1983 TO 1997**

Year	Number of boards		Board seats elected	Ballots mailed	Voters (ballots cast)
	In operation, Dec. 31	Holding elections			
1983	28	28	416	231,622	61,425
1985	30	30	438	255,045	74,583
1987	30	30	438	260,155	83,072
1989	30	30	438	273,954	91,285
1991	30	30	438	260,923	85,457
1993	30	30	444	279,392	97,476
1995	31	31	447	281,437	85,597
1997	32	32	456	273,768	83,278

Source: City and County of Honolulu, Neighborhood Commission, records.

**Table 8.16-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE:
1987 TO 1997**

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	-

Source: Hawaii State Office of Elections, records.

Table 8.17-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1997 AND 1999

[As of January]

County	Total seats	Democrats		Republicans		Hawaii Green		Nonpartisan	
		1997	1999	1997	1999	1997	1999	1997	1999
All counties	34	16	13	9	4	-	1	9	16
Hawaii	9	5	6	4	2	-	1	-	-
Maui	9	6	7	3	2	-	-	-	-
Honolulu	9	-	-	-	-	-	-	9	9
Kauai	7	5	-	2	-	-	-	-	7

Source: Hawaii State Office of Elections, records.

Table 8.18-- LENGTH OF LEGISLATIVE SESSIONS: 1991 TO 1998

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1991	Jan. 16	111	June 24	5
1992	Jan. 15	107	None	-
1993	Jan. 20	104	Aug. 23	22
1994	Jan. 19	104	None	-
1995	Jan. 18	104	2/ June 5	3/ 7
1996	Jan. 17	104	None	-
1997	Jan. 15	107	None	-
1998	Jan. 21	114	None	-

1/ Calendar days, including Saturdays, Sundays, holidays, and mandatory five-day recess required by Art. III, sec. 10, of the Hawaii Constitution.

2/ The Second Special Session of 1995 convened September 20.

3/ Combined length for First Special Session (5 days) and Second Special Session (2 days).

Source: Hawaii State Legislative Reference Bureau, records.

**Table 8.19-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
1995 TO 1998**

Action	Session					
	1995			1996 Regular	1997 Regular	1998 Regular
	Regular	First Special	Second Special			
House bills:						
Carried over from previous year	-	-	-	2,179	-	2,087
Introduced	2,354	22	-	1,793	2,329	1,296
Passed 1/	175	20	-	200	242	182
Vetoed	39	-	-	17	6	9
Became law 2/	136	20	-	182	235	173
Senate bills:						
Carried over from previous year	-	-	-	1,799	-	1,801
Introduced	1,951	15	-	1,271	1,958	1,258
Passed 1/	152	15	-	145	157	152
Vetoed	44	1	-	10	8	14
Became law 3/	107	14	-	133	148	138
House resolutions:						
Offered	340	2	-	337	242	90
Adopted	138	2	-	112	117	54
House concurrent resolutions:						
Offered	342	-	-	345	290	251
Adopted	54	-	-	29	37	62
Senate resolutions:						
Offered	266	3	1	238	150	115
Adopted	118	3	1	71	32	33
Senate concurrent resolutions:						
Offered	309	-	-	289	279	216
Adopted	52	-	-	23	25	39

1/ Includes bills for constitutional amendments: S.B. 887 in 1995; H.B. 4142, S.B. 2211, and S.B. 3091 in 1996; H.B. 117 and S.B. 209 in 1997.

2/ The 1995 total includes H.B. 1220, which includes a vetoed item. The 1995 First Special total includes H.B. 17 which became law without the Governor's signature. The 1996 total includes H.B. 2800, which includes a vetoed item. The 1997 total includes H.B. 118 which became law without the Governor's signature. The 1998 total includes H.B. 2552 which became law without the Governor's signature.

3/ The 1995 total includes S.B. 171, S.B. 1375, and S.B. 1509 which became law without the Governor's signature. The 1996 total includes S.B. 659, which became law without the Governor's signature.

Source: Hawaii State 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 Section 10.

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 Bureau of the Census, reports of the U.S. Treasury Department, 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 an annual compilation issued by the Tax Foundation of Hawaii, *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: 1998*, Sections 9 and 10.

**Table 9.01-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1980 TO 1998**

[In thousands of dollars. For fiscal years ended 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	7,975,930	4,542,943	1/ 3,432,986	2,772,325	660,662
1993	8,033,353	4,489,142	3,544,211	2,829,710	714,501
1994	8,346,552	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/ (NA)	(NA)	(NA)	(NA)
1998	(NA)	4,690,970	(NA)	(NA)	(NA)

NA Not available.

1/ IRS *Data Book 1997* contains data for the Pacific-Northwest of which Hawaii is a part. No Hawaii detail.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual) and U.S. Department of the Treasury, Internal Revenue Service, *Annual Report of the Commissioner* (annual), and *Data Book, 1993-94, 1995*, for 1996 <http://www.irs.ustreas.gov/tax_stats/96CR_3CL.exe>; for 1997 <http://www.irs.ustreas.gov/tax_stats/97CR_3CL.exe> and for 1998 IRS *Data Book 1998*, forthcoming and <http://www.irs.treas.gov/prod/tax_stats/other_ia.html>.

Table 9.02-- FEDERAL TAX COLLECTIONS, BY SOURCE: 1994 TO 1998

[In thousands of dollars. For fiscal years ended September 30]

Source	1994	1995	1996	1997 1/	1998
Federal collections	4,613,644	4,461,739	4,573,256	(NA)	4,690,970
Corporate income and excess profits	389,484	371,960	403,869	(NA)	390,821
Indiv. income and employment	4,060,861	3,968,349	4,045,271	(NA)	4,123,307
Income tax not withheld & SECA 2/	873,167	834,124	892,202	(NA)	1,037,358
Income tax withheld & FICA 3/	3,165,905	3,113,111	3,133,796	(NA)	3,066,906
Railroad retirement	2	4	-	(NA)	1
Unemployment insurance	21,787	21,110	19,273	(NA)	19,043
Estate	85,516	55,593	65,512	(NA)	92,817
Gift	6,995	4,817	6,940	(NA)	12,882
Excise	70,788	61,020	51,664	(NA)	71,143

1/ The IRS *Data Book 1997* contains data for the Pacific-Northwest, of which Hawaii is a part. There is no Hawaii detail.

2/ SECA Self employment insurance contributions.

3/ FICA Federal Insurance Contributions Act, includes old-age, survivors, disability, and hospital insurance taxes on wages and salaries.

Source: U.S. Department of the Treasury, Internal Revenue Service, *Annual Report of the Commissioner* (annual), and *Data Book, 1993-94, 1995*; for 1996, <http://www.irs.ustreas.gov/tax_stats/96CR 3CL.exe>; for 1997 <http://www.irs.ustreas.gov/tax_stats/97CR 3CL.exe> and for 1998 IRS *Data Book 1998*, forthcoming, and <http://www.irs.treas.gov/prod/tax_stats/other_ia.html>.

**Table 9.03-- STATE AND COUNTY TAX COLLECTIONS, BY SOURCE:
1986 TO 1996**

[In thousands of dollars. For fiscal years ended June 30]

Source	1986	1994	1995	1996
Total State and county tax collections	1,959,625	3,732,906	3,749,407	3,997,774
State collections 1/	1,562,195	2,991,811	3,012,835	3,257,099
General excise and use	747,102	1,332,891	1,363,920	1,432,486
Transient accommodations 2/	-	76,527	98,046	115,747
Fuel	67,559	135,918	134,031	138,267
Liquor	29,852	38,997	38,362	37,811
Tobacco	19,741	32,658	35,386	39,572
Insurance	34,609	63,726	62,271	59,164
Public service companies	70,265	92,292	100,505	104,131
Banks and other financial institutions	4,934	29,434	17,048	17,109
Corporate income 3/	39,589	38,995	30,249	48,438
Indiv. income, net income 4/	467,206	962,543	925,704	999,928
Inheritance and estate	5,971	28,120	16,438	17,540
Real property 5/	25	-	-	-
Conveyance	1,947	7,665	6,952	5,669
Environmental response (FY94)	-	1,470	1,953	1,669
Rental vehicle surcharge	-	20,366	21,465	21,951
Hospital and nursing home 6/	-	26,718	16,601	10,104
Licenses, permits, and others	6,443	14,913	21,104	23,985
Unemployment compensation	66,951	88,578	122,801	183,526
County collections 1/	397,429	741,096	736,572	740,675
Real property	333,670	624,815	612,149	612,689
Liquor licenses and fees	3,562	4,461	4,366	5,091
Utility franchise	18,049	25,181	24,718	26,702
Motor vehicle weight 7/	32,504	62,623	69,057	67,430
Licenses, permits, and others	9,645	24,015	26,282	28,763

1/ Article VIII, Section 3 of the State Constitution, as amended in 1978, mandated transfer of real property tax administration, including collection of the tax, to the counties, effective July 1, 1981. State collections represent real property taxes for prior years.

2/ Effective January 1, 1987.

3/ Includes payments of estimated taxes less refunds.

4/ Includes withheld and estimated taxes less refunds.

5/ Reflects correction of source data (inadvertent row deletion).

6/ Hospital tax repealed in 1994.

7/ Includes State motor vehicle weight tax.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual), table 13; *Government in Hawaii*, 1996 as corrected; and *Government in Hawaii*, 1997, forthcoming.

**Table 9.04-- ESTIMATED STATE AND LOCAL TAXES PAID BY A
FAMILY OF FOUR, FOR HONOLULU AND THE MEDIAN AND
AVERAGE OF 51 MAJOR CITIES: 1996 AND 1997**

Gross family income level (dollars)	Honolulu			51-city median 1/		51-city average	
	Taxes (dollars)	Percent of income	Rank 2/	Taxes (dollars)	Percent of income	Taxes (dollars)	Percent of income
1996							
25,000	1,934	7.7	30	1,989	8.0	2,071	8.3
50,000	4,453	8.9	19	4,092	8.2	4,312	8.6
75,000	7,457	9.9	18	6,989	9.3	7,025	9.4
100,000	10,229	10.2	19	9,555	9.6	9,486	9.5
150,000	16,907	11.3	12	14,659	9.8	14,476	9.7
1997							
25,000	2,168	8.7	15	1,970	7.9	2,027	8.1
50,000	4,778	9.6	13	4,180	8.4	4,221	8.4
75,000	7,905	10.5	13	6,870	9.2	6,885	9.2
100,000	10,805	10.8	14	9,318	9.3	9,318	9.3
150,000	16,551	11.0	12	14,549	9.7	14,148	9.4

1/ Largest city in each state, and the District of Columbia. For the listing of cities, see source.

2/ The lower the rank, the higher the percentage of income paid in taxes. For a breakdown of taxes, see source.

Source: For 1996 and 1997: Government of the District of Columbia, *Tax Rates and Tax Burdens in the the District of Columbia- A National Comparison 1996* (July 1997), table 1 and *Ibid. 1997* (July 1998), table 1, and <<http://www.dccfo.com/Taxpayers/Publications/publications.html>>.

Table 9.05-- HAWAII STATE GOVERNMENT FINANCES: 1997

[Amount in thousands of dollars, per capita in dollars. Fiscal year ended June 30]

Category 1/	Amount	Percent distribution	Per capita
Total revenue	6,700,545	100.0	5,644.94
General revenue	5,526,957	82.5	4,656.24
Intergovernmental revenue	1,302,690	19.4	1,097.46
Taxes	3,087,946	46.1	2,601.47
General sales	1,457,274	21.8	1,227.70
Selective sales	468,697	7.0	394.86
License taxes	89,876	1.3	75.72
Individual income	976,579	14.6	822.73
Corporation net income	67,570	1.0	56.93
Other taxes	27,950	0.4	23.55
Current charges	776,421	11.6	654.10
Miscellaneous general revenue	359,900	5.4	303.20
Insurance trust revenue	1,173,588	17.5	988.70
Total expenditure	6,093,375	100.0	5,133.42
General expenditure, by function:	5,420,946	89.0	4,566.93
Education	1,557,019	25.6	1,311.73
Public welfare	983,336	16.1	828.42
Hospitals	237,641	3.9	200.20
Health	276,988	4.6	233.35
Highways	321,658	5.3	270.98
Police protection	7,019	0.1	5.91
Correction	127,535	2.1	107.44
Natural resources	71,097	1.2	59.90
Parks and recreation	144,309	2.4	121.57
Governmental administration	248,081	4.1	209.00
Interest on general debt	328,297	5.4	276.58
Other and unallocable	1,117,966	18.4	941.84
Utility expenditure	235	0.0	0.20
Insurance trust expenditure	672,194	11.0	566.30
General expenditure	5,420,946	89.0	4,566.93
Intergovernmental expenditure	156,055	2.6	131.47
Direct expenditure	5,264,891	86.4	4,435.46
Debt at end of fiscal year	5,252,711	100.0	4,425.20
Cash and security holdings	10,842,971	100.0	9,134.77

1/ Utility revenue, and Liquor stores revenues and expenditures are zero.

Source: U.S. Department of Commerce, <<http://www.census.gov/govs/state/97sthi.html>>.

Table 9.06-- STATE GOVERNMENT REVENUES: 1995 AND 1996

[Data rounded to thousands of dollars. For fiscal years ended June 30]

Source of revenues	1995 All funds	1996		
		All funds	General fund	Special funds
Total 1/	2/ 5,045,203	5,738,046	3,028,986	2,709,060
Tax revenues	2/ 2,829,709	3,128,265	2,782,676	345,664
General excise	1,358,262	1,426,007	1,426,007	-
Specific excises 3/	379,587	408,679	267,015	141,464
Individual income	925,338	998,136	998,136	-
Corporate income	30,249	48,215	48,215	-
Transient accommodations	4,135	4,823	4,823	-
Unemployment compensation	2/ 142,330	177,201	-	177,201
Other taxes, licenses, permits 4/	69,451	65,204	38,480	26,724
Fines, forfeits, and escheats	17,821	18,293	14,606	3,687
Federal grants-in-aid	964,769	1,259,914	15,090	1,244,824
Revenues from other agencies	34,098	37,900	7,120	30,780
Rents, royalties, land income 5/	145,021	141,076	5,592	135,484
Earnings: general departments	493,845	562,824	85,129	477,695
Earnings: auxiliary enterprises	56,141	56,346	-	56,346
Earnings: public service enterprises	190,701	202,946	-	202,946
Interest earned	151,314	181,812	57,456	124,356
Miscellaneous	161,784	148,670	61,317	87,353

1/ Excludes transfers and repayments except as shown.

2/ Reflects source revision in Special fund, Unemployment compensation from \$62,687 to \$142,330 thousand.

3/ Includes public service companies, tobacco, liquor, insurance premiums, vehicle registration and weight, and fuel taxes. Includes \$111.7 million in insurance premiums tax revenues previously held in escrow.

4/ Includes franchise, inheritance and estate, hospital and nursing home, and conveyance taxes.

5/ Includes investment and unallocable interest income.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1997*, table 12, forthcoming.

**Table 9.07-- STATE GOVERNMENT OPERATING EXPENDITURES,
BY FUNCTION: 1986 TO 1996**

[In thousands of dollars. For fiscal years ended June 30. Data include general, special, and proprietary fund expenditures; unemployment trust fund treated as a special fund. Interfund transfers eliminated to avoid duplication]

Functions	1986	1995 1/	1996
Total	2,529,814	5,781,263	6,019,882
General government: Control	56,207	118,535	108,191
Staff	121,354	395,249	386,869
Public safety: Police and fire	2,260	12,287	9,651
Other protection	90,359	164,740	156,516
Highways	63,664	140,776	158,990
Natural resources	21,411	47,780	44,996
Health and sanitation	111,027	189,155	173,887
Hospitals and institutions	93,581	315,107	316,030
Public welfare	322,461	1,009,033	1,039,884
Education: Higher	299,429	591,635	548,673
Public education	450,259	894,437	863,071
Libraries and other	23,534	46,322	41,733
Recreation	16,751	43,184	37,887
Utilities and other enterprises	132,776	280,063	314,352
Debt service 2/	259,047	500,731	607,529
Retirement and pension	141,454	190,630	268,052
Employees' health and hosp. Insurance	659	738	639
Unemployment compensation	63,593	219,539	233,884
Grants-in-aid to counties	18,173	3,843	2,826
Urban redevelopment and housing	216,363	71,154	152,857
Miscellaneous	49,312	197,864	205,551
Cash capital improvements	64,663	378,089	347,812

1/ Reflects Source revision in 1995 Other protection; Natural resources; Health and sanitation; Education, Higher and Libraries and other; Debt service; Urban redevelopment and housing; Miscellaneous; and Cash capital improvements.

2/ Debt service on revenue bonds reimbursable from highway funds included under Highways; from airport and harbor funds under Utilities; Sand Island receipts, land revolving trust, and Veterans' home loan funds under Miscellaneous.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1997*, table 35, forthcoming.

**Table 9.08-- COUNTY GOVERNMENT OPERATING REVENUES,
BY SOURCE: 1996**

[Data rounded to thousands of dollars. For fiscal year ended June 30]

Subject	All counties	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total 1/	1,403,010	964,363	155,965	167,220	115,461
Taxes	730,218	504,269	85,145	104,057	36,747
Real property taxes	612,689	416,987	72,108	92,512	31,082
Liquid fuel	61,025	45,990	6,792	5,820	2,423
Utility franchise	26,702	18,518	3,188	3,423	1,573
Motor vehicle weight	29,802	22,774	3,057	2,302	1,669
Liquor licenses and fees	5,091	2,683	1,365	693	350
Parking meter fees	4,737	4,605	-	132	-
Other 2/	26,848	21,007	2,423	2,841	577
Fines, forfeits, and penalties	1,977	498	814	665	-
Departmental earnings 3/	274,919	229,555	25,403	11,758	8,203
Mass transit	31,656	31,656	-	-	-
State grants	122,727	47,842	28,181	28,943	17,760
Unrestricted 4/	92,196	40,762	21,074	17,192	13,167
Others	30,532	7,080	7,107	11,751	4,593
Federal grants	123,155	52,016	7,285	14,607	49,247
Hawaii Housing Authority	80	54	26	-	-
Miscellaneous	81,601	70,178	5,324	3,523	2,576

1/ Excludes loan, bond, revolving, trust funds, Board of Water Supply revenues and for County of Hawaii excludes Hilo Hospital. For City & County of Honolulu includes bus transportation and H-Power revenues.

2/ Other licenses, permits and fees.

3/ Includes rentals, interest, and other earnings.

4/ Designated for "improvements to infrastructures and/or tourism-related activities."

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1997*, tables 24-27, forthcoming.

**Table 9.09-- COUNTY GOVERNMENT OPERATING EXPENDITURES,
BY OBJECT: 1996**

[In thousands of dollars. For fiscal year ended June 30]

Subject	All counties	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total 1/	1,381,284	945,017	165,134	151,892	119,241
General government:	148,172	86,380	12,114	16,261	33,417
Control	13,937	6,845	2,651	2,172	2,269
Staff	134,235	79,535	9,463	14,089	31,148
Public safety:	280,433	177,819	35,505	52,896	14,213
Police and fire	241,294	157,142	30,638	41,349	12,164
Other protection	39,139	20,677	4,867	11,547	2,048
Highways	39,534	21,291	8,673	5,380	4,190
Health and sanitation	188,977	157,470	16,059	12,317	3,131
Public welfare	57,861	-	18,458	12,532	26,871
Public schools	317	-	-	231	87
Recreation	81,264	53,740	12,782	11,031	3,711
Interest	102,298	86,532	7,649	6,067	2,049
Bond redemption	78,563	62,500	7,166	5,327	3,570
Pension and retirement	97,752	66,423	11,898	13,326	6,105
Salary adjustment	404	-	-	-	404
Econ. and urban devel. 2/	34,162	34,162	-	-	-
Mass transit 3/	113,620	111,003	-	2,616	-
Miscellaneous	113,220	78,152	16,283	11,268	7,518
Cash capital improvements	44,706	9,545	18,547	2,639	13,975

1/ All funds expended by the county excepting certain bond, revolving, loan, and enterprise funds.

2/ Includes expenditures from redevelopment grants.

3/ Includes transfers to the bus transportation fund which are not reported as operating expenditures.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1997*, tables 36-39, forthcoming.

**Table 9.10-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME
REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS:
TAX YEARS 1980 TO 1996**

Tax year	Number of returns	Number of exemptions 1/	Adjusted gross income (less deficit)		
			Total (\$1,000)	Per return (dollars)	Per exemption 1/ (dollars)
1980	424,177	936,056	7,320,740	17,259	7,821
1981	437,977	957,338	7,870,617	17,970	8,221
1982	445,953	1,027,743	8,236,603	18,470	8,014
1983	450,097	1,037,030	8,652,808	19,224	8,344
1984	461,424	1,055,297	9,322,406	20,204	8,834
1985	470,745	1,071,202	9,965,599	21,170	9,303
1986	485,014	1,096,934	10,959,168	22,596	9,991
1987	506,302	1,112,189	12,670,065	25,025	11,392
1988	520,575	1,087,534	14,215,978	27,308	13,072
1989	542,943	1,120,071	15,851,813	29,196	14,153
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

1/ Exemptions for age or blindness excluded through 1981 and included thereafter.

Source: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income. Individual Income Tax Returns* (annual); *SOI Bulletin*, Summer 1985, p. 93, Winter 1985-86, p. 97, Winter 1986-87, p. 83, Fall 1990, pp. 11-57, Winter 1990-91, p. 58, Spring 1993, p. 148, Fall 1994, p. 148, Spring 1995, p. 132, Spring 1996, p. 118, Spring 1997, p. 151, Spring 1998, p. 163, calculations by Hawaii State Department of Business, Economic Development & Tourism, and records.

**Table 9.11-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF
ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX
RETURNS: TAX YEARS 1995 AND 1996**

Tax year 1/ and size of adjusted gross income	Number of returns	Adjusted gross income less deficit (\$1,000)	Total income tax liability		
			Number of returns	Amount (\$1,000)	Average 2/ (dollars)
1995					
All returns	549,519	19,057,384	470,977	2,510,724	5,331
Under \$15,000 2/	175,882	936,599	103,253	65,554	635
\$15,000 under \$30,000	146,996	3,228,230	141,982	269,925	1,901
\$30,000 under \$50,000	105,961	4,129,834	105,259	440,150	4,182
\$50,000 under \$75,000	69,182	4,209,997	69,030	504,077	7,302
\$75,000 under \$100,000	29,031	2,479,519	29,000	349,389	12,048
\$100,000 under \$200,000	18,175	2,337,642	18,163	418,716	23,053
\$200,000 or more	4,292	1,735,563	4,290	462,912	107,905
Median income	25,090	...	...	...	...
1996					
All returns	549,619	19,537,774	468,548	2,592,221	5,532
Under \$20,000 2/	229,846	1,859,457	151,672	128,385	846
\$20,000 under \$30,000	90,245	2,229,403	88,321	194,028	2,197
\$30,000 under \$50,000	105,389	4,105,994	104,636	432,107	4,130
\$50,000 under \$75,000	70,108	4,272,034	69,935	504,475	7,213
\$75,000 under \$100,000	30,118	2,577,271	30,093	359,077	11,932
\$100,000 under \$200,000	19,225	2,473,022	19,208	437,621	22,783
\$200,000 or more	4,688	2,020,593	4,683	536,528	114,569
Median income	24,892	...	...	...	...

1/ Filed in following year.

2/ Includes returns with adjusted gross deficit.

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin, Spring 1997*, p. 151, *Spring 1998*, p. 163 and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.12-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1996

Subject	Number of returns	Amount (\$1,000)
	1996	1996
All returns and adjusted gross income (AGI)	549,619	19,537,774
Salaries and wages	460,857	14,606,974
Taxable interest income	375,803	667,531
Tax-exempt interest income	23,896	155,828
Dividends	135,987	402,236
Business or profession net income (less loss)	80,840	777,848
Net capital gain (less loss)	103,323	746,617
Taxable Indiv. Retirement Arrangements distrib.	28,202	210,772
Pensions and annuities	98,519	1,543,083
Social security benefits	39,715	289,243
Total statutory adjustments	87,255	191,944
Self-employment retirement plans	5,655	41,256
Itemized deductions	179,606	3,344,874
Medical & dental expenses	27,167	114,285
Taxes paid	178,881	971,916
Interest paid	143,456	1,713,302
Contributions	159,699	304,023
Taxable income	455,387	12,563,642
Total tax credits	40,984	31,669
Child care credit	26,436	9,816
Earned income credit	61,172	72,081
Excess earned income credit (refundable)	44,294	53,984
Income tax	453,756	2,463,258
Tax liability	468,548	2,592,221
Tax due at time of filing	146,931	280,311
Overpayments	367,366	434,925

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin*, Spring 1998, p. 163.

Table 9.13-- INTERNAL REVENUE SERVICE OPERATIONS: 1994 TO 1998

Subject	1994	1995	1996	1997 1/	1998
Internal revenue collections (\$1,000)	4,613,645	4,461,739	4,573,256	(NA)	4,690,970
Indiv. income and employment taxes	4,060,861	3,968,349	4,045,271	(NA)	4,123,307
Total number of returns filed	1,005,219	994,156	980,494	(NA)	1,028,339
Individual income tax	554,871	553,326	549,941	(NA)	551,494
Total no. of returns filed electronically	(NA)	(NA)	(NA)	(NA)	(NA)
Individual income tax	35,013	29,077	39,434	(NA)	(NA)
Number of returns examined	3,216	4,171	4,203	(NA)	(NA)
Individual	2,543	3,660	3,317	(NA)	(NA)
Additional tax and penalties recommended after examination (\$1,000)	111,540	42,295	60,714	(NA)	(NA)
Individual	29,933	23,379	32,098	(NA)	(NA)
Costs incurred (\$1,000)	12,594	12,566	10,656	(NA)	(NA)

NA Not available.

1/ The IRS *1997 Data Book* contains data for the Pacific-Northwest, of which Hawaii is a part. There is no Hawaii detail.

Source: Internal Revenue Service, *Annual Report, 1991, 1992, and 1993*, and *Ibid. Data Book, 1993-94, 1995, 1996, 1997*; and *Data Book 1998*, forthcoming, and <http://www.irs.ustreas.gov/prod/tax_stats/soi/other_ia.html>.

**Table 9.14-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1982 TO 1996**

Year income was received	Number of resident returns	Adjusted gross income 1/ (\$1,000)	Taxable income (\$1,000)	Tax liability (\$1,000)
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

1/ Exclusive of losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals* (annual) and records.

**Table 9.15-- SOURCES OF INCOME REPORTED BY RESIDENT
TAXPAYERS: TAX YEARS 1995 AND 1996**

[In thousands of dollars. Data for 1995 have been revised]

Source of Income	1995	1996	Percent change 1995-1996
Total income	16,514,397	17,335,202	5.0
Salaries and wages	12,689,379	12,339,349	-2.8
Interest	559,732	536,873	-4.1
Ordinary dividends	289,713	292,164	0.8
Capital assets or other property	309,943	444,107	43.3
Rents and royalties	31,247	10,772	-65.5
Partnerships 1/	183,055	193,057	5.5
Estates and trusts	72,149	65,586	-9.1
All other sources	2,379,179	1,835,476	-22.9
Unknown sources	-	1,617,818	-

1/ Includes small business corporations (SBC).

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals: 1996*, p. 12.

Table 9.16-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1996, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (dollars)	Taxable income (dollars)	Tax liability (dollars)
All resident returns	523,967	15,966,450,814	11,510,878,991	917,117,330
Taxable resident returns	425,419	15,689,693,302	11,510,878,991	917,117,330
Under \$5,000	32,217	99,827,631	40,218,450	1,012,354
\$5,000, under \$10,000	49,110	367,832,624	209,945,575	9,464,352
\$10,000, under \$20,000	85,681	1,270,426,559	888,646,977	54,624,095
\$20,000, under \$30,000	77,872	1,923,156,331	1,454,565,833	105,000,896
\$30,000, under \$40,000	47,829	1,665,337,355	1,216,466,359	92,925,047
\$40,000, under \$50,000	34,587	1,550,312,925	1,126,005,573	88,461,674
\$50,000, under \$60,000	27,729	1,511,943,774	1,108,453,618	89,162,870
\$60,000, under \$75,000	26,669	1,785,751,189	1,295,386,411	106,802,533
\$75,000, under \$100,000	24,619	2,108,741,925	1,500,988,242	127,669,911
\$100,000, under \$150,000	12,720	1,503,704,081	1,120,944,058	99,501,374
\$150,000, under \$200,000	3,007	512,593,953	396,937,464	36,245,876
\$200,000 and over	3,379	1,390,064,955	1,152,320,431	106,246,348
Nontaxable resident returns	98,548	276,757,512	...	...
Loss	5,824	(161,542,426)	...	...
Under \$5,000	77,660	91,170,439	...	...
\$5,000, under \$10,000	9,001	62,692,528	...	...
\$10,000 and over	6,063	122,894,545	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, 1996*, table 1.

**Table 9.17-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE
INCOME TAX RETURNS, BY TYPE OF RETURN, 1982 TO 1996,
AND BY COUNTIES, 1995 AND 1996**

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Joint	Other 1/	All returns	Joint	Other 1/
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
COUNTIES: 1995						
Honolulu	20,342	42,092	13,745	25,898	49,310	18,807
Maui	21,025	36,962	14,749	25,697	42,599	19,192
Hawaii	15,417	31,212	10,015	22,058	40,051	16,249
Kauai	16,643	32,256	12,154	22,180	38,476	16,969
COUNTIES: 1996						
Honolulu	20,822	41,634	13,768	26,078	50,023	18,595
Maui	19,876	39,062	14,966	24,788	45,507	18,375
Hawaii	14,834	27,953	10,296	20,891	38,567	14,848
Kauai	17,753	30,914	11,180	23,877	40,297	18,033

1/ Including single, married filing separately, and qualifying widows and widowers.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals* (annual), and Hawaii Income Patterns - Individuals 1996 Errata Sheet (April, 1999).

**Table 9.18-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:
1997 AND 1998**

[Data for 1997 have been revised. In thousands of dollars. Data are on a cash basis accounting]

Source of revenue	Tax base		Tax collections	
	1997 1/	1998	1997 1/	1998
All sources	47,708,855	45,274,190	1,433,012	1,436,654
Sources taxed at 4 percent	33,068,609	31,816,429	1,322,744	1,272,657
Retailing	15,973,955	15,146,134	638,958	605,845
Services	5,414,691	5,431,503	216,588	217,260
Contracting	2,944,427	2,906,189	117,777	116,248
Theater, amusement, radio	229,802	227,543	9,192	9,102
Interest	205,513	216,024	8,221	8,641
Commissions	634,312	657,310	25,372	26,292
Hotel rentals	2,155,319	1,957,068	86,213	78,283
All other rentals	3,826,024	3,653,585	153,041	146,143
Use (4 percent)	499,051	433,653	19,962	17,346
All others (4 percent)	1,185,516	1,187,422	47,421	47,497
Sources taxed at other rates 2/	14,640,247	13,457,761	70,584	65,182
Insurance solicitors	747,825	601,997	1,122	903
Sugar processing	6,309	9,074	32	45
Pineapple canning	4,793	4,707	24	24
Producing	505,557	462,467	2,528	2,312
Manufacturing	581,259	527,945	2,906	2,640
Wholesaling	8,101,894	7,719,479	40,509	38,597
Services (intermediary)	283,064	317,133	1,415	1,586
Use (1/2 percent)	4,409,546	3,814,959	22,048	19,075
Unallocated net collections 3/	-	-	39,683	98,815

1/ 1997 tax base and collections reflect Department of Taxation as reported in "Calendar Year Summary 02/18/99".

2/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

3/ Includes electronic fund payments not identified by source, penalty and interest, assessments and corrections, delinquent collections, refunds, protested payments and settlements, etc.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" and "General Excise and Use Tax Collections" (calendar year summary tables).

Table 9.19-- TOBACCO TAX COLLECTIONS: 1994 TO 1998

[In dollars]

Year	Cigarettes 1/	Other tobacco products 2/
1994	33,424,978	2,802,993
1995	34,683,672	2,765,172
1996	35,836,158	1,805,131
1997	32,878,288	2,677,839
1998	35,694,448	3,804,475

1/ The rate per cigarette was changed on July 1, 1993 to \$0.03 (Act 220; SLH 1993) September 1, 1997 to \$0.04 and on July 1, 1998 to \$0.05.

2/ Other [than cigarettes] tobacco products are taxed at 40 percent of wholesale value; see HRS, 1985 Replacement, section 245-3.

Source: Hawaii State Department of Taxation, "Tobacco Tax Collections and Licenses" (annual release).

Table 9.20-- LIQUOR TAX COLLECTIONS: 1990 TO 1998

[In thousands of dollars. Definitions and rates are as specified in Hawaii Revised Statutes Chapter 244D, and as amended]

Year	Total	Year	Total
1990	42,094	1995	37,486
1991	40,125	1996	38,624
1992	40,983	1997	38,624
1993	38,286	1998 1/	38,361
1994	38,753		

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 release).

Table 9.21-- REAL PROPERTY TAX VALUATIONS: 1986 TO 1999

[In thousands of dollars. For fiscal years ended June 30. Government parcels assessed at \$1, 1985-1987, and at 100 percent thereafter]

Year 1/	Assessor's gross valuation 2/			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 2/	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

1/ As of January 1 for Hawaii, Kauai, and Maui Counties; for the City and County of Honolulu only through 1996, and October 1 thereafter.

2/ Beginning in 1992, values shown for gross valuation exclude nontaxable properties.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1998-1999 Tax Year, State of Hawaii* (July 1998) and earlier reports.

**Table 9.22-- REAL PROPERTY TAX VALUATIONS FOR THE STATE,
1996 TO 1999, AND BY COUNTY, 1999**

[In thousands of dollars. Fiscal year ended June 30]

Subject: State	1996	1997	1998	1999
Assessor's gross valuation 1/ Land	136,153,769	135,073,354	131,536,224	125,412,154
Improvement	84,102,916	82,035,301	78,049,699	72,253,741
	52,050,803	53,038,053	53,486,525	53,158,413
Exemptions 1/	18,089,945	18,447,003	18,639,707	18,460,133
Assessor's net taxable valuation	118,063,824	116,626,351	112,896,517	106,952,021
Half of valuation on appeal	2,948,823	2,323,222	1,941,070	1,767,433
Number of appeals	8,658	6,172	5,396	3/ 3,951
Valuation for tax rate purposes	115,115,001	114,303,125	110,955,447	105,184,585
Land	75,496,496	74,076,214	70,423,702	65,316,594
Improvement	39,618,505	40,226,911	40,531,745	39,867,991
Amount to be raised by taxation 2/	605,004	593,983	582,877	579,983
Subject: Tax Year 1999	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/ 2/ Land	92,026,147	15,336,101	12,074,938	5,974,968
Improvement	55,219,086	7,882,852	6,102,899	3,048,904
	36,807,061	7,453,249	5,972,039	2,926,064
Exemptions 1/	13,960,489	1,599,458	2,051,998	848,188
Assessor's net taxable valuation	78,065,658	13,736,643	10,022,940	5,126,780
Half of valuation on appeal	1,437,287	143,486	93,497	93,163
Number of appeals	3/ 1,910	436	915	690
Valuation for tax rate purposes	76,628,371	13,593,157	9,929,443	5,033,614
Land	49,647,882	7,395,743	5,550,138	2,722,831
Improvement	26,980,489	6,197,414	4,379,305	2,310,783
Amount to be raised by taxation	392,962	74,349	81,577	31,095

This table conforms to the convention of "Fiscal Year ending June 30, 1999" as 1999. Earlier *Data Book* tables may have used as "Year" that beginning July 1.

1/ Beginning in 1992, data exclude nontaxable properties.

2/ As of January 1, but beginning in 1997, as of October 1 for the City and County of Honolulu only.

3/ Source revised August 19, 1998.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1998-1999 Tax Year, State of Hawaii* (July 1998) and as revised August 19, 1998; and earlier reports.

**Table 9.23-- REAL PROPERTY TAX EXEMPTIONS FOR THE STATE, BY TYPE:
TAX YEARS 1998 AND 1999**

Type of exemption	1998		1999	
	Number	Amount 1/ (\$1,000)	Number	Amount 1/ (\$1,000)
All exemptions, Statewide	222,118	39,036,467	226,532	37,666,462
Federal government	514	4,435,568	565	3,703,042
State government	7,574	10,712,787	7,941	10,319,961
County government	3,976	4,399,728	3,997	4,131,876
Government leases - Total	153	69,670	160	57,985
Government leases - Portion	102	19,669	105	23,057
Hawaiian Homes Commission	1,806	304,517	1,810	292,875
Hawaiian Homes Land - Basic	609	59,901	600	40,932
Hawaiian Homes Land - Multiple	324	38,653	332	29,129
Hawaiian Homes Land - Total land	2,675	499,717	2,696	472,318
Hawaiian Homes Land - Vacant land	137	731	142	105
Hawaiian Homes - 7 Year	300	54,592	392	54,922
Homes - fee (Basic)	92,196	3,794,146	93,111	3,829,678
Homes - fee (Multiple)	81,041	7,889,230	83,862	8,157,642
Homes - lease (Basic)	6,514	263,610	6,135	248,026
Homes - lease (Multiple)	5,457	527,394	5,462	518,254
Additional home exemption	1,094	41,368	1,186	41,718
Blind	469	12,344	483	12,488
Deaf	139	3,795	149	3,920
Leprosy	9	225	8	189
Totally disabled	5,897	166,061	5,921	162,644
Totally disabled veterans	529	134,568	565	133,981
Cemeteries	106	47,591	104	44,178
Charitable organizations	905	1,005,062	948	1,001,267
Churches	1,434	1,323,525	1,448	1,230,484
Civil - Condemnation	69	22,495	63	68,444
Credit Unions	67	68,946	68	68,353
Crop shelters	51	3,412	52	3,432
Foreign consulates	9	20,388	13	14,912
Forest reserve	7	4,119	6	4,115
Historic residential properties	83	62,271	90	61,209
Hospitals	83	544,480	86	540,956
Landscaping, open-space	48	22,435	49	20,092
Low-moderate income housing	795	912,137	1,092	888,142
Public utilities	806	739,015	774	709,366
Roadways and waterways	5,870	11,872	5,841	11,758
Schools	174	800,115	185	745,339

Continued on next page.

**Table 9.23-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE:
1998 AND 1999 - Con.**

Type of exemption	1998		1999	
	Number	Amount 1/ (\$1,000)	Number	Amount 1/ (\$1,000)
Setbacks	6	999	5	897
Slaughterhouse	2	2,612	2	2,629
Taro	51	20	48	28
Miscellaneous	37	16,698	36	13,119

1/ Includes government parcels at actual value and exemptions on federal leases, if any.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1997-1998 Tax Year, State of Hawaii* (July 1997) and *Ibid, 1998-1999* (July 1999).

**Table 9.24-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES:
FISCAL YEAR 1998- 1999**

[In thousands of dollars. For fiscal year ended June 30, 1999]

Land use class	Gross valuation, January 1, 1998 1/			Amounts to be raised by taxation, fiscal 1998-99
	Total	Land	Improvement	
All classes	125,412,154	72,253,741	53,158,413	579,983
Improved residential 2/	50,918,418	34,460,735	16,457,683	158,039
Apartment	23,133,226	8,558,955	14,574,271	86,936
Commercial	14,413,353	8,119,181	6,294,172	106,736
Industrial	7,271,971	4,871,864	2,400,107	57,525
Agricultural	4,744,650	3,216,332	1,528,318	33,953
Conservation	1,281,385	1,153,826	127,559	9,342
Hotel/resort	10,462,769	4,618,106	5,844,663	88,690
Unimproved residential 2/	2,132,308	1,864,218	268,090	7,850
Homeowner 3/	7,861,013	3,648,464	4,212,549	19,736
Single family 4/	1,604,824	1,004,383	600,441	7,187
Homestead 4/	1,588,237	737,677	850,560	3,989

1/ Excludes nontaxable properties. Beginning in 1997, valuation for the City and County of Honolulu is as of October 1.

2/ Excludes Kauai.

3/ Maui and Hawaii only.

4/ Kauai only.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1998-1999 Tax Year, State of Hawaii* (July 1998).

Table 9.25-- MAJOR REAL PROPERTY TAXPAYERS, FOR THE CITY AND COUNTY OF HONOLULU: FISCAL YEAR 1995-1996

Rank	Taxpayer	Original debit 1/ (dollars)	Land area (acres)	Gross assessed value 2/ (dollars)
	Top 20 real property taxpayers	96,758,459	68,422.71	15,092,404,781
1	Bishop Estate	20,004,241	24,701.03	4,942,126,000
2	Queen's Medical Center et al	10,071,345	2,206.37	1,331,162,300
3	Kyo-Ya Co., Ltd.	6,729,256	14.11	700,138,700
4	Hilton Hawaiian Village Joint Venture	6,335,541	19.16	657,193,300
5	James Campbell Trust Estate	6,278,385	15,358.00	993,611,600
6	Samuel M. Damon Trust Estate	5,548,822	3,973.27	672,207,400
7	Liliuokalani Trust	5,359,686	35.61	765,913,500
8	Daiei/Equity Life	4,913,649	60.56	581,582,300
9	Dole Food Company	3,786,278	17,418.83	619,914,200
10	Victoria Ward Ltd.	3,597,419	65.53	427,812,300
11	Outrigger Hotels Hawaii	2,935,593	9.99	325,055,300
12	Bancorp Hawaii Inc.	2,911,050	59.48	562,642,000
13	Loyalty Development	2,602,228	92.45	356,021,700
14	Bishop Square Associates	2,450,692	2.92	292,868,400
15	Gentry Properties, etc.	2,415,373	816.89	467,401,181
16	MFD Partners	2,357,918	6.27	281,800,300
17	First Hawaiian Inc.	2,316,480	87.15	345,980,500
18	AZABU Corporation	2,126,901	500.46	230,382,300
19	Robinson Trust Estate	2,046,179	2,992.28	332,526,000
20	Steiner, James Trust Estate	1,971,423	2.35	206,065,500

1/ As of July 1, 1995.

2/ Land and improvements. As of January 1, 1995.

Source: City and County of Honolulu, Real Property Assessment Division, Administration/Technical Branch, records.

Table 9.26-- MAJOR REAL PROPERTY TAXPAYERS, FOR THE CITY AND COUNTY OF HONOLULU: FISCAL YEAR 1996-1997

Rank	Taxpayer	Original debit 1/ (dollars)	Land area (acres)	Gross assessed value 2/ (dollars)
	Top 20 real property taxpayers	91,783,353	67,001.57	14,191,441,621
1	Bishop Estate	18,388,097	24,717.62	4,619,327,100
2	Queen's Medical Center et al	9,133,663	2,196.94	1,199,444,600
3	James Campbell Trust Estate	6,946,543	14,382.50	883,228,400
4	Hilton Hawaiian Village Joint Venture	6,080,570	19.16	630,744,000
5	Kyo-Ya Co., Ltd.	5,468,839	14.11	568,811,900
6	Samuel M. Damon Trust Estate	5,375,264	3,973.26	653,492,800
7	D/E Hawaii Joint Venture	5,094,583	60.56	602,524,000
8	Liliuokalani Trust	5,032,457	36.61	728,144,900
9	Dole Food Company	4,436,891	17,186.42	795,984,400
10	Victoria Ward Ltd.	3,237,366	65.53	381,974,800
11	Bancorp Hawaii Inc.	2,793,777	43.68	536,455,600
12	Outrigger Hotels Hawaii	2,678,651	8.29	292,265,400
13	First Hawaiian Inc.	2,549,336	86.78	366,730,000
14	Loyalty Development	2,525,191	64.28	308,018,000
15	Gentry Properties, etc.	2,478,561	990.21	476,214,321
16	Robinson Trust Estate	2,183,672	2,645.25	319,332,400
17	AZABU Corporation	1,929,546	499.46	207,020,500
18	Steiner, James Trust Estate	1,837,924	2.35	192,151,000
19	Bishop Square Associates	1,829,499	2.92	215,502,400
20	MFD Partners	1,782,923	5.64	214,075,100

1/ As of July 1, 1996.

2/ Land and improvements. As of January 1, 1996.

Source: City and County of Honolulu, Real Property Assessment Division, Administration/Technical Branch, records.

Table 9.27-- MAJOR REAL PROPERTY TAXPAYERS, FOR THE CITY AND COUNTY OF HONOLULU: FISCAL YEAR 1997-1998

Rank	Taxpayer	Original debit 1/ (dollars)	Land area (acres)	Gross assessed value 2/ (dollars)
	Top 20 real property taxpayers	90,367,951	59,205.13	13,657,012,936
1	Bishop Estate	17,803,300	24,679.83	4,468,146,100
2	Queen's Medical Center et al	8,811,166	2,195.60	1,158,133,600
3	James Campbell Trust Estate	6,437,646	9,417.74	856,205,000
4	Hilton Hawaiian Village Joint Venture	6,077,051	19.16	630,399,500
5	Kyo-Ya Co., Ltd.	6,029,401	14.11	626,870,300
6	D/E Hawaii Joint Venture	5,929,575	60.56	697,045,100
7	Samuel M. Damon Trust Estate	5,400,301	3,972.62	668,244,500
8	Liliuokalani Trust	5,062,357	36.61	714,581,300
9	Dole Food Company	3,877,325	17,055.48	401,989,156
10	Victoria Ward Ltd.	3,184,236	65.53	376,582,200
11	First Hawaiian Inc.	2,833,743	88.69	390,932,900
12	Outrigger Hotels Hawaii	2,831,880	9.23	306,335,300
13	Loyalty Development	2,533,563	92.45	347,407,500
14	Bancorp Hawaii Inc.	2,449,251	124.62	485,443,300
15	Gentry Properties, etc.	2,124,042	897.70	376,510,780
16	MFD Partners	1,903,207	5.64	226,292,800
17	Steiner, James Trust Estate	1,869,169	2.35	195,228,600
18	Bishop Square Associates	1,828,558	2.92	215,403,900
19	Weinberg, Harry Foundation	1,701,486	46.03	284,260,000
20	Honolulu Ltd et al	1,680,694	418.26	231,001,100

1/ As of July 1, 1997.

2/ Land and improvements. As of October 1, 1996.

Source: City and County of Honolulu, Real Property Assessment Division, Administration/Technical Branch, records.

Table 9.28--MAJOR REAL PROPERTY TAXPAYERS, FOR THE CITY AND COUNTY OF HONOLULU: FISCAL YEAR 1998-1999

Rank	Taxpayer	Original debit 1/ (dollars)	Land area (acres)	Gross assessed value 2/ (dollars)
	Top 20 real property taxpayers	92,347,169	57,881.23	13,515,385,900
1	Bishop Estate	17,862,235	24,658.86	4,181,761,300
2	Queen's Medical Center et al	9,081,263	2,190.84	1,155,906,700
3	Hilton Hawaiian Village Joint Venture	6,518,333	19.58	676,175,600
4	D/E Hawaii Joint Venture	6,475,802	60.56	731,736,200
5	James Campbell Trust Estate	6,432,782	8,287.85	834,551,200
6	Kyo-Ya Co., Ltd.	6,302,718	14.11	654,948,800
7	Liliuokalani Trust	5,275,243	36.72	712,977,200
8	Samuel M. Damon Trust Estate	4,905,863	3,966.07	580,878,800
9	Dole Food Company	4,001,462	17,009.74	619,406,900
10	Victoria Ward Ltd.	3,194,605	65.30	366,029,900
11	Outrigger Hotels Hawaii	3,061,363	9.70	329,267,500
12	First Hawaiian Inc.	2,892,795	86.61	378,592,900
13	Loyalty Development	2,369,904	92.45	349,451,600
14	Bancorp Hawaii Inc.	2,293,080	120.23	430,728,900
15	Weinberg, Harry Foundation	2,282,734	46.99	355,374,700
16	Gentry Properties, etc.	2,170,865	697.72	370,916,100
17	Steiner Family Ltd. Partnership	1,914,346	2.35	199,320,500
18	MFD Partners	1,913,582	5.64	217,664,900
19	Bishop Square Associates	1,838,116	2.92	207,460,400
20	AZABU Corporation	1,560,078	506.99	162,235,800

1/ As of July 1, 1998.

2/ Land and improvements. As of January 1, 1998.

Source: City and County of Honolulu, Real Property Assessment Division, Administration/Technical Branch, records.

Table 9.29-- RESIDENTIAL PROPERTY TAX RATES IN HONOLULU AND THE MEDIAN OF 51 MAJOR CITIES: 1985 TO 1997

Year	Effective tax rate per \$100 1/			Nominal tax rate per \$100	Honolulu assessment level (percent)
	Median city 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/	(NA)	(NA)	(NA)	(NA)	(NA)
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

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: Data from D.C. Department of Finance and Revenue cited in *Statistical Abstract of the United States, 1987* (p. 279), *1988* (pg. 281), *1989* (pg. 291), *1990* (pg. 298), *1991* (pg. 304), *1992* (pg. 303), *1993* (pg. 316), *1994* (pg. 310), *1996* (p. 311), *1997* (p. 316), and for 1996 and 1997 data, Government of the District of Columbia, *Tax Rates and Tax Burdens In the District of Columbia - A National Comparison 1996*, (July 1997), table 1 and *Ibid. 1997* (July 1998), table 1, and <<http://www.dccfo.com/Taxpayers/Publications/publications.html>>.

Table 9.30-- REAL PROPERTY TAX RATES, BY COUNTIES: 1999

[In dollars per \$1,000 net taxable value. For fiscal year ended June 30, 1999]

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential	3.49	4.75	8.50	1/ 5.24
Unimproved residential	4.00	4.75	10.00	(X)
Apartment	3.97	4.75	10.00	8.30
Hotel/resort	9.64	8.00	10.00	8.30
Commercial	8.88	6.50	10.00	8.30
Industrial	8.62	6.50	10.00	8.30
Agricultural	9.00	4.75	10.00	7.70
Conservation	9.00	4.75	10.00	8.20
Homeowner	(X)	3.50	4.45	(X)
Homestead	(X)	(X)	(X)	4.35
Building:				
Improved residential	3.49	4.75	8.50	1/ 4.35
Unimproved residential	4.00	4.75	8.50	(X)
Apartment	3.97	4.75	8.50	7.90
Hotel/resort	9.40	8.00	8.50	7.90
Commercial	8.88	6.50	8.50	7.90
Industrial	8.62	6.50	8.50	7.90
Agricultural	9.00	4.75	8.50	4.25
Conservation	9.00	4.75	8.50	4.25
Homeowner	(X)	3.50	4.45	(X)
Homestead	(X)	(X)	(X)	3.49

X Not applicable.

1/ Single family residential.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1998-1999 Tax Year, State of Hawaii* (July 1998).

Table 9.31-- FEDERAL EXPENDITURES IN HAWAII: 1986 TO 1998

[In millions of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Amount	Fiscal year	Amount	Fiscal year	Amount
1986	4,647	1991	6,198	1996	7,990
1987	4,811	1992	6,636	1997	8,159
1988	5,065	1993	7,283	1998	8,442
1989	5,571	1994	7,644		
1990	5,634	1995	7,450		

Source: U.S. Bureau of the Census, *Consolidated Federal Funds, Fiscal Year by State* (annual report, 1986-1998) and <<http://www.census.gov/govs/98cfr.pdf>>.

**Table 9.32-- FEDERAL EXPENDITURES IN HAWAII,
BY SOURCE, BY TYPE: 1993 TO 1998**

[In millions of dollars. For fiscal years ended September 30]

Type of expenditure	1993	1994	1995	1996	1997	1998
Federal Expenditures, by State 1/						
All categories	7,052	7,603	7,529	8,016	8,266	(NA)
Grants to State and local governments	984	1,088	1,162	1,126	1,184	(NA)
Salaries and wages	2,385	2,498	2,310	2,409	2,330	(NA)
Direct payments for individuals	2,732	2,898	3,111	3,238	3,430	(NA)
Procurement	743	905	777	1,027	1,077	(NA)
Other direct expenditure	208	213	169	217	244	(NA)
Department of Defense	2,928	3,196	2,899	3,259	3,179	(NA)
Other federal agencies	4,123	4,407	4,631	4,758	5,087	(NA)
Consolidated Federal Funds						
All categories	7,283	7,644	7,450	7,990	8,159	8,442
Grants to State and local governments	1,232	1,192	1,083	1,105	1,137	1,190
Salaries and wages	2,385	2,498	2,310	2,409	2,330	2,557
Retirement and disability	1,843	1,970	2,043	2,139	2,262	2,348
Procurement	743	905	777	1,027	1,077	1,053
Other direct payments	1,082	1,077	1,235	1,311	1,352	1,293
Department of Defense	2,928	3,212	2,901	3,258	3,179	3,394
Other federal agencies	4,355	4,432	4,549	4,732	4,981	5,048

NA Not available.

1/ This publication was discontinued after 1997.

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report for Fiscal Year 1998* (April 1999) tables 12 and 13, and <<http://www.census.gov/govs/cffr.html>>. Ibid., *Federal Expenditures by State* (annually) tables 1 and 10, and <<http://www.census.gov/prod/2/gov/fes.html>>.

Table 9.33-- PER CAPITA DIRECT FEDERAL EXPENDITURES IN THE UNITED STATES AND HAWAII, BY TYPES: 1998

[For fiscal year ended September 30. Direct expenditures exclude federal assistance such as loans and insurance. Categories have been modified]

Category	Per capita direct federal expenditures 1/			
	United States (dollars)	Hawaii (dollars)	Hawaii as percent of U.S.	Hawaii rank 2/
All categories	5,490.88	7,076.29	128.9	5
Retirement and disability	1,876.45	1,968.50	104.9	17
Other direct payments	1,215.01	1,084.14	89.2	32
Grants to State and local governments	995.67	997.80	100.2	19
Procurement	774.18	882.32	114.0	11
Salaries and wages	629.56	2,143.52	340.5	1
Department of Defense	837.75	2,845.25	339.6	2
All other Federal agencies	4,653.13	4,231.03	90.9	37

1/ Resident population as of July 1, 1998 provisional estimate for the United States: 270,299,000 and for Hawaii: 1,193,001 (source table 10). Hawaii has 0.4 percent of the United States resident population.

2/ A rank of 1 indicates the highest per capita direct federal expenditure. Rank among the 50 states. When the District of Columbia is included, Hawaii ranked sixth for the all-categories total.

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report for Fiscal Year 1998* (April 1999), tables 10, 11, and 12, and <<http://www.census.gov/govs/98cfr.pdf>>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.34-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTY: 1998

[In thousands of dollars. For fiscal year ended September 30.
Direct expenditures exclude federal assistance such as loans and insurance]

Area	Total	City and County of Honolulu	Hawaii County	Kauai County	Maui County	State undistri- buted
Population (July 1, 1998 estimate)	1,193,001	872,478	143,135	56,603	120,785	-
Direct expenditures or obligations	8,442,010	6,807,706	590,691	268,388	400,795	374,430
Defense	3,394,391	3,253,990	37,918	60,528	41,955	-
Non-defense	5,047,619	3,553,716	552,773	207,860	358,840	374,430
Retirement and disability payments -	2,348,424	1,803,911	269,185	94,966	173,286	7,077
Social Security	1,532,895	1,087,846	217,005	79,717	148,327	-
Federal	709,877	637,556	35,510	12,021	17,713	7,077
Veterans benefit payments	80,771	59,383	12,572	2,870	5,946	-
All other	24,882	19,127	4,097	357	1,301	-
Other direct payments.	1,293,384	707,029	137,162	59,979	86,597	302,617
Other direct payments for individuals	1,191,463	701,962	136,424	59,746	85,931	207,401
Food Stamps	178,216	115,861	39,282	8,777	14,296	-
Medicare	658,685	486,748	78,142	34,722	59,073	-
Unemployment Compensation Benefits	144,949	-	-	-	-	144,949
Excess Earned Income Tax Credits	62,314	-	-	-	-	62,314
Lower Income Housing Assistance -						
Section 8 Moderate Rehabilitation	118,840	77,247	14,572	15,236	11,784	-
All other	28,459	22,105	4,428	1,010	777	138
Direct Payments Other Than For Individuals	101,921	5,068	738	233	666	95,216

Continued on next page.

Table 9.34-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTY: 1998 --Con.

Area	Total	City and County of Honolulu	Hawaii County	Kauai County	Maui County	State undistributed
Total grant awards	1,190,375	890,312	119,331	47,733	68,263	64,736
Highway Planning and Construction	91,822	38,000	11,634	11,631	24,797	5,760
Family Support Payments to States (AFDC+TANF)	98,905	69,627	17,903	3,957	7,418	-
Medical Assistance Program (Medicaid)	314,271	232,483	33,058	15,112	18,755	14,864
Other	685,378	550,203	56,736	17,033	17,294	44,113
Procurement contract awards	1,052,606	936,016	24,633	42,550	49,408	-
Defense	914,986	835,777	8,169	40,308	30,732	-
Non-defense	137,620	100,239	16,464	2,242	18,676	-
Salaries and wages	2,557,220	2,470,438	40,380	23,161	23,241	-
Defense	2,213,572	2,186,695	9,003	14,789	3,085	-
Non-defense	343,648	283,743	31,377	8,372	20,156	-
US Postal Service	151,936	124,063	11,641	4,731	11,502	-
Other	191,712	159,680	19,736	3,641	8,654	-
Other federal assistance	6,058,780	3,645,751	503,193	480,376	1,346,393	83,066
Direct loans	52,575	17,116	21,065	5,449	8,945	-
Guaranteed loans	498,584	333,666	35,457	11,271	52,530	65,660
Insurance	5,507,620	3,294,969	446,671	463,656	1,284,917	17,406

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report for Fiscal Year 1998* (April 1999) p. 38, <<http://www.census.gov/govs/98cfr.pdf>>, and <<http://www.census.gov/govs/cfr/98cffhi.txt>>.

**Table 9.35-- PUBLIC BONDED DEBT OF STATE AND COUNTY
GOVERNMENTS: 1985 TO 1997**

[In millions of dollars. As of December 31]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1985	3,131.5	2,621.2	404.0	30.8	56.7	18.8
1986	3,311.8	2,720.4	456.8	47.2	69.3	18.0
1987	3,298.4	2,700.7	448.7	48.8	67.3	32.9
1988	3,382.3	2,728.8	513.6	43.1	65.1	31.6
1989	3,710.4	2,969.9	559.5	73.6	72.4	35.0
1990	4,484.5	3,394.4	846.3	110.5	100.0	33.2
1991	5,298.1	4,214.0	831.2	108.5	96.9	47.4
1992	6,170.0	4,842.4	1,044.0	140.2	93.5	49.9
1993	6,924.7	5,219.7	1,362.6	170.4	124.5	47.6
1994	6,913.5	5,015.4	1,544.6	185.1	119.5	49.0
1995 2/	7,078.0	5,126.1	1,604.0	188.4	114.1	45.5
1996 3/	7,098.6	5,051.3	1,669.8	194.3	143.5	39.8
1997 3/ 4/	6,997.1	5,013.2	1,616.2	190.8	139.0	37.8

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/ Unpublished revisions for Total, City & County of Honolulu and County of Maui.

3/ Revised, June 7, 1999, as in *Government of Hawaii, 1997*, forthcoming.

4/ Estimated as of June 30, 1997. Does not include anticipated issues.

Source: Tax Foundation of Hawaii, *Government in Hawaii*, table 52 (annual).

Table 9.36-- STATE GENERAL OBLIGATION BOND DEBT: 1990 TO 1998

[In thousands of dollars. As of June 30]

Year	Debt	Year	Debt
1990	2,026,100	1995	2,934,965
1991	2,274,846	1996	2,869,639
1992	2,328,546	1997	3,102,288
1993	2,767,691	1998	3,387,988
1994	2,872,488		

Source: Hawaii State Department of Accounting and General Services, *State of Hawaii, Comprehensive Annual Financial Report*, Schedule I-2, annual (fiscal years 1994-98) and records.

Table 9.37-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 1998

[For earlier years, see *Data Book 1987*, table 324]

Year	Government jobs (annual averages)				State civil service workers 1/	State retirement system members 2/
	All levels	Federal	Terr. 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	34,150	57,050	14,400	20,654	53,509
1992	111,100	33,250	62,600	15,250	22,920	57,401
1993	111,600	31,800	64,250	15,500	24,267	59,518
1994	111,850	31,250	65,000	15,600	4/ 24,716	61,082
1995	111,400	31,050	63,950	16,450	4/ 24,138	60,687
1996 3/	110,550	31,100	62,800	16,600	4/ 23,338	59,275
1997	111,650	30,650	64,250	16,750	4/ 23,133	59,500
1998	112,200	30,400	64,950	16,850	4/ 23,627	60,447

1/ 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.

2/ June 30 through 1960 and March 31 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.

3/ Revised on March 5, 1998.

4/ Method revised beginning in 1994 to count all active employees, on payroll and on leave without pay, employed greater-than-50 percent full-time equivalent and appointed for more than 3 months' duration.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1978), pp. 616-617; *Data Book 1978*, p. 158; Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual); Hawaii State Department of Human Resources Development, records; *Employees' Retirement System of the State of Hawaii, Comprehensive Annual Report* (annual).

**Table 9.38--STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS,
BY FUNCTION: MARCH 1997**

[In number of jobs and thousands of dollars]

Government Function	Employment			Payroll			Part-time hours paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employees	Part-time employees	
Total	61,405	20,208	65,995	182,755	170,726	12,029	787,009
Financial Administration	1,742	12	1,746	4,820	4,813	7	770
Other Government Admin.	1,851	71	1,882	5,309	5,243	66	5,269
Judicial and Legal	2,601	67	2,628	8,376	8,291	85	4,710
Police Protection - Officers	2,615	-	2,615	11,333	11,333	-	-
Police - Other	755	213	799	2,140	2,074	67	7,618
Firefighters	1,596	-	1,596	5,810	5,810	-	-
Fire - Other	69	-	69	204	204	-	-
Correction	2,144	24	2,156	5,259	5,220	39	2,080
Streets and Highways	1,836	28	1,846	4,792	4,775	17	1,690
Airports	972	12	976	2,166	2,161	5	766
Water Trans. & Terminals	210	9	213	527	524	3	462
Welfare	1,173	46	1,192	3,379	3,357	22	3,350
Health	2,934	120	2,992	7,867	7,722	145	10,216
Hospitals	3,212	226	3,311	8,076	7,714	362	17,610
Social Ins. Admin. (State)	341	46	375	1,054	984	71	5,936
Solid Waste Management	603	-	603	1,698	1,698	-	-
Sewerage	892	3	894	2,752	2,749	2	274
Parks and Recreation	1,765	1,090	2,085	4,758	4,168	590	56,576
Hous. & Comm. Dev. (Local)	117	3	118	352	350	2	170
Natural Resources	1,330	355	1,427	4,622	4,237	385	17,754
Water Supply	1,018	33	1,028	2,990	2,975	15	1,840
Transit	69	1	69	177	176	-	28

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**Table 9.38--STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS,
BY FUNCTION: MARCH 1997 -- Con.**

Government Function	Employment			Payroll			Part-time hours paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employees	Part-time employees	
Elem. and Secondary	20,675	10,948	22,900	55,274	50,010	5,264	369,278
Instruction	16,455	6,685	17,874	45,918	42,150	3,768	235,480
Other Total	4,220	4,263	5,026	9,356	7,860	1,496	133,798
Admin/Clerical	1,583	79	1,628	3,652	3,569	82	7,462
Oper/Maint	929	2,099	1,383	2,142	1,393	749	75,400
Cafeteria	1,639	-	1,639	2,666	2,666	-	-
Health/Rec	55	190	227	586	219	367	28,586
Student (Part-time Only)	-	445	57	66	-	66	9,466
Unallocable	14	1,450	92	244	12	232	12,884
Higher Educ. - Instructional	2,012	1,434	2,447	11,595	9,560	2,036	76,994
Higher Educ. - Other	3,434	4,757	4,308	12,782	10,347	2,434	154,692
Other Education (State)	132	3	133	368	365	3	240
Local Libraries	494	222	566	1,238	1,130	108	11,946
Other and Unallocable	4,813	485	5,021	13,036	12,736	301	36,740

Source: U.S. Bureau of the Census, State and Local Government Employment and Payroll data,
<<http://www.census.gov/govs/www/apesloc.html>>.

**Table 9.39--STATE GOVERNMENT EMPLOYMENT AND PAYROLLS,
BY FUNCTION: MARCH 1997**

[In number of jobs and thousands of dollars]

Government Function	Employment			Payroll			Part-time hours paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employees	Part-time employees	
Total	47,499	18,866	51,676	137,283	126,014	11,269	714,147
Financial Admin.	954	4	955	2,583	2,581	2	238
Other Government Admin.	993	39	1,009	2,426	2,396	29	2,743
Judicial and Legal	2,041	49	2,061	6,394	6,321	72	3,516
Police Protection - Officers	-	-	-	-	-	-	-
Police - Other	-	-	-	-	-	-	-
Firefighters	-	-	-	-	-	-	-
Fire - Other	-	-	-	-	-	-	-
Correction	2,144	24	2,156	5,259	5,220	39	2,080
Streets and Highways	826	17	832	2,175	2,166	9	974
Airports	972	12	976	2,166	2,161	5	766
Water Trans. & Terminals	210	9	213	527	524	3	462
Welfare	1,074	45	1,092	3,143	3,121	21	3,204
Health	2,735	115	2,791	7,156	7,017	139	9,922
Hospitals	3,212	226	3,311	8,076	7,714	362	17,610
Social Insur.Admin. (State)	341	46	375	1,054	984	71	5,936
Solid Waste Management	-	-	-	-	-	-	-
Sewerage	-	-	-	-	-	-	-
Parks and Recreation	163	206	216	443	360	83	9,364
Hous. & Comm. Dev (Local)	-	-	-	-	-	-	-
Natural Resources	1,316	350	1,413	4,573	4,193	380	17,470
Water Supply	-	-	-	-	-	-	-
Transit	-	-	-	-	-	-	-

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**Table 9.39--STATE GOVERNMENT EMPLOYMENT AND PAYROLLS,
BY FUNCTION: MARCH 1997 -- Con.**

Government Function	Employment			Payroll			Part-time hours paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employees	Part-time employees	
Elem. & Secondary	20,675	10,948	22,900	55,274	50,010	5,264	369,278
Instruction	16,455	6,685	17,874	45,918	42,150	3,768	235,480
Other Total	4,220	4,263	5,026	9,356	7,860	1,496	133,798
Admin/Clerical	1,583	79	1,628	3,652	3,569	82	7,462
Oper/Maint	929	2,099	1,383	2,142	1,393	749	75,400
Cafeteria	1,639	-	1,639	2,666	2,666	-	-
Health/Rec	55	190	227	586	219	367	28,586
Student (Part-time Only)	-	445	57	66	-	66	9,466
Unallocable	14	1,450	92	244	12	232	12,884
Higher Educ - Instructional	2,012	1,434	2,447	11,595	9,560	2,036	76,994
Higher Education - Other	3,434	4,757	4,308	12,782	10,347	2,434	154,692
Other Education (State)	132	3	133	368	365	3	240
Local Libraries	494	222	566	1,238	1,130	108	11,946
Other and Unallocable	3,771	360	3,922	10,051	9,842	209	26,712

Source: U.S. Bureau of the Census, State and Local Government Employment and Payroll data,
<<http://www.census.gov/govs/www/apesloc.html>>.

Table 9.40--LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION: MARCH 199

[In number of jobs and thousands of dollars]

Government Function	Employment			Payroll			Part-time hours paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employees	Part-time employees	
Total	13,906	1,342	14,319	45,472	44,712	760	72,862
Financial Admin.	788	8	791	2,237	2,232	5	532
Other Government Admin.	858	32	873	2,883	2,847	37	2,526
Judicial and Legal	560	18	567	1,982	1,969	13	1,194
Police Protection - Officers	2,615	-	2,615	11,333	11,333	-	-
Police - Other	755	213	799	2,140	2,074	67	7,618
Firefighters	1,596	-	1,596	5,810	5,810	-	-
Fire - Other	69	-	69	204	204	-	-
Correction	-	-	-	-	-	-	-
Streets and Highways	1,010	11	1,014	2,617	2,609	8	716
Airports	-	-	-	-	-	-	-
Water Trans. & Terminals	-	-	-	-	-	-	-
Welfare	99	1	100	237	236	1	146
Health	199	5	201	711	705	6	294
Hospitals	-	-	-	-	-	-	-
Social Insur.Admin. (State)	-	-	-	-	-	-	-
Solid Waste Management	603	-	603	1,698	1,698	-	-
Sewerage	892	3	894	2,752	2,749	2	274
Parks and Recreation	1,602	884	1,869	4,315	3,808	506	47,212
Hous. & Comm. Dev (Local)	117	3	118	352	350	2	170
Natural Resources	14	5	14	49	44	5	284
Water Supply	1,018	33	1,028	2,990	2,975	15	1,840
Transit	69	1	69	177	176	-	28

Continued on next page.

**Table 9.40--LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION:
MARCH 1997 -- Con.**

Government Function	Employment			Payroll			Part-time hours paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employees	Part-time employees	
Elem. & Secondary	-	-	-	-	-	-	-
Instruction	-	-	-	-	-	-	-
Other Total	-	-	-	-	-	-	-
Admin/Clerical	-	-	-	-	-	-	-
Oper/Maint	-	-	-	-	-	-	-
Cafeteria	-	-	-	-	-	-	-
Health/Rec	-	-	-	-	-	-	-
Student (Part-time Only)	-	-	-	-	-	-	-
Unallocable	-	-	-	-	-	-	-
Higher Educ - Instructional	-	-	-	-	-	-	-
Higher Education - Other	-	-	-	-	-	-	-
Other Education (State)	-	-	-	-	-	-	-
Local Libraries	-	-	-	-	-	-	-
Other and Unallocable	1,042	125	1,099	2,985	2,893	92	10,028

Source: U.S. Bureau of the Census, State and Local Government Employment and Payroll data, <<http://www.census.gov/govs/www/apesloc.html>>.

**Table 9.41-- FULL-TIME EQUIVALENT CIVIL SERVICE AND EXEMPT
EMPLOYMENT, BY DEPARTMENT, IN THE HAWAII STATE EXECUTIVE
BRANCH: 1994 TO 1998**

[As of December 31. In number of employees]

Department	1994	1995	1996	1997	1998
Total 1/	45,604.035	42,724.379	42,638.339	43,239.136	43,505.538
Accounting & Gen. Services	910.000	816.500	804.000	992.500	990.500
Agriculture	454.750	366.000	350.600	356.750	345.000
Attorney General	558.462	523.250	529.500	555.975	555.000
Budget and Finance	711.500	601.500	579.000	382.500	313.000
Busi., Econ Dev & Tourism	317.250	249.640	266.500	260.990	607.000
Commerce & Consumer Aff.	439.250	380.000	407.200	409.200	412.100
Defense	248.100	236.000	245.500	245.675	228.000
Education	17,846.425	17,671.110	17,804.878	18,194.987	18,502.012
Governor	225.612	152.990	69.490	70.990	66.780
Hawaiian Home Lands	138.000	121.000	134.600	132.600	130.900
Health	6,537.390	6,177.400	6,216.550	6,199.700	6,104.300
Human Resources Devel.	166.050	141.000	134.000	125.000	119.000
Human Services	2,390.975	2,210.600	2,251.975	2,229.475	1,943.450
Labor & Industrial Relations	930.235	776.305	754.715	753.575	747.220
Land & Natural Resources	806.570	711.460	719.270	730.390	723.870
Lieutenant Governor	67.500	37.000	52.977	38.495	44.995
Public Safety	2,218.050	1,987.800	1,976.275	2,079.975	2,116.500
Taxation	409.750	359.000	358.000	361.500	337.000
Transportation	2,427.500	2,235.350	2,243.650	2,330.950	2,409.750
University of Hawaii	7,800.666	6,970.474	6,739.659	6,787.909	6,809.161

1/ Employee is defined as a person holding a position, civil service or exempt from civil service; permanently or temporarily; on a full-time or part-time basis; and paid regularly either hourly or salaried. For this report, emergency hires are included. Full-time equivalency (FTE) means that one FTE indicates a 40-hour workweek, so two part-time employees, each working 20-hour week are 1.000 FTE.

Source: Hawaii Department of Human Resource Development, *Hawaii State Government Workforce Profile 1995* (February, 1996), p. 7; and Department of Human Resource Development "Composition of Executive Branch Workforce", quarterly.

Table 9.42-- EMPLOYMENT, BY TYPE, IN THE HAWAII STATE EXECUTIVE BRANCH: DECEMBER 31, 1998

Department	Civil Service and Exempt					Paid casual employees 2/
	Employees 1/	Full time	Part time	Full-time equivalent (FTE)	FTE change since Dec. 31, 1994	
Total	45,906	41,281	4,625	43,505.538	-2,098.497	18,080
Accounting & General Services	994	987	7	990.500	80.500	433
Agriculture	348	343	5	345.000	-109.750	-
Attorney General	557	553	4	555.000	-3.462	9
Budget and Finance	315	311	4	313.000	-398.500	4
Business, Econ Dev. & Tourism	608	606	2	607.000	289.750	36
Commerce & Consumer Affairs	414	410	4	412.100	-27.150	7
Defense	229	227	2	228.000	-20.100	-
Education	19,514	17,398	2,116	18,502.012	655.587	12,048
Governor	69	64	5	66.780	-158.832	-
Hawaiian Home Lands	133	128	5	130.900	-7.100	7
Health	6,263	5,959	304	6,104.300	-433.090	62
Human Resources Dev.	119	119	-	119.000	-47.050	0
Human Services	1,948	1,939	9	1,943.450	-447.525	48
Labor and Industrial Relations	768	726	42	747.220	-183.015	76
Land and Natural Resources	727	720	7	723.870	-82.700	16
Lieutenant Governor	47	43	4	44.995	-22.505	-
Public Safety	2,121	2,112	9	2,116.500	-101.550	3
Taxation	337	337	-	337.000	-72.750	-
Transportation	2,415	2,401	14	2,409.750	-17.750	63
University of Hawaii	7,980	5,898	2,082	6,809.161	-991.505	5,268

1/ Employee is defined as a person holding a position, civil service or exempt from civil service; permanently or temporarily; on a full-time or part-time basis; and paid regularly either hourly or salaried. For this report, emergency hires are included.

2/ A paid casual employee is defined as a person employed temporarily, intermittent or on-call, full-time or part-time, such as event workers at Aloha Stadium, classroom cleaners, adult supervisors, substitutes in the public schools, students, etc. and on the payroll as of above date.

Source: Hawaii Department of Human Resource Development, "Composition of Executive Branch Workforce as of December 31, 1998".

Table 9.43-- PUBLIC EMPLOYEES INCLUDED IN COLLECTIVE BARGAINING UNITS: 1998

[As of December 31, 1998, unless otherwise indicated]

Bargain- ing unit	Union	Job category	Total	State of Hawaii	City & County of Honolulu	County of Hawaii	County of Maui	County of Kauai	Dept. of Educ. 1/	Judici- ary	Univer- sity of Hawaii
		Total	54,090	23,357	8,106	1,805	1,649	865	12,416	1,430	4,462
1	UPW	Blue-collar nonsupervisors	8,785	5,469	2,047	433	466	319	-	51	-
2	HGEA	Blue-collar supervisors	881	514	262	47	39	16	-	3	-
3	HGEA	White-collar nonsupervisors	12,193	8,498	1,695	487	461	198	-	854	-
4	UPW	White-collar supervisors	606	335	148	30	26	12	-	55	-
5	HSTA	Hawaii State Teachers Assn.	11,701	-	-	-	-	-	11,701	-	-
6	HGEA	Educational officers	715	-	-	-	-	-	715	-	-
7	UHPA	University of Hawaii faculty	3,166	-	-	-	-	-	-	-	3,166
8	HGEA	Admin. & prof. technicians	1,296	-	-	-	-	-	-	-	1,296
9	HGEA	Registered prof. nurses	1,208	1,207	-	-	-	-	-	1	-
10	UPW	Institutional health & corrections workers	2,567	2,351	186	-	-	-	-	30	-
11	HFFA	Firefighters	1,711	142	967	280	217	105	-	-	-
12	SHOPO	Police officers	2,573	-	1,815	343	292	123	-	-	-
13	HGEA	Prof. & scientific workers	6,688	4,841	986	185	148	92	-	436	-

1/ As of January 28, 1999.

Source: State of Hawaii Labor Relations Board, *HLRB Informational Bulletin* No. 36, March 17, 1999.

**Table 9.44-- SALARIES OF SELECTED GOVERNMENT OFFICIALS:
1994 TO 1999**

[Annual rates, in dollars, as of January 1]

Government official	1994	1995	1996	1997	1998	1999
Governor	94,780	94,780	94,780	94,780	94,780	94,780
Lieutenant Governor	90,041	90,041	90,041	90,041	90,041	90,041
Mayor, Honolulu 1/	100,000	100,000	100,000	100,000	102,000	102,000
Mayor, Hawaii 2/	78,564	78,564	78,564	78,564	78,564	78,564
Mayor, Maui	87,098	87,098	87,098	87,098	87,098	87,098
Mayor, Kauai 3/	69,969	73,118	73,118	76,408	76,408	76,408
Chief Justice, Supreme Court	94,780	94,780	94,780	94,780	94,780	94,780
Assoc. Justice, Supreme Court	93,780	93,780	93,780	93,780	93,780	93,780
President, University of Hawaii	150,000	153,000	156,060	156,060	156,060	156,060

1/ July 1, 1997, increased from \$100,000 to \$102,000.

2/ July 1, 1993, increased from \$76,848 to \$78,564.

3/ July 1, 1996, increased from \$73,118 to \$76,408.

Source: *HRS, 1992 Supplement, Vol. I, Section 26-51*; Salary Commission of the City and County of Honolulu, *Final Report and Salary Schedule*; Hawaii, Maui, and Kauai County ordinances; Hawaii State Department of Business, Economic Development & Tourism telephone surveys; newspaper articles; for 1996: *Pacific Business News*, July 1 (p. 34), 8 (p. 33), and 22 (p. 45), 1996. For 1997: *Pacific Business News 1998 Book of Lists*, "Highest Paid Public Officials, Part I", (originally published July 7, 1997), p. 25; "Part II", (originally published July 14, 1997), p. 26; and "Part III", (originally published July 21, 1997), p. 27.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, 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 DOD, U.S. Bureau of the Census (BOC), 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. In mid-1996, for example, the number of armed forces in Hawaii was reported as 36,392 by the DOD, 47,986 by the BOC, and 43,019 by the local commanding officers reporting to DBEDT. *Historical Statistics of Hawaii*, Section 26, includes series on the armed forces dating back to 1795. Section 11 of the *Statistical Abstract of the United States: 1998* presents data on national defense and veterans affairs for other states and the U.S. as a whole.

Table 10.01-- HAWAII RESIDENTS ON ACTIVE DUTY WITH THE U.S. ARMED FORCES WORLDWIDE: 1950 TO 1995

[As of June 30, unless otherwise specified. 1950-1979 based on pre-service residence; 1980-1995, on home of record]

Year	Number	Year	Number	Year	Number
1950	7,699	1966	15,875	1981	11,927
1951	10,958	1967	18,048	1982	11,926
1952	16,594	1968	22,433	1983	11,641
1953	16,217	1969	15,856	1984	11,466
1954	16,189	1970	15,331	1985	10,827
1955	15,175	1971	13,600	1986	10,882
1956	15,243	1972	11,600	1987	10,896
1957	14,687	1973	10,200	1988	10,548
1958	13,310	1974	10,810	1989 2/	10,501
1959	12,596	1975	10,640	1990	10,052
1960 1/	12,662	1976	10,600	1991	10,076
1961	11,340	1977	10,640	1992	8,432
1962	13,464	1978	10,715	1993	7,621
1963	14,944	1979 1/	11,069	1994	5,098
1964	15,000	1980	11,851	1995 3/	4,237
1965	15,109				

1/ As of March 31 or April 1.

2/ 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).

3/ For 1995, Defense Manpower Data Center does not include home-of-record for U.S. Air Force.

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; 1970-1995 from U.S. Department of Defense, Defense Manpower Data Center, records.

**Table 10.02-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES:
1980 TO 1998**

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ from similar series compiled by the Bureau of the Census and Department of Defense]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1980: April 1	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1	127,887	60,804	56,321	4,483	67,083	31,415
1985: July 1	122,286	58,005	53,848	4,157	64,281	29,997
1986: July 1	124,794	58,584	53,616	4,968	66,210	29,481
1987: July 1	125,127	60,277	56,322	3,955	64,850	32,038
1988: July 1	133,958	64,053	60,621	3,432	69,905	34,535
1989: July 1	116,644	56,370	53,263	3,107	60,274	31,652
1990: April 1	113,833	53,898	50,681	3,217	59,935	30,934
1991: July 1	117,141	53,813	51,197	2,616	63,328	28,655
1992: July 1	109,959	52,965	50,206	2,759	56,994	23,751
1993: July 1 2/	107,603	45,437	44,152	1,285	62,166	25,952
1994: July 1	98,531	44,193	42,790	1,403	54,338	27,478
1995: July 1 3/	92,490	45,971	43,839	2,132	46,519	21,700
1996: July 1	98,356	43,019	40,457	2,562	55,337	24,667
1997: July 1 4/	97,344	41,769	38,884	2,885	55,575	22,996
1998: July 1 5/	101,311	40,773	37,761	3,012	60,538	24,965

1/ Beginning in 1982, ship crews living ashore are included with the total ashore.

2/ Air Force and Marine Corps data for 1993 partly estimated.

3/ Coast Guard and Marine Corps data for 1995 partly estimated.

4/ Coast Guard and Marine Corps data for 1997 estimated.

5/ Air Force and Army data for 1998 partly estimated.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers.

**Table 10.03-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES,
BY SERVICE AND ISLAND: JULY 1, 1997 AND 1998**

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense]

Island and service	Personnel and dependents	Military personnel				Dependents in Hawaii	Military families
		Ashore and afloat	Living ashore		Living aboard ship		
			In hsg. units	In barracks			
1997 1/ State total	97,344	41,769	26,888	11,996	2,885	55,575	22,996
By island:							
Oahu	96,830	41,575	26,731	11,959	2,885	55,255	22,881
Hawaii	93	34	34	-	-	59	25
Maui	73	25	25	-	-	48	17
Kauai	348	135	98	37	-	213	73
By service:							
Air Force	11,002	4,614	3,888	726	-	6,388	2,550
Army	39,896	15,330	10,446	4,884	-	24,566	9,405
Coast Guard	3,109	1,376	1,155	76	145	1,733	714
Marine Corps	11,585	5,800	2,274	3,526	-	5,785	2,909
Navy	31,752	14,649	9,125	2,784	2,740	17,103	7,418
1998 2/ State total	101,311	40,773	26,190	11,571	3,012	60,538	24,965
By island:							
Oahu	100,799	40,576	26,049	11,515	3,012	60,223	24,837
Hawaii	110	41	29	12	-	69	23
Maui	71	27	21	6	-	44	15
Kauai	331	129	91	38	-	202	90
By service:							
Air Force	9,785	3,223	2,534	689	-	6,562	2,881
Army	42,796	15,484	10,925	4,559	-	27,312	10,275
Coast Guard	3,045	1,324	1,086	76	162	1,721	680
Marine Corps	12,079	5,724	2,351	3,373	-	6,355	2,969
Navy	33,606	15,018	9,294	2,874	2,850	18,588	8,160

1/ Coast Guard and Marine Corps data for 1997 estimated.

2/ Air Force and Army data for 1998 partly estimated.

Source: Hawaii State Department of Business, Economic Development & Tourism records.

**Table 10.04-- DEPARTMENT OF DEFENSE PERSONNEL
AND DEPENDENTS: 1989 TO 1998**

[As of September 30. 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

1/ Excludes Navy personnel afloat or temporary shore-based, e.g., 5,600 in 1995.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Includes Army personnel performing civil functions.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, *Department of Defense Selected Manpower Statistics* (annual), and at <<http://web1.whs.osd.mil/diorhome.htm>> and at <<http://web1.whs.osd.mil/mmids/mo1/fy96>>; for 1997 <<http://web1.whs.osd.mil/mmids/m02/97city.htm>>, June 8, 1998. For 1998: *Worldwide Manpower Distribution by Geographical Area, September 30, 1998* (p. 1) and <<http://web1.whs.osd.mil/mmids/m05sep98.pdf>>.

**Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND
MILITARY DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1997 AND 1998**

Category	All services	Army	Navy	Air Force	Marine Corps
1997					
Total	92,546	42,825	28,499	9,927	11,295
Military personnel 1/ Dependents 2/	34,826 57,720	15,249 27,576	9,840 18,659	3,614 6,313	6,123 5,172
Direct-hire civilians 3/	17,216	4,779	9,367	1,951	(NA)
1998					
Total	87,286	39,874	24,894	10,417	12,101
Military personnel 1/ Dependents 2/	34,643 52,643	15,133 24,741	7,882 17,012	4,547 5,870	7,081 5,020
Direct-hire civilians 3/	16,732	4,437	9,237	1,991	(NA)

1997 dependents data are revised and civilian personnel data included.

NA Not available.

1/ Active duty. Data exclude personnel afloat or temporary shore-based.

2/ Dependents of active-duty military personnel.

3/ Source data includes Marine Corps with Navy. Total includes Other Department of Defense direct-hire civilians of 1,125 and 1,067 for 1997 and 1998 respectively.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1997*, and <<http://web1.whs.osd.mil/military/309A997.htm>>.

For 1998: *Worldwide Manpower Distribution by Geographical Area, September 30, 1998* (pp. 1, 27, 31, 34, and 41) and <<http://web1.whs.osd.mil/mmid/m05sep98.pdf>>.

Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SELECTED LOCATIONS: SEPTEMBER 30, 1998

Installation or geographic area	Total DOD	Military personnel 1/	Civilian personnel 2/
State total	50,671	34,643	16,028
Aiea	287	21	266
Barbers Point NAS	1,799	1,407	392
Camp H.M. Smith	1,199	1,199	-
Ford Island	401	115	286
Fort Shafter	2,706	1,338	1,368
Hickam AFB	4,715	3,561	1,154
Honolulu	458	240	218
Kaneohe	6,969	6,375	594
Kunia	1,420	1,355	65
Lualualei	335	107	228
Pearl Harbor	12,848	5,077	7,771
Schofield Barracks	11,564	10,400	1,164
Tripler Army Med Ctr	2,777	1,510	1,267
Wahiawa	628	483	145
Wheeler AFB/Army Fld	1,768	1,275	493
Kauai Island	241	94	147
Other	556	86	470

1/ Active duty. Navy figure includes Marine Corps and excludes personnel afloat or temporary shore-based.

2/ Direct hire. Army data include civil function personnel.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports at <<http://web1.whs.osd.mil/mmid/m02/98city.htm>.

**Table 10.07-- FEDERAL DEFENSE EXPENDITURES ON HAWAII GROSS
STATE PRODUCT AND EMPLOYMENT: 1985 TO 1998**

[In millions of dollars unless otherwise indicated]

Year	Gross State Product (GSP)	Federal Defense				
		Expenditures 1/			Employment	
		Total	Percent change from year previous	As percent of GSP	Civilian jobs	Armed forces 2/
1985	17,139.7	3,110.6	(NA)	16.0	20,750	56,383
1986	18,483.0	3,091.7	-0.6	14.8	20,400	58,122
1987	20,027.3	3,073.7	-0.6	13.6	20,100	58,122
1988	22,324.0	3,191.3	3.8	12.6	20,200	56,815
1989	24,574.7	3,294.7	3.2	11.9	20,100	56,360
1990	27,033.6	3,349.6	1.7	11.0	19,350	1 / 55,222
1991	28,614.4	3,652.3	9.0	11.3	18,850	54,738
1992	30,259.6	3,831.7	4.9	11.2	18,100	55,099
1993	31,171.9	3,735.2	-2.5	10.6	17,450	52,674
1994	31,965.3	3,799.5	1.7	10.5	16,850	52,845
1995	32,723.7	3,773.2	-0.7	10.2	16,750	50,729
1996	33,509.1	3,923.1	4.0	10.3	16,800	47,986
1997	34,179.3	4,077.9	3.9	10.5	16,300	44,542
1998	34,914.8	4,072.3	-0.1	10.3	16,050	44,984

1/ Revised.

2/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. See table 1.03 for historical data.

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

**Table 10.08-- FEDERAL EXPENDITURES FOR ARMY AND AIR
NATIONAL GUARD FOR HAWAII: 1997 AND 1998**

[In dollars. Fiscal year ended September 30]

Category	1997		1998	
	Army	Air	Army	Air
Total Federal support for National Guard in Hawaii	53,006,291	78,454,685	62,114,696	90,481,934
Total Funds allotted by National Guard to Hawaii	35,700,186	59,065,615	44,431,767	70,700,899
National Guard Personnel Appropriation	8,211,257	1,263,630	9,320,398	1,498,488
Military pay, transportation, and subsistence	7,322,995	929,349	8,433,186	1,040,985
Military uniform	619,645	193,708	579,530	355,779
Subsistence	268,617	140,573	307,682	101,724
Oper. and maint., military constr. approp. - Army	25,224,219	57,801,985	32,745,755	69,202,411
Civilian pay	14,399,003	38,450,571	14,956,832	39,611,797
Transportation and travel	1,241,014	720,847	1,275,763	633,352
Personnel	367,709	688,633	336,511	597,410
Equipment and supplies	873,305	32,214	939,252	35,942
Equipment, supplies and service	5,664,430	18,630,567	5,534,372	28,957,262
Organizational equipment	865,781	755,644	701,377	656,630
Petroleum, oils and lubricants	623,306	(NA)	348,341	(NA)
Repair parts and services	1,711,888	(NA)	1,938,084	(NA)
Other operating supplies and services	2,463,455	(NA)	2,546,570	(NA)
Supplies	(NA)	3,691,567	(NA)	4,524,488
Depot level repairables	(NA)	7,818,694	(NA)	12,249,912
Aviation fuel	(NA)	0	(NA)	0
Other operating supplies and services	(NA)	1,060,291	(NA)	1,663,648
Construction repairs	(NA)	5,304,371	(NA)	9,862,584
Major construction	(NA)	2,730,303	(NA)	7,254,127
Major construction/major repairs	(NA)	1,128,168	(NA)	1,177,548
Operations and maintenance agreements	(NA)	1,445,900	(NA)	1,430,909
Construction, repairs, and utilities	3,919,772	(NA)	10,978,788	(NA)
Armory construction	188,698	(NA)	4,305,704	(NA)
Architectural and engineering services	81,562	(NA)	249,397	(NA)
Non-armory construction	425,000	(NA)	2,102,843	(NA)
Maintenance, repairs, and minor construction	3,069,311	(NA)	4,154,779	(NA)
Utilities	155,201	(NA)	166,065	(NA)
Oper. & maint. Def. Approp.-Army Youth Challenge	2,264,710	(NA)	2,365,614	(NA)
Total Funded directly by National Guard Bureau	17,306,105	19,389,070	17,682,929	19,781,035
Army drill pay	7,083,150	(NA)	7,163,508	(NA)
AGR pay	10,222,955	(NA)	10,519,421	(NA)
Annual training pay	(NA)	2,287,224	(NA)	2,287,224
Other active duty pay	(NA)	2,321,827	(NA)	2,321,827
Inactive duty training pay	(NA)	6,720,394	(NA)	6,720,394
Basic training pay	(NA)	803,083	(NA)	803,083
Active Guard Reserve pay	(NA)	7,256,542	(NA)	7,256,542

NA Not available.

Source: Hawaii Department of Defense, *Annual Report Fiscal Year 1997*, p. 47; and *1998*, p. 48.

Table 10.09-- NATIONAL GUARD STRENGTH: 1990 TO 1998

[Actual strength 1/]

Year	Total	Army National Guard	Air National Guard
1990	5,711	3,587	2,124
1991	5,632	3,554	2,078
1992	5,628	3,500	2,128
1993	5,632	3,391	2,241
1994	5,611	3,480	2,131
1995	5,668	3,358	2,310
1996	5,415	3,029	2,386
1997	5,511	3,120	2,391
1998	5,475	3,053	2,422

1/ As of late June for 1990-1995, late November for 1996, September 30 for 1997 and 1998.

Source: Hawaii State Department of Defense, records for 1990-96, *Annual Report Fiscal Year 1997*, p. 47; and *1998*, p. 48.

**Table 10.10-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY,
AND NAVY: ANNUAL AVERAGES, 1990 TO 1998**

Year	Total	Air Force	Army	Navy
1990	19,350	2,300	5,600	11,450
1991	18,850	2,250	5,400	11,200
1992	18,100	2,200	4,800	11,100
1993	17,450	2,150	4,600	10,700
1994	16,850	2,000	4,600	10,250
1995	16,750	2,100	4,450	10,200
1996	16,800	2,100	4,850	9,850
1997	16,300	2,050	5,000	9,250
1998	16,050	2,050	4,900	9,100

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book*, May 1997, p. 11; <<http://www.state.hi.us/dlir/loihi/LFR/cst1998b.txt>>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.11-- MILITARY ACCESSIONS IN HAWAII, BY BRANCH OF SERVICE:
1978 TO 1997**

[In fiscal year October 1 to September 30. Includes prior service accessions]

Year	Total accessions	Army	Navy	Air Force	Marine Corps
1978	1,751	748	336	520	147
1979	1,648	660	334	482	172
1980	1,518	712	317	364	125
1981	1,451	603	317	427	104
1982	1,183	550	195	363	75
1983	1,098	563	154	313	68
1984	1,296	644	243	308	101
1985	1,268	597	250	349	72
1986	1,341	554	305	387	95
1987	1,125	497	272	268	88
1988	907	397	246	180	84
1989	833	387	201	145	100
1990	578	220	186	108	64
1991	455	158	126	110	61
1992	421	124	121	123	53
1993	394	137	113	114	30
1994	338	124	80	93	41
1995	347	135	112	78	22
1996	516	198	108	154	56
1997	733	293	146	224	70

Source: U.S. Department of Defense, Defense Manpower Data Center (DMDC), DMDC Data Archive Request <<http://www.dmdc.osd.mil/ids/archive/accession.html>>, accessed August 3, 1999.

**Table 10.12-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM:
1994 TO 1998**

[In thousands of dollars. Fiscal years ended September 30.
Net value of Department of Defense prime contracts over \$25,000]

Procurement program 1/	1994	1995	1996	1997	1998
Total	803,297	673,640	928,480	957,353	889,607
Airframes and spares	-	-	39	581	877
Aircraft engines and spares	-	-	89	-	-
Other aircraft equipment	-	34	67	-	831
Missile and space systems	7,975	20,452	6,088	9,694	7,843
Ships	22,049	23,789	18,140	18,394	7,692
Non-combat vehicles	-	-	-	-	41
Ammunition	-	-	-	-	85
Electronics and communication equip.	25,855	26,485	30,838	36,222	38,840
Petroleum	26,056	34,574	33,633	47,883	44,523
Containers and hauling equipment	-	1,039	-	-	-
Textiles, clothing, and equipage	-	75	124	-	-
Building supplies	811	747	584	576	352
Subsistence	13,121	11,544	8,436	9,158	20,623
Production equipment	26	-	-	2/ 64	-
Construction	484,046	318,231	513,290	524,134	469,862
Construction equipment	-	-	-	124	1,990
Transportation equipment	-	-	-	1/ 2/ -	-
Medical and dental supplies and equip.	1,876	1,245	6,255	5,823	7,580
Photographic supplies and equipment	39	45	-	-	29
Materials handling equipment	-	-	2/ 1,629	8,089	411
All other supplies and equipment	23,891	34,841	55,974	40,487	32,747
Services	197,551	200,537	253,294	256,123	255,280

1/ Procurement programs with no expenditures for the 1994-98 period are: Combat vehicles, Weapons, Other fuels and lubricants and Transportation equipment.

2/ Revised.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Prime Contract Awards by Region and State, Fiscal Years 1993, 1992, and 1991*, p. 29; and <<http://web1.whs.osd.mil/peidhome/geostats/P06/P6Hawaii.htm>>.

**Table 10.13-- ACREAGE OWNED OR CONTROLLED BY THE U.S.
OF DEFENSE, BY BRANCH OF SERVICE AND
BY ISLANDS: 1992**

Branch of service and island	Total acreage	Owned in fee or ceded	Leased land
All branches	238,937	167,248	71,689
Branch of service:			
Air Force	5,867	5,286	581
Army	151,927	105,633	46,294
Marines	27,950	3,643	24,307
Navy	53,193	52,686	507
Island:			
Hawaii	101,882	84,822	17,060
Maui	8	5	3
Kahoolawe	28,777	28,777	-
Lanai	-	-	-
Molokai	6,319	12	6,307
Oahu	81,459	51,602	29,857
Kauai	20,384	1,922	18,462
Niihau	-	-	-
Kaula	108	108	-
Northwestern Hawaiian Islands, exc. Midway	-	-	-

Source: *The Honolulu Advertiser*, November 16, 1992, p. A2.

**Table 10.14-- HOUSING UNITS OWNED BY THE ARMED FORCES, BY
SERVICE AND GEOGRAPHIC AREA: APRIL 1, 1995 TO 1998**

Geographic area	All services	Air Force	Army	Coast Guard	Marine Corps	Navy
1995						
State total	21,060	3,189	8,389	326	2,095	7,061
Oahu	20,971	3,189	8,386	309	2,095	6,992
Other islands	89	-	3	17	-	69
1996						
State total	20,824	2,675	8,641	316	2,095	7,097
Oahu	20,735	2,675	8,638	299	2,095	7,028
Other islands	89	-	3	17	-	69
1997						
State total	20,481	2,659	8,641	316	2,095	6,770
Oahu	20,392	2,659	8,638	299	2,095	6,701
Other islands	89	-	3	17	-	69
1998						
State total	20,616	2,659	8,847	342	2,041	6,727
Oahu	20,527	2,659	8,844	325	2,041	6,658
Other islands	89	-	3	17	-	69

Source: Hawaii State Department of Business, Economic Development & Tourism, *Statistical Report 230, Housing Unit Estimates for Hawaii, 1980-1995* (September 1996) and *Ibid.*, survey of local housing agencies.

**Table 10.15-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:
1970 TO 1997**

Veteran status	Civilian males		All civilians 1/				
	1970	1980	1980	1990	1994	1995	1997
Civilians 16 and over	223,573	316,651	665,036	801,517	(NA)	(NA)	(NA)
Veterans	89,098	98,633	103,774	119,256	116,000	116,000	114,000
War Veteran 2/	75,026	82,230	85,322	87,301	86,000	85,000	84,000
Persian Gulf War	-	-	-	-	5,000	6,000	8,000
Vietnam era	20,548	36,441	38,136	41,860	42,000	42,000	42,000
Korean conflict	20,006	21,860	22,351	22,362	21,000	20,000	19,000
World War II	34,486	31,170	32,156	32,551	28,000	27,000	24,000
World War I	2,501	824	854	132	(Z)	-	-
Peacetime only	14,072	16,403	18,452	31,955	30,000	31,000	30,000
Nonveterans	134,475	218,018	561,262	682,261	(NA)	(NA)	(NA)

Z Less than 500.

NA Not available.

1/ Not available for female civilians before 1980.

2/ Detail adds to more than subtotal because some veterans served in more than one war.

Source: U.S. Bureau of the Census, *1970 Census of Population, PC(1)-C13*, table 50; *1980 Census of Population, PC80-1-D13*, table 204; *1990 Census of Population, Social and Economic Characteristics, Hawaii, 1990 CP-2-13* (Sept. 1993), table 23; 1990 Census of Population tapes tabulated by Hawaii State Data Center; *Statistical Abstract of the United States: 1996*, p. 362; *Ibid.*, 1997, p. 365; *Ibid.*, 1998, p. 369; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.16-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1997 AND 1998**

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
1997				
Department of Defense	14,049	12,659	19,624	1,550
Army	5,619	4,972	7,006	1,409
Navy	3,934	3,561	5,818	1,634
Marine Corps	941	843	1,525	1,809
Air Force	3,555	3,283	5,275	1,607
Addendum 3/: Coast Guard	251	240	442	1,842
1998				
Department of Defense	14,237	12,823	20,169	1,573
Army	5,647	4,995	7,169	1,435
Navy	3,975	3,591	5,961	1,660
Marine Corps	978	881	1,610	1,827
Air Force	3,637	3,356	5,428	1,617
Addendum 3/: Coast Guard	245	236	446	1,890

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc. Calculated by Hawaii State Department of Business, Economic Development & Tourism as Monthly Payment (in dollars) divided by Number Paid by DOD.

3/ Payments made by the U.S. Department of Transportation, shown for informational purposes only, and not included in the DOD totals.

Source: U.S. Department of Defense, Office of the Actuary, *FY 1997 DOD Statistical Report on the Military Retirement System* (1998), p. 20 and *ibid: FY 1998* (1999), p. 20.

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, United Way campaigns, 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, the Hawaii State Employees' Retirement System, and the Aloha United Way. *Historical Statistics of Hawaii*, Section 8, contains data for earlier years. Section 12 of the *Statistical Abstract of the United States: 1998* presents comparable national data.

**Table 11.01-- AFDC AND AFDC-UP CASES, BY ISLANDS,
AVERAGE MONTHLY: 1980 TO 1997**

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	19,207	14,264	2,745	777	1,421	1,164	248	9
1981	19,963	14,613	3,002	813	1,535	1,235	270	30
1982	18,864	13,755	2,921	741	1,447	1,186	235	26
1983	17,764	12,865	2,902	700	1,297	1,061	209	27
1984	17,326	12,408	2,963	672	1,283	1,004	257	22
1985	16,410	11,525	2,963	667	1,255	959	280	16
1986	15,429	10,574	3,034	678	1,143	847	276	20
1987	14,334	9,717	2,986	591	1,040	740	284	16
1988	13,397	9,136	2,849	488	924	667	247	10
1989	13,675	9,366	2,923	471	915	693	218	4
1990	14,273	9,776	3,045	531	921	688	227	6
1991	14,672	9,966	3,160	564	982	741	229	12
1992	16,079	10,754	3,497	687	1,141	853	269	19
1993	17,876	11,870	3,915	755	1,336	1,053	258	25
1994	19,922	13,239	4,336	845	1,502	1,198	284	20
1995	21,481	14,229	4,616	960	1,676	1,367	291	18
1996	21,968	14,535	4,701	991	1,741	1,444	278	19
1997	22,333	14,726	4,725	1,071	1,811	1,493	293	25

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

**Table 11.02-- AFDC AND AFDC-UP RECIPIENTS, BY ISLANDS,
AVERAGE MONTHLY: 1980 TO 1997**

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	59,656	44,857	8,639	2,045	4,115	3,271	821	23
1981	61,146	45,389	9,202	2,137	4,418	3,430	916	72
1982	57,938	42,884	8,928	1,978	4,148	3,281	808	59
1983	54,741	40,051	8,855	1,993	3,842	3,050	714	78
1984	53,588	38,515	9,119	2,003	3,951	2,940	946	65
1985	51,258	35,979	9,222	2,086	3,971	2,861	1,062	48
1986	48,078	32,758	9,569	2,143	3,608	2,519	1,034	55
1987	43,675	29,363	9,305	1,802	3,205	2,124	1,038	43
1988	41,193	27,847	8,963	1,489	2,894	1,958	911	25
1989	42,323	28,802	9,275	1,441	2,805	2,042	755	8
1990	43,823	29,791	9,610	1,596	2,826	2,036	779	11
1991	44,717	30,171	9,884	1,682	2,980	2,135	809	36
1992	49,090	32,611	10,935	2,059	3,485	2,491	944	50
1993	54,474	35,930	12,185	2,235	4,124	3,106	945	73
1994	60,494	39,930	13,441	2,493	4,630	3,531	1,039	60
1995	65,148	42,788	14,354	2,891	5,115	4,007	1,048	60
1996	66,456	43,507	14,603	3,021	5,325	4,283	980	62
1997	69,047	45,074	15,012	3,348	5,613	4,495	1,048	70

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

Table 11.03-- AFDC AND AFDC-UP ANNUAL EXPENDITURES, BY ISLANDS: 1980 TO 1997

[In dollars. Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	89,286,888	67,065,960	12,672,744	3,243,516	6,304,668	5,240,664	1,031,136	32,868
1981	92,687,724	68,471,652	13,931,544	3,423,210	6,861,288	5,558,964	1,202,628	99,696
1982	90,495,060	66,700,620	13,876,656	3,279,480	6,638,304	5,470,416	1,068,672	99,216
1983	87,196,296	63,915,588	13,980,888	3,131,412	6,168,408	5,098,272	951,144	118,992
1984	84,362,424	60,805,992	14,360,976	3,044,532	6,150,924	4,857,096	1,214,856	78,972
1985	79,482,876	55,969,692	14,383,908	3,153,096	5,976,180	4,594,296	1,321,320	60,564
1986	74,915,472	51,378,768	14,969,220	3,125,256	5,442,228	4,058,520	1,308,984	74,724
1987	69,261,948	47,051,364	14,716,932	2,652,528	4,841,124	3,505,572	1,281,372	54,180
1988	72,918,468	49,765,920	15,744,036	2,514,768	4,893,744	3,610,116	1,240,848	42,780
1989	86,060,340	59,001,672	18,577,308	2,880,420	5,600,940	4,246,824	1,334,772	19,344
1990	96,452,784	66,124,884	20,761,536	3,452,928	6,113,436	4,569,564	1,512,768	31,104
1991	103,802,976	70,588,488	22,517,328	3,840,960	6,856,200	5,103,480	1,670,388	82,332
1992	119,671,268	80,087,976	26,291,248	4,866,573	8,422,471	6,268,527	2,031,771	122,173
1993	138,514,683	91,888,325	30,507,477	6,015,726	10,103,155	7,898,607	2,034,265	170,283
1994	158,373,026	105,521,869	34,624,955	6,511,931	11,714,271	9,237,730	2,327,496	149,045
1995	170,721,612	113,139,192	37,026,048	7,449,492	13,106,880	10,593,444	2,368,704	144,732
1996	173,067,515	114,063,397	37,596,339	7,697,993	13,709,786	11,284,933	2,275,233	149,620
1997	166,195,261	109,418,760	35,653,012	7,854,551	13,268,938	10,867,174	2,228,292	173,472

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

**Table 11.04-- TEMPORARY ASSISTANCE TO NEEDY FAMILIES AND OTHER NEEDY FAMILIES,
BY ISLANDS, AVERAGE MONTHLY: 1998**

[Year ended June 30]

Category	Families	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
Cases	Needy	17,253	11,606	3,464	825	1,358	1,170	169	19
	Other needy	6,278	3,879	1,488	349	562	406	148	8
Recipients	Needy	48,301	32,524	9,817	2,251	3,709	3,181	480	48
	Other needy	27,026	16,531	6,437	1,531	2,527	1,780	717	30
Expenditures 1/	Needy	109,426	74,016	22,072	5,033	8,309	7,119	1,074	115
	Other needy	44,082	27,048	10,652	2,406	3,976	2,853	1,080	43

1/ Thousands of dollars.

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1998.

**Table 11.05-- GENERAL ASSISTANCE (FAMILY) CASES, BY ISLANDS,
AVERAGE MONTHLY: 1980 TO 1997**

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	1,085	808	153	43	81	48	32	1
1981	1,014	810	111	26	67	49	16	2
1982	1,044	815	127	34	68	43	23	2
1983	1,042	757	182	34	69	40	29	1/ -
1984	911	630	191	31	59	35	24	1/ -
1985	805	525	186	32	62	29	33	1/ -
1986	734	466	183	24	61	17	42	2
1987	638	404	161	18	55	15	40	1/ -
1988	581	359	163	11	48	10	38	-
1989	563	350	161	8	44	13	31	1/ -
1990	651	432	155	9	55	19	36	-
1991	693	503	163	13	41	15	26	-
1992	819	596	159	20	44	13	31	-
1993	924	663	192	19	50	16	34	-
1994	1,159	808	247	29	75	39	36	-
1995	1,341	881	316	42	102	61	40	1
1996	1,250	782	315	50	103	66	37	-
1997	701	437	171	27	66	41	24	1

1/ Less than 0.5.

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

**Table 11.06-- GENERAL ASSISTANCE (FAMILY) RECIPIENTS,
BY ISLANDS, AVERAGE MONTHLY: 1980 TO 1997**

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	5,103	3,827	680	216	380	222	155	3
1981	4,707	3,775	504	129	299	214	77	8
1982	4,670	3,691	550	136	293	182	104	7
1983	4,211	3,142	646	134	289	164	124	1
1984	3,696	2,645	710	121	220	128	92	0
1985	3,302	2,254	702	129	217	100	117	0
1986	3,103	2,071	697	99	236	67	157	12
1987	2,721	1,804	614	75	228	64	162	2
1988	2,508	1,625	641	50	192	43	149	0
1989	2,451	1,595	636	34	186	53	133	0
1990	2,905	1,990	630	35	250	88	162	0
1991	3,200	2,390	576	51	183	65	118	0
1992	3,637	2,706	661	72	198	61	137	0
1993	3,931	2,855	776	68	232	73	159	0
1994	4,595	3,243	944	112	296	136	160	0
1995	5,140	3,391	1,212	159	378	215	159	4
1996	4,747	2,968	1,203	191	385	239	146	0
1997	2,630	1,634	647	108	241	147	93	1

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

**Table 11.07-- GENERAL ASSISTANCE (FAMILY) EXPENDITURES,
BY ISLANDS, AVERAGE MONTHLY: 1980 TO 1997**

[In dollars. Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	362,577	284,569	45,743	9,699	22,566	13,691	8,790	85
1981	379,267	320,875	35,469	5,520	17,403	13,706	3,370	327
1982	383,684	309,048	45,055	10,140	19,441	12,150	7,029	262
1983	336,112	247,296	56,825	9,756	22,235	13,214	8,963	58
1984	303,661	206,998	64,409	11,570	20,684	11,607	9,036	41
1985	276,331	178,865	64,764	12,093	20,609	10,001	10,596	12
1986	258,675	160,735	68,598	8,667	20,675	5,053	14,826	796
1987	223,055	131,337	64,043	6,408	21,267	5,660	15,547	60
1988	221,003	127,347	68,914	4,403	20,339	4,133	16,206	0
1989	258,285	154,643	77,270	3,237	23,135	6,289	16,790	56
1990	328,127	214,660	80,696	3,632	29,139	10,832	18,307	0
1991	367,514	264,687	75,104	5,273	22,450	8,797	13,653	0
1992	424,895	306,067	86,722	8,813	23,293	6,715	16,578	0
1993	502,439	352,270	110,295	10,501	29,373	7,473	21,900	0
1994	652,621	446,028	149,332	16,285	40,976	19,212	21,764	0
1995	776,751	490,307	202,875	24,668	58,901	33,120	25,502	279
1996	694,736	421,006	189,136	26,998	57,597	35,091	22,506	0
1997	441,256	266,681	114,668	18,092	41,815	24,538	16,980	297

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

**Table 11.08-- FOOD STAMPS TOTAL, AVERAGE MONTHLY, CASES:
1980 TO 1998**

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	38,499	27,473	6,324	1,809	2,893	2,335	485	73
1981	40,461	28,788	6,698	1,876	3,099	2,473	543	83
1982	38,238	26,965	6,551	1,840	2,882	2,289	526	67
1983	38,549	26,438	7,040	2,050	3,021	2,407	544	70
1984	37,767	25,393	7,252	1,943	3,179	2,484	633	62
1985	37,282	24,873	7,330	1,980	3,099	2,352	683	64
1986	35,652	23,356	7,520	1,894	2,882	2,130	687	65
1987	33,424	21,908	7,244	1,717	2,555	1,839	666	50
1988	31,388	20,844	6,819	1,474	2,251	1,582	629	40
1989	31,809	21,233	6,916	1,410	2,250	1,633	588	29
1990	32,285	21,705	6,891	1,450	2,239	1,629	583	27
1991	33,558	22,649	7,097	1,545	2,267	1,686	552	29
1992	37,295	24,867	8,012	1,778	2,638	1,961	644	33
1993	42,175	27,789	9,165	2,016	3,205	2,454	702	49
1994	48,142	31,735	10,449	2,264	3,694	2,969	677	48
1995	53,855	35,407	11,578	2,660	4,210	3,472	690	48
1996	58,028	38,107	12,364	2,955	4,602	3,872	680	50
1997	57,905	38,122	12,185	3,054	4,544	3,804	687	53
1998	54,264	35,057	11,926	2,983	4,298	3,519	726	53

Source: Hawaii State Department of Human Services, HAWI Food Stamp Program, Monthly Summary.

**Table 11.09-- FOOD STAMPS TOTAL, AVERAGE MONTHLY,
INDIVIDUALS: 1980 TO 1998**

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	99,672	74,170	15,163	3,870	6,469	4,979	1,318	172
1981	103,996	77,369	15,781	3,911	6,935	5,293	1,454	188
1982	99,228	72,560	15,905	4,043	6,720	5,142	1,443	135
1983	101,118	71,574	17,474	4,752	7,318	5,595	1,566	157
1984	99,818	69,251	18,145	4,672	7,750	5,753	1,869	128
1985	99,395	68,145	18,539	4,942	7,769	5,604	2,025	140
1986	93,863	62,714	19,131	4,766	7,252	5,032	2,083	137
1987	87,070	57,935	18,456	4,217	6,462	4,317	2,054	91
1988	80,823	54,244	17,357	3,492	5,730	3,729	1,935	66
1989	80,284	53,964	17,444	3,282	5,594	3,793	1,763	38
1990	79,496	53,543	17,226	3,232	5,495	3,698	1,755	42
1991	81,345	54,927	17,466	3,472	5,480	3,776	1,642	62
1992	89,465	59,547	19,482	4,111	6,325	4,357	1,890	78
1993	99,571	65,177	22,044	4,625	7,725	5,547	2,051	127
1994	111,409	72,911	24,603	5,194	8,701	6,567	2,003	131
1995	122,121	79,571	26,781	6,061	9,708	7,540	2,043	125
1996	129,430	83,960	28,298	6,739	10,433	8,340	1,983	110
1997	129,138	84,049	27,757	6,973	10,359	8,265	1,975	119
1998	122,457	78,032	27,081	6,911	10,433	7,958	2,109	124

Source: Hawaii State Department of Human Services, HAWI Food Stamp Program, Monthly Summary.

Table 11.10-- FOOD STAMPS TOTAL, ANNUAL BENEFITS: 1986 TO 1998

[In dollars. Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1986	90,431,081	59,584,164	19,178,743	4,523,409	7,144,765	5,046,328	1,972,171	126,266
1987	86,590,419	56,916,991	19,025,062	4,118,900	6,529,466	4,440,672	1,997,249	91,545
1988	79,945,261	53,120,868	17,701,927	3,362,595	5,759,871	3,844,355	1,853,405	62,111
1989	74,533,213	49,550,098	16,722,757	3,006,023	5,254,335	3,667,459	1,553,943	32,933
1990	78,997,519	52,750,217	17,526,168	3,232,313	5,488,821	3,825,847	1,623,119	39,855
1991	94,473,871	63,485,005	20,541,064	4,042,598	6,405,204	4,574,468	1,765,858	64,878
1992	112,329,644	74,283,762	24,838,847	5,156,483	8,050,552	5,742,270	2,213,426	94,856
1993	126,788,607	82,450,018	28,538,846	5,824,432	9,975,311	7,400,324	2,428,793	146,194
1994	147,149,411	95,823,731	32,943,774	6,739,307	11,642,599	9,055,336	2,432,660	154,603
1995	171,641,900	111,603,705	37,840,508	8,411,516	13,786,171	10,998,797	2,632,298	155,076
1996	191,796,701	123,903,621	42,338,840	9,872,685	15,681,555	12,831,574	2,696,334	153,647
1997	193,487,005	125,414,180	42,071,872	10,367,997	15,632,956	12,749,822	2,711,155	171,979
1998	179,727,944	114,359,271	40,461,179	10,057,307	14,850,187	11,845,597	2,837,346	167,244

Source: Hawaii State Department of Human Services, HAWI Food Stamp Program, Monthly Summary.

**Table 11.11-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE,
RACE, AND SEX: 1995 TO 1997**

[December data. Based on 10-percent samples]

Age, race, and sex	1995	1996	1997
Total	166,020	169,300	172,050
Age:			
17 years or under	10,270	10,890	10,830
18 to 64 years	27,980	27,820	27,860
65 to 69 years	37,160	36,900	36,390
70 to 74 years	37,370	37,090	37,430
75 years or older	53,240	56,600	59,540
Race:			
White	42,310	42,790	43,730
Black	2,930	3,390	3,640
Other	119,530	121,880	123,460
Beneficiaries other than children:			
Men	68,470	69,980	71,130
Women	84,910	86,120	87,680

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1996, 1997, and 1998, table 5.J5 in each.

**Table 11.12-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT STATUS,
BY TYPE OF BENEFIT: 1996 AND 1997**

[December data. Based on 10-percent samples]

Type of benefit	Number of OASDI beneficiaries		Amount of monthly benefits (\$1,000)	
	1996	1997	1996	1997
Total	169,300	172,050	113,990	119,266
Retirement program:				
Retired workers	118,750	121,910	1/ 87,100	2/ 91,902
Spouses	10,530	10,430	3,740	3,839
Children	2,700	2,650	870	864
Survivor program:				
Widows, widowers, and parents	15,550	15,050	10,320	10,308
Children	6,820	6,800	3,390	3,390
Disability program:				
Disabled workers	10,800	10,940	7,750	8,076
Spouses	470	480	90	93
Children	3,680	3,790	730	794
Age 65 and over	130,590	133,360	92,390	97,111
Men	57,830	59,060	46,988	49,086
Women	72,760	74,300	45,402	48,026

1/ Average monthly benefit was \$717.30; median was \$687.00.

2/ Average monthly benefit was \$753.90; median was \$755.80.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1997 and 1998, tables 5.J2, 5.J3, 5.J4, and 5.J6.
<http://www.ssa.gov/statistics/hdabs98.html>

**Table 11.13-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES IN CURRENT-PAYMENT
STATUS, BY COUNTIES: 1997**

[December data]

County 1/	Total	Retirement benefits	Survivor benefits	Disability benefits	Aged 65 and older
State total	171,753	134,600	21,773	15,380	132,740
Hawaii	24,489	17,745	3,625	3,120	17,430
Honolulu	121,506	96,990	14,760	9,755	95,840
Kalawao	7	5	5	0	10
Kauai	9,196	7,275	1,220	700	7,145
Maui	16,550	12,585	2,160	1,805	12,310
Unknown	5	0	5	0	0

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.

Source: U.S. Department of Health and Human Services, *OASDI Beneficiaries by State and County* for December 1997, table 4.

**Table 11.14-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFITS IN CURRENT-PAYMENT
STATUS, BY COUNTIES: 1997**

[December data, in thousand dollars]

County 1/	Total	Retirement benefits	Survivor benefits	Disability benefits	Aged 65 and older
State total	119,296	96,221	13,978	9,097	96,963
Hawaii	16,743	12,710	2,263	1,776	12,858
Honolulu	84,452	69,156	9,489	5,808	69,682
Kalawao	3	2	1	0	3
Kauai	6,380	5,159	803	419	5,196
Maui	11,713	9,199	1,419	1,096	9,220
Unknown	3	2	4	0	2

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.

Source: U.S. Department of Health and Human Services, *OASDI Beneficiaries by State and County* for December 1997, table 5.

**Table 11.15-- NUMBER AND PERCENT RECEIVING RETIREMENT,
SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFITS: 1997**

[December data]

Comparison	Total population		Aged 65 or older	
	Number 1/ (in thousands)	Percent receiving 2/ OASDI benefits	Number 1/ (in thousands)	Percent receiving 2/ OASDI benefits
United States	267,636	16.0	34,076	91.6
Hawaii	1,187	14.5	157	84.7

1/ Population data for 1997 on which percentage are based furnished by Population Estimates Branch, Bureau of the Census.

2/ Percentage with OASDI are based on the number of beneficiaries in December 1997.

Source: U.S. Department of Health and Human Services, *OASDI Beneficiaries by State and County* for December 1997, table 3.

**Table 11.16-- SOCIAL SECURITY BENEFICIARIES AND BENEFITS PAID:
1991 TO 1997**

Year	Number of beneficiaries, December	Monthly benefits, December (\$1,000)	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

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement, 1999*, tables 5.J1, 5.J2, and 5.J4, and corresponding data in earlier reports.

**Table 11.17-- MEDICARE BENEFICIARIES ENROLLED AND BENEFIT
PAYMENTS: 1996 AND 1997**

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments 1/ (\$1,000)	
	1996	1997	1996	1997	1996	1997
Hospital and/or medical insurance	153,113	155,186	141,280	(NA)	612,461	655,491
Hospital insurance	152,024	154,130	140,191	(NA)	-	-
Supplementary medical insurance	142,945	144,339	132,501	(NA)	-	-
Hospital and medical insurance (both)	141,856	143,333	131,412	(NA)	-	-

NA Not available.

1/ Fiscal years.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, Office of Health Care Information Systems, records.

**Table 11.18-- DISABILITY OF CIVILIAN NONINSTITUTIONALIZED
PERSONS, FOR THE STATE AND OAHU: 1990**

Disability status	State total	Oahu only
Persons 16 to 64 years	672,828	503,514
With a mobility or self-care limitation	27,080	20,873
With a mobility limitation	11,029	8,176
With a self-care limitation	21,245	16,573
With a work disability	44,370	31,079
In labor force	19,765	13,938
Prevented from working	20,330	14,013
Persons 65 years and over	120,972	88,604
With a mobility or self-care limitation	21,251	15,973
With a mobility limitation	15,280	11,205
With a self-care limitation	13,477	10,333

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (Sept. 1993), table 34.

**Table 11.19-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM:
1992 TO 1998**

Year	Member- ship, 1/ March 31	Pensioners and beneficiaries, March 31	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	4/ 950	2,446,107
1993	59,518	22,387	4,987,341	309,245	4/ 1,004	2,274,981
1994	61,082	22,905	5,416,206	331,393	4/ 1,057	2,875,676
1995	60,687	25,360	5,599,698	408,206	4/ 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

1/ State and county employees. Includes former vested employees but excludes all pensioners.

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.

4/ Data revised.

Source: Employees' Retirement System of the State of Hawaii, *Comprehensive Annual Financial Report*, and records.

Table 11.20-- CHILD ADOPTIONS: 1989 TO 1994

Type of adoption	1989	1990	1991	1992	1993	1994
Total	830	678	592	557	404	500
By relatives	577	479	408	375	287	345
By nonrelative	253	190	176	182	117	155
Placed by social agencies	207	174	153	172	95	120

Source: Hawaii State Department of Human Services, tabulations from SRS-NCSS-280 Adoption Cards.

Table 11.21-- FOSTER CARE: 1995

[Number of foster homes covers only licensed, certified and approved foster homes. Out-of-home care includes children placed into family foster care, kinship (relative) foster care, group homes, and residential group care]

Subject	1995
Number of foster homes	1,086
Children in out-of-home care	1,652
Rate per 1,000 children	5.2
Rank (50 states)	32

Source: Child Welfare League of America, Washington, D.C., as cited in *Statistical Abstract of the United States: 1998*, p. 395.

Table 11.22-- UNEMPLOYMENT INSURANCE: 1987 TO 1998

[Covering private industry, Federal, State and County governments and nonprofit organizations]

Calendar year	Covered employment	Insured unemployment		Average weekly total wages (dollars)	Benefit payments (\$1,000)	Average weekly benefits (dollars)	Average benefit duration (weeks)
		Weekly average	Percent coverage				
1987	470,179	7,329	37	364.79	49,900	149.50	13.4
1988	485,707	6,708	42	392.73	50,659	162.51	13.5
1989	508,673	5,238	40	415.75	40,833	170.03	12.0
1990	533,229	5,722	38	444.92	50,269	189.40	11.4
1991	541,415	8,106	51	463.43	83,530	205.70	13.0
1992	544,718	11,933	1/ 45	492.94	144,741	235.48	14.8
1993	542,333	13,227	1/ 53	503.02	165,877	246.31	17.6
1994	540,015	15,228	1/ 43	514.13	193,878	258.72	17.4
1995	535,640	1/ 15,819	48	518.88	208,316	262.21	16.0
1996	533,123	15,351	41	526.04	200,050	261.07	17.8
1997	534,210	13,819	36	545.20	176,659	259.30	17.1
1998	(NA)	12,978	(NA)	(NA)	162,013	254.79	16.6

NA Not available.

1/ Revised.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book, 1999*; and records.

**Table 11.23-- CHILD DAY CARE SERVICES (SIC 835) WITH PAYROLL, BY
FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA:
1987, 1992 AND 1996**

[Child day care services without payroll subject to Federal income tax, not included in this table,
numbered 1,235 establishments in 1992 with receipts of \$9,069,000]

Geographic area	Number of establishments		Receipts or revenue (\$1,000)		Paid employees, March 12	
	Subject to tax	Tax exempt	Subject to tax	Tax exempt	Subject to tax	Tax exempt
1987						
State total	32	89	3,049	15,748	225	999
Oahu	22	69	2,379	14,470	183	902
Neighbor Islands	10	20	670	1,278	42	97
1992						
State total	42	120	5,105	27,580	234	1,353
Oahu	24	91	3,274	22,416	162	1,129
Neighbor Islands	18	29	1,831	5,164	72	224
1996						
State total		151		(NA)		1,677
Oahu		113		(NA)		1,426
Neighbor Islands		38		(NA)		251

Source: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), tables 1a, 1b, 8a, and 8b; *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 1b, 7a, 7b, 8a, and 8b; *1992 Census of Service Industries, Nonemployer Statistics Series, Summary*, SC92-N-1 (March 1995), table 3; *County Business Patterns 1996, Hawaii*, CBP-96-13 (November 1998), tables 1b and 2.

Table 11.24-- LICENSED CHILD CARE CENTERS, 1998, AND LICENSED FAMILY CHILD CARE PROVIDERS, 1997

Subject	Number	Rank 1/
Licensed child care centers, February 1998	494	41
Licensed family child care providers, August 1997	489	48

1/ 50 States and D.C.

Source: Children's Foundation, Washington, D.C., as cited in *Statistical Abstract of the United States: 1998*, p. 394.

**Table 11.25-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS:
1996 TO 1998**

[Thousands of dollars]

Year and island	Total revenues	Contributions	Total outlays	Agency allocation
1996				
Total reported	19,647	17,814	16,678	12,551
Aloha United Way (Oahu)	1/ 16,815	1/ 15,045	1/ 14,617	1/ 10,852
Hawaii Island United Way	1,006	967	951	677
Kauai United Way	505	505	518	334
Maui United Way	1,265	1,265	669	669
Friendly Isle United Way (Molokai)	56	32	23	19
1997				
Total reported	20,007	17,908	18,353	14,128
Aloha United Way (Oahu)	1/ 16,924	1/ 14,947	1/ 15,660	1/ 11,924
Hawaii Island United Way	1,067	990	1,035	744
Kauai United Way	505	505	539	350
Maui United Way	1,440	1,440	1,090	1,090
Friendly Isle United Way (Molokai)	71	26	1/ 29	1/ 20
1998				
Total reported	(NA)	(NA)	(NA)	(NA)
Aloha United Way (Oahu)	2/ 15,375	2/ 13,667	2/ 15,178	2/ 11,553
Hawaii Island United Way	(NA)	(NA)	(NA)	(NA)
Kauai United Way	540	540	563	370
Maui United Way	(NA)	(NA)	(NA)	(NA)
Friendly Isle United Way (Molokai)	80	45	37	27

NA Not available.

1/ Revised.

2/ Estimates.

Source: Aloha United Way, records; Hawaii Island United Way, Inc., records; Kauai United Way, records; Maui United Way, records; Friendly Isle United Way, records.

Table 11.26-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE AND HONOLULU METROPOLITAN STATISTICAL AREA: 1993 TO 1998

Area, authority, and year of publication	Number of areas ranked	Hawaii or Honolulu rank
State:		
Morgan Quitno, 1993	50	9
Morgan Quitno, 1994	50	20
Thomas, 1995	50	2
Morgan Quitno, 1995	50	24
Morgan Quitno, 1996	50	27
Morgan Quitno, 1997	50	33
Morgan Quitno, 1998	50	30
Honolulu MSA:		
<i>Money</i> , 1993	300	124
<i>Money</i> , 1994	300	155
<i>Money</i> , 1995	300	102
<i>Money</i> , 1996	300	88
<i>Money</i> , 1997	300	167
<i>Money</i> , 1998 1/	23	16

1/ Comparison limited to medium-size MSAs (250,000 to 1,000,000 inhabitants) in the West.

Source: Morgan Quitno (publisher), *State Rankings* (annual); G. Scott Thomas, *The Rating Guide to Life in America's Fifty States*, cited in *American Demographics*, Feb. 1995, pp. 13-14; "Best Places to Live in America" (annual survey), *Money*, July 1997 and earlier issues; <http://mouth.pathfinder.com/money/best-cities-97>; <http://pathfinder.com/money/bestplaces>.

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 23.

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. Bureau of the Census, the same agency's Current Population Survey, reports by the U.S. Bureau of Labor Statistics, 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 13 of the *Statistical Abstract of the United States: 1998*.

Table 12.01-- LABOR FORCE STATUS, BY SEX: 1960 TO 1990

Sex and labor force status	1960	1970	1980	1990
BOTH SEXES				
Persons 16 years and over	402,937	522,018	723,479	855,518
Labor force	263,450	344,269	494,223	602,348
Percent in labor force	65.4	65.9	68.3	70.4
Armed forces	47,255	49,785	58,443	54,001
Civilian labor force	216,195	294,484	435,780	548,347
Employed	207,456	285,556	415,181	529,059
Unemployed	8,739	8,928	20,599	19,288
Percent of civ. labor force	4.0	3.0	4.7	3.5
Not in labor force	139,487	177,749	229,256	253,170
MALE				
Persons 16 years and over	219,822	272,726	370,683	434,203
Labor force	186,507	222,221	290,420	335,651
Percent in labor force	84.8	81.5	78.3	77.3
Armed forces	46,626	48,860	54,032	47,441
Civilian labor force	139,881	173,361	236,388	288,210
Employed	135,481	168,940	225,331	277,735
Unemployed	4,400	4,421	11,057	10,475
Percent of civ. labor force	3.1	2.6	4.7	3.6
Not in labor force	33,315	50,505	80,263	98,552
FEMALE				
Persons 16 years and over	183,115	249,292	352,796	421,315
Labor force	76,943	122,048	203,803	266,697
Percent in labor force	42.0	49.0	57.8	63.3
Armed forces	629	925	4,411	6,560
Civilian labor force	76,314	121,123	199,392	260,137
Employed	71,975	116,616	189,850	251,324
Unemployed	4,339	4,507	9,542	8,813
Percent of civ. labor force	5.7	3.7	4.8	3.4
Not in labor force	106,172	127,244	148,993	154,618

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960, Detailed Characteristics, Hawaii*, PC(1)-13D (1962), table 115; *1970 Census of Population, General Social and Economic Characteristics, Hawaii*, PC(1)-C13 (December 1971), table 53; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 24.

Table 12.02-- LABOR FORCE CHARACTERISTICS, BY COUNTIES: 1990

Subject	State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Population 16 years and over	855,518	88,999	651,920	130	38,348	76,121
Female	421,315	44,417	320,345	55	19,124	37,374
Percent in labor force	70.4	64.2	71.1	31.5	68.9	72.5
Female	63.3	58.6	63.6	25.5	63.7	66.2
Civilian labor force	548,347	56,986	410,023	41	26,185	55,112
Percent unemployed	3.5	4.6	3.5	-	3.6	2.7
Worked in 1989	639,859	62,296	490,444	55	28,258	58,806
40 or more weeks	509,005	47,196	393,023	42	22,290	46,452
Usually worked 35 or more hours per week, 50 to 52 weeks	369,436	33,652	287,224	35	15,594	32,931
Females with own children under 6 years	68,218	7,584	51,261	-	3,228	6,145
Percent in labor force	63.4	60.5	63.1	-	70.5	65.5
Own children under 6 years in families and sub- families, all parents in household in labor force	57,489	6,274	42,594	-	2,983	5,638

Source: U.S. Bureau of the Census *1990 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, Hawaii*, 1990 CPH-5-13 (April 1992), table 6.

**Table 12.03-- SELECTED LABOR FORCE AND COMMUTING CHARACTERISTICS,
BY GEOGRAPHIC AREA: 1990**

Subject	State total	Oahu	Other islands
LABOR FORCE STATUS			
Females 16 years and over	421,315	320,345	100,970
With own children under 6 years	68,218	51,261	16,957
Percent in labor force	63.4	63.1	64.3
With own children 6 to 17 years only	68,083	50,385	17,698
Percent in labor force	81.6	81.6	81.4
Own children under 6 years in families and subfamilies	95,622	71,395	24,227
All parents present in household in labor force	57,489	42,594	14,895
Own children 6 to 17 years in families and subfamilies	171,939	124,553	47,386
All parents present in household in labor force	126,493	91,916	34,577
Persons 16 to 19 years	57,184	43,946	13,238
Not enrolled in school and not high school graduate	4,267	3,096	1,171
Employed or in Armed Forces	2,063	1,440	623
Unemployed	564	408	156
Not in labor force	1,640	1,248	392
COMMUTING TO WORK			
Workers 16 years and over	567,765	437,518	130,247
Percent drove alone	60.5	57.6	70.1
Percent in carpools	20.5	20.9	18.9
Percent using public transportation	7.4	9.3	0.9
Percent using other means	2.6	2.8	2.0
Percent walked or worked at home	9.0	9.3	8.0
Mean travel time to work (minutes)	23.8	24.8	20.3

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), tables 36 and 37.

Table 12.04-- LABOR FORCE STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGES, 1995 AND 1996

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
1995				
Civilian noninstitutional population	862	398	464	59
Civilian labor force	580	296	284	27
Percent of population	67.3	74.3	61.2	45.3
Employment	546	275	270	22
Percent of population	63.3	69.3	58.2	38.2
Unemployment	34	20	14	4
Rate 1/	5.9	6.8	4.9	15.7
Not in civilian labor force	282	102	180	32
1996				
Civilian noninstitutional population	865	402	463	63
Civilian labor force	591	304	286	29
Percent of population	68.3	75.7	61.9	46.2
Employment	553	283	270	23
Percent of population	64.0	70.5	58.3	36.8
Unemployment	38	21	17	6
Rate 1/	6.4	6.9	5.8	20.4
Not in civilian labor force	274	98	177	34

1/ Percent of civilian labor force. The 1996 error ranges for these rates, at the 90-percent confidence level, are: both sexes 5.7-7.1, men 5.8-8.0, women 4.8-6.8, 16-19 years (both sexes) 15.3-25.4.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1995* (Bulletin 2486, February 1997), table 12, and *Geographic Profile of Employment and Unemployment, 1996* (Bulletin 2498, April 1998), table 12.

Table 12.05-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, BY RACE AND HISPANIC ORIGIN: 1996 AND 1997

Race or origin 1/	1996		1997	
	Both sexes	Female	Both sexes	Female
All races	590,900	279,600	592,000	280,050
White	192,350	88,750	193,000	89,000
Asian or Pacific Islander	379,600	182,000	380,050	182,200
Japanese	146,750	70,000	146,850	70,050
Filipino	97,050	47,750	97,150	47,800
Hawaiian	67,450	31,700	67,700	31,850
Chinese	39,000	18,350	38,950	18,300
Korean	12,900	7,000	12,850	6,950
Other Asian or Pacific Islander	16,550	7,250	16,550	7,250
Black	7,550	3,750	7,550	3,750
American Indian, Eskimo, Aleut	2,850	1,450	2,850	1,450
Other race	8,500	3,700	8,550	3,700
Minority group	398,550	190,850	399,000	191,050
Hispanic (all races)	36,150	16,900	36,250	16,950

1/ Based on census definitions. Persons of mixed race are classified by self-identification or race of mother.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, unpublished estimates.

Table 12.06-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, AND UNEMPLOYMENT RATE, BY RACE AND HISPANIC ORIGIN: 1998

Race or origin 1/	Civilian labor force		Unemployed (percent)	
	Both sexes	Female	Both sexes	Female
All races	597,050	282,450	6.2	6.0
White	194,750	89,750	6.6	7.3
Asian or Pacific Islander	383,200	183,750	5.9	5.2
Japanese	148,100	70,650	3.0	2.2
Filipino	98,100	48,300	7.1	6.0
Hawaiian	68,150	32,050	10.4	9.7
Chinese	39,250	18,450	4.3	4.0
Korean	12,950	7,000	6.1	6.2
Other Asian or Pacific Islander	16,650	7,300	10.9	10.9
Black	7,600	3,750	9.3	9.2
American Indian, Eskimo, Aleut	2,900	1,450	10.4	11.6
Other race	8,650	3,750	8.7	9.4
Minority group	402,300	192,700	6.1	5.4
Hispanic (all races)	36,550	17,100	10.6	10.1

1/ Based on census definitions. Persons of mixed race are classified by self-identification or race of mother.

Source: Hawaii State Department of Labor and Industrial Relations, unpublished estimates.

**Table 12.07-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:
ANNUAL AVERAGES, 1980 TO 1998**

Year	Civilian labor force	Civilian employed	Unemployed	
			Number	Percent
1980	440,000	418,000	21,000	4.9
1981	451,000	427,000	24,000	5.4
1982	461,000	430,000	31,000	6.7
1983	472,000	442,000	30,000	6.5
1984	472,000	445,000	27,000	5.6
1985	479,000	452,000	27,000	5.6
1986	492,000	468,000	24,000	4.8
1987	514,000	494,000	20,000	3.8
1988	518,000	502,000	16,000	3.1
1989	524,000	511,000	13,000	2.5
1990	542,000	527,000	15,000	2.8
1991	573,750	557,750	16,000	2.8
1992	584,050	557,450	26,650	4.6
1993	586,000	560,900	25,100	4.3
1994	580,150	545,000	35,150	6.1
1995	576,400	542,650	33,800	5.9
1996	1/ 593,600	1/ 555,750	1/ 37,850	6.4
1997	1/ 596,750	1/ 558,600	1/ 38,200	6.4
1998	597,050	559,750	37,300	6.2

1/ Revised.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and Internet site <http://www.hawaii.gov/workforce/index.html>.

**Table 12.08-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1988 TO 1998**

[Island data may not add exactly to State totals in preceding table]

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
CIVILIAN LABOR FORCE							
1988	384,100	54,900	26,000	52,750	1,050	49,200	2,450
1989	384,500	56,900	27,600	55,000	1,450	51,300	2,250
1990	402,300	57,500	25,750	56,500	1,400	52,400	2,700
1991	419,850	63,800	28,600	61,500	1,550	57,300	2,650
1992	423,350	65,350	29,450	65,900	1,600	61,250	3,050
1993	426,400	65,300	28,350	66,000	1,550	61,600	2,850
1994	420,350	65,350	28,650	65,800	1,500	61,400	2,900
1995	418,150	64,150	28,350	65,800	1,600	61,200	2,950
1996 1/	429,350	67,250	29,000	68,050	1,650	63,250	3,100
1997 1/	429,600	69,000	28,700	69,450	1,700	64,900	2,850
1998	429,050	68,700	29,050	70,200	1,700	65,550	2,950
CIVILIAN EMPLOYED							
1988	373,500	52,200	25,050	51,000	950	47,800	2,250
1989	375,950	54,700	26,800	53,550	1,300	50,200	2,050
1990	393,300	55,200	24,700	53,800	1,300	50,300	2,200
1991	411,250	60,900	27,400	58,200	1,450	54,350	2,400
1992	410,700	60,050	26,400	60,250	1,500	56,200	2,550
1993	413,250	60,400	24,700	62,500	1,400	58,500	2,600
1994	400,850	58,300	24,550	61,300	1,350	57,350	2,600
1995	398,950	57,600	25,100	61,000	1,550	56,850	2,600
1996 1/	406,650	60,550	25,450	63,050	1,550	58,900	2,600
1997 1/	406,850	61,950	25,500	64,250	1,600	60,250	2,450
1998	406,100	62,050	26,200	65,400	1,600	61,250	2,500

Continued on next page.

Table 12.08-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1988 TO 1998 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1988	10,600	2,700	950	1,750	100	1,450	200
1989	8,550	2,200	800	1,450	100	1,100	200
1990	8,950	2,300	1,050	2,700	100	2,100	500
1991	8,600	2,900	1,200	3,300	100	2,950	250
1992	12,650	5,250	3,050	5,650	150	5,050	500
1993	13,150	4,850	3,600	3,450	150	3,100	250
1994	19,500	7,100	4,100	4,500	100	4,050	300
1995	19,200	6,550	3,250	4,800	100	4,400	350
1996 1/	22,700	6,650	3,550	4,950	100	4,400	500
1997 1/	22,750	7,050	3,250	5,200	100	4,650	450
1998	22,950	6,650	2,850	4,800	50	4,300	450
PERCENT UNEMPLOYED							
1988	2.8	4.9	3.7	3.3	7.5	2.9	8.8
1989	2.2	3.9	2.8	2.6	8.3	2.2	9.8
1990	2.2	4.0	4.1	4.8	5.9	4.1	18.1
1991	2.0	4.5	4.1	5.4	6.7	5.1	10.1
1992	3.0	8.1	10.3	8.6	7.8	8.3	16.0
1993	3.1	7.5	12.8	5.3	8.9	5.0	8.4
1994	4.6	10.8	14.3	6.8	7.1	6.6	10.8
1995	4.6	10.2	11.4	7.3	5.3	7.2	11.4
1996	5.3	9.9	12.2	7.3	5.8	6.9	1/ 15.9
1997	5.3	10.2	11.3	7.5	1/ 5.9	7.2	14.8
1998	5.4	9.7	9.8	6.8	3.5	6.6	15.0

1/ Revised.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and Internet site <http://www.hawaii.gov/workforce/laus.htm>.

**Table 12.09-- CHARACTERISTICS OF THE INSURED UNEMPLOYED:
ANNUAL AVERAGES, 1997**

[Percent distributions. 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	1/ 100.0	Industry--con.:	
Age:		Finance	4.5
Under 22 years	2.4	Services	23.8
22 to 24 years	4.9	Hotel	5.7
25 to 34 years	26.7	Others	3.7
35 to 44 years	29.5	Occupation:	
45 to 54 years	22.6	Prof., tech., mgr.	17.8
55 to 64 years	10.8	Clerical, sales	19.0
65 years and over	3.1	Services	15.0
Sex:		Farm, fish., forest	4.6
Male	64.7	Processing	0.8
Female	35.3	Machine trades	1.8
Industry:		Bench work	0.8
Government	6.4	Structural work	31.5
Agriculture	4.4	Miscellaneous	7.1
Construction	28.1	Not available	1.3
Manufacturing	4.0	Duration:	
Trans., commun., util.	6.5	1 to 4 weeks	34.6
Wholesale, retail trade	18.6	5 to 14 weeks	38.1
		15 weeks and over	27.3

1/ Percentages may not add exactly to indicated total, due to rounding.

Source: Hawaii State Department of Labor and Industrial Relations, *Characteristics of the Insured Unemployed in Hawaii 1997*.

**Table 12.10-- WAGE AND SALARY JOBCOUNT: ANNUAL AVERAGES,
1980 TO 1998**

[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. Active-duty armed forces are excluded, unless also employed in civilian jobs. Persons not working because of labor disputes are included]

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1980	414,900	335,750	31,750	16,700	30,750
1981	416,300	335,050	32,600	16,700	31,950
1982	410,700	328,400	32,500	16,550	33,300
1983	417,400	332,750	33,150	17,100	34,400
1984	423,450	336,900	34,200	17,000	35,400
1985	436,150	344,950	35,700	18,000	37,550
1986	448,700	354,050	36,550	19,150	38,950
1987	470,500	369,300	39,000	20,600	41,600
1988	1/ 488,150	1/ 380,850	40,650	22,200	44,400
1989	515,100	397,900	44,950	24,350	47,900
1990	1/ 538,600	1/ 413,500	48,950	25,100	50,850
1991	548,700	417,850	51,650	26,400	52,850
1992	552,100	420,250	51,300	25,650	54,900
1993	547,450	416,900	50,800	23,550	56,200
1994	544,200	413,600	50,250	24,050	56,300
1995	540,150	410,250	1/ 49,550	24,450	55,850
1996	538,150	406,750	50,700	24,150	56,200
1997 1/	538,700	405,000	51,950	24,250	57,400
1998	537,600	402,150	52,050	24,900	58,350

1/ Revised.

Source: Hawaii State Department of Business, Economic Development and Tourism, computed from data provided by Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and Internet site <http://www.hawaii.gov/workforce/index.html>.

**Table 12.11-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES,
1993 TO 1998**

[Data rounded to nearest 50. Totals may not add due to rounding or residual categories]

Industry	1993	1994	1995	1996	1997 1/	1998
Nonagriculture, wage and salary	538,900	536,200	532,850	530,750	531,500	530,000
Construction, mining	32,350	29,200	26,300	23,650	22,300	21,250
Manufacturing	19,150	17,750	17,000	16,650	16,550	16,300
Durable goods	4,100	4,100	3,550	3,450	3,300	3,300
Nondurable goods	15,050	13,650	13,400	13,200	13,300	13,050
Food processing 2/	7,850	6,700	6,350	6,300	6,400	6,450
Sugar	2,050	(NS)	(NS)	(NS)	(NS)	(NS)
Pineapple	900	(NS)	(NS)	(NS)	(NS)	(NS)
Other	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Textile, apparel 3/	2,250	2,250	2,200	2,150	(NA)	(NA)
Printing, publishing	3,500	3,350	3,300	3,200	3,100	3,000
Transp., commun., utilities	41,300	41,800	40,700	41,050	41,300	41,000
Transportation 4/	31,350	31,900	30,700	31,000	31,150	30,850
Communication	6,400	6,250	6,250	6,400	6,600	6,700
Utilities	3,550	3,650	3,750	3,700	3,550	3,450
Trade	133,000	133,300	135,800	135,200	134,350	131,750
Wholesale	21,950	21,550	21,550	21,400	20,950	21,000
Retail	111,100	111,750	114,250	113,850	113,350	110,750
Finance, insur., real estate	38,950	38,400	37,150	36,900	36,150	35,500
Services and miscellaneous	162,550	163,900	164,500	166,650	169,200	171,950
Hotels	38,000	38,000	37,750	38,350	38,350	37,750
Health services	33,050	33,700	33,900	34,100	34,700	35,500
Government	111,600	111,850	111,400	110,550	111,700	112,200
Federal	31,800	31,250	31,050	31,100	30,650	30,400
Air Force	2,150	2,000	2,100	2,100	2,050	2,050
Army	4,600	4,600	4,450	4,850	5,000	4,900
Navy	10,700	10,250	10,200	9,850	9,250	9,100
State	64,250	65,000	63,950	62,800	64,250	64,950
Local 4/	15,500	15,600	16,450	16,600	16,750	16,850
Agriculture, wage and salary	8,550	8,000	7,300	7,400	7,200	7,550
Sugar	2,500	(NS)	(NS)	(NS)	(NS)	(NS)
Pineapple	1,350	(NS)	(NS)	(NS)	(NS)	(NS)
Other	4,700	(NS)	(NS)	(NS)	(NS)	(NS)
Nonagric., self-employed 3/	38,300	34,050	(NA)	(NA)	(NA)	(NA)
Agric., self-employed 4/	3,950	3,850	(NA)	(NA)	(NA)	(NA)
Labor disputes	(Z)	(Z)	-	-	-	50

Footnotes and source on next page.

**Table 12.11-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES,
1993 TO 1998 -- Con.**

NA Not available.

NS Not shown separately.

Z Fewer than 50.

1/ Revised.

2/ Data beginning with 1994 are not directly comparable with data for earlier years.

3/ Data for 1993 and 1994 are not directly comparable with data for earlier years.

4/ Data for 1995 are not directly comparable with data for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations Internet site <http://www.hawaii.gov/workforce/ces.htm#jci>.

Table 12.12-- EMPLOYMENT BY INDUSTRY: 1970 TO 1990

Industry	1970	1980	1990
Employed persons 16 years and over	285,556	415,181	529,059
Agriculture, forestry, and fisheries	13,161	14,560	16,509
Mining	322	233	323
Construction	26,637	29,888	42,071
Manufacturing	31,188	32,914	32,348
Nondurable goods	21,173	21,234	18,976
Durable goods	10,015	11,680	13,372
Transportation, communications, and other public utilities	26,403	36,478	46,953
Wholesale and retail trade	61,044	98,542	121,627
Finance, insurance, and real estate	14,356	31,648	39,506
Business and repair services	8,978	17,832	23,629
Personal services	20,301	31,288	43,721
Entertainment and recreation services	3,756	6,862	10,312
Professional and related services	48,310	73,363	109,110
Public administration	31,100	41,573	42,950

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 26.

**Table 12.13-- JOBCOUNT BY INDUSTRY, BY COUNTIES:
ANNUAL AVERAGES, 1997 REVISED**

[Data rounded to nearest 50. Totals may not add due to rounding or residual categories]

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	531,500	403,000	49,500	23,450	55,450
Construction, mining	22,300	17,250	2,050	950	2,000
Manufacturing	16,550	12,800	1,600	400	1,800
Durable goods	3,300	2,800	200	50	250
Nondurable goods	13,300	9,950	1,400	400	1,550
Food processing	6,400	3,950	950	200	1,250
Printing, publishing	3,100	2,550	200	100	250
Transp., commun., utilities	41,300	33,250	2,650	1,600	3,800
Transportation	31,150	25,250	1,750	1,200	2,950
Communication	6,600	5,550	400	(NS)	450
Utilities	3,550	2,500	500	(NS)	400
Trade	134,350	99,650	12,900	6,550	15,150
Wholesale	20,950	17,300	1,750	450	1,400
Retail	113,350	82,300	11,150	6,150	13,750
Finance, insur., real estate	36,150	29,050	2,600	1,400	3,050
Services and miscellaneous	169,200	121,250	17,350	8,500	22,050
Hotels	38,350	17,550	6,550	3,400	10,850
Health services	34,700	28,300	2,750	1,400	2,200
Government	111,700	89,750	10,300	3,950	7,550
Federal	30,650	28,900	900	400	500
Air Force	2,050	1,950	-	50	-
Army	5,000	4,900	100	-	-
Navy	9,250	9,150	-	150	-
State	64,250	49,350	7,200	2,550	5,100
Local	16,750	11,550	2,250	1,050	1,900
Agriculture, wage and salary	7,200	2,000	2,450	800	1,950
Labor disputes	-	-	-	-	-

NS Not shown separately.

Source: Hawaii State Department of Labor and Industrial Relations Internet site <http://www.hawaii.gov/workforce/ces.htm#jci>.

**Table 12.14-- JOBCOUNT BY INDUSTRY, BY COUNTIES:
ANNUAL AVERAGES, 1998**

[Data rounded to nearest 50. Totals may not add due to rounding or residual categories]

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	530,000	399,950	49,550	24,100	56,350
Construction, mining	21,250	16,250	1,900	1,050	2,050
Manufacturing	16,300	12,700	1,500	400	1,750
Durable goods	3,300	2,800	200	50	250
Nondurable goods	13,050	9,900	1,250	400	1,500
Food processing	6,450	4,150	900	200	1,150
Printing, publishing	3,000	2,450	200	100	250
Transp., commun., utilities	41,000	32,600	2,800	1,600	4,000
Transportation	30,850	24,650	1,900	1,250	3,100
Communication	6,700	5,650	400	(NS)	500
Utilities	3,450	2,350	500	(NS)	400
Trade	131,750	96,650	13,100	6,800	15,200
Wholesale	21,000	17,300	1,800	450	1,450
Retail	110,750	79,350	11,300	6,350	13,750
Finance, insur., real estate	35,500	28,400	2,750	1,250	3,100
Services and miscellaneous	171,950	123,350	16,950	9,000	22,650
Hotels	37,750	16,800	6,600	3,550	10,800
Health services	35,500	29,050	2,750	1,450	2,300
Government	112,200	90,000	10,550	4,000	7,600
Federal	30,400	28,650	900	350	500
Air Force	2,050	1,950	-	50	-
Army	4,900	4,800	100	-	-
Navy	9,100	8,950	-	150	-
State	64,950	49,850	7,350	2,550	5,200
Local	16,850	11,500	2,350	1,100	1,950
Agriculture, wage and salary	7,550	2,200	2,500	800	2,000
Labor disputes	50	-	-	-	-

NS Not shown separately.

Source: Hawaii State Department of Labor and Industrial Relations Internet site <http://www.hawaii.gov/workforce/ces.htm#jci>.

Table 12.15-- OCCUPATION: 1970 TO 1990

Occupation	1970	1980	1990
Employed persons 16 years and over	285,556	415,181	529,059
Managerial and professional specialty occupations	58,242	97,606	139,523
Executive, administrative, and managerial occupations	25,048	48,671	67,907
Professional specialty occupations	33,194	48,935	71,616
Technical, sales, and administrative support occupations	83,698	132,651	172,654
Technicians and related support occupations	7,442	11,982	18,404
Sales occupations	28,227	47,475	66,596
Administrative support occupations, including clerical	48,029	73,194	87,654
Service occupations	44,024	74,149	92,882
Private household occupations	2,131	1,547	1,075
Protective service occupations	4,304	7,578	10,956
Service occupations, except protective and household	37,589	65,024	80,851
Farming, forestry, and fishing occupations	12,572	14,154	15,328
Precision production, craft, and repair occupations	43,484	48,198	55,518
Operators, fabricators, and laborers	43,536	48,423	53,154
Machine operators, assemblers, and inspectors	13,589	14,000	15,380
Transportation and material moving occupations	13,767	16,430	18,796
Handlers, equipment cleaners, helpers, and laborers	16,180	17,993	18,978

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 25.

Table 12.16-- EMPLOYMENT BY CLASS OF WORKER: 1940 TO 1990

[Persons 14 years and over through 1960; 16 years and over, 1970 to 1990]

Year	All employed civilians	Private wage and salary workers	Government workers	Self-employed workers	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

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.

**Table 12.17-- CIVILIAN EMPLOYMENT, FULL- AND PART-TIME:
ANNUAL AVERAGES, 1996**

[Thousands]

Year, sex, and age	Full- and part-time	Full-time	Part-time			
			Total	Economic reasons	Non-economic reasons	Not at work
Total	553	436	117	24	86	8
Male	284	243	41	11	27	2
Female	269	193	76	13	58	5
16 to 19 years (both sexes)	23	5	18	2	15	1

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1996* (Bulletin 2498, April 1998), table 13.

**Table 12.18-- OCCUPATION OF EMPLOYED CIVILIANS IN PERCENT, BY SEX:
ANNUAL AVERAGES, 1996**

Occupation	Both sexes	Men	Women
All occupations (number in thousands)	553	283	270
Percent	100.0	100.0	100.0
Managerial and professional specialty			
Executive, administrative, and managerial	13.6	14.6	12.6
Professional specialty	13.3	10.4	16.4
Technical, sales, and administrative support			
Technicians and related support	2.6	2.8	2.3
Sales	12.4	10.0	14.9
Administrative support, including clerical	16.3	6.2	26.8
Service occupations	19.2	18.1	20.4
Precision production, craft, and repair	10.0	18.1	1.4
Operators, fabricators, and laborers			
Machine operators, assemblers, and inspectors	2.1	2.5	1.7
Transportation and material moving	3.5	6.0	0.8
Handlers, equipment cleaners, helpers, and laborers	3.6	5.9	1.2
Farming, forestry, and fishing	3.4	5.2	1.6

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1996* (Bulletin 2498, April 1998), table 15.

Table 12.19-- MULTIPLE JOBHOLDERS, NUMBERS AND PERCENT OF EMPLOYED: ANNUAL AVERAGES FOR 1994 TO 1997

Subject	1994	1995	1996	1997
Employed, 16 years and over (1,000)	554,000	(NA)	555,000	(NA)
Multiple jobholders (1,000)	48,000	(NA)	52,000	(NA)
Percent of employed	8.7	8.8	9.4	8.7
Rank (50 States and D.C.) 1/	9	8	9	12
U.S.: percent multiple jobholders	6.0	(NA)	6.4	6.3

NA Not available.

1/ Rank of 1 for highest number of multiple jobholders.

Source: 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.

**Table 12.20-- WORKERS 16 YEARS AND OVER, BY PLACE OF RESIDENCE
AND PLACE OF WORK, FOR OAHU: 1990**

Place of work	Place of residence		
	Oahu	Honolulu CDP 1/	Remainder of Oahu 1/
Total	437,518	193,364	244,154
Oahu	432,293	191,982	240,311
Honolulu CDP 1/	277,583	171,387	106,196
Remainder of Oahu 1/	154,710	20,595	134,115
Remainder of State	1,610	550	1,060
Out of State	3,615	832	2,783

1/ Not corrected for erroneous omission of Aliamanu and Fort Shafter from Honolulu CDP in census tabulations. Honolulu CDP is coterminous with Honolulu District and Honolulu Census County Division.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Population and Housing Characteristics for Census Tracts and Block Numbering Areas, Honolulu, HI MSA*, 1990 CPH-3-174 (May 1993), table 17.

**Table 12.21-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES: 1987 TO 1997**

Year	Number of reporting units, December 1/	Average employment	Wages and salaries	
			Total (\$1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1987	24,686	468,027	8,920,628	19,060
1988	24,787	484,483	9,909,719	20,454
1989	26,149	510,232	11,038,771	21,635
1990	27,277	534,432	12,350,266	23,109
1991	29,688	543,397	13,069,372	24,051
1992	30,496	547,883	13,988,506	25,532
1993	30,944	542,481	14,399,646	26,544
1994	31,031	539,559	14,426,932	26,718
1995	30,479	535,750	14,456,304	26,983
1996	31,254	533,310	14,591,094	27,359
1997	31,188	534,050	15,143,623	28,356
EXCLUDING GOVERNMENT				
1991	29,682	439,337	10,183,763	23,180
1992	30,490	440,881	10,837,155	24,581
1993	30,938	434,931	11,013,510	25,322
1994	31,025	431,500	11,066,502	25,647
1995	30,473	428,058	11,099,619	25,930
1996	31,248	426,936	11,256,765	26,366
1997	31,182	426,887	11,516,562	26,978
PRIVATE NON-AGRICULTURAL				
1991	29,031	427,001	9,933,990	23,265
1992	29,823	429,022	10,584,046	24,670
1993	30,254	423,006	10,741,597	25,393
1994	30,330	420,136	10,814,225	25,740
1995	29,774	417,728	10,865,476	26,011
1996	30,548	416,873	11,032,864	26,466
1997	30,467	416,773	11,285,401	27,078

1/ Beginning in 1986, includes employers reporting 1 or more employees at any time during the year, even if they reported no employees for December. Beginning in 1991, data were collected at the establishment (rather than county) level.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual) and records.

**Table 12.22-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES, BY COUNTIES: 1997**

County	Number of employers, December	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	31,188	534,050	15,143,623	28,356
City and County of Honolulu	21,871	401,500	11,853,538	29,523
Hawaii County	3,782	51,367	1,242,054	24,180
Kauai County	1,748	24,219	600,454	24,793
Maui County	3,793	56,965	1,447,577	25,412
EXCLUDING GOVERNMENT				
State total	31,182	426,887	11,516,562	26,978
City and County of Honolulu	21,868	315,692	8,928,459	28,282
Hawaii County	3,779	41,467	918,364	22,147
Kauai County	1,745	20,288	469,238	23,129
Maui County	3,790	49,440	1,200,500	24,282

Source: Hawaii State Department of Labor and Industrial Relations, *1997 Employment and Payrolls in Hawaii* (October 1998).

**Table 12.23-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1997**

Industry	Number of reporting units, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
All industries	31,188	534,050	15,143,623	28,356
Government	6	107,163	3,627,061	33,846
Federal	1	30,674	1,244,761	40,580
State	1	59,488	1,770,127	29,756
County	4	17,001	612,172	36,008
Private	31,182	426,887	11,516,562	26,978
Agriculture, forestry, fisheries 1/	715	10,114	231,161	22,856
Mining	9	279	13,999	50,176
Construction	2,590	22,010	931,623	42,327
Manufacturing 1/	1,009	16,623	509,012	30,621
Food processing 1/	247	6,446	165,626	25,694
Other manufacturing	762	10,177	343,387	33,741
Transportation	1,338	31,103	993,506	31,942
Communications	156	6,559	285,346	43,504
Utilities	107	3,550	201,211	56,679
Wholesale trade	2,526	20,888	680,568	32,582
Retail trade	7,264	113,238	1,935,272	17,090
Eating and drinking places	2,576	47,014	615,342	13,088
Other retail trade	4,688	66,224	1,319,930	19,931
Finance, insurance, real estate	3,958	36,115	1,244,201	34,451
Services	11,262	165,914	4,476,809	26,983
Hotels, rooming houses, etc.	325	38,350	974,982	25,423
Health services	2,365	34,678	1,324,921	38,206
Other services	8,572	92,886	2,176,906	23,436
Nonclassifiable establishments	248	495	13,854	27,987

1/ Separate data for sugar and pineapple are no longer available.

Source: Hawaii State Department of Labor and Industrial Relations, *1997 Employment and Payrolls in Hawaii* (October 1998).

**Table 12.24-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED BY
THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT
COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND
CONSTANT DOLLARS: 1969 TO 1997**

[Including government]

Year	Current dollars	1982-1984 dollars 1/	Year	Current dollars	1982-1984 dollars 1/
1969	6,876	17,452	1984	16,714	16,149
1970	7,424	17,889	1985	17,335	16,231
1971	7,677	17,771	1986	18,069	16,516
1972	7,989	17,913	1987	19,060	16,588
1973	8,479	18,195	1988	20,454	16,807
1974	9,087	17,645	1989	21,635	16,810
1975	9,767	17,348			
			1990	23,109	16,734
1976	10,347	17,508	1991	24,051	16,251
1977	10,903	17,557	1992	25,532	16,462
1978	11,630	17,384	1993	26,544	16,580
1979	12,429	16,728	1994	26,718	16,242
1980	13,548	16,323	1995	26,983	16,052
1981	14,471	15,781	1996	27,359	16,028
1982	15,367	15,810	1997	28,356	16,496
1983	16,115	16,229			

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu.

Source: Computed by the Hawaii State Department of Business, Economic Development & Tourism, data from the Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual), and U.S. Bureau of Labor Statistics, semi-annual releases.

**Table 12.25-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED
BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT
COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND
CONSTANT DOLLARS, BY CLASS OF WORKER: 1987 AND 1997**

Class of worker	1987: current dollars	1997		Percent change, 1987-1997	
		Current dollars	Deflated to 1987 dollars 1/	Current dollars	1987 dollars 1/
All classes	19,060	28,356	18,953	48.8	-0.6
Federal	27,615	40,580	27,124	47.0	-1.8
State	20,155	29,756	19,889	47.7	-1.3
County	22,758	36,008	24,068	58.2	5.8
Private	18,019	26,978	18,032	49.7	0.1

1/ The all-items consumer price index (CPI-U) for Honolulu increased 49.6 percent from 1987 to 1997.

Source: Computed by the Hawaii State Department of Business, Economic Development & Tourism, from the Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual), and U.S. Bureau of Labor Statistics, semi-annual CPI reports.

**Table 12.26-- NONGOVERNMENTAL REPORTING UNITS AND
EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1997**

[Excluding government]

Subject	All units	Employment-size class					
		1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 or more
Reporting units	31,182	17,033	6,091	4,002	2,558	872	626
Employment	431,342	29,721	40,225	53,668	76,913	59,002	171,813

Source: Hawaii State Department of Labor and Industrial Relations, *1997 Employment and Payrolls in Hawaii* (October 1998).

**Table 12.27-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE:
1986 TO 1996**

Year	Annual wages per employee (dollars)		Hawaii ratio as percent of U.S ratio		Rank 1/	
	Total	Private only	Total	Private only	Total	Private only
1986	18,101	16,907	90.7	85.6	31	38
1987	19,091	18,024	91.5	87.4	25	35
1988	20,444	19,437	93.5	89.8	22	27
1989	21,624	20,646	95.8	92.7	18	24
1990	23,167	22,244	98.2	95.6	13	18
1991	24,104	23,176	98.1	95.9	13	19
1992	25,613	24,585	98.9	96.2	13	19
1993	26,325	25,312	99.9	97.6	12	16
1994	26,746	25,647	99.3	96.8	13	17
1995	26,977	25,913	96.9	94.4	16	21
1996	27,352	26,371	94.4	92.3	22	23

1/ Among 50 States and D.C. Excluding D.C., Hawaii ranked 21st for all workers and 22nd for private workers in 1996.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages* (annual report).

**Table 12.28-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES:
ANNUAL AVERAGES, 1993 TO 1998**

Subject	1993	1994	1995	1996	1997	1998
Average weekly earnings (dollars)						
Construction and mining	864.88	898.18	922.27	1/ 936.21	1/ 956.29	964.40
Manufacturing	476.80	468.03	480.75	487.30	1/ 496.87	490.12
Food and kindred products	420.21	414.63	382.69	423.71	427.93	403.90
Communication and utilities	826.10	838.27	845.04	1/ 863.59	1/ 884.38	872.78
Trade 2/	275.40	284.45	288.76	1/ 293.78	1/ 303.39	307.22
Wholesale trade	441.60	461.23	469.94	1/ 445.94	1/ 467.87	498.71
Retail trade	245.10	252.54	257.50	1/ 267.33	273.83	273.31
Eating, drinking places	183.51	184.94	184.06	185.67	186.21	189.47
Banking & credit agencies	397.17	406.15	414.32	412.91	434.28	456.74
Hotels	367.73	386.46	406.90	411.40	422.73	433.90
Average weekly hours						
Construction and mining	37.9	37.3	36.7	1/ 36.4	35.8	35.6
Manufacturing	39.8	38.3	37.5	38.1	37.9	37.3
Food and kindred products	41.4	40.1	35.9	37.2	35.9	34.2
Communication and utilities	44.2	42.9	42.0	41.8	42.6	41.7
Trade 2/	30.0	30.1	30.3	30.1	30.4	30.6
Wholesale trade	38.3	38.5	38.3	37.1	37.4	38.6
Retail trade	28.5	28.6	28.9	28.9	29.1	29.2
Eating, drinking places	24.9	25.3	25.6	25.4	25.3	25.5
Banking & credit agencies	38.3	38.1	37.7	39.4	40.1	41.0
Hotels	33.4	33.9	34.6	34.0	33.9	34.3
Average hourly earnings (dollars)						
Construction and mining	22.82	24.08	25.13	25.72	1/ 26.74	27.09
Manufacturing	11.98	12.22	12.82	12.79	1/ 13.11	13.14
Food and kindred products	10.15	10.34	10.66	11.39	11.92	11.81
Communication and utilities	18.69	19.54	20.12	1/ 20.66	1/ 20.76	20.93
Trade 2/	9.18	9.45	9.53	1/ 9.76	1/ 9.98	10.04
Wholesale trade	11.53	11.98	12.27	1/ 12.02	1/ 12.51	12.92
Retail trade	8.60	8.83	8.91	1/ 9.25	9.41	9.36
Eating, drinking places	7.37	7.31	7.19	7.31	7.36	7.43
Banking & credit agencies	10.37	10.66	10.99	10.48	10.83	11.04
Hotels	11.01	11.40	11.76	12.10	12.47	12.85

1/ Revised.

2/ Excludes eating and drinking establishments before 1992.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book, May 1999*, pp. 12-15, and Internet site <http://www.hawaii.gov/workforce/ces.htm#h&e>.

Table 12.29-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1994 TO 1998

[In dollars]

Job classification 1/	1994	1995	1996	1997	1998
ANNUAL RATES					
Clerk, entry level	17,170	17,794	17,774	18,833	18,836
Cashier	21,616	23,420	23,307	25,503	26,755
Secretary	25,907	26,636	26,846	28,020	28,514
Switchboard operator	22,110	22,870	23,150	24,503	24,237
Bookkeeper, full-charge	28,710	29,827	30,431	32,137	33,466
Engineering drafting technician	32,654	32,193	35,960	35,298	39,103
Hospital attendant	21,350	21,949	22,401	(NA)	(NA)
Staff nurse	48,995	50,827	52,560	(NA)	(NA)
HOURLY RATES					
Housekeeper	9.85	10.10	10.45	11.07	11.07
Cook, general	11.90	12.94	12.50	13.24	13.48
Wait help	5.45	5.63	5.89	6.03	5.96
Laborer, light	8.96	9.01	9.12	9.38	8.98
Carpenter, maintenance	15.30	15.29	15.64	16.01	16.36
Electrician, maintenance	17.20	17.55	17.51	19.73	21.86
Automotive mechanic	15.22	15.27	15.97	16.04	16.58
Truck driver (trailer)	12.27	12.30	13.40	13.65	14.12

NA Not available.

1/ The 14 job titles with data for 1998 are meant to be only illustrative of the 81 reported in the 1998 publication.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (annual).

**Table 12.30-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS
IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1998**

[In dollars]

Job classification 1/	State average	Kauai	Oahu	Maui County	Hawaii County
ANNUAL RATES					
Clerk, entry level	18,836	...	18,805	20,319	17,396
Cashier	26,755	...	27,397	25,094	20,514
Secretary	28,514	27,458	28,671	27,350	27,211
Switchboard operator	24,237	...	24,247	...	...
Bookkeeper, full-charge	33,466	...	33,935	30,556	...
Engineering drafting technician	39,103	...	...	...	...
Hospital attendant	(NA)	(NA)	(NA)	(NA)	(NA)
Staff nurse	(NA)	(NA)	(NA)	(NA)	(NA)
HOURLY RATES					
Housekeeper	11.07	...	11.18	10.48	...
Cook, general	13.48	...	13.90	13.32	...
Wait help	5.96	...	5.98	5.87	...
Laborer, light	8.98	...	8.93	...	10.07
Carpenter, maintenance	16.36	...	16.79	...	...
Electrician, maintenance	21.86	...	22.65	...	...
Automotive mechanic	16.58	14.27	17.10	...	15.73
Truck driver (trailer)	14.12	...	15.06	...	...

... Base too small for reliable computation.

NA Not available.

1/ The 14 job titles with data are meant to be only illustrative of the 81 reported.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (Research Report Number 3708, October 1998).

Table 12.31-- WAGES OF HAWAII'S 20 LARGEST OCCUPATIONS: 1997

OES Code	Occupation Title	Employment	Mean Wage	
			Hourly	Annual
49011	Salespersons, retail	19,650	8.83	18,360
49023	Cashiers	13,620	8.55	17,770
55347	General office clerks	13,470	10.30	21,430
65041	Combined food preparation and service workers	12,760	6.62	13,780
65008	Waiters and waitresses	12,310	5.97	12,420
19005	General managers and top executives	11,730	30.66	63,770
67005	Janitors and cleaners, except maids and housekeeping cleaners	10,940	8.25	17,170
67002	Maids and housekeeping cleaners	10,200	10.56	21,970
55108	Secretaries, except legal and medical	9,850	13.43	27,940
41002	First-line supervisors and managers/supervisors-sales and related workers	8,840	16.27	33,840
55338	Bookkeeping, accounting, and auditing clerks	8,620	12.21	25,400
51002	First-line supervisors and managers/supervisors-clerical and administrative support workers	8,570	16.92	35,200
32502	Registered nurses	8,070	25.54	53,120
63047	Guards and watch guards	8,050	8.46	17,600
31308	Teachers, secondary school	7,320	(NA)	42,700
65038	Food preparation workers	7,240	8.74	18,170
79041	Laborers, landscaping and groundskeeping	6,850	10.52	21,870
85132	Maintenance repairers, general utility	6,500	13.46	27,990
31305	Teachers, elementary school	6,120	(NA)	38,680
97105	Truck drivers, light, include delivery and route workers	5,750	9.86	20,500

NA Not available.

Source: Occupational Employment Statistics (OES) Survey for Hawaii, 1997, U.S. Department of Labor, Bureau of Labor Statistics in cooperation with the Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, Labor Market Research Section - OES.

**Table 12.32-- AVERAGE WEEKLY WAGES FOR SPECIFIED OCCUPATIONS,
BY LEVEL, FOR THE HONOLULU METROPOLITAN STATISTICAL AREA,
STATE OF HAWAII, AND MAINLAND UNITED STATES: 1996**

[In dollars]

Occupation and level 1/	Honolulu MSA 2/	State of Hawaii	Mainland U.S.	Ratio 3/
PROFESSIONAL				
Accountants				
2	596	603	626	96
3	759	753	811	93
4	885	885	1,041	85
Engineers				
3	853	870	959	91
4	1,037	1,037	1,167	89
ADMINISTRATIVE AND TECHNICAL				
Computer programmers				
3	672	671	788	85
Systems analysts				
1	744	750	779	96
2	831	829	940	88
3	850	847	1,111	76
Personnel specialists				
2	641	640	611	105
3	796	797	804	99
4	851	854	1,045	82
CLERICAL				
Accounting clerks				
2	422	421	379	111
3	454	454	464	98
4	578	569	549	104
General clerks				
2	332	334	342	98
3	398	403	429	94
4	447	398	493	81

Continued on next page.

**Table 12.32-- AVERAGE WEEKLY WAGES FOR SPECIFIED OCCUPATIONS,
BY LEVEL, FOR THE HONOLULU METROPOLITAN STATISTICAL AREA,
STATE OF HAWAII, AND MAINLAND UNITED STATES: 1996 - Con.**

[In dollars]

Occupation and level 1/	Honolulu MSA 2/	State of Hawaii	Mainland U.S.	Ratio 3/
Key entry operators				
1	353	352	353	100
2	424	431	414	105
Secretaries				
2	547	541	476	114
3	610	611	557	110
4	726	721	665	108
Personnel assistants				
2	433	429	409	105
3	502	501	508	99
4	542	545	596	91
PROTECTIVE SERVICES				
Corrections officers	555	551	529	104
Firefighters	604	607	690	88
Police officers				
Level 1	660	649	700	93
TRUCKDRIVER OCCUPATIONS				
Light	9.01	9.13	8.53	107
Heavy	11.87	11.91	13.38	89
Tractor-trailer	14.11	13.82	14.24	97

1/ From level 1, the lowest grade in skill, experience, and responsibility, to level 4, the highest grade.

2/ Honolulu MSA (Metropolitan Statistical Area) is the same geographic area as the City and County of Honolulu.

3/ Ratio of Hawaii to Mainland wages.

Source: Hilery Z. Simpson, "How Do Wages in Hawaii Compare to Wages on the Mainland," *Compensation and Working Conditions* (U.S. Bureau of Labor Statistics), Summer 1998, pp. 31-40.

Table 12.33-- TOTAL COMPENSATION PAID TO EXECUTIVES OF MAJOR CORPORATIONS AND LABOR UNION LEADERS: 1995

Category	Total	Less than \$100,000	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 or more	Highest (\$1,000)
Corporate executives 1/	30	-	-	19	8	3	1,487.5
Union leaders 2/	29	20	8	1	-	-	294.5

1/ Total compensation includes awards of stock and cash paid under long-term incentive plans.

2/ Gross salaries, excluding allowances and expense reimbursements.

Source: *The Honolulu Advertiser*, June 9, 1996, pp. G1 and G2, and June 23, 1996, pp. F1 and F3.

Table 12.34-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1998

[Dollars per hour. As of July 1, unless otherwise specified]

Effective date	Oahu	Other islands	Effective date	State	Effective date	State
1942 1/	0.25	0.20	1962	1.15	1979	2.90
1943	0.30	0.25	1964 2/	1.25	1980	3.10
1945	0.40	0.40	1969	1.40	1981	3.35
1953	0.65	0.55	1970	1.60	1988 2/	3.85
1955	0.75	0.65	1974	2.00	1992 3/	4.75
1957	0.90	0.85	1975	2.40	1993 2/	5.25
1958	1.00	1.00	1978	2.65	1998 4/	5.25

1/ At inception of minimum wage law, April 1, 1942.

2/ January 1.

3/ April 1.

4/ Current minimum as of December 31, 1998.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 12.35-- NUMBER OF PERSONS AT WORK BY WEEKLY HOURS OF WORK: ANNUAL AVERAGES, 1991 TO 1996

[In thousands]

Weekly hours at work	1991	1992	1993	1994	1995	1996
Total	514	513	526	519	518	528
1 to 14 hours	21	20	18	29	29	30
15 to 29 hours	55	68	59	67	67	77
30 to 34 hours	46	57	47	41	50	45
35 to 39 hours	21	25	23	28	26	27
40 hours	247	223	254	221	218	223
41 to 48 hours	34	38	36	46	41	37
49 hours and over	90	81	90	87	88	88

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1996*, Bulletin 2498, April 1998, table 18, and earlier reports.

Table 12.36-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1949 TO 1997

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	1974	5,924	6,988	118
1950	966	1,105	114	1975	7,607	8,785	115
1951	377	1,139	302	1976	7,458	8,334	112
1952	455	1,667	366	1977	5,846	8,154	139
1953	576	1,775	308	1978	4,313	6,261	145
1954	907	1,698	187				
1955	665	1,812	272	1979	4,272	5,250	123
1956	686	1,617	236	1980	5,211	4,956	95
1957	1,100	1,813	165	1981	5,485	4,396	80
1958	1,547	2,219	143	1982	5,372	4,848	90
				1983	4,414	4,659	106
1959	1,280	2,126	166	1984	4,123	4,220	102
1960	1,716	2,595	151	1985	4,039	3,993	99
1961	2,863	3,235	113	1986	3,664	3,932	107
1962	2,966	3,594	121	1987	3,805	3,161	83
1963	2,683	3,787	141	1988	3,942	2,974	75
1964	2,572	3,705	144				
1965	2,257	3,411	151	1989	3,961	2,679	68
1966	1,859	2,655	143	1990	5,275	2,910	55
1967	2,196	3,102	141	1991	7,197	3,453	48
1968	2,014	2,896	144	1992	9,554	4,432	46
				1993	9,543	4,356	46
1969	2,652	3,600	136	1994	10,121	4,229	42
1970	5,078	6,062	119	1995	10,115	4,000	40
1971	6,215	6,908	111	1996	8,633	3,338	39
1972	6,124	5,994	98	1997	7,051	2,044	29
1973	5,255	6,116	116	1998	4,366	1,502	34

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 Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

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, *State of Hawaii Unemployment Insurance Fact Book, 1999*, p. 15, and records.

**Table 12.37-- NONFATAL OCCUPATIONAL INJURIES AND ILLNESSES,
PRIVATE SECTOR: 1995 AND 1996**

[Data include the following private industries: agriculture, forestry and fishing with more than 10 employees; oil and gas extraction; construction; manufacturing; transportation and public utilities; wholesale and retail trades; finance, insurance and real estate]

Subject	Injuries and illnesses		Injuries	
	1995	1996	1995	1996
Recordable cases	27,100	23,000	26,200	21,900
Per 100 full-time workers	8.0	6.8	7.7	6.5
Lost workday cases	13,900	12,100	13,400	11,600
Per 100 full-time workers	4.1	3.6	4.0	3.4
Nonfatal cases without lost workdays	13,100	10,800	12,800	10,300

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, *1996 Occupational Injuries and Illnesses Survey*, p. 4.

**Table 12.38-- WORK INJURIES, DEATHS, TIME LOST AND
COMPENSATION COSTS: 1990 TO 1997**

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

Source: Hawaii State Department of Labor and Industrial Relations, *Workers' Compensation Data Book* (annual).

Table 12.39-- UNION MEMBERSHIP AND EARNINGS, 1988, 1993, AND 1998, AND BY SECTOR, 1998

Subject	1988	1993	1998		
			Total	Private sector workers	Public sector workers
Sample size	1,842	1,727	1,514	1,199	315
Employment (1,000)	441.5	490.7	491.8	390.4	101.4
Percent union members	30.5	28.1	1/ 26.5	19.4	53.7
Percent covered by collective bargaining agreement	32.9	31.3	2/ 27.7	20.1	57.3
Mean earnings (1996 dollars):					
Weekly	584	588	3/ 545	527	615
Hourly	14.69	15.11	14.02	13.70	15.25
Union workers:					
Employment (1,000)	134.5	137.8	130.2	75.7	54.5
Mean earnings (1996 dollars):					
Weekly	663	685	664	643	693
Hourly	16.59	17.09	16.75	16.91	16.53
Nonunion workers:					
Employment (1,000)	307.0	352.9	361.6	314.7	46.9
Mean earnings (1996 dollars):					
Weekly	549	551	503	500	523
Hourly	13.86	14.33	13.04	12.93	13.77

1/ The U.S. percentage was 13.9. Hawaii ranked 1st among the 50 states.

2/ The U.S. percentage was 15.4. Hawaii ranked 1st among the 50 states.

3/ The U.S. mean was \$577. Hawaii ranked 26th among the 50 states.

Source: Barry T. Hirsch and David A. Macpherson, *Union Membership and Earnings Data Book: Compilations from the Current Population Survey (1997 Edition)*, The Bureau of National Affairs, Inc., 1999, tables 5a, 5b, and 5c.

Table 12.40-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1997

Subject	Total	AFL-CIO affiliated	Independent
Unions and associations	110	98	12
Membership 1/	170,399	148,837	2/ 21,562

1/ Data exclude 5 unions and associations (one of which was the United Public Workers) not reporting membership. The largest memberships were those reported by the Hawaii Government Employees Association (39,200), Longshoremen's and Warehousemen's Union (25,000), and Teamsters, Chauffeurs, Warehousemen and Helpers of America (16,000).

2/ Two labor unions submitted membership figures which were estimates.

Source: Hawaii State AFL-CIO, *Directory of Labor Organizations & Affiliates, 1997*.

**Table 12.41-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE
BARGAINING UNITS, BY EMPLOYING JURISDICTION: 1995 TO 1998**

[As of December 31]

Employing jurisdiction	1995	1996	1997	1998
Total	53,431	53,825	53,773	54,090
State of Hawaii	22,810	22,781	22,869	23,357
City and County of Honolulu	8,127	8,165	8,155	8,106
County of Hawaii	1,716	1,763	1,776	1,805
County of Maui	1,519	1,613	1,629	1,649
County of Kauai	881	859	869	865
Dept. of Education	12,455	12,819	12,651	12,416
Judiciary	1,440	1,428	1,421	1,430
University of Hawaii	4,483	4,397	4,403	4,462

Source: Hawaii Labor Relations Board, *HLRB Informational Bulletin*, No. 36, March 17, 1999, and earlier issues.

Table 12.42-- COLLECTIVE BARGAINING AGREEMENTS: 1987 TO 1998

Year	Number of agreements	Workers covered		Year	Number of agreements	Workers covered	
		Total	Per agreement			Total	Per agreement
1987 1/	1,375	80,400	58	1993	369	65,900	179
1988	433	16,290	38	1994	84	8,000	95
1989	104	50,950	490	1995	270	57,300	212
1990	194	24,300	125	1996	136	49,250	362
1991	107	23,700	221	1997	1,334	62,800	47
1992	1,413	21,400	15	1998	786	18,900	24

1/ For earlier years, 1964-1986, see source.

Source: Industrial Relations Center, University of Hawaii at Manoa, *Duration of Collective Bargaining Agreements in Hawaii, 1998* (December 1997), p. 1.

Table 12.43-- WORK STOPPAGES: 1989 TO 1998

[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/
1989	2	48	3,046
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)

NA Not available.

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

3/ Data exclude HGEA strikers in Hawaii County.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, unpublished estimates.

**Table 12.44-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS:
1984 TO 1998**

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1984	1	1,000	70,000	0.01
1985	1	1,000	11,000	0.01
1986-1993	-	-	-	0
1994	1	15,800	136,500	(NA)
1995-1997	-	-	-	-
1998	-	-	-	-

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records.

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the Gross State Product accounts and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state 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. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service; and Hawaii Agricultural Statistics Service, Hawaii State Department of Business, Economic Development & Tourism, and Hawaii Visitors & Convention Bureau. 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: 1998*, Section 14.

**Table 13.01-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1974 TO 1998**

[In millions of dollars]

Year	Value of production		Defense expenditures	Visitor expenditures 2/
	Raw sugar and molasses 1/	Fresh and processed pineapple		
1974	676.6	127.1	1,311.8	1,225
1975	366.1	136.7	1,442.1	1,360
1976	257.0	144.5	1,499.2	1,640
1977	226.8	161.6	1,576.1	1,845
1978	285.2	162.8	1,644.5	2,146
1979	345.7	206.4	1,707.7	2,537
1980	594.1	226.5	1,865.4	2,875
1981	327.9	217.6	2,041.2	3,200
1982	351.5	206.0	2,385.3	3,700
1983	410.2	219.0	2,566.5	3,974
1984	393.0	249.6	2,653.0	4,582
1985	340.8	222.5	3/ 3,110.6	5,244
1986	361.9	238.4	3/ 3,091.7	6,104
1987	335.9	251.4	3/ 3,073.7	6,868
1988	324.0	247.0	3/ 3,191.3	8,528
1989	322.0	241.9	3/ 3,294.7	9,282
1990	328.9	215.9	3/ 3,349.6	9,739
1991	270.7	224.6	3/ 3,652.3	10,634
1992	237.6	197.7	3/ 3,831.7	9,559
1993	251.9	140.6	3/ 3,735.2	8,678
1994	247.9	134.1	3/ 3,799.5	10,603
1995	200.2	135.0	3/ 3,773.2	11,444
1996	168.8	147.0	3/ 3,923.1	10,685
1997	132.5	136.7	3/ 4,077.9	10,770
1998	(NA)	(NA)	3/ 4,072.3	(NA)

NA not available.

1/ Excludes government sugar support payments.

2/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews. Estimates for 1984 and earlier years also exclude additional business expenditures by MCI (meetings, conventions, and incentive) visitors.

3/ Revised estimate.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual), records, and for 1997 and 1998 <http://www.nass.usda.gov/hi/stats/t_of_c.html>; Hawaii State Department of Business, Economic Development & Tourism, *Hawaii Gross State Product Accounts: 1958-88* (June 1988) and records; and Hawaii Visitors & Convention Bureau, *Annual Research Report* (various) and records.

**Table 13.02-- GROSS STATE PRODUCT, PER CAPITA GROSS STATE
PRODUCT AND RESIDENT POPULATION: 1958 TO 1998**

Year	Gross state product		Per capita gross state product		Resident Population [as of July 1]
	Millions of current dollars	Millions of 1992 dollars	Current dollars	1992 dollars	
1958	1,415.0	6,501.3	2,339	10,746	605,000
1959	1,572.5	7,253.0	2,528	11,659	622,087
1960	1,805.1	8,217.0	2,814	12,809	641,520
1961	1,886.5	8,220.0	2,864	12,479	658,684
1962	1,965.8	8,566.2	2,876	12,533	683,513
1963	2,101.8	8,777.7	3,081	12,866	682,241
1964	2,301.3	9,656.5	3,288	13,798	699,858
1965	2,530.4	10,512.7	3,595	14,937	703,804
1966	2,771.4	11,090.7	3,902	15,614	710,325
1967	2,990.0	11,475.7	4,138	15,883	722,528
1968	3,344.5	12,420.0	4,554	16,910	734,456
1969	3,952.3	13,943.6	5,268	18,586	750,228
1970	4,414.0	14,599.6	5,720	18,920	771,647
1971	4,773.8	15,354.2	5,955	19,153	801,644
1972	5,305.4	16,384.4	6,405	19,780	828,331
1973	6,009.3	17,195.3	7,057	20,192	851,595
1974	6,901.7	17,142.2	7,951	19,750	867,978
1975	7,411.3	18,156.9	8,363	20,489	886,160
1976	7,933.4	18,391.5	8,774	20,340	904,191
1977	8,597.4	18,950.3	9,363	20,637	918,259
1978	9,627.6	19,544.6	10,335	20,980	931,584
1979	10,906.4	20,310.6	11,441	21,305	953,306
1980	12,225.7	21,435.4	12,623	22,133	968,500
1981	13,078.3	21,955.2	13,370	22,445	978,195
1982	13,691.0	21,436.2	13,777	21,570	993,780
1983	14,811.8	22,248.9	14,626	21,970	1,012,717
1984	15,826.5	22,917.8	15,397	22,295	1,027,922
1985	17,139.7	24,024.9	16,485	23,108	1,039,698
1986	18,483.0	25,318.6	17,573	24,073	1,051,762
1987	20,027.3	26,240.2	18,754	24,571	1,067,917
1988	22,324.0	27,784.6	20,674	25,731	1,079,827
1989	24,574.7	29,105.0	22,451	26,590	1,094,588
1990	27,033.6	30,104.5	24,294	27,054	1,112,772
1991	28,614.4	29,987.9	25,277	26,490	1,132,040
1992	30,259.6	30,259.6	26,282	26,282	1,151,344
1993	31,171.9	30,371.0	26,784	26,096	1,163,835
1994	31,965.3	30,384.4	27,180	25,835	1,176,078
1995	32,723.7	30,525.3	27,660	25,802	1,183,066
1996	33,509.1	30,795.9	28,223	25,938	1,187,283
1997	34,238.6	31,261.4	28,722	26,225	1,192,057
1998	34,914.8	31,945.6	29,266	26,777	1,193,001

Source: Hawaii State Department of Business, Economic Development & Tourism, U.S. Bureau of Economic Analysis, State Annual Personal Income, September 19, 1998 and U.S. Bureau of the Census,

Federal-State Cooperative Program for Population Estimates.

**Table 13.03-- GROSS STATE (DOMESTIC) PRODUCT, 1977 TO 1997,
AND BY INDUSTRY, 1977 TO 1997**

[Data for current dollars 1995-96 and for millions of chained (1992) dollars are revised for 1993-96]

Year	Millions of current dollars	Millions of chained (1992) dollars	Year	Millions of current dollars	Millions of chained (1992) dollars
1977	9,401	22,043	1988	25,760	30,060
1978	10,538	22,954	1989	28,756	32,333
1979	11,946	24,156	1990	32,436	34,868
1980	13,410	24,798	1991	33,860	34,910
1981	14,537	24,147	1992	35,193	35,193
1982	15,523	24,026	1993	35,160	34,849
1983	17,006	25,018	1994	35,249	34,981
1984	18,532	25,675	1995	36,681	34,202
1985	20,025	26,236	1996	36,992	33,802
1986	21,995	27,340	1997	38,024	33,736
1987	23,281	28,068			
	Millions of current dollars				
Industry	1977	1987	1996	1997	
Total, all industries	9,401	23,281	36,992	38,024	
Agriculture, forestry, fisheries	217	438	470	463	
Farms	186	343	278	275	
Ag. services, forestry, fisheries	30	95	191	188	
Mining	(L)	14	28	26	
Construction	571	1,162	1,770	1,640	
Manufacturing	519	998	1,173	1,213	
Transp, communications, utilities	947	2,349	3,802	3,904	
Wholesale trade	458	883	1,458	1,493	
Retail trade	995	2,529	4,270	4,332	
Finance, insurance, real estate	1,609	5,145	8,215	8,503	
Services	1,471	4,298	8,161	8,413	
Hotels	432	1,101	2,039	2,095	
Health services	299	948	1,976	2,005	
Other than hotels and health	740	2,249	4,146	4,313	
Government	2,613	5,464	7,646	8,036	
Federal government	1,734	3,670	4,387	4,603	
Civilian	674	1,372	1,705	1,865	
Military	1,060	2,298	2,682	2,738	
State and local government	879	1,793	3,259	3,434	

L Less than \$500,000.

Source: U.S. Bureau of Economic Analysis, <<http://www.bea.doc.gov/bea/regional/data.html>>, June 7, 1999.

**Table 13.04-- TOTAL AND PER CAPITA PERSONAL INCOME AND
DISPOSABLE PERSONAL INCOME: 1969 TO 1997**

[Data for 1982-96 have been revised]

Year	Personal income (thousands of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1969	3,331,816	2,825,829	4,484	3,803	116.8	115.3
1970	3,811,203	3,254,731	4,996	4,266	122.5	120.3
1971	4,111,819	3,568,375	5,194	4,508	120.0	118.5
1972	4,523,867	3,871,369	5,530	4,732	117.7	116.2
1973	5,027,995	4,316,837	5,973	5,128	114.6	112.8
1974	5,761,541	4,973,687	6,714	5,796	118.3	117.5
1975	6,194,830	5,471,183	7,079	6,252	116.0	116.3
1976	6,725,874	5,891,520	7,537	6,602	112.7	112.8
1977	7,287,481	6,340,742	7,958	6,924	108.5	108.5
1978	8,090,722	6,996,006	8,711	7,532	106.3	105.8
1979	9,195,439	7,929,719	9,679	8,347	106.2	106.0
1980	10,563,256	9,122,760	10,916	9,427	108.5	108.5
1981	11,376,347	9,812,862	11,630	10,032	104.4	104.7
1982	12,045,978	10,603,455	12,121	10,670	103.5	105.5
1983	13,193,413	11,578,143	13,028	11,433	105.4	106.0
1984	14,123,179	12,505,167	13,740	12,165	101.2	102.2
1985	15,069,700	13,207,045	14,494	12,703	100.6	101.0
1986	16,118,094	14,121,563	15,325	13,427	101.4	101.8
1987	17,366,635	14,993,984	16,262	14,040	102.0	101.5
1988	19,236,760	16,558,626	17,815	15,335	104.6	103.1
1989	21,229,766	17,993,473	19,395	16,439	106.8	104.4
1990	23,956,464	20,407,972	21,533	18,343	112.4	110.1
1991	25,097,971	21,493,935	22,182	18,997	113.0	110.8
1992	26,372,209	22,723,304	22,942	19,768	111.7	109.8
1993	27,511,237	23,732,164	23,708	20,452	111.7	110.3
1994	28,331,447	24,502,063	24,161	20,896	109.5	108.7
1995	29,332,699	25,651,893	24,883	21,761	107.9	108.6
1996	29,698,200	25,825,750	25,105	21,832	103.9	104.9
1997	30,478,732	26,362,793	25,686	22,217	101.5	102.8

Note: Data in Table 13.04 are annual data released in September while data in Tables 13.06 and 13.08 are annual averages of four quarters and are released in April. Data are subject to subsequent revision.

Source: U.S. Bureau of Economic Analysis, News Release BEA 98-29 <<http://www.bea.doc.gov/bea/>> dated September 14, 1998; and State Personal Income 1929-97 (CD-ROM RCN-0208, September, 1998); *Survey of Current Business*, October 1998, and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table 13.05-- ECONOMIC ESTIMATES AND PROJECTIONS: 1995 TO 2020

Year	Gross state product (millions of 1987 dollars)	Personal income		Total labor income 1/ (millions of 1987 dollars)	Total civilian employment (number of jobs)
		Total (millions of 1987 dollars)	Per capita (1987 dollars)		
1995	23,297.8	21,255.6	18,025.0	15,388.3	579,800
2000	25,994.7	23,671.7	19,113.0	17,115.6	613,200
2005	28,548.0	25,902.1	19,862.0	18,700.6	650,800
2010	31,052.3	28,305.7	20,709.0	20,317.0	687,300
2015	33,588.9	31,051.8	21,705.0	22,069.4	721,900
2020	36,388.5	34,105.1	22,825.0	23,978.2	757,400

1/ Labor income is the sum of wage and salary disbursements, other labor income, and proprietors' income.

Source: Hawaii Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2020, DBEDT 2020 Series*, May 1997.

Table 13.06-- PERSONAL INCOME BY MAJOR SOURCES: 1993 TO 1998

[In millions of dollars. Data for 1993-97 have been revised. Data for 1998 are preliminary.
Data are annual averages of quarterly data released in April. Data are subject to revision]

Item	1993	1994	1995	1996	1997	1998
PERSONAL INCOME	27,511	28,332	25,396	29,784	30,514	31,182
Earnings By Place of Work	20,844	21,072	21,187	21,213	21,702	22,093
Wage and salary disbursements	16,647	16,760	16,811	16,945	17,400	17,681
Other labor income	1,885	1,949	1,874	1,739	1,714	1,694
Proprietors' income	2,312	2,363	2,503	2,529	2,589	2,719
Farm proprietors' income	10	2	7	6	5	6
Nonfarm proprietors' income	2,302	2,361	2,496	2,524	2,583	2,713
Dividends, interest, and rent	4,028	4,363	4,806	5,010	5,079	5,158
Transfer payments	3,959	4,251	4,777	4,937	5,147	5,358
Less: Pers. cont. for social insur.	1,320	1,354	1,372	1,375	1,413	1,427
Earnings By Industry	20,844	21,072	21,187	21,213	21,702	22,093
Farm Earnings	186	180	165	164	159	171
Nonfarm Earnings	20,658	20,892	21,022	21,049	21,544	21,922
Private Earnings	15,380	15,541	15,649	15,723	16,003	16,321
Ag. serv., forestry, fishing & oth	150	144	150	143	141	148
Mining	17	16	21	19	16	17
Construction	1,897	1,712	1,588	1,461	1,379	1,359
Manufacturing	792	820	784	772	798	803
Transport. and public utilities	1,671	1,665	1,697	1,741	1,823	1,822
Wholesale trade	795	794	791	788	799	822
Retail trade	2,487	2,570	2,636	2,635	2,656	2,649
Finance, insur., and real estate	1,739	1,662	1,698	1,757	1,763	1,841
Services	5,831	6,158	6,284	6,406	6,630	6,862
Gov't and gov't enterprises	5,278	5,351	5,373	5,326	5,541	5,601
Federal, civilian	1,205	1,241	1,251	1,285	1,340	1,383
Military	1,586	1,537	1,551	1,533	1,567	1,549
State and local	2,488	2,573	2,572	2,509	2,633	2,668

Source: U.S. Bureau of Economic Analysis, Regional Accounts Data: April 27, 1999
<<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-f.html>>.

**Table 13.07-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTY:
1982 TO 1997**

[Data for 1982-96 have been revised]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
TOTAL (THOUS. DOL.)						
1982	12,045,978	9,835,143	2,210,835	963,469	422,668	824,698
1983	13,193,413	10,682,576	2,510,837	1,077,408	472,358	961,071
1984	14,123,179	11,502,090	2,621,089	1,117,675	486,595	1,016,819
1985	15,069,700	12,255,214	2,814,486	1,179,028	524,676	1,110,782
1986	16,118,094	13,019,439	3,098,655	1,292,649	572,266	1,233,740
1987	17,366,635	14,035,221	3,331,414	1,380,357	611,040	1,340,017
1988	19,236,760	15,451,660	3,785,100	1,525,256	735,789	1,524,055
1989	21,229,766	16,925,649	4,304,117	1,729,327	842,918	1,731,872
1990	23,956,464	19,026,479	4,929,985	1,991,096	949,841	1,989,048
1991	25,097,971	19,884,116	5,213,855	2,119,357	1,017,937	2,076,561
1992	26,372,209	21,191,215	5,180,994	2,224,829	681,654	2,274,511
1993	27,511,237	21,718,951	5,792,286	2,319,360	1,085,952	2,386,974
1994	28,331,447	22,266,490	6,064,957	2,413,550	1,151,491	2,499,916
1995	29,396,283	23,077,867	6,318,416	2,542,388	1,203,061	2,572,967
1996	29,783,921	23,295,684	6,488,237	2,630,310	1,217,877	2,640,050
1997	30,514,427	23,836,437	6,677,990	2,716,033	1,240,521	2,721,436
PER CAPITA (DOLLARS)						
1982	12,121	12,673	10,155	9,752	10,111	10,696
1983	13,028	13,538	11,228	10,692	11,037	12,004
1984	13,740	14,417	11,390	10,796	11,152	12,255
1985	14,494	15,237	11,956	11,133	11,828	13,045
1986	15,325	16,065	12,841	11,929	12,559	14,118
1987	16,262	17,149	13,354	12,354	12,945	14,802
1988	17,815	18,750	14,800	13,446	15,156	16,254
1989	19,395	20,360	16,350	14,833	16,910	17,888
1990	21,529	22,702	17,949	16,393	18,401	19,580
1991	22,171	23,488	18,264	16,642	19,156	19,780
1992	22,906	24,683	17,695	16,948	12,623	21,153
1993	23,638	25,127	19,342	17,284	19,804	21,613
1994	24,090	25,554	19,904	17,710	20,682	22,171
1995	24,848	26,434	20,379	18,352	21,448	22,294
1996	25,086	26,681	20,653	18,825	21,469	22,431
1997	25,598	27,259	21,026	19,147	21,941	22,827

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Metropolitan Area Personal Income, May 6, 1999 <<http://www.bea.doc.gov/bea/regional/data..html>>.

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

**Table 13.08-- PER CAPITA PERSONAL INCOME FOR THE
UNITED STATES AND HAWAII: 1969 TO 1998**

[Data in Table 13.08 and 13.06 are annual averages of four quarters and released in April while data in Table 13.04 are annual data released in September. Data are subject to subsequent revision]

Year	United States		Hawaii			
	In dollars	Percent change	In dollars	Percent change	Per capita rank 2/	Percent of the U.S. average
1969	3,840	...	4,484	...	7	116.8
1970	4,077	6.2	4,996	11.4	3	122.5
1971	4,327	6.1	5,194	4.0	3	120.0
1972	4,699	8.6	5,530	6.5	5	117.7
1973	5,211	10.9	5,973	8.0	6	114.6
1974	5,676	8.9	6,714	12.4	3	118.3
1975	6,100	7.5	7,079	5.4	3	116.0
1976	6,690	9.7	7,537	6.5	7	112.7
1977	7,334	9.6	7,958	5.6	8	108.5
1978	8,196	11.8	8,711	9.5	12	106.3
1979	9,118	11.2	9,679	11.1	11	106.2
1980	10,062	10.4	10,916	12.8	10	108.5
1981	11,144	10.8	11,630	6.5	14	104.4
1982	11,715	5.1	12,121	4.2	14	103.5
1983	12,356	5.5	13,028	7.5	12	105.4
1984	13,571	9.8	13,740	5.5	16	101.2
1985	14,410	6.2	14,494	5.5	16	100.6
1986	15,106	4.8	15,325	5.7	17	101.4
1987	15,945	5.6	16,262	6.1	15	102.0
1988	17,038	6.9	17,815	9.5	13	104.6
1989	18,153	6.5	19,395	8.9	11	106.8
1990	19,156	5.5	21,529	11.0	7	112.4
1991	19,623	2.4	22,171	3.0	7	113.0
1992	20,547	4.7	22,906	3.3	7	111.5
1993	21,220	3.3	23,638	3.2	6	111.4
1994	22,056	3.9	24,090	1.9	8	109.2
1995	23,059	4.5	24,848	3.1	9	107.8
1996	24,164	4.8	25,086	1.0	13	103.8
1997	25,288	4.7	25,598	2.0	17	101.2
1998 1/	26,412	4.4	26,137	2.1	17	99.0

1/ Data for 1998 are preliminary.

2/ Among the 50 States; District of Columbia is excluded from this ranking.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: April 28, 1997 (for 1969-91) and April 27, 1999 (for 1992-98, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-d.htm>>) and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 13.09-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1949 TO 1989

[In dollars. Based on censuses made in April of following year]

Year	Households	Families	Unrelated individuals with income 1/	Persons with income 1/	
				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

NA Not available.

1/ 14 years old and over through 1969, and 15 years old and over thereafter.

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).

Table 13.10-- MEDIAN INCOME OF HOUSEHOLDS IN CONSTANT DOLLARS: 1995 TO 1997

[In 1997 dollars. Three-year moving average is recommended for state-to-state comparison.
Two-year moving average is acceptable for individual state's year-to-year comparison]

	1995-1997		1995-1996		1996-1997	
	U. S.	Hawaii	U. S.	Hawaii	U. S.	Hawaii
Median income (constant dollars)	36,399	42,931	36,097	43,930	36,656	41,832
Standard error	131	1,120	160	1,364	145	1,378
Rank (50 states and D.C.) 1/	...	5	...	4	...	7

1/ Rank of 1 indicates highest median income.

Source: U.S. Bureau of the Census, *Current Population Reports, Series P60-200, Money Income in the United States: 1997*, and Hawaii State Department of Business, Economic Development & Tourism calculations.

Table 13.11-- MEDIAN INCOME OF FOUR-PERSON FAMILIES IN THE UNITED STATES AND HAWAII: 1974 TO 1997

[In dollars, numbers, and percent. Based on small samples and subject to considerable sampling variation. From surveys made 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) and the decennial census of population conducted by the Bureau of the Census, as well as per capita personal income estimates produced by the Bureau of Economic Analysis. The Bureau of the Census recommends using three-year moving averages for state-to-state comparison. Two-year moving average is acceptable for a given state's year-to-year comparison. See Table 13.10]

Calendar year 1/	Fiscal year 2/	United States	Hawaii	Hawaii rank 3/	Hawaii as percent of US
1974	1977	14,747	17,069	2	115.7
1975	1978	15,848	18,825	2	118.8
1976	1979	17,315	20,113	2	116.2
1977	1980	18,723	21,718	2	116.0
1978	1981	20,428	22,475	3	110.0
1979	1982	22,395	24,582	7	109.8
1980	1983	24,332	27,514	4	113.1
1981	1984	26,274	29,295	6	111.5
1982	1985	27,619	30,019	9	108.7
1983	1986	29,184	31,614	10	108.3
1984	1987	31,097	33,445	11	107.6
1985	1988	32,777	34,636	10	105.7
1986	1989	34,716	36,618	11	105.5
1987	1990	36,812	40,878	6	111.0
1988	1991	39,051	42,353	8	108.5
1989	1992	40,763	44,988	8	110.4
1990	1993	41,451	50,234	6	121.2
1991	1994	43,056	49,367	4	114.7
1992	1995	44,615	50,821	4	113.9
1993	1996	45,161	54,856	4	121.5
1994	1997	47,012	56,992	5	121.2
1995	1998	49,687	54,759	6	110.2
1996	1999	51,518	57,909	6	112.4
1997	2000	53,350	58,474	10	109.6

1/ The term "calendar year" refers to the year the money income was received by the Current Population Survey respondents.

2/ The term "fiscal year" refers 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*.

3/ Rank computed among the 50 states and the District of Columbia. Rank of 1 indicates the highest median income.

Source: U.S. Bureau of the Census, Median Income for 4-Person Families, By State, 1974-97 (FY 77-2000) <<http://www.census.gov/hhes/income/4person.html>>.

**Table 13.12- MEDIAN MONEY INCOME OF HOUSEHOLDS,
FOR THE UNITED STATES AND HAWAII, IN CURRENT
AND CONSTANT DOLLARS: 1984 TO 1997**

[In dollars, numbers, and percent. Based on small samples and subject to considerable sampling variation. From surveys made in March or April of following year. The Bureau of the Census recommends multi-year averages for analysis. See Table 13.10. Annual estimates are provided for information. Rank among the 50 states and D.C. In all years D.C. is ranked below Hawaii]

Year	Median income in current dollars			
	United States	Hawaii	Hawaii as % of US	Rank
1984	22,415	28,877	128.8	4
1985	23,618	28,961	122.6	5
1986	24,897	29,003	116.5	9
1987	25,986	35,022	134.8	1
1988	27,225	33,024	121.3	7
1989	28,906	35,035	121.2	7
1990	29,943	38,921	130.0	3
1991	30,126	37,246	123.6	4
1992	30,636	42,113	137.5	1
1993	31,241	42,662	136.6	2
1994	32,264	42,255	131.0	3
1995	34,076	42,851	125.8	3
1996	35,492	41,772	117.7	5
1997	37,005	40,934	110.6	14
Year	Median income in constant 1997 dollars 1/			
	United States	Hawaii	Hawaii as % of US	Rank
1984	34,626	44,608	128.8	4
1985	35,229	43,199	122.6	5
1986	36,460	42,472	116.5	9
1987	36,714	49,481	134.8	1
1988	36,937	44,804	121.3	7
1989	37,415	45,348	121.2	7
1990	36,770	47,795	130.0	3
1991	35,501	43,891	123.6	4
1992	35,047	48,176	137.5	1
1993	34,700	47,386	136.6	2
1994	34,942	45,762	131.0	3
1995	35,887	45,129	125.8	3
1996	36,306	42,730	117.7	5
1997	37,005	40,934	110.6	14

1/ Median income in 1997 CPI-U-X1 adjusted dollars. Base year was 1996 in *Data Book 1997*.
Source: U.S. Bureau of the Census, *March Current Population Survey, Consumer Income*

P60-200 (September 1998). Table H-8. Median Money Income of Households, by State: 1984 to 1997,
<<http://www.census.gov/hhes/income/histinc/h08.html>>.

**Table 13.13-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, AND
NONFAMILY HOUSEHOLDS, AND PERCENT OF FAMILIES AND
PERSONS BELOW POVERTY LEVEL, FOR COUNTIES AND
SELECTED URBAN PLACES: 1989**

Geographic area	Median income (dollars)			Percent below poverty level 1/	
	Households	Families	Nonfamily households	Persons	Families
The State	38,829	43,176	24,376	8.3	6.0
Counties:					
Hawaii	29,712	33,186	17,375	14.2	10.9
Honolulu	40,581	45,313	25,685	7.5	5.4
Kalawao	(B)	(B)	(B)	(B)	(B)
Kauai	37,425	41,099	20,867	7.2	5.0
Maui	38,771	42,129	25,013	7.9	5.7
Census designated places:					
Hilo	30,014	35,570	15,700	14.5	11.3
Honolulu	37,190	45,227	24,177	8.4	5.5
Kailua (Oahu)	55,259	57,537	30,896	3.4	2.1
Kaneohe	49,770	51,116	30,291	4.9	2.9
Pearl City	50,752	52,879	23,008	3.5	2.4
Waipahu	38,380	40,635	17,691	13.4	12.8

B Base figure too small for statistical reliability.

1/ 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. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), tables 28, 29, 148, 149, 177, and 178.

Table 13.14-- ESTIMATED MEDIAN INCOME AND POVERTY STATUS, BY COUNTY: 1995

Area	Median household income (dollars)	Persons in poverty 1/		Persons under 18 in poverty	
		Number	Percent	Number	Percent
The State	43,973	115,876	9.9	43,091	13.8
Counties:					
Hawaii	35,093	21,493	15.5	8,968	22.1
Honolulu	44,903	77,994	9.1	28,089	12.6
Kalawao	8,630	2/	2/	2/	2/
Kauai	40,164	5,634	9.9	2,051	12.7
Maui	41,930	10,754	9.1	3,984	12.3

1/ Based on Mainland poverty thresholds. Official Hawaii thresholds are about 15 percent higher. These data accordingly understate the number and percent of persons below the poverty level in Hawaii. Data also differ from estimates in Table 13.18.

2/ Regression estimates not formed because of a lack of data. These estimates are equal to the 1990 Census value and standard errors are not reported. 1995 Median income is also adjusted for inflation.

Source: U.S. Bureau of the Census, Small Area Income and Poverty Estimates Program, February 12, 1999.

Table 13.15-- INCOME OF HOUSEHOLDS AND FAMILIES: 1989 TO 1995

[Data refer to income before taxes. Particularly for 1993, based on a small sample subject to considerable sampling variation]

Annual income	Households			Families		
	1989	1993	1995	1989	1993	1995
Total	356,748	398,834	377,470	266,439	303,767	278,635
Less than \$5,000	13,393	9,548	10,838	5,411	5,147	1,544
\$5,000 to \$9,999	18,011	16,394	20,747	8,763	5,807	11,042
\$10,000 to \$14,999	21,657	20,378	21,809	13,306	12,255	16,024
\$15,000 to \$24,999	53,305	52,230	42,302	36,267	41,668	35,670
\$25,000 to \$34,999	52,186	62,051	50,532	38,048	34,741	30,723
\$35,000 to \$49,999	68,063	67,356	79,582	53,675	52,834	58,240
\$50,000 to \$74,999	73,616	98,013	67,996	62,526	86,333	52,077
\$75,000 to \$99,999	31,076	42,095	42,352	26,985	37,195	35,617
\$100,000 to \$149,999	17,640	24,514	26,847	14,901	22,849	23,884
\$150,000 or more	7,801	6,255	14,466	6,557	4,939	13,714
Median income (dollars)	38,829	42,662	42,851	43,176	49,797	(NA)

NA Not available.

Source: U.S. Bureau of the Census, Release CB92-47 (April 29, 1992), STF-3A, and Current Population Survey, March 1994 (special tabulation by Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center) and for 1995, special tabulation by Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center, October 23, 1998.

**Table 13.16-- MEDIAN INCOME FOR FOUR-PERSON FAMILIES:
FISCAL YEARS 1977 TO 2000**

[In dollars and number. Years ending September 30. Estimated by U.S. Bureau of the Census from the decennial Census of Population, Bureau of Economic Analysis estimates of per capita personal income, and the Current Population Survey]

Year	United States	Hawaii	Rank 2/
1977	14,747	17,069	2
1978	15,848	18,825	2
1979	17,315	20,113	2
1980	18,723	21,718	2
1981	20,428	22,475	3
1982	22,395	24,582	7
1983	24,332	27,514	4
1984	26,274	29,295	6
1985	27,619	30,019	9
1986	29,184	31,614	10
1987	31,097	33,445	11
1988	32,777	34,636	10
1989	34,716	36,618	11
1990	36,812	40,878	6
1991	39,051	42,353	8
1992	40,763	44,988	8
1993	41,451	50,234	6
1994	43,056	49,367	4
1995	44,615	50,821	4
1995 1/	44,251	50,856	5
1996	45,161	54,856	4
1997	47,012	56,992	5
1998	49,687	54,749	7
1999	51,518	57,909	6
2000	53,350	58,474	10

1/ Implementation of 1990 population controls in CPS estimates.

2/ Rank computed among the 50 states and the District of Columbia.

Source: U.S. Dept. of Health and Human Services, Office of Community Services, "State Median Income Estimates for Four-Person Families (Fiscal Year); Notice of the Fiscal Year State Median Income Estimates for Use Under the Low Income Home Energy Assistance Fiscal Administered by the Administration for Children and Families, Office of Community Services, Division of Energy Assistance". For 1977-99 U.S. Bureau of the Census, Median Income for 4-Person Families, By State, 1974-96 (FY 77-99) <<http://www.census.gov/hhes/income/4person.html>>. For 1996, *Federal Register*, March 30, 1995. For 1997-99: Federal Register Online via GPO Access: <<http://wais.access.gpo.gov>>. For 1997: [DOCID: fr19mr96-74], March 13, 1996; for 1998 [DOCID:fr17mr97-117], March 17, 1997; fo: 1999: [DOCID:fr20fe98-68], February 20, 1998; and for 2000, February 26, 1999: [DOCID:fr26fe99-75].

**Table 13.17-- INCOME TYPE AND PER CAPITA INCOME IN 1989, BY
GEOGRAPHIC AREAS: 1990**

Subject	State total	Oahu	Neighbor islands
Households	356,748	265,625	91,123
With wage and salary income	297,748	226,536	71,212
Mean wage and salary income (dollars)	43,025	44,702	37,690
With nonfarm self-employment income	51,415	35,022	16,393
Mean nonfarm self-employment income (dollars)	22,521	22,477	22,617
With farm self-employment income	5,956	2,164	3,792
Mean farm self-employment income (dollars)	10,925	8,272	12,439
With Social Security income	90,377	64,394	25,983
Mean Social Security income (dollars)	7,815	7,712	8,070
With public assistance income	24,240	16,803	7,437
Mean public assistance income (dollars)	5,272	5,264	5,288
With retirement income	71,005	53,219	17,786
Mean retirement income (dollars)	12,116	13,230	8,783
Per capita income (dollars)	15,770	16,256	14,275

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 42.

Table 13.18-- POVERTY STATUS OF PERSONS: 1969, 1975, AND 1979 TO 1996

[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 censuses or 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 (14 years before 1979)]

Year	Number	Percent	Year	Number	Percent
Census:					
1969	68,543	9.3	1986	109,000	10.7
1975	67,000	7.9	1987	95,000	8.8
1979	91,618	9.9	1988	117,000	11.1
1989	88,408	8.3	1989	122,000	11.3
			1990	121,000	11.0
CPS: 1/			1991	90,000	7.7
1980	81,000	8.5	1992	129,000	11.0
1981	108,000	11.3	1993	91,000	8.0
1982	132,000	13.2	1994	97,000	8.7
1983	135,000	13.4	1995	122,000	10.3
1984	92,000	9.3	1996	142,000	3/ 12.1
1985	109,000	10.7	1997 2/	(NA)	13.9

NA Not available.

1/ Current Population Survey. Based on small samples and subject to considerable sampling variation.

2/ Standard error in 1997 was 1.92 for the poverty rate. For the entire United States in 1997, the poverty rate was 13.3 percent. Hawaii was the fourteenth lowest state in poverty rate in 1995.

3/ Revised from *Data Book 1997*.

Source: U.S. Bureau of the Census, *1970 Census of Population*, PC(1)-C13 (December 1971), table 58; *Current Population Reports, Consumer Income*, Series P-60, No. 113 (July 1978), p. 179; *1980 Census of Population*, PC80-1-C13 (June 1983), table 72; *1990 Census of Population*, 1990 CP-2-13 (September 1993), table 29; *Current Population Reports, Consumer Income*, Series P-60, No. 175 (August 1991), pp. 219-221, No. 185 (September 1993), p.1 and App. Table D-1, No. 188 (February 1995), tables C and D, No. 194 (Sept. 1996), tables A and B; Release CB95-185 (October 5, 1995), and No. 194 (September, 1997), p. ix. *Statistical Abstract of the United States: 1995* (p. 482), *1996* (p. 474), *1997* (p. 477); and *1998* (p. 479). For 1997: U.S. Census Bureau Historical Poverty Tables-People, Table 19 <<http://www.census.gov/hhes/poverty/histpov/hstpov19.html>>.

Table 13.19-- POVERTY STATUS IN 1989, FOR THE STATE AND OAHU: 1990

[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. Data refer to to the poverty status in 1989 of families and persons surveyed in April 1990]

Subject	State total	Oahu only
All persons for whom poverty status is determined	1,071,352	803,204
Below poverty level	88,408	60,093
Persons 18 years and over	795,834	601,880
Below poverty level	56,464	39,029
Persons 65 years and over	120,952	88,602
Below poverty level	9,701	6,888
Related children under 18 years	273,746	200,310
Below poverty level	30,440	20,191
Related children under 5 years	80,522	60,206
Below poverty level	10,137	6,907
Related children 5 to 17 years	193,224	140,104
Below poverty level	20,303	13,284
Unrelated individuals	147,440	107,072
Below poverty level	29,435	20,330
All families	266,439	199,597
Below poverty level	16,053	10,733
With related children under 18 years	143,331	106,216
Below poverty level	12,760	8,423
With related children under 5 years	64,476	48,376
Below poverty level	7,213	4,895
Female householder families	35,368	26,101
Below poverty level	6,937	4,445
With related children under 18 years	21,428	14,960
Below poverty level	6,382	4,020
With related children under 5 years	8,220	5,712
Below poverty level	3,426	2,157

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**Table 13.19-- POVERTY STATUS IN 1989, FOR THE STATE AND OAHU:
1990 -- Con.**

Subject	State total	Oahu only
Percent below poverty level:		
All persons	8.3	7.5
Persons 18 years and over	7.1	6.5
Persons 65 years and over	8.0	7.8
Related children under 18 years	11.1	10.1
Related children under 5 years	12.6	11.5
Related children 5 to 17 years	10.5	9.5
Unrelated individuals	20.0	19.0
All families	6.0	5.4
With related children under 18 years	8.9	7.9
With related children under 5 years	11.2	10.1
Female householder families	19.6	17.0
With related children under 18 years	29.8	26.9
With related children under 5 years	41.7	37.8

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 3.

Table 13.20-- POVERTY INCOME GUIDELINES: 1993 TO 1999

[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]

Size of family unit	Feb. 12, 1993	Feb. 10, 1994	Feb. 9, 1995	Mar. 4, 1996	Mar. 10, 1997	Feb. 24, 1998	Mar. 19, 1999
1	8,040	8,470	8,610	8,910	9,070	9,260	9,490
2	10,860	11,320	11,550	11,920	12,200	12,480	12,730
3	13,680	14,170	14,490	14,930	15,330	15,700	15,970
4 1/	16,500	17,020	17,430	17,940	18,460	18,920	19,210
5	19,320	19,870	20,370	20,950	21,590	22,140	22,450
6	22,140	22,720	23,310	23,960	24,720	25,360	25,690
7	24,960	25,570	26,250	26,970	27,850	28,580	28,930
8	27,780	28,420	29,190	29,980	30,980	31,800	32,170
Add'n member	2,820	2,850	2,940	3,010	2/ 3,130	3,220	3,240

1/ For 1998, corresponding levels for four-person families elsewhere in the United States were \$16,450 on the Mainland and \$20,570 in Alaska. For 1999, levels were \$16,700 on the Mainland and \$20,880 in Alaska.

2/ Correction to *Data Book 1997*.

Source: U.S. Department of Health and Human Services, "Annual Update of the HHS Poverty Guidelines," *Federal Register*, February 12, 1993, February 10, 1994, February 9, 1995, March 4, 1996, March 10, 1997, February 24, 1998 and March 18, 1999. Also for 1994-1999
<http://www.access.gpo.gov/su_docs/aces/aces140.html>.

Table 13.21-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR HONOLULU: 1990-91 TO 1996-97

[Annual averages for two-year periods. No data were released for 1995-96]

Item	1990-91	1991-92	1992-93	1993-94	1994-95	1996-97
Average annual expenditures	36,394	37,273	38,997	43,214	40,999	41,992
Food	5,634	6,333	7,104	6,815	5,918	5,672
Food at home	3,163	3,455	3,889	3,899	3,292	3,493
Cereals and bakery products	451	519	582	606	504	517
Meats, poultry, fish, and eggs	875	946	1,151	1,144	882	923
Dairy products	270	278	294	294	258	304
Fruits and vegetables	611	693	781	751	629	717
Other food at home	955	1,019	1,080	1,105	1,020	1,033
Food away from home	2,471	2,878	3,215	2,916	2,626	2,179
Alcoholic beverages	470	449	503	417	440	381
Housing	11,196	11,863	12,261	14,301	14,168	13,638
Shelter	7,432	8,080	8,352	9,957	9,720	9,371
Owned dwellings	3,744	3,775	4,163	5,399	5,244	5,458
Rented dwellings	3,369	4,000	3,837	3,896	3,734	3,584
Other lodging	319	305	351	662	742	329
Utilities, fuels, and public serv.	1,272	1,448	1,673	1,835	1,837	1,975
Household operations	552	509	430	532	653	387
Housekeeping supplies	488	514	483	489	446	526
Housefurnishings and equipment	1,451	1,313	1,324	1,489	1,511	1,379
Apparel and services	1,728	2,166	2,086	1,712	1,485	2,215
Transportation	6,052	5,628	5,490	2,259	6,350	7,955
Vehicle purchases (net outlay)	2,523	2,061	1,809	2,259	2,231	3,521
Gasoline and motor oil	852	759	819	937	911	1,046
Other vehicle expenses	1,818	1,972	2,083	2,246	2,329	2,357
Public transportation	859	837	780	942	879	1,032
Health care	1,623	1,557	1,661	1,910	1,848	1,618
Entertainment	1,618	1,534	1,652	1,870	1,958	2,041
Personal care prod. and services	498	515	496	528	502	709
Reading	209	204	203	233	230	216
Education	693	573	1,043	1,428	1,117	847
Tobacco prod. and smoking sup.	181	228	282	257	227	280
Miscellaneous	1,854	1,837	1,109	1,324	1,275	964
Cash contributions	1,179	1,139	1,029	1,253	1,113	892
Personal insurance and pensions	3,459	3,245	4,078	4,781	4,368	4,564
Life and other personal insur.	581	446	424	594	546	743
Pensions and Social Security	2,878	2,799	3,654	4,187	3,822	3,821

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Table 13.21-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR HONOLULU: 1990-91 TO 1996-97--Con.

Item	1990-91	1991-92	1992-93	1993-94	1994-95	1996-97
Consumer unit characteristics:						
Number of consumer units	242,000	266,000	265,000	257,000	274,000	263,000
Income before taxes (dollars) 1/	41,499	42,156	46,404	52,064	51,847	49,255
Age of reference person	49.0	48.8	48.2	49.3	49.8	49.6
Number of persons	2.8	2.6	2.7	2.8	2.7	2.9
Number of children under 18	0.7	(NA)	(NA)	0.7	0.6	0.7
Number of persons 65 and over	0.4	(NA)	(NA)	0.4	0.4	0.3
Number of earners	1.5	1.4	1.6	1.7	1.6	1.5
Number of vehicles	1.6	1.5	1.6	1.7	1.6	1.7
Percent homeowner	49	44	47	52	51	54

NA Not available.

1/ Components of income and taxes are derived from "complete income reporters" only.

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Selected Western Metropolitan Statistical Areas: Average Annual Expenditures, Characteristics, and Sources of Income of Consumer Units* (annual) and <<http://stats.bls.gov/csxhome.htm>>.

Table 13.22-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR THE WESTERN UNITED STATES (INCLUDING HONOLULU): 1996-97

[Annual averages for two-year periods. Number in units, unless otherwise specified. Expenditures in dollars]

Item	All consumer units in the West	Los Angeles	San Francisco	San Diego	Portland	Seattle	Anchorage	Phoenix	Denver	Honolulu	Honolulu Rank 1/
Average annual expenditures	37,413	39,400	44,668	37,974	40,050	40,440	51,276	36,537	41,718	41,992	3
Food	4,998	4,952	6,174	4,666	5,035	5,241	6,782	3,954	4,918	5,672	3
Food at home	3,078	2,950	3,810	2,791	3,218	3,261	4,363	2,240	2,820	3,493	3
Cereals and bakery products	467	428	577	426	501	483	709	350	415	517	3
Meats, poultry, fish, and eggs	753	788	969	649	790	758	1,052	445	629	923	3
Dairy products	339	314	382	343	332	349	445	262	359	304	8
Fruits and vegetables	549	539	814	478	538	550	794	335	460	717	3
Other food at home	971	880	1,068	895	1,056	1,122	1,364	848	958	1,033	5
Food away from home	1,920	2,003	2,364	1,874	1,817	1,980	2,418	1,715	2,099	2,179	3
Alcoholic beverages	350	304	558	346	387	425	443	322	551	381	6
Housing	12,706	14,950	15,074	15,065	12,937	14,226	16,273	12,715	13,218	13,638	6
Shelter	7,746	9,676	9,910	9,927	7,948	8,820	9,709	7,024	8,089	9,371	5
Owned dwellings	4,632	5,500	5,785	5,772	5,302	5,969	5,591	4,275	5,332	5,458	6
Rented dwellings	2,636	3,677	3,584	3,669	2,099	2,241	3,619	2,198	2,269	3,584	5
Other lodging	478	500	541	486	547	609	499	551	488	329	9
Utilities, fuels, and public services	2,140	2,267	2,217	1,974	2,131	2,199	2,427	2,682	2,066	1,975	8
Household operations	672	907	916	1,129	729	688	774	603	687	387	9
Housekeeping supplies	522	557	491	525	413	469	484	402	544	526	3
Housefurnishings and equipment	1,625	1,543	1,540	1,510	1,716	2,051	2,879	2,003	1,831	1,379	9
Apparel and services	1,750	1,804	2,021	1,682	2,138	1,952	1,623	1,790	2,310	2,215	2
Transportation	6,815	6,926	7,301	5,893	7,409	7,712	10,459	7,044	8,138	7,955	3
Vehicle purchases (net outlay)	2,772	2,270	2,684	1,967	3,598	3,521	5,136	2,833	3,286	3,521	3
Gasoline and motor oil	1,138	1,238	1,164	1,052	1,037	1,169	1,206	1,110	1,137	1,046	8

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Table 13.22-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR THE WESTERN UNITED STATES (INCLUDING HONOLULU): 1996-97-- Con.

Item	All consumer units in the West	Los Angeles	San Francisco	San Diego	Portland	Seattle	Anchorage	Phoenix	Denver	Honolulu	Honolulu Rank 1/
Transportation - con.:											
Other vehicle expenses	2,401	2,785	2,758	2,428	2,250	2,476	2,931	2,626	3,116	2,357	8
Public transportation	504	634	695	446	524	545	1,186	476	599	1,032	2
Health care	1,706	1,528	1,808	1,747	1,926	1,557	1,738	1,833	1,743	1,618	7
Entertainment	2,029	1,811	2,219	1,950	2,029	2,308	4,725	2,181	2,365	2,041	6
Personal care prod. & services	532	623	619	629	470	531	612	590	583	709	1
Reading	175	162	236	186	221	227	274	181	200	216	5
Education	594	461	787	602	727	636	857	359	641	847	2
Tobacco prod. & smoking supplies	209	155	211	177	298	266	413	222	239	280	3
Miscellaneous	942	981	1,021	590	974	959	1,064	638	997	964	6
Cash contributions	1,017	856	1,729	822	1,588	880	1,210	919	883	892	5
Personal insurance and pensions	3,591	3,886	4,910	3,617	3,911	3,521	4,803	3,789	4,930	4,564	4
Life and other personal insurance	310	273	327	278	450	306	549	255	503	743	1
Pensions and Social Security	3,280	3,613	4,584	3,340	3,461	3,215	4,254	3,534	4,426	3,821	4
Consumer unit characteristics:											
Number of consumer units (1,000)	22,488	5,032	2,789	930	1,020	1,249	86	1,097	1,002	263	8
Income before taxes (dollars)	42,125	47,595	52,562	43,229	43,885	45,276	58,133	46,832	52,591	49,255	4
Age of reference person	46.2	46.9	45.5	47.1	49	46.5	41.1	46.1	44.9	49.6	1
No. of persons	2.6	2.9	2.6	2.6	2.4	2.5	2.6	2.5	2.5	2.9	1
No. of children under 18	0.8	0.9	0.7	0.7	0.6	0.6	0.8	0.7	0.6	0.7	3
No. of persons 65 and over	0.3	0.3	0.2	0.3	0.3	0.2	0.1	0.3	0.2	0.3	2
No. of earners	1.4	1.4	1.5	1.2	1.4	1.4	1.4	1.3	1.5	1.5	1
No. of vehicles	2	1.9	1.8	1.6	2.3	2.2	2.4	1.8	2.1	1.7	8
Percent homeowner	58	51	56	48	63	63	56	59	65	54	7

1/ Within the nine Metropolitan Statistical Areas designated for the Western United States.

Source: U.S. Dept. of Labor, Bureau of Labor Statistics, *Selected Western Metropolitan Statistical Areas: Average Annual Expenditures, Characteristics, and Sources of Income of Consumer Units 1996-97* <<http://stats.bls.gov/csxhome.htm>>.

Table 13.23-- TOP WEALTHHOLDERS: 1962 TO 1992

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts, rising from \$60,000 in 1962 to \$600,000 in 1989. 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

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; and Winter 1997-98, <http://www.irs.treas.gov/prod/tax_stats/soi/est_pw.html/95PERWEL.EXE>, April 24, 1998.

Table 13.24--TOP WEALTHHOLDERS WITH TOTAL ASSETS OF \$600,000 OR MORE AND NET WORTH UNDER \$10,000,000, 1992: TOTAL AND SELECTED ASSETS, DEBTS, AND NET WORTH, U.S. AND HAWAII

[Data are estimates based on samples. Amounts are in millions of dollars]

Category	United States	Hawaii	Hawaii as percent of U.S.
Top wealthholders: Number	3,654,920	32,280	0.9
Total assets: Amount	4,597,627	39,198	0.9
Debts: Number	3,074,310	27,840	0.9
Amount	560,088	3,543	0.6
Net worth: Number	3,654,920	32,280	0.9
Amount	4,037,539	35,655	0.9
Real estate: Number	3,327,000	31,000	0.9
Amount	1,425,542	21,396	1.5
Corporate estate stock: Number	2,778,160	21,530	0.8
Amount	1,028,498	4,544	0.4
Cash and money market accounts: Number	3,573,820	31,790	0.9
Amount	468,701	2,596	0.6
Total bonds: Number	1,950,190	15,510	0.8
Amount	516,723	1,902	0.4

Source: U. S. Department of Treasury, Internal Revenue Service, *Statistics of Income Bulletin*, Winter 1997-98, April 24, 1998, <http://www.irs.treas.gov/prod/tax_stats/soi/est_pw.html/95PERWEL.EXE>.

Table 13.25-- (NET) WORTH OF RICHEST RESIDENTS: 1994 TO 1998

Name	Residence	Age (years)	Net worth (million dollars)	Primary sources
1994				
Anthony, Barbara Cox	Honolulu	71	2,900	Inheritance (Cox Enterprises)
Campbell family	Hawaii, other locations	...	800	Real estate
Kelley family	Honolulu	...	440	Hotels
Schuler, James K.	Honolulu	56	290	Real estate
1995				
Anthony, Barbara Cox	Honolulu	72	3,000	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family	Hawaii	...	850	Real estate
Damon family	Hawaii, California	...	700	Banking, real estate
Robinson family	Kauai, Hawaii	...	500	Real estate
1996				
Anthony, Barbara Cox	Honolulu	73	4,000	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family	Hawaii	...	1,000	Land, investments
Damon family	Hawaii, California	...	750	Banking, real estate
Robinson family	Kauai, Hawaii	...	450	Real estate
1997				
Anthony, Barbara Cox 1/	Honolulu	74	5,000	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family 2/	Hawaii	...	1,100	Land, investments
1998				
Anthony, Barbara Cox 1/	Honolulu	75	7,100	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family 2/	Hawaii	...	1,700	Land, investments

1/ Sisters Barbara and Anne Cox Chambers, of Atlanta, share a fortune. It was worth more than \$10 billion in 1997, and \$14 billion in 1998 (correction to published *Data Book 1998*). They have been members of the Forbes 400 since 1982.

2/ Forbes online database sorted by state yields only Ms. Anthony for Hawaii. The Campbell Family is misidentified without a "Hometown".

Source: "The Forbes Four Hundred," *Forbes*, October 17, 1994, pp. 100-348; October 16, 1995, pp 106-368; October 14, 1996, pp. 100-356. October 13, 1997 and October 12, 1998
 <wysiwyg://9/http://www.forbes.com/tool/toolbox/rich97/index.asp>.

Section 14

PRICES

This section presents indexes of consumer prices for Honolulu and for the United States, the implicit price deflator for gross state product, and comparisons of Honolulu living costs with those in other 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. Current data for Honolulu and other cities are published in *CPI Detailed Report*, issued monthly by BLS.

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. Unofficial estimates by the Bank of Hawaii had been discontinued but were recently restored for 1982-1998. 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, was most recently published for 1996. These studies are subject to technical limitations and must be interpreted with considerable caution.

No composite wholesale or producer price index is available for Hawaii. Average wholesale prices of agricultural products are reported in *Statistics of Hawaiian 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.

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: 1998*, Section 15. Long-term trends for Hawaii are traced in *Historical Statistics of Hawaii*, Section 5.

**Table 14.01-- IMPLICIT PRICE DEFLATOR FOR EXPENDITURES ON
GROSS STATE PRODUCT: 1958 TO 1998**

[1992 = 100. Base year has been shifted from 1987=100]

Year	Deflator 1992 = 100	Percent change from year previous	Year	Deflator 1992 = 100	Percent change from year previous
1958	21.8	(NA)	1979	53.7	9.0
1959	21.7	-0.4	1980	57.0	6.2
1960	22.0	1.3	1981	59.6	4.4
1961	23.0	4.5	1982	63.9	7.2
1962	22.9	0.0	1983	66.6	4.2
1963	23.9	4.3	1984	69.1	3.7
1964	23.8	-0.5	1985	71.3	3.3
1965	24.1	1.0	1986	73.0	2.3
1966	25.0	3.8	1987	76.3	4.5
1967	26.1	4.3	1988	80.3	5.3
1968	26.9	3.4	1989	84.4	5.1
1969	28.3	5.3	1990	89.8	6.4
1970	30.2	6.7	1991	95.4	6.3
1971	31.1	2.8	1992	100.0	4.8
1972	32.4	4.1	1993	102.6	2.6
1973	34.9	7.9	1994	105.2	2.5
1974	40.3	15.2	1995	107.2	1.9
1975	40.8	1.4	1996	108.8	1.5
1976	43.1	5.7	1997	109.5	0.7
1977	45.4	5.2	1998	109.3	-0.2
1978	49.3	8.6			

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

Table 14.02-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES: 1940 TO 1998

[1982-1984 average = 100. Excludes rent before 1963]

Year	Honolulu		United States	
	Annual average	Percent change from year previous	Annual average	Percent change from year previous
1940	14.7	(NA)	14.0	(NA)
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
1978	66.9	7.7	65.2	7.6
1979	74.3	11.1	72.6	11.3

Continued on next page.

**Table 14.02-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS
(CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES:
1940 TO 1997--Con.**

Year	Honolulu		United States	
	Annual average	Percent change from previous period	Annual average	Percent change from previous period
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

NA Not available.

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. 1987-1998: U. S. Department of Labor, Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, for Honolulu, BLS FAX-on-Demand Code 9130 and 9225; for the U.S., Code 9210; and <<http://www.stats.bls.gov>> February 19, 1999.

**Table 14.03-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY
TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1998**

[1982-1984 average = 100]

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
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

Source: U.S. Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI, FAX-on-Demand Code 9225, February 19, 1999.

Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1994 TO 1998

[Unless otherwise specified, 1982-1984 average=100]

Group	1994	1995	1996	1997	1998
All items	164.5	168.1	170.7	171.9	171.5
Food and beverages	153.4	156.8	156.6	159.2	159.1
Food	153.2	157.0	156.6	159.5	159.1
Food at home	157.8	162.1	159.5	164.2	162.6
Cereals and bakery products	163.5	168.4	170.8	168.8	(NA)
Meats, poultry, fish, and eggs	137.9	136.0	135.6	137.8	(NA)
Meats, poultry, and fish	138.1	135.8	135.1	137.2	(NA)
Dairy products	132.4	133.8	139.4	144.9	(NA)
Fruits and vegetables	192.3	201.2	194.9	204.4	(NA)
Other foods at home	164.0	173.4	165.1	172.5	(NA)
Food away from home	146.4	149.2	150.8	152.6	153.3
Alcoholic beverages	155.8	152.3	156.2	155.2	158.8
Housing	171.6	174.7	176.8	177.1	176.0
Shelter	188.7	191.7	193.5	192.4	192.3
Renters' costs 1/	195.6	197.9	200.3	200.0	(NA)
Rent, residential	185.9	187.0	187.3	185.7	183.5
Other renters' costs	212.0	220.9	235.3	242.8	(NA)
Homeowners' costs 1/	194.6	197.8	199.3	197.9	(NA)
Owners' equivalent rent 1/	195.6	198.9	200.4	199.0	198.3
Fuel and other utilities	121.3	128.4	133.8	137.1	131.0
Fuels	101.9	111.6	115.9	119.8	112.2
Gas (piped) and electricity	101.1	110.8	115.2	119.1	111.8
Electricity	101.0	111.1	114.5	118.6	111.4
Utility (piped) gas	94.2	98.9	114.7	116.1	107.5
Household furnishings and operation	145.6	146.0	146.4	150.0	145.8
Apparel and upkeep	118.7	117.5	118.5	117.3	112.2
Apparel commodities	115.3	114.0	115.0	113.8	(NA)
Men's and boys' apparel	149.8	152.1	149.0	147.3	(NA)
Women's and girls' apparel	95.9	94.6	95.2	94.6	(NA)
Footwear	98.2	94.4	96.8	98.1	(NA)
Transportation	156.4	162.4	167.0	166.0	162.5
Private transportation	156.7	162.8	168.2	167.2	161.7
Motor fuel	123.1	125.5	131.9	132.0	129.3
Gasoline	126.0	128.4	134.9	135.1	132.4
Unleaded, regular	(NA)	(NA)	141.4	141.9	138.6
Unleaded midgrade 2/	(NA)	(NA)	105.9	105.3	103.6
Unleaded, premium	(NA)	(NA)	123.8	123.8	121.9
Public transportation	152.5	158.4	156.0	156.9	(NA)

Continued on next page.

Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1994 TO 1998 -- Con.

Group	1994	1995	1996	1997	1998
Medical care	206.0	209.8	215.0	217.3	226.1
Entertainment	142.3	144.2	147.8	147.9	(NA)
Education & Communication 3/	(NA)	(NA)	(NA)	(NA)	99.1
Recreation 3/	(NA)	(NA)	(NA)	(NA)	100.8
Other goods and services	209.6	216.8	226.5	239.0	256.1
Personal care	162.9	165.8	169.4	169.2	(NA)
All items	164.5	168.1	170.7	171.9	171.5
Commodities	142.9	145.1	146.3	148.3	147.5
Food and beverages	153.4	156.8	156.6	159.2	159.1
Commodities less food and beverages	134.5	135.8	138.1	139.6	138.2
Nondurables less food and beverages	138.6	139.6	142.2	143.2	142.9
Durables	128.2	130.0	131.8	134.2	131.0
Services	183.5	188.3	192.1	192.8	192.6
Medical care services	208.0	211.7	216.7	217.4	226.1
Special indexes:					
All items less shelter	155.0	158.9	161.8	164.0	163.4
All items less medical care	162.2	165.8	168.3	169.4	168.6
All items less energy	169.7	173.1	175.5	176.7	176.6
Energy	113.2	119.0	124.4	126.3	121.0
All items less food and energy	(NA)	(NA)	180.5	181.4	181.3
Commodities less food	135.5	136.6	138.9	140.3	139.1
Nondurables less food	139.8	140.3	143.0	143.9	143.9
Nondurables	146.8	149.1	150.1	152.0	151.9
Services less rent of shelter 1/	179.9	186.8	192.9	195.4	195.3
Services less medical care	181.1	186.0	189.7	190.3	189.7

NA Not available.

1/ Indexes on a December 1982=100 base.

2/ Indexes on a December 1993=100 base.

3/ Indexes on a December 1997=100 base.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly), CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI; BLS FAXSTAT 9225, August 13, 1996; and for 1995-98, BLS FAX-on Demand Codes 2265 and 9225; and <<http://stats.bls.gov/special.requests/sanfrancisco/cpihono.txt>>, February 19, 1999.

**Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), FOR
THE UNITED STATES AND HONOLULU, DECEMBER 1996 AND 1997**

[Percent of all items. 1996 based on Consumer Expenditure Survey 1982-84. 1997 based on
Consumer Expenditure Survey 1993-95]

Group	1996 CPI-U		1997 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
Relative importance of local area	100.000	0.395	100.000	0.434
EXPENDITURE CATEGORY				
All items	100.000	100.000	100.000	100.000
Food and beverages	17.484	19.416	16.310	17.944
Food	15.913	18.054	15.326	16.766
Food at home	10.040	11.825	9.646	9.476
Cereals and bakery products	1.479	1.577	1.536	(NA)
Meats, poultry, fish, and eggs	3.002	3.242	2.629	(NA)
Meats, poultry, and fish	2.797	2.997	2.499	(NA)
Dairy products	1.245	0.979	1.037	(NA)
Fruits and vegetables	1.974	3.204	1.394	(NA)
Other foods at home	2.340	2.824	1.972	(NA)
Food away from home	5.873	6.229	5.680	7.290
Alcoholic beverages	1.571	1.363	0.983	1.178
Housing	41.203	42.811	39.560	41.238
Shelter	28.194	32.096	29.788	34.086
Renters' costs	7.994	9.438	(NA)	(NA)
Rent, residential	7.961	7.846	6.885	8.929
Other renters' costs	2.263	1.592	(NA)	(NA)
Tenants' and household insurance	(NA)	(NA)	0.377	(NA)
Homeowners' costs	20.000	22.414	(NA)	(NA)
Owners' equivalent rent	19.616	22.241	20.199	22.171
Lodging away from home	(NA)	(NA)	2.327	(NA)
Fuel and other utilities	7.102	4.844	4.942	3.154
Fuels	3.878	2.385	4.018	2.303
Fuel oil, and other household fuel	0.425	0.023	0.261	(NA)
Fuel oil	0.293	0.002	0.185	(NA)
Other household fuel commodities	0.131	0.021	0.075	(NA)
Gas (piped) and electricity	3.453	2.362	3.757	2.258
Electricity	2.334	2.179	2.649	2.080
Utility (piped) gas	1.119	0.183	1.108	0.178
Water and sewer and trash collection	(NA)	(NA)	0.924	(NA)
Household furnishings and operation	5.908	5.871	4.831	3.998

Continued on next page.

**Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U),
FOR THE U.S. AND HONOLULU, DECEMBER 1996 AND 1997-- Con.**

Group	1996 CPI-U		1997 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
EXPENDITURE CATEGORY -- Con.				
Apparel and upkeep	5.330	4.149	(NA)	(NA)
Apparel commodities	4.786	3.824	4.944	3.834
Men's and boys' apparel	1.280	1.220	1.390	(NA)
Women's and girls' apparel	2.102	1.339	1.990	(NA)
Footwear	0.718	0.482	0.895	(NA)
Infants' and toddlers' apparel	(NA)	(NA)	0.268	(NA)
Jewelry and watches	(NA)	(NA)	0.401	(NA)
Transportation	17.141	16.529	17.578	14.414
Private transportation	15.499	14.817	16.240	12.138
Motor fuel	3.171	3.019	2.995	2.097
Gasoline (all types)	(NA)	(NA)	2.976	2.081
Public transportation	1.642	1.712	1.338	(NA)
Medical care	7.346	5.802	5.614	5.050
Entertainment	4.352	4.063	(NA)	(NA)
Recreation	(NA)	(NA)	6.145	6.204
Education and communication	(NA)	(NA)	5.528	7.282
Other goods and services	7.145	7.230	4.321	4.034
Personal care	1.445	1.285	3.427	(NA)
COMMODITY AND SERVICE GROUP				
All items	100.000	100.000	100.000	100.000
Commodities	42.873	39.832	42.635	38.637
Food and beverages	17.484	19.416	16.310	17.944
Commodities less food and beverages	25.389	20.416	26.326	20.692
Nondurables less food and beverages	15.147	13.013	14.729	12.043
Durables	10.242	7.403	11.596	8.649
Services	57.127	60.168	57.365	61.363
Medical care services	6.073	4.772	4.392	(NA)

Continued on next page.

**Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U),
FOR THE U.S. AND HONOLULU, DECEMBER 1996 AND 1997-- Con.**

Group	1996 CPI-U		1997 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
EXPENDITURE CATEGORY -- Con.				
Special indexes:				
All items less shelter	71.806	67.904	70.212	65.914
All items less medical care	92.654	94.198	94.386	94.950
All items less energy	92.951	94.596	92.987	95.600
All items less food and energy	77.038	76.542	77.661	78.834
Energy	7.049	5.404	7.013	4.400
Commodities less food	26.960	21.779	27.309	21.871
Nondurables less food	16.718	14.376	15.712	13.222
Nondurables	32.631	32.430	31.039	29.988
Services less rent of shelter	29.540	28.500	27.955	27.584
Rent of shelter	(NA)	(NA)	29.410	(NA)
Services less medical care services	51.054	55.396	52.973	57.413

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Relative Importance of Components in the Consumer Price Index, 1995*, Bulletin 2476, February 1996 (p. 17), for 1996, Ibid., Bulletin 2488, April 1997, (p. 18-19); for 1997, Ibid., Bulletin 2499, April 1998 (pp. 9-19); and <ftp://146.142.4.23/pub/special.requests/cpi/usri96.txt>.

**Table 14.06-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON
FAMILY ON OAHU: 1971 TO 1998**

[Hypothetical budgets for a family of specified characteristics, based on 1972-1973 expenditure patterns as updated by the consumer price index and current tax rates. The 1981 values are official estimates published by the U.S. Bureau of Labor Statistics; the 1982-97 are revised and 1998 are preliminary unofficial estimates prepared by the Bank of Hawaii, using comparable assumptions and methodology. Users of these estimates should bear in mind the limitations imposed by the underlying assumptions and methods]

Year	Dollars	Percent of urban U.S.	Year	Dollars	Percent of urban U.S.
1971	13,108	119.5	1985 1/	36,546	122.1
1972	13,617	119.0	1986 1/	38,367	123.6
1973	14,937	118.3	1987 1/	40,423	123.3
1974	17,019	118.8	1988 1/	43,710	127.9
1975	18,107	117.0	1989 1/	46,113	126.9
1976	19,036	117.2	1990 1/	51,094	132.8
1977	20,883	122.1	1991 1/	52,984	132.3
1978	23,099	124.0	1992 1/	55,526	136.2
1979	25,799	125.7	1993 1/	56,349	133.9
1980	28,488	123.2	1994 1/	56,994	131.1
1981	31,893	125.5	1995 1/	60,521	133.9
1982 1/	33,774	126.4	1996 1/	60,561	128.4
1983 1/	33,725	124.0	1997 1/	63,058	128.9
1984 1/	34,944	122.6	1998 2/	64,402	127.1

1/ Revised.

2/ Preliminary.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (USDL: 82-139, April 16, 1981); 1982-98 estimates by Paul H. Brewbaker, Bank of Hawaii, Economics Research Center, <<http://www.boh.com/econ/>>.

Table 14.07-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY ON OAHU AND AS PERCENT OF UNITED STATES: 1981 TO 1998

[Hypothetical budgets for a family of specified characteristics, based on 1972-1973 expenditure patterns as updated by the consumer price index and current tax rates. The 1981 values are official estimates published by the U.S. Bureau of Labor Statistics; the 1982-97 are revised and 1998 are preliminary unofficial estimates prepared by the Bank of Hawaii, using comparable assumptions and methodology. Users of these estimates should bear in mind the limitations imposed by the underlying assumptions and methods]

Item	Oahu (dollars)								
	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total budget	31,893	33,774	33,725	34,944	36,546	38,367	40,423	43,710	46,113
Consumption	21,530	22,798	23,472	24,448	25,278	26,124	27,481	29,131	31,140
Food	7,626	7,900	8,063	8,413	8,690	8,883	9,238	9,761	10,582
Food at home	6,649	6,846	6,958	7,260	7,492	7,653	7,962	8,425	9,233
Food away from home	977	1,054	1,105	1,154	1,199	1,230	1,276	1,336	1,349
Housing	6,493	6,905	7,026	7,346	7,622	7,945	8,476	9,140	9,842
Owner shelter costs	5,467	5,813	5,895	6,205	6,469	6,780	7,319	7,998	8,655
Renter shelter costs	3,991	4,243	4,305	4,586	4,821	5,077	5,337	5,613	6,012
Household operation	1,395	1,485	1,529	1,545	1,565	1,591	1,653	1,738	1,848
Transportation	2,421	2,504	2,484	2,603	2,654	2,661	2,775	2,937	3,134
Clothing	1,432	1,491	1,537	1,518	1,509	1,512	1,553	1,618	1,581
Personal care	590	662	682	679	700	724	759	781	823
Medical care	1,590	1,780	1,965	2,086	2,200	2,377	2,486	2,575	2,708
Other 1/	1,378	1,556	1,714	1,802	1,902	2,022	2,193	2,318	2,470
Other items 2/	1,137	1,205	1,231	1,283	1,324	1,356	1,425	1,509	1,596
Social Security payments	2,049	2,217	2,216	2,540	2,808	3,037	3,239	3,507	3,831
Personal income taxes	7,177	6,818	6,675	6,968	7,562	7,894	8,848	9,174	10,262

Item	Oahu (dollars)								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total budget	51,094	52,984	55,526	56,349	56,994	60,521	60,561	63,058	64,402
Consumption	33,767	36,165	37,801	38,974	39,129	40,832	41,016	41,369	41,807
Food	11,594	12,203	12,404	12,660	12,676	13,028	12,660	12,883	13,109
Food at home	10,181	10,728	10,883	11,093	11,051	11,381	10,995	11,199	11,416
Food away from home	1,413	1,475	1,521	1,567	1,625	1,647	1,665	1,685	1,692
Housing	10,605	11,485	12,159	12,452	12,022	13,054	13,185	13,098	12,940
Owner shelter costs	9,416	10,266	10,887	11,069	10,682	11,590	11,678	11,596	11,620
Renter shelter costs	6,628	7,320	7,764	7,982	7,257	8,296	8,397	8,066	7,693
Household operation	1,885	1,956	2,052	2,155	2,196	2,287	2,327	2,384	2,302
Transportation	3,317	3,524	3,729	3,807	3,903	4,108	4,225	4,204	4,111
Clothing	1,621	1,674	1,731	1,765	1,818	1,781	1,796	1,777	1,700
Personal care	921	976	1,034	1,069	1,096	1,118	1,142	1,141	1,223
Medical care	2,997	3,330	3,549	3,837	4,022	4,078	4,179	4,224	4,395
Other 1/	2,712	2,972	3,196	3,383	3,591	3,666	3,830	4,041	4,330
Other items 2/	1,712	1,835	1,923	1,985	2,042	2,084	2,117	2,131	2,126
Social Security payments	4,094	4,228	4,367	4,478	4,837	5,280	5,516	5,800	6,100
Personal income taxes	10,355	10,850	10,798	11,166	11,742	12,136	13,268	14,241	15,285

Continued on next page.

Table 14.07-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON

FAMILY ON OAHU AND AS PERCENT OF UNITED STATES: 1981 TO 1998 --Con.

Item	Oahu as percent of urban U.S.								
	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total budget	125.5	126.4	124.0	122.6	122.1	123.6	123.3	127.9	126.9
Consumption	118.0	118.2	117.7	117.6	117.3	117.4	118.4	120.0	121.9
Food	130.5	130.3	130.9	131.6	133.4	132.3	132.0	133.9	136.7
Food at home	136.6	136.0	136.8	137.6	140.0	139.0	138.7	140.9	144.9
Food away from home	100.0	102.5	102.9	103.1	103.0	101.7	101.5	102.0	98.5
Housing	117.1	116.8	115.9	116.4	115.2	114.7	117.6	121.6	126.2
Owner shelter costs	111.9	111.4	110.2	110.8	109.6	108.8	112.3	116.9	120.8
Renter shelter costs	146.1	144.3	142.2	143.7	142.1	141.7	141.7	142.9	153.1
Household operation	116.3	117.5	118.3	117.6	116.9	117.3	119.7	123.7	128.3
Transportation	102.1	101.4	98.3	98.6	97.9	102.2	103.4	106.1	107.9
Clothing	107.4	109.0	109.6	106.3	102.7	102.0	100.3	100.2	95.2
Personal care	116.1	121.8	119.4	114.3	113.4	113.8	116.1	115.1	115.9
Medical care	110.2	110.5	112.2	112.2	111.4	111.9	109.8	106.7	104.2
Other 1/	115.2	118.0	117.2	115.4	114.8	115.0	117.9	116.9	115.5
Other items 2/	111.4	111.2	110.1	110.0	109.6	110.2	111.7	113.6	114.6
Social Security payments	120.3	120.2	120.2	122.3	123.7	124.7	125.5	126.4	127.4
Personal income taxes	161.5	151.7	155.5	156.3	154.1	154.0	154.8	157.8	160.6

Item	Oahu as percent of urban U.S.								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total budget	132.8	132.3	136.2	133.9	131.1	133.9	128.4	128.9	127.1
Consumption	124.8	128.3	130.1	130.0	126.9	128.5	125.3	123.2	121.9
Food	141.0	144.4	145.4	145.1	141.5	141.1	132.5	131.5	131.1
Food at home	150.0	154.0	155.1	154.4	149.5	149.1	138.9	138.1	138.1
Food away from home	98.5	99.5	100.6	101.8	103.8	102.8	101.4	99.8	97.7
Housing	129.9	135.8	139.6	139.0	130.5	137.8	135.1	130.5	125.7
Owner shelter costs	124.8	130.9	134.3	132.4	123.7	129.8	126.8	122.1	118.5
Renter shelter costs	162.1	174.0	180.3	181.3	160.8	179.4	176.7	164.6	152.1
Household operation	127.4	128.5	132.2	136.0	136.8	140.8	140.0	141.1	137.2
Transportation	108.1	111.8	115.8	114.7	114.1	116.0	116.0	114.4	114.0
Clothing	93.4	93.0	93.7	94.3	97.4	96.4	97.4	95.6	91.3
Personal care	124.3	127.4	131.6	133.0	133.5	133.8	134.0	131.5	137.3
Medical care	105.7	108.0	107.2	109.4	109.5	106.2	105.2	103.4	104.3
Other 1/	117.8	119.6	120.4	121.1	125.0	122.4	122.8	124.2	125.8
Other items 2/	116.6	120.0	122.0	122.3	122.7	121.8	120.1	118.2	116.1
Social Security payments	128.1	128.4	128.7	128.9	129.6	130.3	130.7	131.1	131.4
Personal income taxes	154.1	162.7	159.7	156.0	155.8	150.0	150.1	148.2	146.4

1/ Family consumption including reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous.

2/ Includes gifts and contributions, life insurance, and occupational expenses.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (USDL: 82-139, April 16, 1981); 1982-98 estimates by Paul H. Brewbaker, Bank of Hawaii, Economics Research Center, <<http://www.boh.com/econ/>>.

**Table 14.08-- GOODS AND SERVICES INDEXES FOR SELECTED
METROPOLITAN AREAS: 1998**

[Standard City, an average cost hypothetical location=100. Based on a survey of 150 items.
Data include 10 categories: food-at-home, food-away-from-home, tobacco, alcohol, household furnishings and operations, clothing, domestic service, medical care, personal care, and recreation. Data exclude housing, transportation, and personal income taxes]

Expensive Locations	Index	Inexpensive Locations	Index
New York, NY (Manhattan only)	131.9	Billings, MT	91.0
Honolulu, HI	116.2	Janesville, WI	91.6
Washington, D.C.	112.5	Fayetteville, NC	92.1
San Francisco, CA	110.0	Manchester, NH	92.9
San Jose, CA	109.8	Greenwood, SC	93.1
Chicago, IL	109.3	Amarillo, TX	93.8
Boston, MA	109.1	Eugene, OR	93.8
Philadelphia, PA	108.0	Erie, PA	94.0
Los Angeles, CA	107.5	Martinsville, VA	94.1
Buffalo, NY	107.5	Hobbs, NM	94.1

Source: Runzheimer International, <<http://www.runzheimer.com/corpc/news/scripts/101298.asp>>
posted on October 12, 1998.

**Table 14.09-- AVERAGE APARTMENT RENTAL COSTS PER YEAR
IN SELECTED CITIES IN THE UNITED STATES: 1999**

[Standard City, an average cost hypothetical location of \$6,480 and 100.0. The annual values shown are based on a three-room, one-bedroom, one-bath apartment rental unit. Rental units are typically located in suburban communities surrounding the city and are based on an analysis of approximately 300 cities.

Location	Annual rent	Index	Location	Annual rent	Index
San Francisco, CA	13,100	202.2	Baltimore, MD	7,350	113.4
Honolulu, HI	12,100	187.0	Denver, CO	6,900	107.9
Boston, MA	10,900	168.2	Tampa, FL	6,420	99.1
New York City, NY	10,580	163.3	Greenville, NC	6,300	97.2
Washington, D.C.	10,320	159.3	Baton Rouge, LA	5,940	91.7
Chicago, IL	8,520	131.5	Tucson, AZ	5,580	86.1
Los Angeles, CA	8,460	130.6	Dubuque, IA	4,860	75.0

Source: Runzheimer International, <<http://www.runzheimer.com/corpc/news/scripts/062199.asp>> dated June 21, 1999.

Table 14.10-- FAST FOOD PRICES AND INDEXES FOR SELECTED METROPOLITAN AREAS: 1998-99

[Prices are in U.S. dollars. New York, NY is 100.0. Based on a national and international surveys of prices of a 1/4 pound cheesburger, large fries, and medium soft drink. Sales taxes are not included for U.S. locations but are included for international locations. International prices are based on March 1999 foreign exchange rates]

U.S. Locations	Price	Index	International Locations	Price	Index
New York, NY	5.68	100.0	Copenhagen, Denmark	8.81	155.1
Honolulu, HI	5.16	90.8	Geneva, Switzerland	8.53	150.2
Washington, D.C.	4.97	87.5	Jerusalem, Israel	8.40	147.9
San Francisco, CA	4.83	85.0	Brussels, Belgium	6.49	114.3
Boston, MA	4.82	84.9	London, England	6.29	110.7
Seattle, WA	4.82	84.9	Tokyo, Japan	6.00	105.6
Phoenix, AZ	4.71	82.9	Amsterdam, Netherlands	5.88	103.5
St. Louis, MO	4.49	79.0	Frankfurt, Germany	5.87	103.3
Atlanta, GA	4.48	78.9	Lagos, Nigeria	5.70	100.4
Boise, ID	4.44	78.2	New York, NY, USA	5.68	100.0
Los Angeles, CA	4.37	76.9	Rome, Italy	5.50	96.8
Chicago, IL	4.36	76.8	Madrid, Spain	5.18	91.2
Miami, FL	4.30	75.7	Paris, France	5.00	88.0
Denver, CO	4.28	75.4	Athens, Greece	4.80	84.5
Dallas, TX	4.27	75.2	Toronto, Canada	4.42	77.8
Memphis, TN	4.20	73.9	Mexico City, Mexico	4.29	75.5
			Sydney, Australia	4.13	72.7
			Rio de Janeiro, Brazil	3.50	61.6
			Lisbon, Portugal	3.38	59.5
			Hong Kong	2.79	49.1
			Warsaw, Poland	2.69	47.4

Source: Runzheimer International, <<http://www.runzheimer.com/corpc/news/scripts/01259.asp>> dated January 25, 1999 and <<http://www.runzheimer.com/corpc/news/scripts/061499.asp>> dated June 14, 1999.

**Table 14.11-- INDEXES OF COST OF LIVING FOR SELECTED
MAJOR CITIES WORLDWIDE: 1995 TO 1999**

[Index number Honolulu=100. March 1999 are Advance figures]

City	General index of mean prices				
	March 1995	Sept. 1995	March 1996	Sept. 1997	March 1999
Honolulu	100	100	100	100	100
Beijing/Peking	120	125	125	124	125
Chicago	106	108	(NA)	(NA)	(NA)
Hong Kong	139	144	147	150	151
Los Angeles	104	106	106	(NA)	108
Manila	78	81	83	70	61
New York	116	118	120	(NA)	119
Paris	(NA)	(NA)	(NA)	134	(NA)
San Francisco	105	106	(NA)	(NA)	(NA)
Seoul	139	144	137	125	109
Shanghai	(NA)	(NA)	125	123	122
Singapore	141	140	(NA)	133	119
Sydney	109	113	121	113	99
Taipei	142	(NA)	138	132	118
Tokyo	259	232	202	183	177
Vancouver	97	102	101	100	90
Washington, D.C.	(NA)	(NA)	104	103	104

NA Not available.

Source: Economic Intelligence Unit, *Worldwide Cost of Living Survey*, report for Hawaii State Department of Business, Economic Development & Tourism, March 1995, 1996, 1999 Advance; and September 1995 and 1997.

**Table 14.12-- COST OF LIVING FOR FOREIGNERS
IN SELECTED MAJOR CITIES WORLDWIDE: AUTUMN 1998**

[Rank of 1 indicates most expensive city. Based on a survey of 150 cities. Data include categories as housing, food, clothing, utilities, transportation, and entertainment. New York City=100.0]

Rank	Foreign City	Index	Rank	U.S. City	Index
1	Tokyo	165.5	16	New York City	100.0
2	Hong Kong	153.3	50	Chicago	85.6
3	Beijing	152.1	51	Miami	85.5
4	Osaka	144.4	52	San Francisco	85.3
5	Shanghai	140.3	54	Los Angeles	84.6
6	Moscow	128.3	55	Honolulu	84.4
7	Guangzhou	121.2	61	Houston	80.3
8	London	112.4	62	Washington D.C.	80.1
9	Shenzhen	109.1	64	Boston	79.9
10	Seoul	107.9	79	St. Louis	75.2
11	Geneva	107.5	82	Denver	74.4
12	Zurich	107.4	92	Seattle	70.7
13	Singapore	106.0	94	Atlanta	70.3
14	St. Petersburg	101.8	103	Winston Salem, NC	67.2
15	Taipei	100.1	107	Portland	66.1

Source: Mercer USA Center: Corporate Resource Group
<http://www.wmmercer.com/usa/english/resource/resource_news_topic48a>, posted March 16, 1999.

**Table 14.13-- PAY DIFFERENTIALS AND COST OF LIVING INDEXES FOR
FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.,
BY COUNTY: 1997 TO 1999**

Effective Date	Allowance category	Honolulu	Hawaii	Maui	Kauai
	ALLOWANCE RATES				
March 25, 1997	All employees 1/	22.5	15.0	22.5	22.5
December 2, 1997	All employees 1/	22.5	15.0	22.5	22.5
October 21, 1998	All employees 2/	25.0	15.0	22.5	22.5
	INDEXES				
March 25, 1997	Cost of Living Index 3/	121.95	4/ 111.89	121.36	4/ 121.36

1/ Interim Rule issued on March 25 and Final Rule issued on December 2, 1997.

2/ As Final Rule on October 21 and as corrected on November 13, 1998.

3/ 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.

4/ Correction to Table 14.10 in *Data Book 1997*.

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); and Vol. 63, No. 219, November 13, 1998 (p. 63385).

**Table 14.14-- COST OF LIVING ALLOWANCE INDEXES FOR MILITARY IN
HAWAII RELATIVE TO CONTINENTAL UNITED STATES, BY ISLAND**

[Index number continental United States=100]

Effective Date	Locality	Locality Code 1/	Index
September 1, 1998	Hawaii, Kilauea Military Camp	HI004	128
September 1, 1998	Hawaii, Other	HI001	128
September 1, 1998	Kauai	HI003	128
September 1, 1998	Oahu	HI009	116
March 1, 1999	Maui	HI005	134
March 1, 1999	Molokai	HI007	134

1/ Assigned by the Department of Defense to identify each area entitled to COLA. Search of the website indicated below in "Source" requires the "Locality Code" be entered.

Source: U.S. Department of Defense, Per Diem, Travel and Transportation Committee, Overseas Cost-of-Living Program <<http://www.dtic.mil/perdiem/allowcol.html>> accessed July 22, 1999.

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, Dun and Bradstreet, Inc., local health insurance plans, the Hawaii Credit Union League, the *1992 Census of Financial, Insurance, and Real Estate Industries*, and the annual report on *County Business Patterns* issued by the U.S. Bureau of the Census. *Historical Statistics of Hawaii*, Sections 22 and 23, provides information for earlier periods. Comparable national data appear in Sections 16 and 17 of the *Statistical Abstract of the United States: 1998*.

**Table 15.01-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES:
1988 TO 1998**

[Includes main offices, but excludes out-of-State branches of Hawaii-based institutions.
As of December 31]

Type of charter, island, and year	Banks		Savings and loan associations		Trust companies		Financial services loan companies	
	Firms	Locations	Associations	Locations	Firms	Locations	Firms	Locations
1988	10	182	7	158	4	7	54	185
1989	10	188	7	152	3	6	52	192
1990	10	190	6	146	4	7	46	186
1991	10	188	6	135	4	6	45	187
1992	8	181	6	142	4	6	42	185
1993	8	179	6	146	4	7	66	160
1994	7	184	6	154	1	3	41	155
1995	6	190	6	159	1	3	40	164
1996	6	191	6	161	1	3	42	167
1997	6	191	4	121	-	-	40	157
1998	6	191	3	97	-	-	38	126
TYPE OF CHARTER: 1998								
Federal	1	14	1	68	-	-	-	-
State	5	177	2	29	-	-	38	126
ISLANDS: 1998								
Hawaii	5	26	2	9	-	-	9	17
Maui	5	22	3	10	-	-	9	12
Lanai	2	2	-	-	-	-	-	-
Molokai	1	1	1	1	-	-	1	1
Oahu	6	125	3	70	-	-	34	88
Kauai	3	15	2	7	-	-	7	8
Niihau	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

**Table 15.02-- FINANCE, INSURANCE, AND REAL ESTATE
ESTABLISHMENTS WITH PAYROLL AND EMPLOYMENT: 1996**

SIC code	Major group	Establish- ments	Employment, March 12
	Total	3,860	38,228
60	Depository institutions	597	12,104
602	Commercial banks	294	7,944
603	Savings institutions	136	2,264
606	Credit unions	132	1,346
61	Nondepository institutions	231	1,673
62	Security and commodity brokers	111	868
63	Insurance carriers	152	4,075
64	Insurance agents, brokers and service	354	2,839
65	Real estate	2,263	15,299
67	Holding and other investment offices	142	1,187
-	Administrative and auxiliary	10	183

Source: U.S. Bureau of the Census, *County Business Patterns 1996, Hawaii*, CBP/96-13 (November 1998), p. 10.

Table 15.03-- CHARACTERISTICS OF FINANCIAL, INSURANCE, AND REAL ESTATE INDUSTRIES: 1992

SIC code	Kind of business	Establishments	Revenue (mil. dol.)	Annual payroll (mil. dol.)	Paid employees 1/
60	Depository institutions	575	2,503	349	12,512
61	Nondepository credit institutions	219	292	65	1,573
62	Security and commodity brokers, dealers, exchanges, and services	82	92	38	611
63	Insurance carriers	138	2,363	135	4,477
64	Insurance agents, brokers, and services	375	216	80	2,663
65	Real estate	2,452	1,842	352	14,911
67	Holding and other investment offices 2/	114	774	24	453

1/ Pay period including March 12.

2/ Data exclude SIC 673, trusts.

Source: U.S. Bureau of the Census, *1992 Census of Financial, Insurance, and Real Estate Industries, Summary*, FC92-A-1 (March 1995), table 1.

**Table 15.04-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS:
1986 TO 1996**

[In millions of dollars. As of December 31]

Year	Deposits 1/			Debits to bank demand deposits 2/	Loans 1/	
	All financial institutions	Bank demand deposits 2/			All financial institutions	Banks 2/
		Private	Other			
1986	14,268.6	1,947.5	7,860.2	109,927.9	9,347.9	6,195.8
1987	16,496.3	1,864.2	8,878.9	121,926.3	12,569.4	7,019.8
1988	18,756.2	2,006.0	10,175.3	130,612.3	15,156.5	8,466.4
1989	21,586.3	2,290.7	12,319.6	172,698.3	17,300.3	9,874.5
1990	23,829.2	2,443.2	13,874.8	217,639.4	19,565.5	11,826.9
1991	24,118.6	2,438.9	13,751.6	239,886.5	20,774.5	13,005.9
1992	23,816.0	2,548.2	12,794.2	(NA)	21,026.7	13,660.2
1993	22,619.1	2,653.0	11,667.0	(NA)	22,489.7	13,826.5
1994	22,377.1	2,414.8	11,557.1	(NA)	25,269.3	14,661.8
1995	23,062.5	2,562.4	11,815.3	(NA)	27,110.7	13,526.7
1996	23,062.5	2,562.4	11,815.3	(NA)	27,110.7	13,526.7

NA Not available.

1/ Revised.

2/ Interbank and public demand deposits included in "other." Out-of-State branches of Hawaii banks are included.

Source: Bank of Hawaii, *Hawaii 1998* (1998), p. 39.

Table 15.05-- CHARACTERISTICS OF STATE-CHARTERED FINANCIAL INSTITUTIONS, BY TYPES: 1996 TO 1998

[Includes out-of-State branches and facilities. As of December 31]

Subject	1996	1997	1998
BANKS			
Number of banks	5	5	5
Number of branches and facilities	205	197	201
Assets (million dollars)	20,697.0	21,468.4	23,244.6
Deposits (million dollars)	14,032.8	14,541.4	16,037.8
SAVINGS AND LOAN ASSOCIATIONS			
Number of associations	2	2	2
Number of branches and facilities	24	25	27
Assets (million dollars)	972.7	1,051.4	1,088.1
Withdrawable shares (million dollars)	654.0	730.5	798.2
TRUST COMPANIES			
Number of companies	1	-	-
Number of branches and facilities	3	-	-
Assets (million dollars)	75.5	-	-
FINANCIAL SERVICES LOAN COMPANIES			
Number of companies	42	40	38
Number of branches	129	125	99
Assets (million dollars)	3,628.7	3,372.2	2,622.6

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, *Comparative Statements of Condition* (semi-annual); Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

**Table 15.06-- CHARACTERISTICS OF BANKS HEADQUARTERED IN HAWAII:
DECEMBER 31, 1998**

[Includes their out-of-State branches and facilities. Excludes data for banks with branches and facilities in Hawaii but headquartered outside Hawaii. Covers 12 banks with 8,265 employees]

Subject	Million dollars	Subject	Percent of loans
ASSETS AND LIABILITIES		ASSET QUALITY OF LARGE COMMERCIAL BANKS	
Assets	24,155		
Foreign 1/	3,521	Loan loss reserve	1.88
Domestic 2/	20,634	Net chargeoffs	0.53
Loans	16,557	Past due and non-accrual	2.78
Foreign 1/	2,670	Real estate	3.00
Domestic 2/	13,887	Commercial	2.39
Investment securities	4,806	Consumer	3.60
Liabilities	22,131	Agricultural	0.73
Deposits	16,603		
Foreign 1/	3,100		
Domestic 2/	13,503		
Other borrowings	3,217		
Equity capital	2,024		
Loan loss reserve	313		
Unused commitments	10,144		

1/ The assets, loans or deposits of the offices of the banks in foreign countries.

2/ The assets, loans or deposits of the bank offices within the United States.

Source: Federal Reserve Bank of San Francisco, records.

**Table 15.06-- CHARACTERISTICS OF BANKS HEADQUARTERED IN HAWAII:
DECEMBER 31, 1999**

[Includes their out-of-State branches and facilities. Excludes data for banks with branches and facilities in Hawaii but headquartered outside Hawaii. Covers 10 banks with 7,605 employees]

Subject	Million dollars	Subject	Percent of loans
ASSETS AND LIABILITIES		ASSET QUALITY OF LARGE COMMERCIAL BANKS	
Assets	23,568	Loan loss reserve	1.81
Foreign 1/	3,308	Net chargeoffs	1.25
Domestic 2/	20,260	Past due and non-accrual	2.71
Loans	16,215	Real estate	3.06
Foreign 1/	2,451	Commercial	2.67
Domestic 2/	13,763	Consumer	2.80
Investment securities	4,694	Agricultural	0.37
Liabilities	21,487		
Deposits	16,803		
Foreign 1/	3,144		
Domestic 2/	13,659		
Other borrowings	2,331		
Equity capital	2,081		
Loan loss reserve	295		
Unused commitments	10,124		

1/ The assets, loans or deposits of the offices of the banks in foreign countries.

2/ The assets, loans or deposits of the bank offices within the United States.

Source: Federal Reserve Bank of San Francisco, records.

Table 15.07-- CREDIT UNIONS: 1993 TO 1998

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1993	121	3,521,731,577	3,145,679,650	549,808
1994	116	3,462,241,524	3,049,504,597	556,969
1995	116	3,443,396,724	2,999,651,425	558,874
1996	113	3,474,986,063	2,994,177,447	561,207
1997	113	3,590,818,327	3,079,347,098	569,682
1998	110	3,792,499,223	3,268,297,338	578,229

Source: Hawaii Credit Union League, records.

**Table 15.08-- INSURANCE BUSINESS TRANSACTED IN HAWAII:
1992 TO 1997**

[Includes data for all insurance companies, life or other, licensed in Hawaii]

Year	Number of companies licensed, Dec. 31	Premiums paid (\$1,000)	Losses, claims and benefits paid (\$1,000)	Cumulative net investments in Hawaii Dec. 31 1/ (\$1,000)
1992	835	1,984,304	1,901,549	3,380,087
1993	863	2,103,143	1,761,801	4,263,248
1994	899	2,219,018	1,169,001	4,127,866
1995	2/ 922	2,307,514	1,274,272	3,592,679
1996	935	2/ 2,195,345	2/ 1,306,135	3,107,183
1997	942	2,082,792	1,335,507	4,548,573

1/ Excludes bank balances.

2/ Revised.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii* (annual).

**Table 15.09-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII:
1992 TO 1997**

[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 2/ (\$1,000)	Losses, claims, and benefits paid 2/ (\$1,000)
1992	468	5,181,487	48,994,610	382,367	285,158
1993	468	3/ 9,044,931	3/ 51,739,074	401,726	330,975
1994	486	3/ 9,448,181	3/ 56,757,181	418,684	188,704
1995	486	3/ 7,844,654	3/ 56,572,022	504,683	457,824
1996	490	3/ 8,851,486	3/ 58,303,390	463,876	558,922
1997	483	3/ 8,136,599	3/ 61,707,533	497,357	668,174

1/ Includes insurance revived, increased, or transferred.

2/ Excludes annuities.

3/ Data not audited.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii* (annual), and records.

Table 15.10-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1997

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	2,082,791,674	1,335,507,342
Life 1/ Fraternal	493,015,665 4,341,831	664,422,000 3,752,443
Fire, marine, casualty, and miscellaneous:		
Accident and health	179,958,087	88,066,535
Fire	36,096,826	3,251,574
Allied lines	17,327,915	2,390,324
Multiple peril crop	802,882	159,957
Federal flood	10,587,065	950,701
Farmowners multiple peril	87,217	247,543
Homeowners multiple peril	125,719,470	23,222,101
Commercial multiple peril (fire & allied lines)	60,341,775	10,325,572
Commercial multiple peril (liability portion)	51,620,924	15,759,823
Mortgage guaranty	13,155,399	3,925,428
Ocean marine	6,694,591	5,122,245
Inland marine	19,748,398	4,361,755
Financial guaranty	3,072,963	-
Medical malpractice	19,246,668	14,150,696
Earthquake	1,343,681	-
Workers' compensation	182,312,433	128,342,479
Other liability	91,324,549	41,623,525
Products liability	8,430,181	4,234,680
Private passenger auto no-fault	128,211,663	64,853,060
Other private passenger auto liability	279,617,918	120,252,738
Commercial auto no-fault	6,114,268	5,011,948
Other commercial auto liability	59,617,780	31,491,390
Private passenger auto physical damage	131,861,174	65,662,483
Commercial auto physical damage	16,488,717	7,487,816
Aircraft	10,398,206	4,445,175
Fidelity	4,666,665	852,186
Surety	17,042,012	9,934,575
Burglary and theft	225,251	-44,759
Boiler and machinery	2,918,255	611,710
Credit	2,305,181	1,011,253
Title	25,656,510	3,031,621
All other	3,781,893	5,173,689
Surplus lines	68,657,661	1,423,076

1/ Excludes annuities.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1998*, p. 8.

**Table 15.11-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY
LOCATION OF HOME OFFICE: 1997**

[Money amounts in millions of dollars. For all insurance companies licensed to do business in Hawaii]

Subject	All companies	Domestic com- panies 1/	Foreign com- panies 2/	Alien com- panies 3/ (U.S. business only)
Number of companies, Dec. 31	942	21	909	12
Life incl. Fraternal Benefit Societies	483	5	472	6
Other than life	459	16	437	6
Financial condition, Dec. 31:				
Assets	3,091,181.0	1,421.0	3,067,872.8	21,887.2
Liabilities exc. capital and surplus	2,685,670.7	966.8	2,666,260.9	18,443.0
Policyholders' surplus incl. capital	405,510.3	454.2	401,611.9	3,444.3
Capital	6,500.3	50.9	6,449.4	-
Net gain or loss	51,723.0	58.4	51,318.7	345.9
Hawaii business:				
Direct premiums written	2,294.6	462.9	1,790.3	41.4
Claims and benefits paid	1,538.6	230.8	1,281.9	25.9
Investments in Hawaii, Dec. 31	4,548.6	171.3	4,376.8	0.5
Mortgage loans (principal indebtedness)	645.9	113.6	532.2	-
Collateral loans (amount loaned)	7.4	6.1	1.4	-
State and county bonds 4/	1,365.2	10.6	1,354.6	-
Utilities stocks and bonds 4/	455.5	-	455.5	-
Industrial and misc. stocks and bonds 4/	1,967.5	25.6	1,941.5	0.5
Real estate 5/	107.1	15.5	91.6	-
Balances in Hawaii banks	250.3	18.3	231.5	0.5

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/ Market value.

5/ Market value less encumbrances.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1998*, pp. 15-49.

Table 15.12-- HEALTH PLANS: 1995 TO 1998

Subject	1995	1996	1997	1998
Hawaii Medical Service Association: 1/ Persons covered, Dec. 31 2/ Membership dues 3/ (\$1,000)	749,600 1,209,241	639,400 1,090,943	614,461 1,147,735	600,100 1,038,656
Queen's Health Plans 4/ Persons covered, Dec. 31 2/ Membership dues 3/ (\$1,000)	13,393 21,513	33,734 62,892	41,541 66,310	45,465 65,297
Kaiser Foundation Health Plan: Persons covered: 2/ Annual average Dec. 31 Membership dues 3/ (\$1,000)	185,643 186,066 286,370	191,956 195,607 297,738	203,696 209,756 313,272	210,265 210,502 324,196
Commercial carrier premiums for accident and health insurance (\$1,000)	163,023	178,331	179,958	(NA)

NA Not available.

1/ Includes both Straub Health Plan and Pacific Healthcare.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Includes both employers' and employees' contributions.

4/ Includes Queen's Island Care, Queen's Hawaii Care and Queen's Preferred Plan. Figures for 1995 are for Queen's Island Care only. Queen's Hawaii Care began in August 1994 and Queen's Preferred Plan began in March 1997.

Source: Data provided by Hawaii Medical Service Association, Queen's Health Plans, and Kaiser Foundation Health Plan, Inc.; Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner* (annual).

**Table 15.13-- PERCENT OF PERSONS NOT COVERED BY HEALTH
INSURANCE: 1993 TO 1997**

[This survey does not adequately reflect health insurance coverage through State-specific plans,
such as Hawaii's, because the same questions are used for every State]

Subject	1993	1994	1995	1996	1997
Percent not covered 1/	11.1	9.2	8.9	8.6	7.5
Standard error	1.2	1.1	1.1	1.2	0.7
Rank 2/	7	4	5	2	1

1/ The 1997 U.S. percentage was 16.1.

2/ Among 50 states, with lowest percentage ranking 1.

Source: U.S. Bureau of the Census, Release CB94-159 (October 6, 1994); Release CB95-185 (October 5, 1995); "Health Insurance Coverage: 1995," *Current Population Reports, Household Economic Studies*, P60-195 (Sept. 1996), table 1; table F at <http://www.census.gov/hhes/hlthins/cover96/c96tabf.html>; and table 8 at <http://www.census.gov/hhes/hlthins/hlthin97/hi97t8.html>.

Table 15.14-- AVERAGE EXPENDITURES AND PREMIUMS FOR PERSONAL AUTOMOBILE INSURANCE, FOR THE UNITED STATES AND HAWAII: 1993 TO 1997

Year	Average expenditures 1/			Combined average premiums 2/		
	United States (dollars)	Hawaii		United States (dollars)	Hawaii	
		Average (dollars)	Rank 3/		Average (dollars)	Rank 3/
1993	4/ 637.11	953.08	2	4/ 731.19	1,078.32	2
1994	4/ 650.73	961.59	2	4/ 741.99	1,090.32	2
1995	4/ 668.26	963.08	2	4/ 759.34	1,094.02	2
1996	691.23	958.69	4	780.12	1,092.57	4
1997	705.87	912.36	4	798.08	1,033.76	4

1/ Total written premiums for all coverages divided by the liability written car years. Assumes that all insured vehicles carry liability coverage but do not necessarily carry collision and/or comprehensive coverage.

2/ Average premiums for each of the major coverages (liability, comprehensive, and collision) added together to estimate the representative average premium for an insured vehicle carrying all coverages.

3/ Among 50 States and D.C., highest combined average premium ranked 1.

4/ Revised.

Source: National Association of Insurance Commissioners, *State Average Expenditures & Premiums for Personal Automobile Insurance in 1997* (March 1999), tables 2 and 3.

**Table 15.15-- FIRES, DEATHS, AND LOSSES REPORTED BY COUNTY
FIRE DEPARTMENTS: 1994 TO 1998**

[Years ended June 30]

Subject and year	State total	Honolulu	Hawaii	Kauai	Maui
Number of fires:					
1994	5,823	4,478	555	318	472
1995	4,919	3,409	597	316	597
1996	4,134	2,818	561	194	561
1997	3,721	2,623	463	144	491
1998	4,448	2,980	608	247	613
Fire deaths:					
1994	-	-	-	-	-
1995	4	-	4	-	-
1996	9	3	5	1	-
1997	12	11	-	-	1
1998	13	12	-	1	-
Fire losses (\$1,000):					
1994	17,279	10,488	2,527	1,210	3,054
1995	29,502	18,665	6,424	1,315	3,098
1996	23,613	14,993	4,311	1,622	2,687
1997	26,646	17,333	4,918	1/ 587	3,808
1998	24,727	13,252	6,447	1/ 1,080	3,948

1/ Fire losses includes investigated structural fires only. No estimated loss available for non-structural fires or structural fires that were not investigated.

Source: Compiled by Hawaii State Department of Business, Economic Development & Tourism from Honolulu Fire Department, Hawaii County Fire Department, Kauai Fire Department, and Maui County Department of Fire Control.

**Table 15.16-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS:
1986 TO 1996**

[Data refer to establishments with taxable payrolls. Coverage excludes government and self-employed workers]

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	
1986	345,167	1,382,381	5,790,531	26,212	14,070	5,474	
1987	363,491	1,506,971	6,304,798	27,281	14,508	5,705	
1988	382,943	1,710,738	7,242,782	27,938	14,570	5,971	
1989	410,745	1,924,365	8,253,134	28,443	14,736	6,006	
1990	432,663	2,157,724	9,296,865	29,313	15,243	6,064	
1991	442,743	2,341,662	9,893,345	29,736	15,082	6,392	
1992	449,173	2,490,029	10,470,074	30,467	15,567	6,479	
1993	435,907	2,480,288	10,552,017	30,157	15,456	6,383	
1994	425,987	2,538,482	10,551,036	29,995	15,548	6,326	
1995	423,822	2,611,193	10,695,990	29,942	15,599	6,305	
1996	424,116	2,666,805	10,954,149	29,967	15,785	6,257	
	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
1986	3,306	2,128	784	331	68	33	18
1987	3,515	2,246	804	388	62	34	19
1988	3,684	2,379	814	386	77	36	21
1989	3,805	2,443	874	427	86	40	26
1990	3,881	2,619	878	467	93	41	27
1991	4,000	2,715	924	452	100	45	26
1992	4,135	2,737	932	441	99	51	26
1993	4,113	2,704	907	428	99	40	27
1994	4,088	2,602	876	389	94	47	25
1995	4,064	2,515	895	394	102	45	23
1996	3,930	2,561	856	412	99	42	25

1/ For week including March 12.

2/ Data refer to establishments active anytime during the year.

Source: U.S. Bureau of the Census, *County Business Patterns* (annual).

**Table 15.17-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
COUNTIES: 1995 AND 1996**

[Excludes government employees and self-employed persons]

Year and county	Number of establishments 1/	Number of employees 2/	Payroll (\$1,000)	
			First quarter	Annual
1995				
State total	29,942	423,822	2,611,193	10,695,990
Hawaii	3,649	37,217	194,117	796,388
Honolulu	21,004	322,339	2,074,582	8,496,193
Kauai	1,649	10,000-24,999	(D)	(D)
Maui	3,639	46,141	250,131	1,024,023
Statewide	1	0-19	(D)	(D)
1996				
State total	29,967	424,116	2,666,805	10,954,149
Hawaii	3,675	38,671	204,593	849,792
Honolulu	20,986	319,923	2,103,577	8,628,926
Kauai	1,597	10,000-24,999	(D)	(D)
Maui	3,708	47,650	264,491	1,091,083
Statewide	1	20-99	(D)	(D)

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.

Source: U.S. Bureau of the Census, *County Business Patterns 1996, Hawaii*, CBP/96-13 (November 1998), p. 19, table 1e.

**Table 15.18-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
MAJOR INDUSTRY GROUP: 1996**

[Excludes government and self-employed workers. Based on 1987 Standard Industrial Classification Manual and thus not comparable to 1987 and earlier data reported in previous editions, which were based on the 1972 SIC Manual]

Major industry group	Number of establishments 1/	Number of employees 2/	Annual payroll (\$1,000)
Total	29,967	424,116	10,954,149
Agricultural services, forestry, fishing	342	2,714	59,591
Mining	7	194	7,942
Construction	2,416	22,792	911,576
Manufacturing 3/	966	16,661	485,225
Food and kindred products	220	6,431	158,685
Apparel and other textile products	145	1,709	31,857
Printing and publishing	187	3,128	106,029
Transportation and public utilities	1,602	41,610	1,392,727
Wholesale trade	2,216	21,827	663,590
Retail trade 3/	7,973	112,777	1,850,491
Food stores	878	14,322	245,150
Eating and drinking places	2,704	46,980	583,044
Finance, insurance, real estate	3,860	38,228	1,231,963
Services 3/	10,486	167,152	4,349,217
Hotels and other lodging places	282	37,298	864,233
Health services	2,413	37,791	1,369,000
Unclassified establishments	99	161	1,827

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

3/ Includes subgroups not shown separately.

Source: U.S. Bureau of the Census, *County Business Patterns 1996, Hawaii*, CBP/96-13 (November 1998), table 1a, pp. 1-2.

Table 15.19-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1995 AND 1996

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments		Number of employees		Annual payroll (\$1,000)	
	1995	1996	1995	1996	1995	1996
Total	29,942	29,967	423,822	424,116	10,695,990	10,954,149
1 to 4	15,599	15,785	28,555	28,536	817,009	832,974
5 to 9	6,305	6,257	41,706	41,237	952,014	976,910
10 to 19	4,064	3,930	54,856	52,852	1,270,206	1,232,241
20 to 49	2,515	2,561	76,176	77,583	1,780,888	1,881,240
50 to 99	895	856	60,295	58,256	1,447,578	1,426,850
100 to 249	394	412	57,732	61,921	1,553,812	1,626,005
250 to 499	102	99	34,550	34,162	845,454	864,487
500 to 999	45	42	31,969	29,976	869,320	838,837
1,000 or more	1/ 23	2/ 25	37,983	39,593	1,159,709	1,274,605

1/ 1,000-1,499 employees, 13 establishments; 1,500-2,499 employees, 8 establishments; 2,500-4,999 employees, 2 establishments.

2/ 1,000-1,499 employees, 17 establishments; 1,500-2,499 employees, 6 establishments; 2,500-4,999 employees, 2 establishments.

Source: U.S. Bureau of the Census, *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), pp. 3, 14, and 18, and *County Business Patterns 1996, Hawaii*, CBP/96-13 (November 1998), pp. 3, 14, and 18.

**Table 15.20-- CHARACTERISTICS OF BUSINESS AND PROFESSIONAL
FIRMS, BY COUNTIES: 1997**

Characteristic	State total	Honolulu	Maui	Kauai	Hawaii
All businesses	40,906	27,570	5,913	2,535	4,888
Business type, total 1/	22,849	15,681	3,046	1,440	2,687
Corporation	16,841	11,671	2,346	923	1,906
Partnership	874	588	106	73	107
Proprietorship	5,134	3,422	594	444	674
Employees, total 1/	19,625	14,408	2,059	1,142	2,020
1 to 4	10,074	7,136	1,116	697	1,126
5 to 9	3,896	2,909	402	196	392
10 to 19	2,434	1,846	245	109	234
20 to 49	1,833	1,405	169	83	176
50 to 99	727	576	68	33	50
100 to 199	346	284	30	11	21
200 to 499	185	142	17	10	16
500 to 999	64	49	9	2	4
1,000 and over	66	61	3	1	1
Sales volume, total 1/	14,695	11,022	1,384	784	1,509
Under \$500,000	9,207	6,790	804	528	1,089
\$500,000 to \$999,999	2,096	1,582	209	109	196
\$1.0 to \$4.9 million	2,129	1,631	247	104	147
\$5.0 to \$9.9 million	452	346	58	14	34
\$10.0 to \$24.9 million	365	296	35	18	16
\$25.0 million and over	446	377	31	11	27
Year established, total 1/	21,893	16,390	2,120	1,166	2,220
1821 to 1849	25	14	3	2	6
1850 to 1899	156	106	16	12	22
1900 to 1949	1,327	956	113	73	185
1950 to 1959	1,278	1,031	83	54	110
1960 to 1969	2,637	2,110	209	98	220
1970 to 1979	5,969	4,411	676	259	623
1980 to 1989	7,759	5,688	710	522	841
1990 and later	2,742	2,074	310	146	213

1/ Distributions exclude non-responding firms and those for which item (typically sales volume) was not applicable.

Source: CD Systems Corp., *Hawaii Business Directory 1997* (June 1997), pp. ix, xi, xxxiii.

**Table 15.21-- REGISTERED CORPORATIONS AND PARTNERSHIPS:
1995 TO 1998**

[Excludes eleemosynary corporations]

Subject	1995	1996	1997	1998
Domestic (Hawaii) corporations:				
Formed 1/	3,746	3,860	3,331	2,938
Dissolved or merged 2/	2,665	2,734	2,744	2,957
On record, June 30 3/	36,384	37,488	38,185	38,231
Foreign (non-Hawaii) corporations:				
Qualified 1/	815	830	939	905
Withdrawn, merged, or cancelled 2/	344	366	370	429
On record, June 30 3/	6,814	7,033	7,452	7,731
Partnerships:				
Registered 1/	1,402	1,432	1,141	900
Dissolved or cancelled 2/	1,179	1,149	1,126	1,044
On record, June 30 3/	8,245	8,379	8,342	8,177
Domestic (Hawaii) Limited Liability Companies: 4/				
Formed 1/	-	-	143	1,076
Dissolved or merged 2/	-	-	-	2
On record, June 30 3/	-	-	143	1,216
Foreign (non-Hawaii) Limited Liability Companies: 4/				
Qualified 1/	-	-	32	184
Withdrawn or merged 2/	-	-	-	5
On record, June 30 3/	-	-	32	233
Domestic (Hawaii) Limited Liability Partnerships: 4/				
Formed 1/	-	-	8	31
Dissolved or merged 2/	-	-	-	1
On record, June 30 3/	-	-	8	44
Foreign (non-Hawaii) Limited Liability Partnerships: 4/				
Qualified 1/	-	-	-	8
Withdrawn or cancelled 2/	-	-	-	-
On record, June 30 3/	-	-	-	10

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

3/ Number on record may be inconsistent with data on components of change, reflecting inaccuracy in manual tabulation.

4/ The Limited Liability Company Act and the Hawaii Limited Liability Partnership Act were signed into law effective April 1, 1997. For 1997, data covered the period April 1 to June 30, 1997.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Div., records.

**Table 15.22-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS,
AND PROPRIETORSHIPS: 1989, 1992 AND 1995**

[Money amounts in millions of dollars]

Subject	1989	1992 1/	1995
CORPORATIONS 2/			
Number of corporations	20,776	23,777	25,293
Taxable	9,969	9,724	9,757
Nontaxable	10,807	13,322	15,536
Business receipts	33,383	40,541	44,799
Taxable corporations	20,435	21,963	24,506
Nontaxable corporations	12,948	18,578	20,293
Taxable income, excluding net losses 3/	1,614	1,370	1,255
PARTNERSHIPS			
Number of partnerships	6,274	5,855	5,474
With net profit	3,853	3,279	3,128
With net loss	2,421	2,252	2,346
Number of partners	219,388	193,063	155,343
Business receipts	4,090	6,306	5,729
Businesses with net profit	3,273	4,656	4,463
Businesses with net loss	817	1,650	1,266
Net profit reported	1,426	1,134	1,187
Net loss reported	579	1,156	800
PROPRIETORSHIPS			
Number of proprietorships	65,561	75,054	78,676
With net profit	49,716	51,260	55,233
With net loss	15,845	20,127	22,807
Business receipts	2,078	2,397	2,708
Businesses with net profit	1,858	2,071	2,387
Businesses with net loss	221	532	321
Net profit reported	635	660	751
Net loss reported	60	96	115

1/ Data for items other than total numbers of corporations, partnerships, and proprietorships exclude Kauai County.

2/ Includes domestic, foreign, and small business corporations.

3/ Includes taxable income reported by small business corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Corporation, Proprietorship, Partnership* (biennial), and records.

Table 15.23-- LARGEST PUBLIC AND PRIVATE COMPANIES: 1997

[Data may include sales and employment on the Mainland or abroad]

Rank in sales	Company 1/	Year founded 2/	Sales (million dollars)	Employees
1	Hawaiian Electric Industries Inc.	1891/1983	1,464	3,672
2	Alexander & Baldwin Inc.	1870/1900	1,275	2,930
3	Pacific Century Financial Corp. 3/	1897/1971	1,250	5,114
4	Hawaii Medical Service Assn. (HMSA)	1938	1,148	1,600
5	Tesoro Hawaii Corp. 4/	1904	907	750
6	First Hawaiian Inc.	1858/1974	691	3,000
7	GTE Hawaiian Tel	1883	642	2,863
8	DFS Hawaii	1962	600	1,350
9	Kyo-ya Co. Ltd.	1961	550	4,349
10	The Queen's Health Systems	1859/1985	499	3,937

1/ Dole Food Co. Inc. is no longer included in this listing because Hawaii-based earnings are not available and the company's activities in Hawaii have become minimal.

2/ If two years or more are given, the first is the founding date of the original company, the second is when it became a holding company, was sold, or legally changed its name.

3/ Previously ranked as Bancorp Hawaii Inc.

4/ Previously ranked as BHP Hawaii Inc.

Source: "Hawaii Business Top 250," *Hawaii Business*, August 1998, p. 82.

**Table 15.24-- NET INCOME OR LOSS AND TOTAL REVENUES OF
SELECTED COMPANIES: 1996 AND 1997**

[Based on 1997 ranks for reporting companies]

Company	Net income or loss (\$1,000)		Sales (\$1,000,000)	
	1996	1997	1996	1997
Largest net incomes:				
Pacific Century Financial Corp. 1/	133,124	139,490	1,153.1	1,250.4
Hawaiian Electric Industries Inc.	78,658	86,442	1,410.6	1,464.0
First Hawaiian Inc.	80,296	84,261	676.5	691.0
Largest net losses:				
Hawaiian Airlines, Inc.	(1,533)	(1,022)	384.4	404.2

1/ Previously ranked as Bancorp Hawaii Inc.

Source: "Hawaii Business Top 250," *Hawaii Business*, August 1998, p. 57.

**Table 15.25-- ULTIMATE PARENT COMPANIES HEADQUARTERED IN
HAWAII: 1995**

Category and name 1/	Ultimate parent companies 2/	Subsidiaries 3/			
		Total	In Hawaii	U.S. Mainland	Abroad
Total	64	307	270	25	12
With subsidiaries outside Hawaii	16	108	71	25	12
Alexander & Baldwin	1	27	14	7	6
Bancorporation Hawaii	1	18	15	1	2
Cutter Management Co. Inc.	1	11	10	1	-
With subsidiaries in Hawaii only	48	199	199	-	-

1/ Shown separately for ultimate parent companies with 10 or more subsidiaries.

2/ An ultimate parent company is the topmost U.S. company within the hierarchal structure of an entire organization meeting all of the following criteria: (1) two or more business locations; (2) 250 or more employees at that location, or \$25,000,000 or more in sales volume, or a tangible net worth greater than \$500,000; (3) controlling interest in one or more subsidiary companies.

3/ All subsidiaries in the hierarchy of an ultimate parent.

Source: Dun & Bradstreet, Inc, *America's Corporate Families 1995*, Vol. I, II, III.

Table 15.26-- BUSINESS CLIMATE INDEXES: 1994 TO 1998

Index	1994	1995	1996	1997		1998	
				Index	Rank	Index	Rank
Economic performance	A	A	B	C	23	F	48
Business vitality	F	F	F	F	48	F	50
Development capacity	B	B	C	B	20	B	18

Source: The Corporation for Enterprise Development, *The 1998 Development Report Card for the States* (12th ed., 1998), pp. 15, 17, 19.

Table 15.27-- MINORITY-OWNED BUSINESS ENTERPRISES: 1987 AND 1992

[Firms are classified as minority-owned if the sole owner or at least half of the partners or shareholders are members of specified minority groups]

Year and characteristics	All firms 1/	Firms owned by minorities 2/		
		Black-owned	Hispanic-owned 3/	Owned by Asians and others 4/
1987				
All firms:				
Number	60,928	399	1,226	31,406
Sales and receipts (\$1,000)	6,522,000	12,310	58,098	1,662,269
1992				
All firms:				
Number	79,050	717	3,192	38,392
Sales and receipts (\$1,000)	10,724,000	27,382	187,717	4,766,788
Firms with paid employees:				
Number	10,420	42	277	5,301
Sales and receipts (\$1,000)	8,806,000	16,794	131,663	3,804,639
Employees	99,280	211	2,357	42,461
Annual payroll (\$1,000)	1,799	2,513	39,300	724,331

1/ Whether or not owned by minorities.

2/ Persons of mixed race were instructed to report the race they most closely identified with. Whites (Caucasians), although only 33.4 percent of the 1990 population of Hawaii, were treated as a non-minority group for census purposes.

3/ Persons of Hispanic origin may be members of any race.

4/ Asians, Pacific Islanders (including Hawaiians), American Indians, and Alaska Natives. State detail for individual races is not available. For the United States as a whole, Hawaiians owned 11,587 firms with gross receipts of \$1,058,332,000.

Source: U.S. Bureau of the Census, *1992 Economic Census, Survey of Minority-Owned Business Enterprises, Black*, MB92-1 (Jan. 1996), tables 2 and 11; *Hispanic*, MB92-2 (June 1994), tables 3 and 14; *Asians and Pacific Islanders, American Indians, and Alaska Natives*, MB92-3 (July 1996), tables A, 2, and 11; DBED, *Data Book 1991*, table 442.

Table 15.28-- WOMEN-OWNED BUSINESSES: 1987 AND 1992

Subject	Total firms	Women-owned firms 1/	Percent women-owned 1/
1987			
All firms:			
Number	60,928	21,696	35.6
Sales and receipts 2/	6,522	856,930	13.1
1992			
All firms:			
Number	79,050	29,743	37.6
Sales and receipts 2/	10,724	2,574,800	24.0
Firms with paid employees:			
Number	10,420	3,089	29.6
Sales and receipts 2/	8,806	2,044,345	23.2
Employees	99,280	25,937	26.1
Annual payroll 2/	1,799	421,866	23.5

1/ A firm is classified as women-owned if the sole proprietor or at least half of the partners or shareholders were women.

2/ Dollar amounts in millions for total firms and thousands for women-owned firms.

Source: U.S. Bureau of the Census, *1992 Economic Census, WB92-1, Women-Owned Businesses* (Jan. 1996), tables 2 and 11; DBED, *Data Book 1993-94*, table 15.26.

Table 15.29-- BUSINESS FAILURES, BY INDUSTRY SECTOR: 1994 TO 1997

Industry sector	1994	1995	1996 1/	1997 2/
Firms, all sectors	258	270	395	630
Agriculture, forestry, fishing	6	7	17	24
Mining	-	-	-	-
Construction	25	34	41	54
Manufacturing	8	14	7	12
Transportation, public utilities	19	7	32	42
Wholesale trade	14	23	15	17
Retail trade	44	59	80	125
Finance, insurance, real estate	13	18	30	42
Services	53	103	168	306
Unclassifiable	76	5	5	8

1/ Revised.

2/ Preliminary.

Source: The Dun & Bradstreet Corporation, *Business Failure Record* (annual).

Section 16

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the Postal Service and of various 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 communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, Hawaii State Department of Commerce and Consumer Affairs, GTE Hawaiian Telephone Company, Audit Bureau of Circulations, and the Nielsen Station Index. 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: 1998*, Section 18.

Table 16.01-- COMMUNICATION AND RELATED ESTABLISHMENTS: 1996

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
27	Printing and publishing	187	482	Telegraph & other	2
271	Newspapers	25	483	Radio, TV broadcast	52
272	Periodicals	30	484	Cable, other pay TV	17
273	Books	12	489	Commun. services, n.e.c.	8
274	Miscell. publishing	13	5942	Book stores	66
48	Communication	219	731	Advertising	76
481	Telephone	136	7311	Advertising agencies	51

n.e.c. Not elsewhere classified.

Source: U.S. Bureau of the Census, *County Business Patterns 1996, Hawaii*, CBP-96-13 (November 1998), table 1b.

**Table 16.02-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS:
SEPTEMBER 12, 1998**

Island	Total	Cost Ascertainment Group (CAG) 1/				Stations	
		A-G 2/	H-J 3/	K 4/	L 5/	Classified 6/	Contract 7/
State total	130	35	25	12	-	35	23
Hawaii	33	9	11	5	-	2	6
Maui	12	9	1	-	-	2	0
Lanai	1	-	1	-	-	-	-
Molokai	5	1	-	4	-	-	-
Oahu	59	12	4	1	-	28	14
Kauai	20	4	8	2	-	3	3
Niihau 8/	-	-	-	-	-	-	-

1/ Changes in CAG assignments are made at the beginning of the Postal fiscal year (September to August). 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/ Formerly called First-class offices.

3/ Formerly called Second-class offices.

4/ Formerly called Third-class offices.

5/ Formerly called Fourth-class offices.

6/ Staffed by career postal employees.

7/ Operated under a contractual agreement between the Postal Service and an individual contractor.

8/ Niihau is served by the Makaweli Post Office on Kauai.

Source: U.S. Postal Service, Honolulu District, records.

Table 16.03-- POSTAL SERVICE: 1993 TO 1998

[Years ended September 30]

Subject	1993	1994	1995	1996	1997	1998
Post offices, September 30	72	72	72	72	72	72
Stations, September 30 1/	73	73	73	61	59	58
Gross postal receipts (\$1,000)	161,493	163,493	171,867	172,686	172,714	171,816
Pieces of mail 2/ (millions)	504	518	539	530	549	556

1/ Includes both classified and contract stations (see preceding table).

2/ Originating in Hawaii.

Source: U.S. Postal Service, Honolulu District, records.

**Table 16.04-- TELEPHONE ACCESS LINES, BY ISLANDS AND TYPE:
1992 TO 1998**

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Year	Switched access lines	By island		By type	
		Oahu	Other islands	Residence	Business
1992	628,222	455,143	173,079	417,595	210,627
1993	648,444	467,858	180,586	429,652	218,792
1994	666,233	477,888	188,345	439,104	227,129
1995	684,820	490,685	194,135	447,188	237,632
1996	705,302	502,745	202,557	454,574	250,728
1997	719,787	509,336	210,451	461,430	258,357
1998	731,519	512,607	218,912	468,218	263,301

Source: GTE Hawaiian Telephone Company, records.

**Table 16.05-- TELEPHONE ACCESS LINES AND NON-LIST AND
NON-PUBLISHED NUMBERS IN SERVICE: 1995 TO 1998**

[Data include both residence and business telephone numbers]

Category	1995	1996 1/	1997	1998
Access lines	684,826	705,302	719,787	731,519
Non-list and non-published	219,964	229,851	235,818	238,160
Non-list 2/	2,433	2,381	2,236	2,056
Non-published 3/	217,531	227,470	233,582	236,104

1/ Revised.

2/ Numbers that are not published in the telephone directory but are available via directory assistance.

3/ Numbers that are not published in the telephone directory and are not available via directory assistance.

Source: GTE Hawaiian Telephone Company, records.

Table 16.06-- HAWAIIAN TELEPHONE COMPANY OPERATIONS: 1994 TO 1998

Subject	1994	1995	1996	1997	1998
Operating revenues (\$1,000)	604,211	611,760	634,921	642,357	671,300
Operating expenses (\$1,000)	525,373	520,115	518,142	502,275	523,700
Net income (\$1,000)	29,799	-225,518	54,701	60,998	72,900
Net investment in property, plant, and equipment (\$1,000)	1,205,827	809,445	822,473	845,352	854,200
Total assets (\$1,000)	1,527,249	1,154,815	1,200,985	1,306,113	1,328,400
Access lines 1/ 2/	748,330	782,456	826,619	861,079	919,683
Number of employees 1/	3,315	3,043	2,911	2,897	2,980

1/ Includes Micronesian Telecommunications Corporation.

2/ Revised.

Source: GTE Hawaiian Telephone Company, records.

**Table 16.07-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED
TYPES OF SERVICE, FOR HONOLULU: 1990 TO 1995**

[In dollars. As of July 1. Including state and federal excise taxes where applicable]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California 3/		Monthly charge, indiv. resident line 4/
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1990	0.25	0.98	2.00	0.78	3.50	20.31
1991	0.25	1.35	2.00	0.75	2.50	20.28
1992	0.25	0.94	2.00	0.75	2.58	20.27
1993	0.25	0.94	2.14	0.75	2.80	21.37
1994	0.25	0.94	2.14	(NA)	(NA)	22.19
1995	0.25	0.85	2.05	0.84	4.04	22.86

NA Not available.

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ AT&T Communications, Inc., rates quoted for Honolulu to California calls.

4/ Includes for 1995 basic phone rate (\$14.40), standard desk phone (\$3.95), interstate subscriber charge (\$3.50), TRS (Telephone Relay Service) charge (\$0.09), 911 surcharge (\$0.28), and federal, PUC, and state taxes (\$0.64).

Source: GTE Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

Table 16.08-- CELLULAR TELEPHONE COMPANY REVENUES, BY ISLANDS: 1988 TO 1998

Calendar year	Number of companies	Revenues (\$1,000)				
		Total	Hawaii	Maui	Oahu	Kauai
1988	2	12,314	-	-	12,314	-
1989	2	21,758	-	-	21,758	-
1990	4	38,732	150	-	38,475	107
1991	4	48,742	1,734	1,653	44,179	1,176
1992	4	62,127	3,184	2,199	54,031	2,713
1993	5	76,420	4,618	3,470	63,596	4,736
1994	5	95,334	6,712	6,237	77,914	4,471
1995	5	109,746	(NA)	(NA)	(NA)	(NA)
1996	7	123,314	(NA)	(NA)	(NA)	(NA)
1997	8	130,945	(NA)	(NA)	(NA)	(NA)
1998	10	1/ (NA)	(NA)	(NA)	(NA)	(NA)

NA Not available, because on certain islands there are only two companies that provide cellular telephone service.

1/ Several companies have filed extension requests until July 31, 1999.

Source: Hawaii State Public Utilities Commission, records.

**Table 16.09-- PERCENT OF HOUSEHOLDS WITH A TELEPHONE,
COMPUTER, AND INTERNET USE: 1997 AND 1998**

Year	Telephone		Computer		Internet use	
	U.S.	Hawaii	U.S.	Hawaii	U.S.	Hawaii
1997	93.8	94.1	36.6	34.6	18.6	(NA)
1998	94.1	93.2	42.1	42.3	26.2	27.9

NA Not available.

Source: National Telecommunications and Information Administration, *Falling Through the Net: Defining the Digital Divide*, July 8, 1999 and *Falling Through the Net II: New Data on the Digital Divide*, July 1998; <http://www.ntia.doc.gov/ntiahome/digitaldivide>.

Table 16.10-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1996 TO 1998

County	Number of companies Dec. 31 1/			Subscribers Dec. 31 2/			Basic service revenue (\$1,000)		
	1996	1997	1998	1996	1997	1998	1996	1997	1998
State total	4	3	4	340,950	340,438	345,631	77,285	85,099	93,735
Hawaii	2	2	2	32,876	32,926	34,459	9,068	9,486	10,674
Maui	2	2	3	35,507	35,937	37,057	9,706	10,200	11,797
Honolulu	2	2	2	252,261	254,167	256,436	53,627	60,045	65,650
Kauai	2	1	1	20,306	17,408	17,679	4,884	5,369	5,615

1/ State totals are unduplicated figures; one company provided service to three counties.

2/ Hawaiian Cablevision has redefined multiunit as expressed by Federal rules.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

**Table 16.11-- RADIO AND TELEVISION BROADCASTING STATIONS IN
OPERATION, 1930 TO 1997 AND BY COUNTIES, 1996 AND 1997**

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV 1/	AM	FM	TV 1/
1930: Jan. 1	1	-	-	-	-	-
1945: Jan. 1	4	-	-	-	-	-
1960: Jan. 1	17	1	7	-	2	-
1975: Jan. 1	26	5	10	-	1	2
1990: June 30	28	21	19	-	3	2
1994: June 30	29	29	20	1	3	2
1995: June 30	29	33	20	1	3	2
1996: June 30	28	37	21	1	3	2
1997: June 30	28	36	20	1	5	2
COUNTIES: 1996						
Hawaii	5	11	6	-	-	-
Maui	4	8	5	-	1	1
Honolulu 2/	17	15	10	1	2	1
Kauai	2	3	-	-	-	-
COUNTIES: 1997						
Hawaii	5	11	6	-	-	-
Maui	4	9	5	-	1	1
Honolulu 2/	17	14	9	1	3	1
Kauai	2	2	-	-	1	-

1/ Includes satellites but excludes translators and cable television.

2/ Includes one commercial AM station with studio on Oahu but transmitter on Molokai.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), p. 482; Broadcasting and R.R. Vowker Publications, *Broadcasting & Cable Yearbook 1997*; Federal Communications Commission, records.

**Table 16.12-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA:
1997 AND 1998**

Subject	January 1997			January 1998		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	393,600	286,300	107,300	394,400	(NA)	(NA)
With television	382,700	279,830	102,870	381,820	277,410	104,410
Percent	97.2	97.7	95.9	96.8	(NA)	(NA)

NA Not available.

Source: *Nielsen Station Index, Honolulu, Hawaii.*

**Table 16.13-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY
TIME OF DAY: 1995 TO 1998**

[In thousands. Mean number of viewers, Sunday through Saturday]

Year and month	Sign-on to sign-off 7 A.M. to 1 A.M.		Prime time 6:30 P.M. to 10 P.M.	
	Households 1/	Persons 2/	Households 1/	Persons 2/
1995: Feb.	170	331	107	187
May	139	276	82	143
Nov.	158	299	112	188
1996: Feb.	155	288	102	177
May	130	244	75	123
Nov.	146	277	84	133
1997: Feb.	159	299	101	177
May	142	255	78	122
Nov.	133	220	77	110
1998: Feb.	131	242	69	110
May	145	264	80	132
Nov.	130	220	74	110

1/ Average number with a TV set turned on.

2/ Average number of persons, 2 years and older, in TV households that are viewing any station.

Source: *Nielsen Station Index, Honolulu, Hawaii*, Daypart Summary, issued three times annually.

**Table 16.14-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY
ENGLISH-LANGUAGE NEWSPAPERS: 1994-95 TO 1997-98**

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the *Hawaii Hochi*, Japanese and English; and *United Chinese Press*, Chinese]

Newspaper	1994-95	1995-96	1996-97	1997-98
Daily:				
The Honolulu Advertiser 1/	105,793	105,984	104,960	104,233
Honolulu Star-Bulletin 2/	79,796	76,198	71,418	69,188
Hawaii Tribune-Herald (Hilo) 3/	19,773	19,362	19,079	(NA)
West Hawaii Today (Kailua-Kona) 3/	11,832	11,560	11,334	10,938
Maui News (Wailuku) 4/	18,816	18,379	17,702	17,142
Garden Island (Lihue) 4/	7,874	7,860	7,551	8,352
Sunday morning:				
The Honolulu Advertiser	195,166	193,318	190,475	190,349
Hawaii Tribune-Herald (Hilo)	23,049	23,005	22,894	(NA)
West Hawaii Today (Kailua-Kona)	13,621	13,516	13,668	13,981
Maui News (Wailuku)	23,441	23,860	23,992	24,098
Garden Island (Lihue)	7,981	8,017	7,750	9,293

NA Not available.

1/ Mornings, Monday through Saturday.

2/ Afternoons, Monday through Saturday.

3/ Mornings, Monday through Friday.

4/ Afternoons, Monday through Friday.

Source: Data provided by newspaper publishers to Hawaii State Department of Business, Economic Development & Tourism.

**Table 16.15-- POSTAGE RATES AND NEWSPAPER PRICES, FOR
HONOLULU: 1988 TO 1998**

[In cents. As of July 1]

Year	Domestic first-class postage rates			Newspaper price 1/	
	Letters		Postal and post cards	Daily	Sunday
	First ounce	Each added ounce			
1988	25	20	15	35	125
1989	25	20	15	35	125
1990	25	20	15	35	125
1991	29	23	19	35	125
1992	29	23	19	35	150
1993	29	23	19	50	150
1994	29	23	19	50	150
1995	32	23	20	50	150
1996	32	23	20	50	175
1997	32	23	20	50	175
1998	32	23	20	50	175

1/ Street sales, for *The Honolulu Advertiser* (daily, 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).

Source: Postal rates from *Statistical Abstract of the United States, 1998*, p. 584, as updated by the U.S. Postal Service, Customer Information. Newspaper rates from Hawaii Newspaper Agency.

**Table 16.16-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE
UNIVERSITY OF HAWAII PRESS: 1989 TO 1997**

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		
1989	918	701	50	9	402,606	2,222,341
1990	971	703	53	13	422,266	2,591,790
1991	1,024	705	53	12	365,790	2,721,480
1992	1,072	717	48	12	350,274	2,611,388
1993	1,123	738	51	12	354,063	2,859,494
1994	1,183	772	60	13	378,807	2,960,051
1995	1,257	790	74	13	385,673	3,014,268
1996	1,323	823	54	12	374,168	2,896,316
1997	1,402	833	65	12	322,378	3,182,690

1/ As of June 30. Excludes journals.

2/ Includes books and other media, but not journals.

3/ Year ended June 30.

Source: The University of Hawaii Press, *Annual Report* (annual) 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, Division of Consumer Advocacy; Hawaii State Department of Business, Economic Development & Tourism, Energy 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: 1998*, Sections 19 and 20.

**Table 17.01-- CONSUMPTION OF ENERGY, BY SOURCE
(PHYSICAL UNITS): 1960 TO 1996**

Year	Petroleum 1/ (1,000 barrels)	Hydroelectric power 2/ (million kWh)	Biomass 3/ (million kWh)	Coal (1,000 short tons)	Natural gas 4/ (billion cubic feet)	Other 5/ (million kWh)
1960	16,864	27	0	0	0	0
1965	22,507	105	0	0	0	0
1970	34,129	108	24	0	0	0
1975	37,056	89	25	0	0	0
1980	43,505	86	0	0	3	0
1981	38,721	80	15	0	3	0
1982	35,637	90	26	47	3	0
1983	36,297	84	28	42	3	0
1984	37,252	82	28	38	2	21
1985	6/ 40,005	86	25	46	2	19
1986	38,931	78	0	16	2	18
1987	6/ 39,688	82	0	63	3	13
1988	6/ 46,122	81	0	50	3	16
1989	6/ 47,944	89	11	32	3	14
1990	6/ 48,655	7/ (NA)	7/ (NA)	28	3	7/ (NA)
1991	6/ 45,499	(NA)	(NA)	37	3	(NA)
1992	6/ 44,365	(NA)	(NA)	47	3	(NA)
1993	6/ 38,791	(NA)	(NA)	73	3	(NA)
1994	6/ 41,361	(NA)	(NA)	86	3	(NA)
1995	40,902	(NA)	(NA)	6/ 192	3	(NA)
1996	38,769	(NA)	(NA)	169	3	(NA)

NA Not available.

1/ For data by type of petroleum, see source.

2/ Through 1989, includes all net imports of electricity; from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

3/ Includes wood, waste, and ethanol.

4/ Includes supplemental gaseous fuels.

5/ Includes geothermal, wind, photovoltaic, and solar thermal energy.

6/ Revised.

7/ Discontinuity between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1996, Consumption Estimates* (February 1999), p. 95.

**Table 17.02-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU):
1960 TO 1996**

Year	Total	Petro- leum 1/	Hydro- electric power 2/	Biomass 3/	Coal	Natural gas 4/	Other 5/
1960	95.0	94.7	0.3	0.0	0.0	0.0	0.0
1965	130.6	129.5	1.1	0.0	0.0	0.0	0.0
1970	196.9	195.5	1.1	0.3	0.0	0.0	0.0
1975	213.9	212.7	0.9	0.3	0.0	0.0	0.0
1980	253.2	249.3	0.9	0.0	0.0	3.0	0.0
1981	226.4	222.6	0.8	0.2	0.0	2.8	0.0
1982	208.5	203.3	0.9	0.3	1.1	2.8	0.0
1983	210.3	205.4	0.9	0.3	1.0	2.7	0.0
1984	220.8	215.8	0.9	0.3	0.9	2.4	0.4
1985	237.4	232.1	0.9	0.3	1.1	2.7	0.4
1986	231.2	226.9	0.8	0.0	0.4	2.7	0.4
1987	6/ 236.1	6/ 230.6	0.9	0.0	1.6	2.8	0.3
1988	6/ 274.5	269.3	0.8	0.0	1.2	2.8	0.3
1989	6/ 284.7	279.6	0.9	0.1	0.8	2.9	0.3
1990	6/ 7/ 298.0	6/ 284.0	7/ 0.6	7/ 8.8	0.7	3.0	7/ 0.9
1991	278.6	264.9	0.5	8.2	0.9	2.9	1.2
1992	272.3	258.3	0.6	8.1	1.2	2.9	1.2
1993	241.5	223.8	0.6	8.0	1.8	2.8	4.5
1994	6/ 256.5	237.2	1.5	7.9	1.8	2.9	5.2
1995	6/ 256.3	234.8	1.0	7.1	6/ 4.1	2.9	6.3
1996	242.0	221.4	1.1	6.5	3.6	2.8	6.6

1/ For data by type of petroleum, see source.

2/ Through 1989, includes all net imports of electricity; from 1990, includes only the portion of imports of electricity that is derived from hydroelectric power.

3/ Includes wood, waste and ethanol.

4/ Includes supplemental gaseous fuels.

5/ Includes geothermal, wind, photovoltaic, and solar thermal energy.

6/ Revised.

7/ Discontinuity between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1996, Consumption Estimates* (February 1999), p. 95.

**Table 17.03-- CONSUMPTION OF ENERGY BY END-USE SECTOR:
1960 TO 1996**

[Trillion Btu]

Year	Consumption				Input at electric utilities
	Residential	Commercial	Industrial	Transportation	
1960	7.3	5.2	20.7	61.8	17.6
1965	10.1	6.8	34.7	79.0	27.6
1970	16.4	11.6	43.6	125.3	43.2
1975	19.6	13.8	49.9	130.5	58.8
1980	23.2	20.8	62.4	146.7	69.7
1981	23.0	18.8	60.6	124.1	69.9
1982	21.5	17.6	67.1	102.2	66.9
1983	22.1	17.8	52.6	117.9	68.6
1984	21.0	19.5	50.9	129.3	70.6
1985	20.9	20.3	53.0	143.3	70.0
1986	21.3	22.8	60.2	126.9	72.9
1987	22.8	26.0	62.0	2/ 125.2	76.6
1988	23.9	39.2	69.4	2/ 142.0	81.9
1989	25.3	38.0	66.9	154.5	85.8
1990	1/ 25.9	34.3	1/ 80.8	1/ 2/ 156.9	86.1
1991	24.2	28.2	74.8	151.4	79.2
1992	24.0	32.8	72.7	142.9	74.6
1993	20.7	22.7	71.3	126.8	66.2
1994	20.4	25.4	75.2	135.5	64.7
1995	20.8	24.4	2/ 75.2	135.8	66.5
1996	21.5	23.8	76.3	120.3	68.2

1/ Discontinuity between 1989 and 1990 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1990.

2/ Revised.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1996, Consumption Estimates* (February 1999), pp. 96-100.

Table 17.04-- PRIMARY ENERGY CONSUMPTION AND ELECTRICITY SALES, TOTAL AND PER CAPITA: 1987 TO 1997

Year	Primary energy consumption		Electricity sales by utilities	
	Total (trillion Btu)	Per capita 1/ (million Btu)	Total (1,000 kWh)	Per capita 1/ (kWh)
1987	284.20420	239.532	7,298,178	6,151
1988	306.92120	255.682	7,719,029	6,430
1989	315.08420	252.958	7,970,360	6,399
1990 2/	312.13040	248.393	8,310,537	6,614
1991 2/	322.95240	253.794	8,564,032	6,730
1992 2/	339.09120	267.887	8,643,562	6,829
1993 2/	307.74649	244.243	8,657,905	6,871
1994 2/	327.47780	255.523	8,948,458	6,982
1995 2/	315.11860	244.790	9,187,429	7,137
1996 2/	315.94920	244.372	9,378,962	7,254
1997 3/	315.99270	245.203	9,345,281	7,252

1/ Based on estimated de facto population.

2/ Revised.

3/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

**Table 17.05-- PRIMARY ENERGY CONSUMPTION, BY SOURCE:
1987 TO 1997**

[Trillion Btu]

Year	Total	Petroleum	Biomass	Solar hot water
1987	284.2042	256.4061	22.1840	2.1914
1988	306.9212	279.1052	22.7080	2.1931
1989 1/	315.0842	289.2301	20.8020	2.3310
1990 1/	312.1304	284.4906	18.1200	2.3400
1991 1/	322.9524	294.6222	17.9000	2.3000
1992 1/	339.0912	305.7758	16.9840	2.3000
1993 1/	307.7465	266.9516	16.8310	2.3000
1994 1/	327.4778	285.5010	16.3660	2.3000
1995 1/	315.1186	273.9590	11.8232	2.8386
1996	315.9492	277.1298	10.3994	3.1225
1997 2/	315.9927	278.3480	8.9527	3.1225

Year	Hydroelectric	Coal	Wind	Geothermal	Solid waste
1987	0.9670	1.4875	0.8236	0.1446	-
1988	0.9826	1.3509	0.4185	0.1629	-
1989 1/	1.0183	0.8715	0.4189	0.1435	0.2689
1990 1/	1.0700	0.8900	0.2900	-	4.9298
1991 1/	1.0000	0.8000	0.3060	-	6.0242
1992 1/	0.7226	6.9207	0.2573	0.0168	6.1140
1993 1/	0.8024	13.2237	0.2352	1.5988	5.8038
1994 1/	1.5300	13.5599	0.2251	1.8060	6.1898
1995 1/	1.0632	16.5249	0.2364	2.3045	6.3688
1996	1.1332	16.9294	0.2244	2.3566	4.6539
1997 2/	0.9544	16.7772	0.1796	2.3633	5.2950

1/ Revised.

2/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

Table 17.06-- ELECTRICITY GENERATION BY SOURCE: 1989 TO 1997

[Millions of kWh generated]

Year	Total	Petroleum	Biomass	MSW 1/	Hydroelectric
1989	9,280	8,511	614	-	100
1990	9,566	8,589	538	-	105
1991	9,610	8,664	495	-	92
1992	10,104	8,556	460	-	67
1993	10,219	7,576	435	349	78
1994	10,341	7,793	423	379	148
1995	10,563	7,853	292	383	103
1996	10,742	8,027	270	326	110
1997	10,424	7,805	226	371	93

Year	Geothermal	Wind	Coal	PV 2/	Other 3/
1989	14	41	-	-	(Z)
1990	-	28	-	-	306
1991	-	30	-	-	329
1992	1	21	-	-	999
1993	155	24	1,592	(Z)	10
1994	175	22	1,382	(Z)	19
1995	223	23	1,674	(Z)	12
1996	228	22	1,740	(Z)	19
1997	229	17	1,663	(Z)	20

Z Less than 500,000 kWh.

1/ Electricity generated from Honolulu municipal solid waste plant.

2/ Electricity generated from photovoltaic.

3/ From 1989 to 1992, includes electricity production by coal, geothermal (a test well which ceased operation in 1989), and photovoltaic.

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Hawaii Agriculture Research Center, records.

**Table 17.07-- ELECTRICITY PRODUCTION, BY SOURCE, BY ISLANDS:
1997**

[Million kWh]

Island	Total	Petroleum	Biomass	MSW 1/	Hydroelectric
State total	10,422	7,805	225	371	92
Hawaii	1,028	608	-	-	51
Maui	1,199	1,006	133	-	24
Lanai	28	28	-	-	-
Molokai	37	37	-	-	-
Oahu	7,685	5,775	15	371	-
Kauai	445	351	77	-	17

Island	Wind	Geothermal	Coal	PV 2/	Other
State total	17	229	1,663	(Z)	20
Hawaii	17	229	123	(Z)	-
Maui	-	-	36	(Z)	-
Lanai	-	-	-	-	-
Molokai	-	-	-	-	-
Oahu	-	-	1,504	(Z)	20
Kauai	-	-	-	-	-

Z Less than 500,000 kWh.

1/ Electricity generated from Honolulu municipal solid waste plant.

2/ Electricity generated from photovoltaic.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

**Table 17.08-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY
SOURCE: 1987 TO 1997**

[Millions of dollars]

Year	Total energy expenditures	Fuel expenditures			Less: electric utility fuel expenditures	Plus: electricity purchased by end-user
		Total	Electric utility	Other		
1987	1,575.3	1,176.2	203.7	972.5	203.7	602.8
1988	1,664.1	1,314.6	238.0	1,076.6	238.0	587.5
1989	1,897.8	1,530.6	277.5	1,253.1	277.5	642.1
1990	2,204.4	1,807.0	352.5	1,454.5	352.5	749.9
1991	2,217.5	1,736.4	304.8	1,431.6	304.8	785.9
1992 1/	2,340.3	1,760.0	238.2	1,521.8	238.2	818.5
1993 1/	2,369.9	1,660.4	213.3	1,447.1	213.3	922.8
1994 1/	2,397.0	1,642.5	201.4	1,441.1	201.4	955.9
1995 1/	2,459.4	1,645.2	223.5	1,421.7	223.5	1,037.7
1996 2/	2,712.0	1,843.9	268.9	1,575.0	268.9	1,137.0
1997 2/	2,756.5	1,863.6	276.2	1,587.4	276.2	1,169.2

1/ Revised.

2/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records.

Table 17.09-- ELECTRIC UTILITIES: 1988 TO 1998

Year	Customers, Dec. 31 1/			Installed capacity 3/ (kW)	Power sold (1,000 kWh)		
	Total	Residential 2/	Other		Total	Residential 2/	Other
1988	354,887	306,375	48,512	1,570,410	7,719,029	2,148,275	5,570,754
1989	362,281	312,347	49,934	1,517,500	7,969,694	2,238,874	5,730,820
1990	370,952	320,215	50,737	1,655,690	8,310,537	2,320,550	5,989,987
1991	380,963	328,899	52,064	1,572,349	8,460,186	2,363,726	6,076,697
1991 4/	380,963	328,899	52,064	1,572,349	8,524,088	2,385,276	6,178,756
1992 4/	385,055	332,863	52,192	1,650,639	8,666,889	2,430,152	6,213,410
1993 4/	395,402	341,471	53,931	1,717,914	8,657,903	2,453,830	6,204,075
1994 4/	403,595	346,977	56,618	1,710,224	8,948,458	2,551,240	6,397,218
1995 4/	409,983	352,589	57,394	1,714,729	9,187,430	2,597,010	6,590,419
1996 4/	413,830	356,205	57,625	(X)	9,378,962	2,669,654	6,709,308
1997 4/	415,964	358,683	57,281	(X)	9,345,281	2,659,248	6,686,033
1998 4/	418,989	361,429	57,560	(X)	9,261,070	2,634,172	6,626,899
Year	Average annual use (kWh 5/)		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 2/	Other	Residential 2/	Other	Total	Residential 2/	Other
1988	7,011	114,832	0.08829	0.07141	587,528	189,689	397,839
1989	7,168	114,772	0.09265	0.07585	642,101	207,436	434,665
1990	7,247	118,060	0.10261	0.08544	749,857	238,103	511,754
1991	7,187	116,716	0.10539	0.08726	779,382	249,104	530,278
1991 4/	7,252	117,524	0.10546	0.08733	785,896	251,553	534,343
1992 4/	7,301	119,049	0.10932	0.08898	818,525	265,667	552,858
1993 4/	7,186	115,037	0.12309	0.10005	922,796	302,054	620,743
1994 4/	7,353	112,989	0.12464	0.09972	955,907	317,984	637,923
1995 4/	7,366	114,828	0.13337	0.10490	1,037,702	346,359	691,343
1996 4/	7,495	116,431	0.14272	0.11268	1,137,045	381,011	756,034
1997 4/	7,414	116,723	6/ 0.14839	6/ 0.11584	6/ 1,169,134	6/ 394,603	6/ 774,531
1998 4/	7,288	115,130	0.13884	0.10682	1,073,610	365,719	707,891

Footnotes and source on next page.

Table 17.09-- ELECTRIC UTILITIES: 1988 TO 1998 -- Con.

X Not applicable.

1/ 1990 based on November data.

2/ 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.

3/ As of December 31. Beginning with 1996, reported as system peak. The system peak is the maximum amount of energy required by the electrical system. The island electrical systems are not interconnected, therefore, peaks are reported separately for each island.

4/ Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai.

5/ Based on number of customers at end of year.

6/ Revised.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.10-- ELECTRIC UTILITIES, BY ISLANDS: 1997

[Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai]

County or island	Customers, Dec. 31			System peak 2/ (mW)	Power sold (1,000 kWh)		
	Total	Residential 1/	Other		Total	Residential 1/	Other
State total	415,964	358,683	57,281	(X)	9,345,281	2,659,248	6,686,033
Oahu	271,801	238,825	32,976	1,220.0	7,040,291	1,852,175	5,188,116
Hawaii	60,220	50,590	9,630	166.7	894,110	331,125	562,985
Kauai	29,338	22,589	6,749	71.4	382,112	128,248	253,864
Maui County	54,605	46,679	7,926	(X)	1,028,768	347,700	681,068
Lanai	1,362	1,181	181	5.0	26,050	6,442	19,608
Maui	50,385	43,159	7,226	174.7	969,170	328,582	640,587
Molokai	2,858	2,339	519	6.6	33,549	12,676	20,873
County or island	Average annual use (kWh) 3/		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	7,414	116,723	4/ 0.14839	4/ 0.11584	4/ 1,169,134	4/ 394,603	4/ 774,531
Oahu	7,755	157,330	0.13360	0.10254	779,425	247,458	531,967
Hawaii	6,545	58,462	0.19672	0.16908	160,332	65,140	95,192
Kauai	5,677	37,615	4/ 0.21186	4/ 0.19925	4/ 77,753	4/ 27,171	4/ 50,582
Maui County	7,449	85,928	0.15770	0.14212	151,624	54,834	96,791
Lanai	5,455	108,332	0.19033	0.19428	5,036	1,226	3,810
Maui	7,613	88,650	0.15549	0.13885	140,035	51,092	88,943
Molokai	5,419	40,218	0.19844	0.19348	6,554	2,515	4,039

X Not applicable.

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/ The system peak is the maximum amount of energy required by the electrical system. The island electrical systems are not interconnected, therefore, peaks are reported separately for each island.

3/ Based on number of customers at end of year.

4/ Revised.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.11-- ELECTRIC UTILITIES, BY ISLANDS: 1998

[Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai]

County or island	Customers, Dec. 31			System peak 2/ (mW)	Power sold (1,000 kWh)		
	Total	Residential 1/	Other		Total	Residential 1/	Other
State total	418,989	361,429	57,560	(X)	9,261,070	2,634,172	6,626,899
Oahu	272,675	239,945	32,730	1,175.0	6,938,326	1,820,789	5,117,537
Hawaii	61,228	51,277	9,951	169.6	903,160	335,355	567,805
Kauai	29,800	22,975	6,825	72.0	391,029	130,286	260,744
Maui County	55,286	47,232	8,054	(X)	1,028,556	347,742	680,814
Lanai	1,381	1,200	181	5.2	26,085	6,577	19,508
Maui	51,035	43,694	7,341	176.0	967,760	328,598	639,162
Molokai	2,870	2,338	532	6.6	34,710	12,567	22,144
County or island	Average annual use (kWh) 3/		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	7,288	115,130	0.13884	0.10682	1,073,610	365,719	707,891
Oahu	7,588	156,356	0.12556	0.09437	711,561	228,621	482,939
Hawaii	6,540	57,060	0.18616	0.15995	153,249	62,429	90,820
Kauai	5,671	38,204	0.19437	0.17969	72,177	25,323	46,853
Maui County	7,362	84,531	0.14190	0.12820	136,623	49,345	87,278
Lanai	5,481	107,779	0.17967	0.18451	4,781	1,182	3,599
Maui	7,520	87,067	0.13956	0.12488	125,677	45,860	79,817
Molokai	5,375	41,623	0.18328	0.17440	6,165	2,303	3,862

X Not applicable.

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/ The system peak is the maximum amount of energy required by the electrical system. The island electrical systems are not interconnected, therefore, peaks are reported separately for each island.

3/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.12-- GAS UTILITIES: 1988 TO 1998

[Revised. Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential 1/	Other	Total	Residential 1/	Other
1988	34,103	30,450	3,653	32,733	5,780	26,952
1989	34,304	30,661	3,643	33,865	5,896	27,969
1990	34,477	30,840	3,637	34,806	5,924	28,882
1991	34,973	31,378	3,595	33,974	5,775	28,199
1992	35,236	31,625	3,611	33,662	5,733	27,929
1993	35,908	32,293	3,615	33,268	5,750	27,518
1994	36,403	32,753	3,650	34,010	5,851	28,159
1995	36,619	32,950	3,669	33,740	5,793	27,948
1996	36,641	33,020	3,621	33,531	5,642	27,888
1997	36,575	32,977	3,598	32,980	5,603	27,377
1998	36,225	32,630	3,595	33,095	5,702	27,393

Year	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
1988	189	7,378	1.54961	1.07840	38,023	8,957	29,066
1989	192	7,677	1.54200	1.06487	38,876	9,092	29,783
1990	192	7,941	1.62847	1.14834	42,813	9,646	33,167
1991	184	7,844	1.78649	1.25285	45,646	10,317	35,329
1992	181	7,735	1.79054	1.25466	45,307	10,265	35,042
1993	178	7,612	1.75962	1.22594	43,853	10,117	33,735
1994	179	7,715	1.71994	1.19455	43,700	10,064	33,637
1995	176	7,617	1.79670	1.25158	45,386	10,407	34,979
1996	171	7,702	2.10399	1.33578	49,124	11,872	37,252
1997	170	7,609	2.29075	1.40013	51,167	12,835	38,332
1998	175	7,620	2.16236	1.25934	46,826	12,329	34,497

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, records.

Table 17.13-- GAS UTILITIES, BY ISLANDS: 1998

[Excludes bottled gas]

Island	Customers, December 31			Gas sold (1,000 therms)		
	Total	Residential 1/	Other	Total	Residential 1/	Other
State total	36,225	32,630	3,595	33,095	5,702	27,393
Oahu	33,515	30,298	3,217	29,930	5,284	24,647
Hawaii	1,611	1,310	301	2,307	242	2,064
Kauai	607	607	-	86	86	-
Maui	396	319	77	752	71	682
Molokai	96	96	-	20	20	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	175	7,620	2.16236	1.25934	46,826	12,329	34,497
Oahu	174	7,661	2.11568	1.26146	42,270	11,179	31,091
Hawaii	185	6,859	2.98452	1.24808	3,299	723	2,577
Kauai	141	-	2.68922	-	230	230	-
Maui	221	8,852	2.15527	1.21693	982	152	829
Molokai	205	-	2.31461	-	46	46	-
Lanai	-	-	-	-	-	-	-

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, records.

**Table 17.14-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC COMPANY, INC.,
ON OAHU: 1989 TO 1998**

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Electricity sales (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Generating capability Dec. 31 3/ (kW)
	Total	Residential only					
1989	247,120	216,063	6,617,943	6,254,220	7,534	0.08308	1,271,000
1990	248,692	217,681	6,835,025	6,470,587	7,620	0.09228	1,262,000
1991	255,176	223,304	6,876,964	6,538,952	7,610	0.09354	1,440,000
1992	257,442	225,229	7,061,157	6,650,449	7,711	0.09925	1,666,000
1993	263,478	230,192	7,029,839	6,607,424	7,581	0.11414	1,669,000
1994	264,992	232,115	7,222,978	6,797,364	7,681	0.11342	1,669,000
1995	269,307	235,905	7,359,195	6,962,794	7,732	0.12302	1,669,000
1996	271,602	237,860	7,499,202	7,091,147	7,868	0.12944	1,669,000
1997	271,801	238,825	7,424,259	7,040,291	7,773	0.13360	1,669,000
1998	272,675	239,945	7,299,149	6,938,326	7,603	0.12556	1,669,000

1/ Net generation plus purchased power.

2/ Based on average number of customers during the year.

3/ Includes firm purchase power.

Source: Hawaiian Electric Company, Inc., records.

**Table 17.15-- GAS UTILITY SERVICE BY THE GAS COMPANY, INC.,
FOR OAHU: 1989 TO 1994**

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1989	31,812	28,539	30,776	5,446	191
1990	31,974	28,714	31,645	5,469	191
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	30,029	5,287	176
1994	33,597	30,344	30,765	5,372	177

1/ Includes liquefied petroleum gas.

Source: The Gas Company, BHP Petroleum, records.

Table 17.16-- LIQUID FUEL TAX BASE: 1987 TO 1998

[In thousands of gallons]

Year reported 1/	All types		Gasoline	Diesel oil	
	Total	Excluding aviation		Non-hwy.	Hwy. use
1987	1,206,716	512,974	348,474	137,806	21,207
1988	1,216,828	515,273	357,986	131,292	21,057
1989	1,268,597	535,714	369,172	136,465	23,729
1990	1,307,887	557,097	375,382	151,095	24,763
1991	1,299,455	570,077	376,182	163,773	24,991
1992	1,286,118	574,716	381,118	162,983	26,289
1993	1,173,458	573,767	384,444	160,121	24,997
1994	1,240,366	578,758	392,404	152,628	29,692
1995	1,286,038	600,596	396,446	172,684	27,411
1996	1,147,866	588,896	394,989	160,102	29,864
1997	955,834	585,400	400,435	150,737	30,109
1998	954,860	597,410	394,674	169,930	28,983

Year reported 1/	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1987	3,135	1,142	693,742	123	1,089
1988	3,012	1,071	701,555	63	792
1989	4,301	968	732,883	57	1,022
1990	4,757	834	750,790	78	188
1991	3,575	780	729,378	52	724
1992	3,644	532	711,402	48	102
1993	3,343	477	599,691	35	349
1994	3,210	566	661,608	60	198
1995	3,096	514	685,443	50	395
1996	3,249	413	558,969	50	228
1997	3,587	328	370,433	41	164
1998	3,280	383	357,450	9	151

1/ 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.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections" (annual report).

Table 17.17-- LIQUID FUEL TAX BASE, BY COUNTIES: 1998

[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	954,860	682,984	111,316	101,139	59,420
Gasoline	394,674	256,910	52,855	61,132	28,778
Diesel oil, non-hwy.	169,930	90,057	26,735	21,807	31,331
Diesel oil, hwy. use	28,983	17,662	3,987	6,084	1,250
Liq. pet. gas, off hwy.	3,280	1,803	560	582	335
Liq. pet. gas, hwy. use	382	326	22	23	11
Small boats, gasoline	9	9	-	-	-
Small boats, diesel oil	151	14	-	138	-
Aviation fuel	357,450	316,203	27,157	11,375	2,715

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections, Calendar Year Ending December 31, 1998" (annual release).

**Table 17.18-- IMPORTS AND EXPORTS OF CRUDE OIL AND
PETROLEUM PRODUCTS: 1997**

[1,000 barrels]

Product	Imports			Exports		
	Total	Domestic	Foreign	Total	Domestic	Foreign
Crude oil	51,097	15,000	36,097	-	-	-
Distillates	63	63	-	679	668	11
Jet fuel	5,446	311	5,135	126	126	-
Residual fuel oil	-	-	-	457	42	415
Naphtha	-	-	-	1,201	-	1,201
Other	1,154	1,154	-	4,372	2,663	1,709

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Energy Information Administration, records.

**Table 17.19-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL, BY
COUNTIES: 1987, 1992, AND 1996.**

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County		
					Lanai	Maui	Molokai
1987	355	241	52	26	1	34	1
1992	326	212	57	21	-	35	1
1996	302	190	59	19	(1/)	1/ 34	(1/)

1/ Lanai and Molokai included with Maui.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade, Hawaii*, RC87-A-12 (May 1989), table 5; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 4; and *County Business Patterns 1996, Hawaii*, CBP-96-13 (November 1998), tables 1b and 2.

**Table 17.20-- BOILERS AND PRESSURE VESSELS, BY ISLANDS:
DECEMBER 31, 1998**

Island	Total	Power boilers	Heating boilers	Pressure vessels
State total	10,242	668	2,825	6,749
Hawaii	1,295	92	234	969
Maui	1,090	75	272	743
Lanai	67	5	13	49
Molokai	66	7	31	28
Oahu	7,269	450	2,151	4,668
Kauai	455	39	124	292

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

**Table 17.21-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY
SUGAR PLANTATIONS, BY ISLANDS: 1997**

Subject	State total	Hawaii	Kauai	Maui	Oahu
1997					
Electricity (millions of kilowatt-hours)					
Generated 1/	347.88	-	103.53	244.34	-
Purchased	9.81	-	5.18	4.13	-
Sold	138.91	-	50.66	88.25	-
Used	218.78	-	58.06	160.72	-
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	11,089	-	3,685	7,405	-
Bagasse 2/	8,363	-	3,473	4,890	-
Fossil fuels	2,726	-	211	2,515	-
Other fuels	-	-	-	-	-

1/ Includes electricity generated by steam, hydroelectric and diesel engine.

2/ Includes bagasse transferred between factories.

Source: Hawaii Agriculture Research Center, *Energy Inventory of Hawaiian Sugar Plantations-1997*
(Energy Report 37, July 1998), pp. 10-11.

**Table 17.22-- HIGH TECHNOLOGY COMPANIES, EMPLOYEES,
AND REVENUES: 1995**

Subject	All sectors	Manufacturing	Service	Support
Number of companies 1/	195	24	155	16
Employees 2/	6,694	580	5,735	379
Revenues (million dollars) 2/	1,149	394	695	60

1/ Number responding to survey. The estimated total number of high tech companies in Hawaii was 400.

2/ Based on survey response, and excluding Hawaiian Electric.

Source: High Technology Development Corp., Mililani, Hawaii, 1995 survey.

**Table 17.23-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
AND R&D PLANT IN HAWAII: 1992 TO 1997**

[Millions of dollars. For fiscal years ended September 30]

Type of obligation	1992	1993	1994	1995	1996	1997
Obligations for R&D	150.7	113.0	140.3	1/ 139.3	147.6	150.7
Obligations for R&D plant	6.5	19.3	14.3	0.5	1.7	3.0

1/ Revised.

Source: National Science Foundation/SRS, *Survey of Federal Funds for Research and Development: Fiscal Years 1997, 1998 and 1999*. Internet sites <http://www.nsf.gov/sbe/srs/nsf99333/tables/c110a.xls> and <http://www.nsf.gov/sbe/srs/nsf99333/tables/c111a.xls>.

**Table 17.24-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING,
FOR THE UNIVERSITY OF HAWAII: 1991-92 TO 1996-97**

[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	Total		Research		Non-research	
	Awards	Amount (dollars)	Awards	Amount (dollars)	Awards	Amount (dollars)
1991-92	1,221	124,876,638	703	65,791,624	518	59,085,014
1992-93	1,146	131,075,215	636	61,059,928	510	70,015,287
1993-94	1,322	142,563,794	755	77,763,782	567	64,800,012
1994-95	1,147	139,199,221	616	70,222,653	531	68,976,568
1995-96	1,191	134,469,155	697	76,698,552	494	57,770,603
1996-97	1,255	160,859,800	724	89,131,636	531	71,728,164

Source: Office of Research Services, University of Hawaii, *1996-1997 Extramural Awards* (1997), p. i.

**Table 17.25-- RESEARCH AND DEVELOPMENT EXPENDITURES AT
DOCTORATE-GRANTING INSTITUTIONS: 1992 TO 1996**

[Thousands of dollars. For fiscal years ended September 30]

Type of expenditure	1992	1993	1994	1995	1996
Total R&D expenditures	80,258	73,961	70,079	78,429	73,302
Federally financed	47,684	41,362	39,392	44,238	40,198
All others	32,574	32,599	30,687	34,191	33,104

Source: National Science Foundation/SRS, *Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1995*. <http://www.nsf.gov/sbe/srs/nsf98304/tables/b32.xls-total>.

**Table 17.26-- PATENTS ISSUED TO HAWAII RESIDENTS:
1987 TO 1998**

[Revised. Data include design, plant, reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1987	46	1993	106
1988	62	1994	99
1989	71	1995	84
1990	85	1996	104
1991	80	1997	93
1992	81	1998	1/ 93

1/ Hawaii ranked 46th among the 50 states.

Source: U.S. Department of Commerce, U.S. Patent and Trademark Office, *Patent Counts by Country/State and Year, All Patents, All Types, January 1, 1977 -- December 31, 1998* (March 1999) at http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_all.pdf.

**Table 17.27-- ASTRONOMY AND RELATED FACILITIES AT
THE SUMMITS OF MAUNA KEA AND HALEAKALA: 1999**

Facility (mirror diameter in meters)	Capital cost (\$ mil)	Annual operating cost (\$ mil)	Hawaii County based staff	Operational
Mauna Kea:				
UH 0.6-m (Optical)	0.3	(X)	(X)	1969
UH 2.2-m (Optical/Infrared)	5	0.75	8	1970
Canada-France-Hawaii 3.6-m (Optical/Infrared)	30	6.2	50	1979
NASA IRTF 3.0-m (Infrared)	10	3.0	12	1979
United Kingdom Infrared 3.8-m	5	2.7	31	1979
James Clerk Maxwell 15-m Submillimeter	32	3.5	43	1986
Caltech 10.4-m Submillimeter	10	2.1	10	1986
W.M. Keck Observatory (Keck I & II) 10-m x 2 (Optical/Infrared)	170	11.0	85	1992/96
VLBA Antenna 25-m (Radio)	7	0.25	2	1992
Submillimeter Array 8x6-m 1/	80	6.0	2/ 26	1999
Subaru (Japan National Large Telescope) 8-m (Optical/Infrared)	170	8.0	2/ 30	1999
Gemini Northern 8-m (Optical/Infrared)	100	5.0	2/ 30	1999
Mauna Kea Observatories Support Services	(NA)	3/ 1.9	24	
Total	619	48.5	351	
Haleakala:				
Mees Solar Observatory	0.5	0.1	2	1964
Lunar Ranging Facility	3.3	0.7	7	1976/84
Haleakala Observatories Projects	(NA)	0.5	4	
Maui Space Surveillance Site (MSSS) 4/ Advanced Electro-Optical System 3.7-m Telescope (AEOS)	200.0	16.0	120	
Haleakala Support Facilities	50.0	15.0	55	1997
	(NA)	0.13	6	
Total	253.8	32.43	194	

NA Not available.

X Not applicable.

1/ Under construction.

2/ Approximate expected number when in operation.

3/ Not included in the total since derived from facility operating funds.

4/ Formerly Air Force Maui Optical Station (AMOS).

Source: University of Hawaii at Manoa, Institute for Astronomy, *Fact Sheet*.

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, its 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, U.S. Census of Transportation, Communications, and Utilities, 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: 1998*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 1998

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	28.4	Kaunakakai-Maunaloa	16.5
Hilo-Mauna Kea summit	39.3	Kaunakakai-Airport	7.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	12.6
Hilo-Kailua, via Naalehu	124.0		
Hilo-Kailua, via Saddle Rd.	87.4	OAHU 1/	
Hilo-Kailua, via Hamakua	98.1		
Hilo-Waimea, via Saddle Rd.	60.9	Honolulu-Ala Moana Center	1.5
Hilo-Waimea, via Hamakua	56.8	Honolulu-UH, via King Street	3.2
Hilo-Upolu Pt., via Hamakua	88.3	Honolulu-Waikiki	3.2
Hilo-Kawaihae, via Hamakua	66.8	Honolulu-Waimanalo, via Koko He	21.2
Waimea-Hawi	21.4	Honolulu-Waimanalo, via Nuuanu	12.6
Waimea-Kawaihae	10.0	Honolulu-Kailua, via Nuuanu	13.0
Kawaihae-Hawi	19.3	Honolulu-Kaneohe, via Kalihi	12.0
Kawaihae-Kailua	34.3	Honolulu-Kahuku, via Kahaluu	38.0
Kailua-Keahole Airport	6.8	Honolulu-Kahuku, via Wahiawa	48.0
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Wahiawa	44.4
		Honolulu-Kaena Pt., via Waianae	43.7
MAUI		Honolulu-Wahiawa	23.0
Wailuku-Kahului	2.3	Honolulu-Pearl Harbor Shipyard	6.5
Wailuku-Kahului Airport	4.2	Honolulu-Honolulu Airport	5.0
Wailuku-Hana, via Keanae	53.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Kaupo	59.8	Waikiki-Honolulu Airport	8.0
Wailuku-Haleakala summit	38.2	Waimanalo-Kahuku	32.6
Wailuku-Makena	17.9	Circle island, via Makapuu	99.5
Wailuku-Lahaina, via Kahakula	38.0	Circle island, via Nuuanu Pali	81.6
Wailuku-Lahaina, via Olowalu	20.9		
Kahului-Kihei	8.2	KAUAI	
Lahaina-Wailea	32.4	Lihue-Haena	38.2
Lahaina-Napili	8.9	Lihue-Wailua	5.9
Lahaina-Kaanapali	3.7	Lihue-Lihue Airport	2.0
		Lihue-Poipu	11.9
LANAI		Lihue-Mana	32.9
Lanai City-Lanai Airport	3.1	Lihue-Kalalau Lookout	44.6
Lanai City-Hulopoe	7.5	Poipu-Kalalau Lookout	36.8
		Poipu-Princeville	40.7

1/ Honolulu distances measured from South King and Bishop Streets; Waikiki, from Kalakaua Avenue and Lewers Street.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1997

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
1997				
State total	4,164.21	88.58	3,877.70	197.93
Hawaii 1/	1,431.75	-	1,372.45	59.30
Maui 1/	617.10	-	560.40	56.70
Lanai	46.59	-	32.59	14.00
Molokai	129.26	-	117.26	12.00
Oahu	1,523.90	88.58	1,401.88	33.44
Kauai	415.61	-	393.12	22.49
Niihau	-	-	-	-

1/ Significant changes from previously published data are due to reinventories of roads to reflect extensive revisions in the functional classification of highway systems.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.03-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1975 TO 1997

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1975	1980	1985	1990	1994	1997
Total mileage	3,743	3,912	4,070	4,101	4,100	4,164
Paved	3,355	3,591	3,808	3,887	3,902	3,966
Unpaved	389	321	262	214	198	198

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.04-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1998

Island	Number of bridges 1/	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State	734	Airport Viaduct	14,890	Nanue	208
Hawaii	133	Hakalau	775	Nanue	208
Maui	99	Honokahua	600	Uaoa	79
Lanai	-	None	-	None	-
Molokai	19	Manawainui	360	Manawainui	50
Oahu	429	Airport Viaduct	14,890	Kipapa	156
Kauai	54	Hanamaulu	1,150	Wahiawa, Koloa	90

1/ Limited to bridges under State jurisdiction and 20 feet or longer.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1998

Island and name of tunnel	Length (feet)
Oahu:	
Pali No. 1: Inbound (to Honolulu)	1,000
Outbound (from Honolulu)	1,080
Pali No. 2: Inbound	500
Outbound	497
Wilson: Inbound	2,775
Outbound	2,813
H-3: Inbound	4,890
Outbound	5,165
Middle Street	393
Hospital Rock Tunnel: Inbound	353
Outbound	354
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:
1988 TO 1998**

[Taxable and exempt vehicles. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1988	838,327	817,609	670,877	52	4,215
1989	876,848	855,057	695,397	54	4,203
1990	911,283	889,096	718,204	55	4,308
1991	920,124	897,193	717,907	54	4,309
1992	908,738	885,761	703,983	53	4,282
1993	903,550	880,152	693,283	48	4,032
1994	898,008	875,144	691,158	53	3,772
1995	901,291	877,756	694,239	54	3,660
1996	907,770	884,617	703,094	59	3,468
1997	906,964	884,267	704,693	54	3,226
1998	915,753	893,427	713,732	61	3,084
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor-scooters 2/	Trailers and semi-trailers
1988	129,452	1,176	293	11,544	20,718
1989	141,845	1,107	292	12,159	21,791
1990	152,453	1,043	313	12,720	22,187
1991	159,831	972	323	13,797	22,931
1992	160,952	871	298	15,322	22,977
1993	165,209	757	283	16,540	23,398
1994	162,348	630	249	16,934	22,864
1995	161,609	567	239	17,388	23,535
1996	160,013	504	225	17,254	23,153
1997	158,457	457	220	17,160	22,697
1998	158,977	423	214	16,936	22,326

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, Motor Vehicle Safety Office, records.

**Table 18.07-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1988 TO 1998**

[Taxable and exempt vehicles. Includes passenger cars, ambulances, buses, trucks, motorcycles and vehicles registered but subsequently scrapped or shipped out of the State. Excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1988	817,609	579,998	96,360	47,235	94,016
1989	855,057	599,379	103,724	51,455	100,499
1990	889,096	612,742	110,834	55,927	109,593
1991	897,193	613,119	113,265	57,751	113,058
1992	885,761	611,513	113,080	51,165	110,003
1993	880,152	604,602	111,138	54,068	110,344
1994	875,144	600,087	111,532	52,817	110,708
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

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1998**

[Taxable and exempt vehicles. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	915,753	606,091	127,187	58,879	123,596
Motor vehicles	893,427	594,096	121,959	56,554	120,818
Passenger vehicles 1/	713,732	485,638	93,416	40,766	93,912
Ambulances	61	35	15	-	11
Buses	3,084	2,495	238	23	328
Trucks 1/	158,977	93,692	25,835	14,976	24,474
Truck tractors	423	181	98	40	104
Truck cranes	214	108	19	13	74
Motorcycles, motorscooters 2/	16,936	11,947	2,338	736	1,915
Trailers and semi-trailers	22,326	11,995	5,228	2,325	2,778

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, Motor Vehicle Safety Office, records.

**Table 18.09-- VEHICLE REGISTRATION, BY TAXATION STATUS, FOR
COUNTIES: DECEMBER 31, 1998**

[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	876,491	582,149	119,621	55,818	118,903
Taxable vehicles	810,701	519,570	118,422	55,058	117,651
Exempt vehicles	65,790	62,579	1,199	760	1,252
Federal government	350	332	15	-	3
State government	4,888	4,887	1	-	-
County government	6,272	4,231	553	487	1,001
Fire department	227	59	111	31	26
Police department	1,615	1,264	349	-	2
Consulates	72	71	-	-	1
Disabled veterans	132	82	11	33	6
Military non-resident	51,817	51,460	95	199	63
Farm	356	141	55	10	150
Horseless carriage	38	31	7	-	-
Electric vehicles	23	21	2	-	-

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.10-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,
BY COUNTIES: 1990**

Vehicles available	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units	356,267	41,461	265,304	62	16,295	33,145
None	35,159	3,100	29,406	26	777	1,850
1	128,513	14,676	98,542	6	4,573	10,716
2	127,011	16,154	91,032	24	6,699	13,102
3	43,580	5,316	30,415	6	2,874	4,969
4	15,187	1,606	10,996	-	907	1,678
5 or more	6,817	609	4,913	-	465	830

Source: U.S. Bureau of the Census, *1990 Census of Housing, Detailed Housing Characteristics, Hawaii*, 1990 CH-2-13 (August 1993), tables 14 and 67.

Table 18.11-- TRUCK CHARACTERISTICS: 1977 TO 1992

Vehicular and operational characteristics	1977	1982	1987	1992
Total trucks (1,000)	...	...	160.8	280.3
Percent	100.0	100.0	100.0	100.0
Major use: Personal transportation	50.0	54.3	60.5	61.7
Body type: Pickup, panel, or mini-van	85.1	89.1	91.2	93.8
Vehicle size: Light	89.0	92.9	94.6	95.6
Annual miles: Less than 10,000	54.1	59.7	57.0	50.0
Year model: Over 4 years old	68.1	75.8	62.1	66.8
Vehicle acquisition: Purchased new	54.6	47.3	49.6	54.3
Truck type: Single-unit, 2 axles	95.7	96.6	96.4	91.9
Range of operation: Local	87.3	78.2	80.2	79.3
Fuel type: Diesel and LPG	4.6	3.7	5.4	4.7

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Truck Inventory and Use Survey, Hawaii*, TC92-T-12 (December 1994), tables 1 and 2.

**Table 18.12-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1992 TO 1997**

Year	State total	Honolulu	Maui	Hawaii	Kauai
1992	83,357	47,082	17,503	10,928	7,844
1993	79,168	45,833	16,918	10,111	6,306
1994	83,093	46,664	18,940	10,660	6,829
1995	72,526	41,880	15,786	9,359	5,501
1996	68,765	40,425	14,497	8,527	5,316
1997	71,777	40,349	15,629	9,368	6,431

Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.13-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY NAMEPLATE: 1995 TO 1997**

Nameplate 1/	1995		1996		1997	
	Rank	Units	Rank	Units	Rank	Units
All nameplates	...	72,526	...	68,375	...	71,777
Chevrolet/Geo	2	9,348	2	7,902	1	11,848
Ford	1	14,178	1	11,003	2	11,781
Toyota	4	6,572	3	7,355	3	7,634
Dodge	6	5,030	5	5,485	4	6,210
Nissan	3	7,360	4	7,160	5	5,204
Honda	5	5,103	6	4,708	6	4,823
All others	...	24,935	...	24,762	...	24,277

1/ Shown separately for first six in 1997.

Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.14-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
RETAIL AND RENTAL, BY PLACE OF MANUFACTURE: 1997 AND 1998**

Year and place of manufacture	Cars and trucks	Cars			Trucks		
		Total	Retail	Rental	Total	Retail	Rental
1997, total	71,777	63,952	34,858	29,094	7,825	7,629	196
Domestic	47,187	41,661	15,594	26,067	5,526	5,330	196
Imports	24,590	22,291	19,264	3,027	2,299	2,299	-
Percent imports	34.3	34.9	1/ 55.3	10.4	29.4	30.1	-
1998, total	74,408	66,523	32,937	33,586	7,885	7,736	149
Domestic	47,337	41,886	12,951	28,935	5,451	5,343	108
Imports	27,071	24,637	19,986	4,651	2,434	2,393	41
Percent imports	36.4	37.0	60.7	13.8	30.9	30.9	27.5

1/ Revised by the Hawaii State Department of Business, Economic Development & Tourism.
Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1991 TO 1997**

[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

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1996 AND 1997**

Age	Both sexes		Male		Female	
	1996	1997	1996	1997	1996	1997
Total	733,486	738,865	389,483	391,406	344,003	347,459
15 to 19 years	37,456	36,785	20,385	20,120	17,071	16,665
20 to 24 years	59,862	59,474	31,688	31,416	28,174	28,058
25 to 34 years	157,320	153,083	81,578	79,284	75,742	73,799
35 to 44 years	173,455	172,921	89,422	88,940	84,033	83,981
45 to 54 years	139,829	145,780	74,126	76,854	65,703	68,926
55 to 64 years	76,881	79,788	41,416	43,091	35,465	36,697
65 to 74 years	60,687	60,871	33,211	32,919	27,476	27,952
75 to 84 years	25,215	26,974	15,672	16,506	9,543	10,468
85 years and over	2,781	3,189	1,985	2,276	796	913
Median age (years)	41.5	41.9	41.8	42.3	41.1	41.6

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.17-- DRIVING COST, FOR HONOLULU AND SELECTED MAINLAND CITIES: 1995

[Total annual vehicle costs shown are based on a 1995 Ford Taurus GL, 6-cylinder, 4-door sedan driven 15,000 miles per year with a 4-year, 60,000-mile retention cycle. Costs include both ownership expenses of insurance, depreciation, license and registration fees and miscellaneous taxes; and operating expenses of fuel, oil, tires and maintenance]

City	Rank 1/	Annual cost (dollars)	Cost per mile (cents)
Los Angeles	1	8,375	55.8
San Francisco	7	7,152	47.7
Honolulu	8	6,832	45.5
Phoenix	9	6,772	45.1
Detroit	10	6,731	44.9
Sioux Falls	80	5,368	35.8

1/ Among 80 cities surveyed.

Source: Runzheimer International, cited in *The Honolulu Advertiser*, April 4, 1995, p. A1.

**Table 18.18-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
1988 TO 1998, AND BY COUNTIES, 1998**

Year and county	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1988	378,988	464	7,400.8	9,052
1989	395,945	463	7,748.1	9,062
1990	395,185	444	8,065.4	9,071
1991	406,819	453	8,142.2	9,075
1992	405,963	457	8,065.5	9,070
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
COUNTIES: 1998				
Honolulu	274,531	464	5,218.2	8,812
Hawaii	67,234	547	1,195.5	9,735
Kauai	24,922	430	596.8	10,306
Maui	56,241	467	1,079.7	8,959

1/ Includes gasoline, diesel oil, and butane gas.

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 18.19-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1996 TO 1998**

Site	1996	1997	1998
Pali Highway at tunnels	54,626	53,200	46,237
Likelike Highway at tunnels	52,122	50,837	32,515
H-1 Freeway at Manoa-Palolo Drainage Canal	114,229	115,262	114,395
H-1 Freeway at Kapalama Drainage Canal Bridge	222,386	222,253	222,631
Nimitz Highway at Kapalama Drainage Canal Bridge	83,583	83,851	71,277
Kalaniana'ole Highway east of Ainakoa Ave.	82,469	83,720	83,616

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.20-- ROADWAY CONGESTION: 1993

Subject	Number	Rank 1/
Daily vehicle miles of travel (1,000)	5,600	43
Per lane - mile of freeway	14,000	14
Vehicle hours of delay	68,750	31
Per 1,000 persons	100	14
Annual congestion cost:		
Per driver (dollars)	550	17
Per capita (dollars)	470	15
Delay and fuel cost (mil. dol.)	320	32

1/ Among 50 major Urbanized Areas.

Source: Texas Transportation Institute, as cited in *Statistical Abstract of the United States: 1998*, p. 637.

Table 18.21-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1984 TO 1994, AND BY COUNTIES, 1992 TO 1994

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1984	17,657	127	12,390	136
1985	19,577	118	12,613	126
1986	20,854	108	10,941	117
1987	23,625	126	11,996	138
1988	26,071	129	12,818	149
1989	26,891	127	12,835	147
1990	26,639	154	14,048	176
1991	21,824	119	12,792	135
1992	21,834	121	13,403	128
1993	21,464	121	13,879	133
1994	(NA)	110	(NA)	122
COUNTIES: 1992				
Honolulu	16,617	64	9,308	66
Hawaii	2,932	26	2,055	27
Kauai	784	10	671	10
Maui	1,501	21	1,369	25
COUNTIES: 1993				
Honolulu	16,456	71	9,803	76
Hawaii	2,857	29	2,165	31
Kauai	680	6	553	9
Maui	1,471	15	1,358	17
COUNTIES: 1994				
Honolulu	(NA)	61	(NA)	65
Hawaii	(NA)	28	(NA)	33
Kauai	(NA)	9	(NA)	12
Maui	(NA)	12	(NA)	12

NA Not available.

1/ Through 1990, includes traffic accidents with damage of \$300 or more or causing injury or death. 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.

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.22-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1996 TO 1998**

[As of December 31]

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	1996	1997	1998	1996	1997	1998
Hawaii	137	154	(NA)	2,395	3,254	(NA)
Maui	213	216	216	4,446	5,098	4,567
Lanai	-	-	-	41	93	101
Molokai	-	-	-	61	154	199
Oahu	3/ 1,904	3/ 1,544	(NA)	107,784	99,365	(NA)
Kauai	-	-	-	1,049	1,003	721

NA Not available.

1/ Licensed during the calendar year. Taxicabs are licensed annually, except in Kauai County, where registration is not required.

2/ Bicycles with wheels having a diameter of 20 inches or more and all mopeds, both of which were formerly licensed on an annual basis, have, since November 1, 1988, been registered biennially; see SLH 1988, Act 264, sec. 1.

3/ Fiscal year ending on June 30.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from data provided by the County departments of finance.

Table 18.23-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1998

[Average rates in dollars for nonresidents, including collision damage waiver insurance, reported by Avis, Hertz, National, and Alamo]

Date	Sub-compact	Compact	Mid-size	Full-size
October 18, 1989	37.93	38.92	43.68	48.94
August 13, 1990	39.97	46.46	49.71	57.21
August 28, 1991	30.62	34.19	37.44	43.19
September 3, 1992	46.49	45.96	50.71	57.96
September 8, 1993	44.73	45.99	49.49	56.99
January 20, 1995	54.23	54.98	61.23	67.23
November 18, 1998	33.00	33.50	38.50	44.99

Source: Information provided by listed companies.

**Table 18.24-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS
(SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES:
1992 AND 1996**

Subject	State total 1/		Counties (SIC 751)			
	SIC 751	SIC 7514	Honolulu	Hawaii	Kauai	Maui
1992						
No. of establishments	82	64	36	18	6	22
Receipts (mil. dol.)	332.1	320.0	195.0	38.6	23.6	74.8
1996 2/						
No. of establishments	72	54	35	12	5	20

1/ Most of the receipts for SIC 751 in 1992 were reported in SIC 7514, passenger car rental. Other subgroups under SIC 751 were SIC 7513, truck rental and leasing, without drivers; SIC 7515, passenger car leasing; and SIC 7519, utility trailer and recreational vehicle rental.

2/ Receipts are not available for 1996.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 6, and 7a, and *County Business Patterns 1996, Hawaii*, CBP-96-13 (November 1998), tables 1b and 2.

**Table 18.25-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES:
SEPTEMBER 1995**

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,345	8,228	223,693	5,518	31,481
Hawaii	119	1,167	36,840	1,391	4,462
Maui	219	1,786	45,926	849	3,979
Honolulu	908	4,517	120,924	2,862	19,990
Kauai	99	758	20,003	416	2,181

1/ Includes mostly tour bus operators; excludes public transit, school buses, taxicabs, and rental car companies.

2/ Includes truckers, moving companies, etc.

Source: Compiled by Hawaii State Department of Transportation, Motor Vehicle Safety Office, from Hawaii State Department of Commerce and Consumer Affairs, Public Utilities Commission.

Table 18.26-- PUBLIC TRANSIT, FOR OAHU: 1988 TO 1998

[Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage 1/	Total passengers 2/	Revenues (dollars)
1988	470	17,124,317	74,467,760	18,824,046
1989	475	17,525,608	74,964,453	18,843,083
1990	475	18,080,500	75,648,930	18,914,500
1991	475	18,308,282	76,540,997	19,283,803
1992	475	18,437,228	78,416,523	19,534,923
1993	495	18,507,642	79,343,403	20,751,058
1994	495	19,323,877	79,309,437	24,849,857
1995	525	19,277,975	80,837,153	26,960,330
1996	525	19,407,383	76,363,729	30,262,762
1997	525	19,748,202	74,407,852	29,572,046
1998	525	19,751,725	71,215,529	28,488,959

1/ Estimated number of vehicle miles.

2/ Estimated number of passengers, including senior citizens and disabled.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

**Table 18.27-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND
AVERAGE BUS SPEED, FOR OAHU: 1996 TO 1998**

[Calendar year data for City and County of Honolulu bus system]

Fare category	1996	1997	1998
All passengers	76,363,729	74,407,852	71,215,529
Adults, full fare	43,800,889	42,191,326	40,198,684
Students	12,898,855	12,657,287	12,175,435
School subsidy	397,578	419,266	475,208
Stadium express	6,341	6,792	5,832
Senior citizens and disabled	15,340,261	14,863,996	14,350,549
Free transfers	3,819,725	3,712,865	3,521,051
Visitor pass	100,080	532,294	488,770
Average bus speed (m.p.h.)	15.0	15.0	15.0

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

Table 18.28-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1998

[In dollars]

Effective date	Cash fares 1/		Monthly passes	
	Adult	School	Adult	School
March 1, 1971	.25	.15	...	...
March 2, 1971	.25	.10	...	...
June 9, 1972 2/	.25, .50	.10, .25	...	...
March 15, 1974	.25	.10	...	...
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 3/	1.00	.50	25.00	12.50

1/ In addition, there have been special fares for children, disabled persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated and later eliminated.

3/ Most recent change as of July, 1999.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

**Table 18.29-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1987 TO 1998**

[The Lahaina Kaanapali & Pacific Railroad operates between Lahaina and Kaanapali on the island of Maui and the Hawaiian Railway operates in the Ewa District on the island of Oahu]

Calendar year	Lahaina Kaanapali & Pacific Railroad		Hawaiian Railway		Calendar year	Lahaina Kaanapali & Pacific Railroad		Hawaiian Railway	
	Miles of track	Passengers	Miles of track	Passengers		Miles of track	Passengers	Miles of track	Passengers
1987	6.0	244,555	(NA)	(NA)	1993	6.0	388,484	(NA)	(NA)
1988	6.0	285,139	(NA)	(NA)	1994	6.0	390,862	5.0	1/ 12,821
1989	6.0	296,391	(NA)	(NA)	1995	6.0	447,211	6.5	16,704
1990	6.0	308,910	(NA)	(NA)	1996	6.0	418,099	6.5	19,678
1991	6.0	316,079	(NA)	(NA)	1997	6.0	369,327	6.5	20,850
1992	6.0	385,261	(NA)	(NA)	1998	6.0	(NA)	6.5	19,763

NA Not available.

1/ Data incomplete.

Source: Lahaina Kaanapali & Pacific Railroad, records; Hawaiian Railway, records.

**Table 18.30-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
1995 TO 1997**

[As of December 31]

Island	Airports 1/				Heliports 2/	
	State 3/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
1995						
State total	9	7	5	-	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	-	1
Kauai	2	1	-	-	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	-	-	1	-	-	-
1996						
State total	9	7	5	-	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	-	1
Kauai	2	1	-	-	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	-	-	1	-	-	-

Continued on next page.

**Table 18.30-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
1995 TO 1997 -- Con.**

Island	Airports 1/				Heliports 2/	
	State 3/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
1997						
State total	9	7	4	-	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	-	1
Kauai	2	1	-	-	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	1	-	-	-	-	-

1/ Excludes private airports.

2/ Excludes military and private heliports.

3/ Three airports classified as general aviation fields (Waimea-Kohala, Hana, and Kalaupapa) provide regular air service.

4/ Owned by the U.S. Department of the Interior, Fish and Wildlife Service.

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.31-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN
OPERATIONS AND ENPLANED PASSENGERS: 1991 TO 1993 AND 1996**

Subject	Rank 1/				Number			
	1991	1992	1993	1996	1991	1992	1993	1996
Total aircraft operations	16	22	24	26	403,570	403,708	358,543	372,099
Air carrier operations	21	21	23	22	196,047	202,559	185,959	203,520
Total enplaned passengers 2/	15	15	19	23	8,772,316	8,740,091	8,484,364	9,124,893

1/ Among all FAA-operated airport traffic control towers in the United States.

2/ For large scheduled certificated air carriers, both scheduled and nonscheduled operations.

Source: U.S. Department of Transportation, Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual).

Table 18.32-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 1995 TO 1997

[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	All movements	Air carrier	Air taxi	General aviation	Military
1995					
Honolulu International	373,926	198,248	71,703	80,522	23,453
Hilo International	84,917	21,402	33,084	22,384	8,047
Kahului	179,883	65,791	80,349	30,691	3,052
Lihue	97,400	27,788	56,024	9,597	3,991
Kona International	73,537	25,436	17,556	21,444	9,101
Molokai	45,517	1,194	30,365	9,460	4,498
1996					
Honolulu International	372,268	203,671	62,516	82,541	23,540
Hilo International	87,862	21,109	36,228	22,845	7,680
Kahului	178,590	67,136	78,722	29,976	2,756
Lihue	106,332	29,246	60,489	12,705	3,892
Kona International	77,025	29,195	16,556	21,591	9,683
Molokai	49,221	1,003	34,753	10,744	2,721
1997					
Honolulu International	358,784	185,557	61,894	87,584	23,749
Hilo International	101,521	21,616	47,229	25,020	7,656
Kahului	173,342	64,599	81,105	25,211	2,427
Lihue	111,349	29,996	60,267	17,259	3,827
Kona International	87,358	27,462	14,954	37,549	7,393
Molokai	44,667	1,017	31,290	10,844	1,516

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.33-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1987 TO 1997**

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu Inter- national Airport	Hilo Inter- national Airport 1/	Kona International Airport 2/	Kahului Airport	Lihue Airport	Molokai Airport
1987	385,275	80,123	67,497	165,920	134,495	50,829
1988	377,919	85,267	56,584	173,053	122,268	50,456
1989	403,635	93,202	55,674	177,803	116,742	47,208
1990	407,048	98,755	60,086	182,686	113,860	43,509
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

1/ Formerly General Lyman Field; new name became effective July 1, 1989.

2/ Formerly Keahole Airport; new name became effective April 26, 1993.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.34-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS SERVING HAWAII: 1994 TO 1997

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines and other air taxi service]

Service	1994	1995	1996	1997
All carriers	46	44	39	40
Transpacific only	28	26	24	25
Domestic	11	12	12	12
Foreign	17	14	12	13
Transpacific and interisland	5	4	5	6
Interisland only	13	14	10	9
Passenger carriers	9	11	6	6
Cargo and mail only	4	3	4	3

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.35-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR
ARRIVING FLIGHTS: 1989 TO 1998**

Year 1/	Total	Westbound and southbound	Eastbound and northbound
1989	9,651,494	6,397,104	3,254,390
1990	10,345,753	6,500,170	3,845,583
1991	10,503,204	6,403,299	4,099,905
1992	9,955,705	5,603,600	4,352,105
1993	9,190,970	5,129,637	4,061,333
1994	9,002,630	5,191,824	3,810,806
1995	9,055,953	5,214,698	3,841,255
1996	9,297,363	5,408,371	3,888,992
1997	9,345,041	5,357,752	3,987,289
1998	8,789,685	5,322,048	3,467,637

1/ 1989-94: Revised, Hawaii Visitors and Convention Bureau, records. 1995-97: Special report prepared for the Hawaii Visitors and Convention Bureau by Reed Travel Group.

Source: Hawaii Visitors and Convention Bureau.

Table 18.36-- CIVIL FLYING: 1990 TO 1993 and 1996

Item	1990	1991	1992	1993	1996
Aircraft facilities, Dec. 31	50	48	47	47	46
Airports	34	33	32	32	30
Heliports	16	15	15	15	16
Public aircraft facilities, Dec. 31	16	17	17	18	18
Paved and lighted facilities, Dec. 31	12	12	13	13	13
Large aircraft in operation, Dec.	52	56	59	50	(NA)
Aloha Airlines	17	19	21	17	(NA)
Hawaiian Airlines	35	29	29	24	(NA)
Mid Pacific Airlines	-	8	9	9	(NA)
General aviation: 1/					
Active civil aircraft, Dec.	561	484	372	312	364
Hours flown (1,000)	278	259	176	140	155
Active personnel, Dec. 31:					
Pilots, except instructors	3,505	3,339	3,293	3,088	2,561
Flight instructors	309	350	388	360	378
Nonpilot airmen 2/	3,306	3,492	3,711	3,828	3,850

N/A Not available.

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1996, 34.6 percent for aircraft and 52.3 percent for hours).

2/ Mechanics, parachute riggers, ground instructors, dispatchers, flight navigators, and flight engineers.

Source: U.S. Department of Transportation, Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual).

**Table 18.37-- SELECTED STATISTICS FOR ALOHA AND HAWAIIAN
AIRLINES: 1993 AND 1997**

Subject	Aloha Airlines		Hawaiian Airlines	
	1993	1997	1993	1997
Number of aircraft	16	17	20	22
Employees, full-time equivalent	1,775	1,901	2,360	2,357
Aircraft departures	71,694	76,617	54,846	49,827
Passengers (1,000)	4,704	5,191	4,327	4,938
Revenue passenger miles (million)	629	721	2,868	3,134
Passenger revenues (million dollars)	175	195	264	332
Cargo revenues (million dollars)	31	30	13	20
Operating revenues (million dollars)	214	233	304	404
Operating profit/loss (million dollars)	3	6	(10)	2
Net profit/loss (million dollars)	1	4	(69)	(1)

Source: Air Transport Association, annual report, internet site <http://www.air-transport.org/data/ff.htm>

Table 18.38-- HAWAII LOCATIONS AMONG THE TOP 30 DOMESTIC AIRLINE MARKETS: 1997

[Includes all commercial airports in a metropolitan area.
Does not include connecting passengers.]

Rank	Origin or destination	Passengers (1,000)
5	Honolulu - Kahului	2,620
15	Honolulu - Lihue	1,696
18	Honolulu - Kona	1,493
22	Honolulu - Los Angeles	1,423
26	Honolulu - Hilo	1,250

Source: Air Transport Association, *1998 ATA Annual Report*.
Internet site <http://www.air-transport.org/data/ff98/ff98.htm>

**Table 18.39-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1987 TO 1997**

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Overseas passengers 1/			Inter-island passenger arrivals
	Arrivals	Departures	Through	
1987	6,265,211	6,317,747	1,109,850	8,802,594
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

1/ Includes West Coast, Canada, Europe, and the Central and South Pacific.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.40-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1997

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	2/ 7,874,798	7,788,367	212,495	181,799	25,606	55,168
Honolulu	2/ 6,941,107	6,740,962	201,757	174,411	25,437	55,144
Hilo	-	-	-	-	-	-
Kahului	770,110	828,364	6,988	5,772	167	23
Keahole-Kona	157,671	213,268	3,750	1,616	-	-
Lihue	5,910	5,773	-	-	2	1
INTERISLAND						
Total	10,448,099	10,448,099	86,577	86,577	15,636	15,636
Honolulu	4,645,878	4,846,369	49,983	29,242	10,317	5,284
Hilo	819,946	849,368	15,774	11,966	1,251	2,268
Upolu	-	9	-	-	-	-
Waimea-Kohala	1,300	830	54	21	48	121
Keahole-Kona	1,175,607	1,081,611	7,284	11,966	823	1,399
Kahului	2,208,703	2,070,434	8,984	22,122	2,195	4,643
Hana	5,126	4,955	1	-	-	-
Kapalua	88,485	89,444	236	482	-	-
Molokai	125,471	126,766	263	710	31	35
Kalaupapa	4,393	4,232	1	6	-	-
Lanai	88,777	89,626	154	721	37	31
Lihue	1,284,323	1,284,337	3,843	9,341	934	1,855
Princeville 3/	90	118	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).

2/ Excludes overseas passengers in transit (706,030, passing through Honolulu International Airport).

3/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.41-- AIR CARGO AND AIRMAIL: 1987 TO 1997

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
1987	234,098	212,717	23,560	29,004	122,481	17,561
1988	284,783	247,174	27,764	31,028	130,203	18,847
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

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.42-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1995**

[Data for the 548 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Northern hemisphere			
Toronto	10	10	-
Atlanta	12	5	7
Chicago	28	14	14
St. Louis	7	7	-
Dallas/Fort Worth	21	21	-
Denver	7	-	7
Las Vegas	21	7	14
Los Angeles	143	143	-
Seattle	21	21	-
Portland	11	4	7
San Francisco	61	61	-
Vancouver	15	15	-
Guam	10	10	-
Sapporo	5	5	-
Sendai	1	1	-
Tokyo, Narita	77	63	14
Nagoya	14	14	-
Osaka, Kansai	31	31	-
Fukuoka	14	14	-
Seoul	24	24	-
Taipei	12	7	5
Manila	19	14	5
Southern hemisphere			
Papeete	1	1	-
Pago Pago	2	2	-
Nadi	3	3	-
Auckland	11	7	4
Sydney	11	4	7
Denpasar	5	5	-

1/ By longitude going west.

Source: Greeters of Hawaii, *Jiffisked* ^[tm] July 1995. Courtesy of Greeters of Hawaii, Ltd., P.O. Box 29638, Honolulu, HI 96820.

**Table 18.43-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1996**

[Data for the 587 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Northern hemisphere			
Toronto	10	10	-
Detroit	21	21	-
Atlanta	14	14	-
Chicago	37	14	23
St. Louis	9	9	-
Minneapolis	14	14	-
Dallas/Fort Worth	21	21	-
Denver	14	14	-
Las Vegas	13	6	7
San Diego	14	14	-
Los Angeles	151	151	-
Seattle	21	21	-
San Francisco	73	73	-
Vancouver	17	17	-
Guam	13	13	-
Sapporo	7	7	-
Sendai	3	3	-
Tokyo, Narita	80	80	-
Tokyo, Haneda	5	5	-
Nagoya	14	14	-
Osaka, Kansai	31	31	-
Hiroshima	1	1	-
Fukuoka	14	14	-
Seoul	31	24	7
Taipei	6	6	-
Manila	13	13	-
Bangkok	7	7	-

Continued on next page.

**Table 18.43-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1996 -- Con.**

[Data for the 587 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Southern hemisphere			
Papeete	1	1	-
Rarotonga	1	1	-
Pago Pago	3	3	-
Apia	1	1	-
Tongatapu	1	1	-
Nadi	5	5	-
Auckland	12	5	7
Sydney	10	10	-
Melbourne	7	7	-
Denpasar	5	5	-

1/ By longitude going west.

Source: Greeters of Hawaii, *Jiffisked*^[tm] July 1996. Courtesy of Greeters of Hawaii, Ltd.,
P.O. Box 29638, Honolulu, HI 96820.

**Table 18.44-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1997**

[Data for the 565 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Northern hemisphere			
Toronto	10	10	-
Detroit	7	7	-
Atlanta	14	7	7
Chicago	23	14	9
St. Louis	7	7	-
Minneapolis	7	7	-
Dallas/Fort Worth	21	21	-
Denver	14	7	7
Phoenix	2	-	2
Las Vegas	14	7	7
San Diego	14	14	-
Los Angeles	137	137	-
Seattle	35	28	7
Portland	7	7	-
San Francisco	88	88	-
Vancouver	15	15	-
Anchorage	1	1	-
Guam	10	10	-
Sapporo	7	7	-
Sendai	5	5	-
Tokyo, Narita	79	65	14
Tokyo, Haneda	5	5	-
Nagoya	14	14	-
Osaka, Kansai	35	35	-
Hiroshima	1	1	-
Fukuoka	14	14	-
Seoul	31	31	-
Taipei	11	11	-
Manila	9	9	-
Bangkok	7	7	-

Continued on next page.

**Table 18.44-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1997 -- Con.**

[Data for the 565 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Southern hemisphere			
Papeete	1	1	-
Rarotonga	1	1	-
Pago Pago	2	2	-
Apia	1	1	-
Tongatapu	1	1	-
Nadi	5	5	-
Auckland	10	10	-
Sydney	7	7	-
Melbourne	7	7	-
Denpasar	5	5	-

1/ By longitude going west.

Source: Greeters of Hawaii, *Jiffisked* ^[tm] July 1997. Courtesy of Greeters of Hawaii, Ltd., P.O. Box 29638, Honolulu, HI 96820.

**Table 18.45-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1998**

[Data for the 498 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Northern hemisphere			
Boston	7	7	-
Newark	7	7	-
Toronto	6	6	-
Detroit	21	21	-
Atlanta	14	7	7
Chicago	9	7	2
St. Louis	7	7	-
Minneapolis	7	7	-
Houston	7	7	-
Dallas/Fort Worth	21	21	-
Denver	7	-	7
Phoenix	2	-	2
Las Vegas	15	7	8
San Diego	9	9	-
Los Angeles	123	123	-
Seattle	21	21	-
San Francisco	67	67	-
Vancouver	16	16	-
Anchorage	2	2	-
Majuro	1	1	-
Guam	2	2	-
Sapporo	7	7	-
Sendai	6	6	-
Tokyo, Narita	60	60	-
Tokyo, Haneda	5	-	5
Nagoya	14	14	-
Osaka, Kansai	28	28	-
Hiroshima	2	2	-
Fukuoka	7	7	-
Seoul	7	7	-
Taipei	13	13	-
Manila	2	2	-

Continued on next page.

**Table 18.45-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1998 -- Con.**

[Data for the 587 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Southern hemisphere			
Papeete	1	1	-
Rarotonga	1	1	-
Pago Pago	3	3	-
Apia	1	1	-
Tongatapu	1	1	-
Nadi	4	4	-
Auckland	13	13	-
Sydney	7	7	-
Melbourne	7	7	-
Marana	2	2	-

1/ By longitude going west.

Source: Greeters of Hawaii, *Jiffisked*^[tm] July 1998. Courtesy of Greeters of Hawaii, Ltd.,
P.O. Box 29638, Honolulu, HI 96820.

**Table 18.46-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1999**

[Data for the 588 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Northern hemisphere			
London	7	7	-
Newark	7	7	-
Toronto	12	12	-
Tampa	7	7	-
Detroit	7	7	-
Atlanta	14	14	-
Chicago	16	16	-
St. Louis	7	7	-
Minneapolis	14	14	-
Houston	7	7	-
Dallas/Fort Worth	29	22	7
Denver	14	-	14
Salt Lake City	7	7	-
Phoenix	2	2	-
Las Vegas	15	15	-
Los Angeles	117	81	36
Seattle	26	19	7
San Francisco	69	55	14
Portland	7	7	-
Vancouver	17	17	-
Anchorage	2	2	-
Guam	12	12	-
Sapporo	7	7	-
Sendai	6	6	-
Tokyo, Narita	60	60	-
Tokyo, Haneda	5	5	-
Niigata	1	1	-
Nagoya	7	7	-
Osaka, Kansai	28	28	-
Hiroshima	2	2	-
Fukuoka	7	7	-
Seoul	7	7	-
Taipei	12	12	-

Continued on next page.

**Table 18.46-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1999 -- Con.**

[Data for the 588 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Southern hemisphere			
Papeete	1	1	-
Rarotonga	1	1	-
Pago Pago	3	3	-
Apia	1	1	-
Tongatapu	1	1	-
Nadi	4	2	2
Auckland	13	13	-
Sydney	7	7	-

1/ By longitude going west.

Source: Greeters of Hawaii, *Jiffisked*^[m] July 1999. Courtesy of Greeters of Hawaii, Ltd., P.O. Box 29638, Honolulu, HI 96820.

**Table 18.47-- AIR FARES BETWEEN HONOLULU AND SELECTED MAINLAND
CITIES, BY UNITED AIRLINES: 1993 TO 1998**

[As of July 1. Unrestricted one-way weekday coach fares in dollars]

Between Honolulu and--	1993	1994	1995	1996	1997	1998 1/
San Francisco	566	566	596	530	521	521
Los Angeles	586	586	716	530	521	521
Chicago	886	886	916	-	925	924

1/ As of July 27.

Source: United Airlines, Customer Relations, records.

Table 18.48-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1993 TO 1998

[As of July 1. Prior to May 21, 1997, fares were identical between Honolulu and each of the Neighbor Islands]

Category	1993	1994	1995	1996	1997 1/		1998
					Zone 1	Zone 2	
Regular fare	74	74	74	85	78	80	88
Kamaaina fare: 2/							
Monday - Thursday	51	56	56	48	45	47	3/ 55
Friday - Sunday	59	64	64	48	47	49	3/ 57

1/ Fares based upon zones were used for only a short period of time.

2/ Available only to Hawaii residents.

3/ Lowest of three levels of kamaaina fares.

Source: Hawaiian Airlines, records.

Table 18.49-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR MAJOR AIRLINES: JULY 2-8, 1998

[Dollars. Includes taxes but does not reflect \$3.00 airport charge where applicable]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class	986	1/ 1,229	986
Coach (unrestricted)	522	1/ 522	522
United Airlines, round-trip:			
First class	1,975	2,458	2,626
Coach (unrestricted)	878	1,044	1,020
Major carriers, lowest round-trip: 2/			
United Airlines	497	494	447
Lowest carrier	497	494	447
Highest carrier	497	494	680

1/ For annual midyear (July 1) data on United Airlines unrestricted one-way coach fares, 1980-1997, see *Data Book 1997*, table 7.29. For earlier years, see Robert C. Schmitt, *What People Paid to Travel* (Hawaiian Historical Society, January 1991), table 12, pp. 40-41.

2/ Restrictions apply. Fares are subject to change without notice. Payment up to 21 days before travel may be required. Fare may not be available for travel on certain days of the week or holidays.

Source: *Honolulu Star-Bulletin*, July 3, 1998, p. D-1; United Airlines, records.

Table 18.50-- STATE COMMERCIAL HARBORS: 1997

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,787	122	566
Kawaihae	40	35	1,500	1,450	1,562	23	427
Maui:							
Kahului	35	35	2,400	2,050	3,019	86	888
Molokai:							
Kaunakakai	23	23	1,500	600	691	7.4	129
Oahu:							
Honolulu: 1/ Main	} 45	40	{ 3,300	1,520	} 29,308	1,380	8,460
Kapalama							
Barbers Point	42	38	2,100	1,800	1,860	-	1,647
Kauai:							
Nawiliwili	40	35	1,950	1,540	2,068	70	1,379
Port Allen	35	35	1,500	1,200	1,200	35	32

1/ The piers were 28,631 linear feet in 1996. All other figures in this table are identical in 1996 and 1997.
 Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 18.51-- HARBOR DEPTHS: 1996

[In feet]

Harbor	Controlling depth		Project depth	
	Entrance channel	Basin	Entrance channel	Basin
Hilo	...	34	...	35
Kawaihae	42	36	40	35
Kahului	...	34	...	35
Honolulu	45	40	45	40
Barbers Point	42	37	42	38
Nawiliwili	41	34	40	35

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1996*, Part 4 (November 1997), pp. 49-56.

**Table 18.52-- SMALL CRAFT MOORING FACILITIES,
BY ISLANDS: SEPTEMBER 30, 1995**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,738	1,604	504	421	520	365
Hawaii	251	250	159	120	85	85
Maui	76	73	172	165	91	91
Oahu	1,329	1,208	154	123	344	189
Kauai	82	73	19	13	-	-

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly).

**Table 18.53-- SMALL CRAFT MOORING FACILITIES,
BY ISLANDS: DECEMBER 31, 1996**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,819	1,645	407	353	493	385
Hawaii	251	243	119	105	37	76
Maui	135	132	112	111	128	106
Oahu	1,317	1,160	153	119	216	203
Kauai	116	110	27	18	112	-

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly).

**Table 18.54-- SMALL CRAFT MOORING FACILITIES,
BY ISLANDS: DECEMBER 31, 1997**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,842	1,583	432	530	424	303
Hawaii	274	267	146	134	16	45
Maui	135	132	110	107	94	71
Oahu	1,317	1,086	153	272	202	186
Kauai	116	98	23	17	112	1

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly).

**Table 18.55-- SMALL CRAFT MOORING FACILITIES,
BY ISLANDS: DECEMBER 31, 1998**

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,821	1,649	331	322	472	307
Hawaii	302	297	47	82	28	32
Maui	135	134	111	108	130	102
Oahu	1,268	1,125	152	118	202	167
Kauai	116	93	21	14	112	6

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly).

**Table 18.56-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS:
1998**

[Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

Island	Number of aids to navigation				Greatest nominal range (naut. miles)	Highest above--	
	By control			Light-houses		Sea level (feet)	Ground (feet)
	Total	Federal	Other 1/				
Total	559	293	266	20	2/ 25	3/ 913	4/ 138
Hawaii	78	50	28	8	24	156	115
Maui	53	23	30	2	24	170	48
Molokini	1	1	-	-	7	182	30
Kahoolawe	3	1	2	-	7	120	20
Lanai	14	8	6	1	8	91	13
Molokai	18	11	7	5	25	213	138
Oahu	325	154	171	4	25	913	71
Kauai	47	25	22	-	25	174	80
Niihau	-	-	-	-	-	-	-
Lehua	1	1	-	-	7	704	10
Midway	19	19	-	-	4	43	38
At sea	78	10	68	-	-	-	-

1/ State and private. Includes State-maintained fish aggregating buoys at sea.

2/ Molokai Light, Kaena Point Light, and Kilauea Light.

3/ Kaena Point Light.

4/ Molokai Light.

Source: 14th Coast Guard District, records.

**Table 18.57-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1997**

Subject	Number	Subject	Number
Certificates outstanding	15,138	Type of vessel:	
Length:		Cabin motorboat	2,540
Under 16 feet	5,873	Open motorboat	5,567
16 to less than 26 feet	7,529	Runabout	2,877
26 to less than 40 feet	1,532	Sail/inboard	660
40 to 65 feet	188	Sail/outboard	605
Over 65 feet	16	Sail only	698
Hull material:		Motor vessel over 65 feet	5
Wood	807	Thrill craft under 16 feet	1,070
Fiberglass	12,553	Other	1,116
Metal	552	Uses:	
Inflatable	988	Pleasure	13,691
Other	238	Commercial fishing	441
Propulsion:		Charter fishing	20
Inboard	938	Commercial passenger	255
Outboard	8,704	Other commercial	84
Inboard/outboard	2,274	Livery	243
Sail/inboard	652	Dealer or manufacturer	23
Sail/outboard	597	Youth group	72
Sail only	689	Government	269
Manual	191	Other	40
Waterjet	1,052	Island where vessel is kept:	
Other	41	Hawaii	2,235
Type of storage:		Kauai	1,552
Moored on water	4,031	Lanai	92
Moored on land	11,107	Maui	1,509
		Molokai	182
		Oahu	9,568

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

**Table 18.58-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN
HAWAII: 1991 TO 1997**

Category	1991	1992	1993	1994	1995	1996	1997
Documented 1/ Numbered 2/	1,775 13,592	(NA) 13,973	(NA) 13,832	(NA) 13,839	(NA) 14,470	(NA) 15,177	(NA) 15,138

NA Not available.

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. As of June 30 through 1990 and December 4, 1991. Series discontinued after 1991.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. 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.

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration (annual)*.

Table 18.59-- BOATING ACCIDENTS: 1989 TO 1998

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured, not fatally		
1989	40	1	1	28	48	216.8
1990	21	2	3	6	25	271.7
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)

NA Not available.

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics* (annual); Hawaii State Department of Transportation, Harbors Division, Boating Branch, *Reportable Boating Accident Statistics for Period 1988 to 1990* and *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 1991 through 1993*; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, records.

Table 18.60-- VESSEL ARRIVALS, BY DRAFT: 1995 AND 1996

[Excludes domestic fishing craft]

Harbor	1995			1996		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	835	798	37	897	844	53
Kawaihae	705	703	2	734	726	8
Kahului	1,238	1,211	27	1,333	1280	53
Kaunakakai	1,802	1,802	-	1,282	2/ 1282	-
Kalaupapa	31	31	-	5	5	-
Honolulu	7,999	6,215	1,784	7,972	6,259	1,713
Barbers Point	1,227	1,096	131	1,160	1,035	125
Nawiliwili	620	593	27	664	630	34
Port Allen	299	1/ 299	-	379	3/ 379	-

1/ 29 feet and less.

2/ 21 feet and less.

3/ 23 feet and less.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual), Part 4.

**Table 18.61-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF
HONOLULU: 1984 TO 1998**

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Cargo tonnage	Number	Cargo tonnage
1984	1,686	4,870,182	2,660	2,369,863
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

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.62-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS
AND DEPARTURES, FOR HONOLULU HARBOR: 1993 TO 1998**

[Fiscal years ended June 30]

Type of passenger	1993	1994	1995	1996	1997	1998
Overseas:						
In	14,712	14,502	17,517	14,851	18,262	25,570
Out	14,942	14,502	17,957	16,128	17,527	28,932
Interisland:						
In	61,563	68,229	68,699	44,982	46,825	43,522
Out	61,563	68,229	68,849	45,159	40,558	43,754

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.63-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1986 TO 1996**

[1,000 short tons. Excludes cargo carried by Army and Navy vessels and cargo in transit]

Year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
1986	1,199	592	1,627	8,604	5,629	745
1987	1,366	871	2,035	9,737	7,135	916
1988	1,456	655	2,157	10,655	7,511	876
1989	1,569	732	2,279	10,360	7,374	1,038
1990	1,690	887	2,409	11,341	8,034	959
1991	1,556	745	2,434	11,208	9,002	1,005
1992	1,588	790	2,357	11,522	8,824	1,143
1993	1,469	655	2,216	10,595	9,357	1,283
1994	1,455	736	2,368	11,672	9,022	1,151
1995	1,354	873	2,586	11,545	8,233	1,130
1996	1,442	969	2,828	12,010	8,745	1,203

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, Calendar Year 1990, Part 4, pp. 82-101 and 1996, Part 4, pp. 49-57.

Table 18.64-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1996

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,442	969	2,828	12,010	8,745	1,203
Foreign, except Canadian:						
Imports	84	-	67	1,423	4,545	-
Exports	1	-	-	189	759	-
Canadian:						
Imports	-	-	9	48	-	7
Exports	-	-	-	-	-	-
Domestic, total	1,357	969	2,752	10,350	3,441	1,197
Coastwise: 1/						
Receipts	951	732	1,686	5,632	2,731	599
Shipments	405	237	1,065	4,612	702	598
Internal, total 2/	-	-	-	107	8	-

1/ Includes both interisland and interstate.

2/ Includes intraport.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1996*, Part 4 (November 1997), pp. 49-58.

**Table 18.65-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1996**

[In thousands of short tons]

Port and commodity 1/	Total	Receipts 2/	Shipments 3/
Hilo	1,442	1,035	406
Fabricated non-ferrous metal products	532	281	250
Kawaihae	969	732	237
Fabricated non-ferrous metal products	577	442	135
Kahului	2,828	1,762	1,065
Petroleum and petroleum products	414	414	-
Fabricated non-ferrous metal products	1,039	569	469
Food and farm products	553	151	402
Manufactured equipment, machinery, products	450	298	152
Kaunakakai	205	(NA)	(NA)
Honolulu	12,010	7,103	4,908
Petroleum and petroleum products	2,555	1,926	629
Fabricated non-ferrous metal products	2,971	1,318	1,652
Food and farm products	2,506	1,629	878
Vehicles and parts	894	398	496
Barbers Point	8,745	7,276	1,469
Petroleum and petroleum products	7,858	6,556	1,303
Nawiliwili	1,203	606	598
Fabricated non-ferrous metal products	567	280	287
Food and farm products	300	73	227

NA Not available.

1/ Shown separately for commodities of 300,000 or more tons.

2/ Includes foreign imports and coastwise receipts.

3/ Includes foreign exports and coastwise, internal and intraport shipments.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1996*, Part 4 (November 1997), pp. 49-58.

**Table 18.66-- TRANSPORTATION, COMMUNICATION, AND UTILITY
INDUSTRIES, WITH AND WITHOUT PAYROLL: 1992**

SIC code	Kind of business	Number of establishments			Revenue (million dollars)		
		Total	With payroll	Without payroll	Total	With payroll	Without payroll
41	Passenger transportation	1,534	117	1,417	205	179	26
42	Motor freight transportation, warehousing	601	312	289	404	393	11
44	Water transportation	147	97	50	453	452	1
45pt.	Air transportation 1/	164	113	51	415	412	3
46	Pipelines, exc. natural gas	-	-	-	-	-	-
47	Transportation services	1,477	626	851	421	401	20
48	Communications	311	211	100	926	924	2
49	Electric, gas, sanitary services	90	57	33	946	944	1

1/ Data exclude large, certificated passenger carriers that report to the Office of Airline Statistics.

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities, Nonemployer Statistics Series, Summary*, UC92-N-1 (March 1995), table 3.

**Table 18.67-- SHIPMENT CHARACTERISTICS BY STATES OF ORIGIN AND
DESTINATION: 1993**

Characteristics	Value (million dollars)	Tons (thousands)	Ton-miles (millions)
Total originating in Hawaii	11,462	24,748	(S)
Destination:			
Hawaii	10,616	22,071	700
Other states	846	2,677	(S)
California	578	1,472	3,818
Washington	32	90	256
Rest of U.S.	236	1,115	(S)
Mode of transportation:			
Single modes:			
Truck	7,033	12,549	155
Air	110	(S)	(S)
Other	(D)	(D)	(D)
Multiple modes:			
Truck and air	284	39	21
Truck and water	676	1,131	1,994
Other multiple	(S)	(S)	(S)
Other and unknown modes	1,469	(S)	(S)
Distance shipped:			
Less than 50 miles	8,848	19,890	282
50 to 1,999 miles	1,768	2,182	(S)
2,000 miles or more	847	2,676	(S)
Commodity:			
Farm products	555	387	(S)
Food or kindred products	2,882	3,015	2,837
Chemicals or allied products	969	(S)	(S)
Petroleum or coal products	2,849	12,901	(S)
Transportation equipment	531	53	-
Other commodities	3,676	(S)	(S)

(D) Withheld to avoid disclosing data for individual companies.

(S) Data do not meet publication standards due to high sampling variability or other reasons.

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities, 1993 Commodity Flow Survey, Hawaii*, TC92-CF-12 (March 1996), pp. 3, 4, 10, 23.

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 6 (land use), 12 and 15 (agricultural employment and earnings), and 22 (food processing).

Important sources for data on agriculture include the *United States Census of Agriculture*, most recently published for 1997, the annual report on *Statistics of Hawaiian Agriculture* issued by the Hawaii Agricultural Statistics Service, and 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 Land and Natural Resources. Agricultural data for earlier years are summarized in *Historical Statistics of Hawaii*, Section 13. National statistics appear in Section 23 of the *Statistical Abstract of the United States: 1998*.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1992 AND 1997**

Item		1992	1997
Farms	number	5,336	5,473
Land in farms	acres	1,588,843	1,439,071
Average size of farm	acres	298	263
Value of land and buildings:			
Average per farm	dollars	722,189	632,281
Average per acre	dollars	2,425	2,405
Estimated market value of all machinery and equipment:			
Average per farm	dollars	53,207	38,709
Farms by size:			
1 to 9 acres		3,410	3,456
10 to 49 acres		1,342	1,417
50 to 179 acres		313	318
180 to 499 acres		133	139
500 to 999 acres		34	43
1,000 acres or more		104	100
Total cropland			
	farms	4,735	4,882
	acres	293,371	292,107
Harvested cropland			
	farms	4,472	4,594
	acres	136,431	100,094
Irrigated land			
	farms	2,220	2,241
	acres	134,338	76,971
Market value of agricultural products sold			
Average per farm	\$1,000 dollars	552,054	496,935
Crops, including nursery and greenhouse crops	\$1,000	103,458	90,798
Livestock, poultry, and their products	\$1,000	453,410	401,411
		98,644	95,524
Farms by value of sales:			
Less than \$2,500		1,790	1,638
\$2,500 to \$4,999		754	743
\$5,000 to \$9,999		715	797
\$10,000 to \$24,999		863	989
\$25,000 to \$49,999		484	535
\$50,000 to \$99,999		291	323
\$100,000 or more		439	448

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**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1992 AND 1997 -- Con.**

Item		1992	1997
Total farm production expenses	\$1,000	466,826	398,567
Average per farm	dollars	87,486	(NA)
Net cash return from agriculture sales for the farm unit	farms	5,336	(NA)
Average per farm	\$1,000 dollars	85,228 15,972	(NA) (NA)
Operators by principal occupation:			
Farming		2,926	3,052
Other		2,410	2,421
Operators by days worked off farm:			
Any		2,864	2,827
200 days or more		1,487	1,566
Livestock and poultry:			
Cattle and calves inventory	farms	874	829
	number	191,230	181,732
Beef cows	farms	655	625
	number	87,620	93,711
Milk cows	farms	57	44
	number	10,816	8,389
Cattle and calves sold	farms	699	660
	number	82,788	66,726
Hogs and pigs inventory	farms	253	248
	number	28,570	29,440
Hogs and pigs sold	farms	200	190
	number	47,831	38,066
Sheep and lambs inventory	farms	62	(NA)
	number	22,938	(NA)
Chicken inventory 1/	farms	177	140
	number	935,278	726,534
Broilers and other meat-type chickens sold	farms	14	9
	number	1,201,331	478,672

Continued on next page.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1992 AND 1997 -- Con.**

Item		1992	1997
Selected crops harvested:			
Sugarcane for sugar	farms	31	13
	acres	62,915	31,483
	tons	5,488,214	2,873,712
Pineapples harvested	farms	21	27
	acres	15,500	12,992
	tons	556,748	348,428
Vegetables harvested	farms	602	657
	acres	5,129	6,549
Land in orchards	farms	2,537	2,786
	acres	38,590	37,906

1/ Data for 1992 are for chickens 3 months old or older inventory.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *1997 Census of Agriculture, Vol.1, Part 11, Hawaii* (March 1999), table 1, pp. 10-11.

Table 19.02-- FARMS AND LAND IN FARMS, FOR COUNTIES: 1997

Item		Hawaii	Honolulu	Kauai	Maui
Farms	number	3,319	880	468	806
Land in farms	acres	870,012	79,927	197,042	292,090
Average size of farm	acres	262	91	421	362
Value of land and buildings:					
Average per farm	dollars	574,464	565,361	847,704	818,342
Average per acre	dollars	2,192	6,225	2,013	2,258
Estimated market value of all machinery and equipment:					
Average per farm	dollars	21,997	33,250	81,111	88,989
Farms by size:					
1 to 9 acres		2,062	664	262	468
10 to 49 acres		893	156	135	233
50 to 179 acres		207	28	35	48
180 to 499 acres		71	17	22	29
500 to 999 acres		32	3	3	5
1,000 acres or more		54	12	11	23
Total cropland	farms	3,035	777	386	684
	acres	102,991	29,237	(D)	(D)
Harvested cropland	farms	2,897	749	343	605
	acres	32,410	15,355	20,086	32,243
Irrigated land	farms	857	629	275	480
	acres	7,425	16,303	18,212	35,031
Market value of agricultural products sold					
Average per farm	\$1,000	168,111	142,965	57,474	128,385
	dollars	50,651	162,460	122,808	159,287
Crops, including nursery and greenhouse crops	\$1,000	129,018	103,477	52,832	116,084
Livestock, poultry, and their products	\$1,000	39,094	39,488	4,642	12,301

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *1997 Census of Agriculture, Vol.1, Part 11, Hawaii* (March 1999), p.150.

**Table 19.03-- NUMBER OF FARMS, FARM ACREAGE, AND FARM
EMPLOYMENT: 1980 TO 1997**

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members 3/	Hired workers
1980	4,300	1,970	3,400	1,100	10,550
1981	4,400	1,965	3,100	900	10,500
1982	4,500	1,960	2,600	1,300	13,000
1983	4,500	1,900	2,500	1,500	13,000
1984	4,600	1,850	2,200	1,300	11,800
1985	4,600	1,800	2,200	1,200	10,600
1986	4,600	1,750	2,050	1,200	9,700
1987	4,650	1,720	2,600	1,100	10,700
1988	4,650	1,720	2,600	1,100	10,300
1989	4,650	1,720	2,400	1,100	9,800
1990	4,700	1,680	2,500	1,000	9,600
1991	4,700	1,630	3,100	1,100	9,600
1992	4,800	1,590	3,100	1,300	9,500
1993 4/	5,200	1,560	2,800	1,100	8,700
1994 4/	5,300	1,530	2,700	1,200	8,100
1995 4/	5,300	1,470	2,700	1,000	7,300
1996 4/	5,400	1,440	2,700	1,000	7,400
1997	5,500	1,440	2,700	1,200	7,000

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/ Number of farms and Hired workers numbers for 1993-96 have been revised from previous year databook.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.04-- VALUE OF CROP AND LIVESTOCK SALES: 1980 TO 1997

[\$1,000]

Year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	
1980	634,101	552,877	385,100	76,596	91,181	81,224
1981	489,502	401,348	207,500	89,745	104,103	88,154
1982	507,268	428,860	230,800	94,364	103,696	78,408
1983	568,414	481,926	266,900	100,376	114,650	86,488
1984	550,517	463,502	256,200	89,928	117,374	87,015
1985	528,649	445,826	222,400	90,530	132,896	82,823
1986	564,717	481,312	233,800	99,720	147,792	83,405
1987	557,298	469,565	218,000	99,286	152,279	87,733
1988	573,962	485,293	209,900	107,402	167,991	88,669
1989	585,048	493,261	210,300	98,310	184,651	91,787
1990	595,030	506,586	213,800	106,365	186,421	88,444
1991	551,382	464,139	174,900	107,775	181,464	87,243
1992	520,227	431,958	153,700	102,100	176,158	88,269
1993	506,475	421,593	163,000	79,850	178,743	84,882
1994	503,780	427,150	160,100	78,890	188,160	76,630
1995 1/	492,683	421,089	127,700	87,360	206,029	71,594
1996 1/	494,565	428,671	108,100	95,914	224,657	65,894
1997	485,743	418,016	85,500	91,721	240,795	67,727

1/ 1995 and 1996 Total crops sales and Total livestock sales figures have been revised from previous year databook table.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1987, 1995, 1996, AND 1997

County or island and year 1/	Number of farms 2/	Farm acreage 3/ (1,000)	Farm employment 4/		
			Self-employed farm operators	Unpaid family members 5/	Hired workers
State total:					
1987	4,650	1,720	2,600	1,100	10,700
1995	5,300	1,470	2,700	1,000	7,300
1996	5,400	1,440	2,700	1,000	7,400
1997	5,500	1,440	2,700	1,200	7,000
Hawaii County:					
1987	2,700	1,010	1,725	750	3,800
1995	3,150	890	1,750	550	2,550
1996	3,250	870	1,800	600	2,600
1997	3,300	870	1,800	700	2,450
Maui County:					
1987	600	360	260	140	2,800
1995	800	295	300	100	1,850
1996	800	290	300	150	1,850
1997	800	290	300	100	1,850
Oahu:					
1987	950	125	460	160	2,800
1995	900	85	500	250	1,900
1996	900	80	450	200	2,000
1997	900	80	500	300	1,900
Kauai County:					
1987	400	225	160	50	1,300
1995	450	200	200	150	1,000
1996	450	200	200	100	1,000
1997	500	200	200	100	850

1/ 1995 and 1996 data have been revised from previous year databook table.

2/ Based on farm definition of \$1,000 or more of agricultural sales.

3/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

4/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

5/ Working 15 hours or more per week.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); *Hawaii Agricultural Labor* (quarterly); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES
OR ISLANDS: 1987, 1995, 1996 AND 1997**

[\$1,000]

County or island and year	All crops and livestock 1/	Crops				Livestock 1/
		All crops 1/	Sugar (unpro- cessed cane)	Pine- apples 2/ (fresh equiv.)	Other crops 1,2/	
State total:						
1987	557,298	469,565	218,000	99,286	152,279	87,733
1995	492,683	421,089	127,700	87,360	206,029	71,594
1996	494,565	428,671	108,100	95,914	224,657	65,894
1997	485,743	418,016	85,500	91,721	240,795	67,727
Hawaii County:						
1987	180,306	153,891	64,400	(Z)	89,491	26,415
1995	145,721	128,564	12,200	(Z)	116,364	17,157
1996	141,433	125,428	1,700	(Z)	123,728	16,005
1997	149,700	131,876	-	(Z)	131,876	17,824
Maui County:						
1987	146,717	136,126	66,900	46,366	22,860	10,591
1995	124,657	114,064	59,400	24,775	29,889	10,593
1996	126,587	116,444	57,200	27,144	32,100	10,143
1997	127,608	116,453	53,900	28,295	34,258	11,155
Oahu:						
1987	166,738	121,084	35,500	52,920	32,664	45,654
1995	162,668	123,074	21,000	62,585	39,489	39,594
1996	156,590	121,045	10,400	68,770	41,875	35,545
1997	142,355	107,536	-	63,426	44,110	34,819
Kauai County:						
1987	63,537	58,464	51,200	(Z)	7,264	5,073
1995	59,637	55,387	35,100	(Z)	20,287	4,250
1996	69,955	65,754	38,800	(Z)	26,954	4,201
1997	66,080	62,151	31,600	(Z)	30,551	3,929

Z Less than \$50,000.

1/ 1995 and 1996 data have been revised from previous year databook table.

2/ County data may fail to add exactly to State total.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual);
and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.07-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1987, 1995, 1996, AND 1997

Subject	1987	1995	1996	1997
Acreage in crop (1,000 acres):				
Sugarcane	181.1	83.8	68.8	68.7
Pineapples (land used for pineapple)	36.1	19.9	20.0	19.9
Vegetables and melons (harvested acreage)	5.6	6.0	6.2	6.5
Fruits, excluding pineapples	7.0	7.0	7.1	8.0
Coffee 1/	2.4	6.8	6.6	7.0
Macadamia nuts	21.5	20.3	20.2	20.2
All other crops 1/	6.0	6.5	8.4	12.6
Number of crop farms:				
Sugar	100	9	7	4
Pineapples	12	15	20	15
Vegetables and melons	660	690	950	1,000
Fruits (excluding pineapples)	774	924	1,040	1,043
Coffee	630	580	560	585
Macadamia nuts	650	650	680	700
Taro	140	190	180	160
Flowers and nursery products	670	705	690	670
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	8,014	3,953	3,544	2,925
Pineapples, fresh equivalent (1,000 tons)	692	345	347	324
Vegetables and melons (1,000 lb.)	95,330	89,100	92,420	100,850
Fruits, excluding pineapples (1,000 lb.)	99,330	83,520	74,260	73,750
Coffee, parchment (1,000 lb.)	1,800	5,400	6,400	9,400
Macadamia nuts, in shell (1,000 lb.) 1/	42,700	51,000	56,500	58,000
Taro (1,000 lb.)	6,300	6,800	5,700	5,500
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	218,000	127,700	108,100	85,500
Pineapples (fresh equivalent)	99,286	87,360	95,914	91,721
Vegetables and melons	30,556	38,604	40,672	44,626
Fruits (excluding pineapples) 1/	17,431	28,218	26,521	29,564
Coffee (parchment)	4,860	16,200	20,800	28,200
Macadamia nuts (in shell)	35,868	37,740	44,070	43,500
Taro	1,676	3,264	2,793	2,805
Seed Crops 2/	(NA)	13,000	20,250	22,800
Flowers and nursery products	54,731	68,175	68,870	68,160

NA Not Available

1/ Data have been revised from previous year databook table.

2/ Seed crops have been included in this table, replacing field crops of previous years.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.08-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY COUNTIES OR ISLANDS: 1997

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	-	43.1	-	25.6
Pineapples (land used for pineapple)	(2/)	9.1	10.8	(2/)
Vegetables and melons (harvested acreage)	2.1	1.4	2.9	0.1
Fruits, excluding pineapples	5.6	0.3	1.3	0.8
Coffee	2.5	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
All other crops	1.7	1.2	8.2	1.5
Number of crop farms:				
Sugar	-	2	-	2
Pineapples	6	4	2	3
Vegetables and melons	440	105	400	55
Fruits (excluding pineapples)	704	86	129	124
Coffee	575	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
Taro	85	15	10	50
Flowers and nursery products	312	106	202	50
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	-	1,784	-	1,141
Pineapples, fresh equivalent (1,000 tons)	(3/)	188	136	(3/)
Vegetables and melons (1,000 lb.)	35,465	26,590	37,825	970
Fruits, excluding pineapples (1,000 lb.)	51,250	1,990	8,700	11,810
Coffee, parchment (1,000 lb.)	2,850	(D)	(D)	(D)
Macadamia nuts, in shell (1,000 lb.)	(D)	(D)	(D)	(D)
Taro (1,000 lb.)	1,300	(D)	(D)	3,300
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	-	53,900	-	31,600
Pineapples (fresh equivalent)	(4/)	28,295	63,426	(4/)
Vegetables and melons	17,585	11,692	14,499	850
Fruits (excluding pineapples)	21,018	1,136	4,814	2,596
Coffee (parchment)	16,245	(D)	(D)	(D)
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	698	(D)	(D)	1,657
Seed crops 5/	(D)	(D)	(D)	(D)
Flowers and nursery products	35,290	8,320	22,720	1,930

D Withheld to avoid disclosure of individual operations.

2/ Less than 50 acres.

1/ Kauai, Maui, and Molokai combined to avoid disclosure of individual operations.

3/ Less than 500 tons.

4/ Less than \$50,000.

5/ seed crops have been included in this table, replacing field crops of previous years.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.09-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 1997

[Data shown for crops with sales in excess of \$1,000,000]

Crop	Acreage harvested	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Specialty crops:					
Coffee (1997-98)	5,800	1.6	9,400	300.0	28,200
Fresh herbs	...	...	1,300	...	2,360
Ginger roots	275	44.0	12,100	75.0	8,107
Macadamia nuts (1996-97)	19,200	3.0	65,000	66.9	43,500
Seed crops (1997-98)	2,300	...	3,950	...	22,800
Fruits:					
Bananas	1,020	13.4	13,700	38.0	5,206
Guavas	670	...	15,900	12.2	1,940
Papayas	1,985	19.5	38,800	48.9	18,978
Vegetables:					
Cabbage, Chinese	390	19.7	7,700	23.0	1,771
Cabbage, head	650	20.0	13,000	20.5	2,665
Cucumbers	440	12.5	5,500	40.0	2,200
Onions, dry	185	9.2	1,700	98.0	1,666
Onions, green	155	9.0	1,400	96.0	1,344
Peppers, green	200	10.0	2,000	49.0	980
Potatoes, sweet	240	10.0	2,400	52.0	1,248
Taro	1/ 450	...	5,200	51.0	2,652
Tomatoes	340	30.0	10,200	54.0	5,508
Watercress	1/ 35	...	1,020	115.0	1,173
Watermelons	840	20.0	16,800	18.0	3,024

1/ Acreage in crop.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

**Table 19.10-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1984 TO 1998**

Year	Total cane land	Irrigated cane land		Unirrigated cane land
		Drip	Furrow or overhead	
1984	188,396	86,925	26,325	75,146
1985	187,858	89,129	24,323	74,406
1986	184,179	90,877	19,526	73,776
1987	180,967	88,812	18,602	73,553
1988	177,693	88,387	17,791	71,515
1989	170,816	86,030	16,687	68,099
1990	161,991	83,252	15,129	63,610
1991	155,608	80,366	13,745	61,497
1992	145,790	76,132	13,008	58,777
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

Source: Hawaiian Sugar Planters' Association, records; Alexander & Baldwin, Inc., "Water to the Roots," *Ampersand*, Spring 1987, pp. 3-6; and Hawaii Agricultural Research Center, records.

**Table 19.11-- GOVERNMENT PAYMENTS FOR AGRICULTURE:
1986 TO 1997**

[\$1,000]

Year	Amount	Year	Amount	Year	Amount
1986	2,810	1990	657	1994 1/	2,911
1987	344	1991	730	1995 1/	947
1988	465	1992	734	1996 1/	580
1989	396	1993	2,018	1997 1/	584

NA Not available.

1/ 1994-1997 data may not be comparable with previous data.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual);
and <http://www.econ.ag.gov/briefing/fbe/fi/figpdmu.htm>

**Table 19.12-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU,
BY SOURCE: 1994 TO 1996**

[1,000 pounds, net]

Source	1994	1995	1996
Total arrivals 1/	307,386	297,800	294,525
From Hawaii	84,374	81,840	74,947
Oahu	20,264	27,618	32,380
Other islands	64,109	54,222	42,568
Hawaii	31,735	27,451	24,574
Maui	13,037	12,434	9,352
Molokai	19,149	14,006	8,187
Kauai	188	330	455
From U.S. Mainland	216,942	210,306	213,763
From foreign countries	6,070	5,653	5,815

Data subject to revisions.

1/ Ship and plane arrivals.

Source: Hawaii State Department of Agriculture, Market Analysis and News Branch, *Honolulu Arrivals, Fresh Fruits and Vegetables, 1994-1996*, table 1, and records.

**Table 19.13-- LIVESTOCK INVENTORY, 1985 TO 1997, AND BY
GEOGRAPHIC AREAS, 1997**

[In thousands]

Year and geographic area	All cattle and calves 1/	Milk cows 1/	Hogs and pigs 2/ 3/	Chickens (excluding broilers) 2/	Bee colonies
1985	209	11	55	1,210	9
1986	199	12	50	1,185	9
1987	203	12	47	1,212	9
1988	212	12	43	1,217	9
1989	205	11	39	1,216	9
1990	215	11	36	1,183	10
1991	200	10	34	1,213	10
1992	178	11	35	1,109	9
1993	165	11	33	1,012	9
1994	175	11	35	981	9
1995	171	10	34	933	8
1996	166	10	27	876	8
1997	164	9	27	863	9
GEOGRAPHIC AREAS: 1997					
Hawaii County	111.8	2.2	1.3	(D)	(NA)
Maui	21.2	1.0	4.5	(D)	(NA)
Molokai and Lanai	6.4	0.0	(4/)	(D)	(NA)
Oahu	13.3	5.0	17.7	713	(NA)
Kauai County	11.3	0.6	3.5	(D)	(NA)

NA Not available.

D Withheld to avoid disclosing data for individual operations.

1/ As of January 1 of the following year.

2/ As of December 1.

3/ 1996 data have been revised from previous year databook table.

4/ Combined with Maui.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual);
and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.14-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1987, 1995, 1996, AND 1997

Subject	1987	1995	1996	1997
Number of livestock operations, Dec. 31:				
Cattle 1/	900	800	800	800
Hogs	600	350	350	350
Milk	90	60	60	60
Eggs	55	55	55	55
Honey	14	17	25	23
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	34,335	7,895	10,161	10,024
Pork (dressed weight; 1,000 lb.) 3/	8,431	6,239	6,210	4,579
Milk (million lb.)	153.7	139.4	125.9	119.3
Eggs (million)	223.3	186.0	179.0	172.0
Honey (1,000 lb.)	1,710	1,032	1,240	1,314
Value of livestock sales (\$1,000):				
Cattle 4/	27,401	14,639	11,905	14,323
Hogs 3/ 4/	8,509	6,672	6,732	4,902
Milk	31,201	32,146	29,234	29,479
Eggs	14,291	13,516	12,963	12,914

1/ Includes beef, dairy, and dairy replacement operations.

2/ Includes slaughter cattle, but excludes calves shipped out-of-state.

3/ 1996 data have been revised from previous year databook table.

4/ Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.15-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1997

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	410	190	60	140
Hogs	60	70	160	60
Milk	30	5	15	10
Eggs	25	7	19	4
Honey	14	5	(2/)	4
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 3/	5,184	2,844	967	1,029
Pork (dressed weight; 1,000 lb.)	394	933	2,846	406
Milk (million lb.)	(D)	(D)	76.4	(D)
Eggs (million)	(D)	(D)	137.9	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):				
Cattle 4/	8,404	4,345	563	1,011
Hogs 4/	404	1,008	3,036	454
Milk	(D)	(D)	19,204	(D)
Eggs	(D)	(D)	9,930	(D)

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement operations.

2/ Oahu combined with Maui County to avoid disclosure of individual operations.

3/ Includes slaughter cattle but excludes calves shipped out-of-state.

4/ Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

**Table 19.16-- FLORICULTURE AND NURSERY PRODUCTS, 1992 TO 1997,
AND BY ISLANDS, 1994 TO 1997**

Island and year	Number of farms	Growing area					Wholesale value (\$1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1992	686	2,497	3,880	22,025	13	1,890	69,679
1993	662	2,384	4,565	19,955	21	1,800	69,513
1994	660	2,290	3,770	21,600	18	1,690	67,005
1995	705	2,698	3,770	24,215	15	2,040	68,175
1996 1/	690	2,212	2,820	23,405	10	1,600	68,870
1997	370	2,158	2,805	23,885	10	1,535	68,160
Islands, 1994:							
Hawaii	304	1,175	2,715	16,330	18	720	31,337
Kauai	40	106	105	390	0	95	1,899
Maui/Molokai	102	499	310	505	0	480	7,912
Oahu	214	510	640	4,375	0	395	25,857
Islands, 1995:							
Hawaii	333	1,630	2,910	18,880	15	1,115	32,608
Kauai	46	105	40	375	0	95	1,801
Maui/Molokai	106	465	270	375	0	450	7,796
Oahu	220	498	550	4,585	0	380	25,970
Islands, 1996: 1/							
Hawaii	316	1,240	1,990	17,815	10	775	34,275
Kauai	52	69	60	345	0	60	1,965
Maui/Molokai	111	428	230	335	0	415	7,515
Oahu	211	475	540	4,910	0	350	25,115
Islands, 1997:							
Hawaii	312	1,363	2,000	18,805	10	875	35,290
Kauai	50	65	60	355	0	55	1,830
Maui/Molokai	106	308	235	345	0	295	8,320
Oahu	202	422	510	4,380	0	310	22,720

1/ Data have been revised from previous year databook table.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary* (August 10, 1998), pp. 10 and 13.

**Table 19.17-- FLORICULTURE AND NURSERY PRODUCTS, BY
COMMODITY: 1997**

[Shown for commodities with value of sales over \$500,000 and growers with total sales of
\$10,000 or more]

Commodity	Number of farms having sales	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	61	1,000 dozens	838	7,421
Heliconias	47	1,000 dozens	46	510
Proteas	30	1,000 stems	1,413	1,166
Orchids:				
Sprays: Dendrobium	56	1,000 dozens	368	2,547
Potted: Dendrobiums	63	1,000 pots	1,409	6,388
Lei or individual flowers:				
Vanda, Miss Joaquim	9	Million blooms	22.3	657
Plumerias	11	Million blooms	31.8	833
Dendrobiums	35	Million blooms	24.8	725
Foliage:				
Potted, primarily for--				
Indoor or patio use	60	...	(NA)	13,362
Landscape use	62	...	(NA)	3,515
Unfinished stock	16	...	(NA)	511
Potted flowering plants:				
Poinsettias	28	1,000 pots	238	900
Ornamentals and trees	42	...	(NA)	1,561
Plant rentals	37	...	(NA)	2,925

NA Not available.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (August 10, 1998), pp. 3-8.

Table 19.18-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1993 TO 1997

[\$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

Type	1993	1994	1995	1996	1997
Total sales	40,740	36,775	38,985	38,390	41,400
Anthuriums, cut	11,115	10,310	10,395	9,705	10,945
Foliage, potted	9,655	9,090	9,910	9,500	10,320
Other flowers, nursery products	19,970	17,375	18,680	19,185	20,135

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (August 10, 1998), p. 18.

Table 19.19-- LAND EVALUATION RATING, FOR SIX MAJOR ISLANDS: 1985

[Thousand acres. The Land Evaluation and Site Assessment Commission land evaluation rating is a composite index, scaled from 0 to 100, based on measurements of soil productivity and the suitability of land for agricultural purposes. Data exclude Kahoolawe, Niihau, Lehua, Kaula, and the Northwestern Hawaiian Islands]

Land evaluation rating	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total area	4,042	2,579	466	90	166	386	355
90 to 100	66	-	17	3	7	39	-
80 to 89	137	17	39	11	16	33	20
70 to 79	189	95	20	20	6	27	40
60 to 69	212	125	36	(Z)	9	22	20
50 to 59	221	113	64	3	10	12	18
40 to 49	309	227	40	6	10	18	7
30 to 39	605	543	29	1	3	11	17
20 to 29	492	282	55	48	50	30	26
10 to 19	1,813	1,176	165	15	55	194	206
Under 10	-	-	-	-	-	-	-
Mean rating	32.8	29.8	40.8	36.7	37.6	40.1	32.9

Z Less than 500 acres.

Source: Land Evaluation and Site Assessment Commission, *A Report on the State of Hawaii Land Evaluation and Site Assessment System* (February 1986), Exhibit A.

Table 19.20-- AGRICULTURAL LABOR: WORKERS ON FARMS, STATE OF HAWAII, 1993-1998

Year	Farm employment			Hired Workers by type of farm			
	Total	Self-Employed farm operators	Unpaid workers 1/	Hired workers 2/	Sugar	Pineapple	Other
1993	12,600	2,800	1,100	8,700	2,500	1,400	4,800
1994	11,950	2,700	1,200	8,100	2,300	1,300	4,500
1995	11,050	2,700	1,000	7,300	1,700	1,200	4,400
1996	11,100	2,700	1,000	7,400	1,400	1,200	4,800
1997	10,900	2,700	1,200	7,000	1,200	1,300	4,500
1998	11,250	2,700	1,150	7,450	1,200	1,200	5,050

1/ Includes family members and others working 15 or more hours per week.

2/ Sum of hired workers by type of farm may not add to hired workers total due to rounding.

Source: Hawaii Agricultural Statistics Service, Hawaii Agricultural Labor, Quarterly, various issues.

**Table 19.21-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1987 TO 1998**

[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	Year 1/	Amount
1987	274,202	1991	301,884	1995	457,538
1988	298,261	1992	408,662	1996	479,009
1989	326,400	1993	474,861	1997 2/	505,557
1990	317,337	1994	467,174	1998	478,201

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/ 1997 data revised from previous year databook.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release, as revised 2/18/99).

**Table 19.22-- AGRICULTURAL CHEMICALS USED, INCLUDING
FERTILIZER: 1987 TO 1997**

Chemicals used		1987	1992	1997
Any chemicals, fertilizer, or lime used 1/	farms	4,105	4,476	4,531
Commercial fertilizer	farms	3,524	4,028	4,051
	acres on which used	225,457	200,723	133,927
	\$1,000	30,717	30,574	25,653
Agricultural chemicals	farms	3,881	3,853	3,834
	\$1,000	18,233	20,396	17,187
Sprays, dusts, granules, fumigants, etc., to control --				
Insects on hay and other crops	farms	2,008	1,790	1,604
	acres on which used	68,150	53,593	34,673
Nematodes in crops	farms	663	489	350
	acres on which used	15,792	15,587	11,086
Diseases in crops and orchards	farms	1,151	1,018	1,033
	acres on which used	(D)	21,036	33,343
Weeds, grass, or brush in crops and pasture	farms	2,887	2,820	2,685
	acres on which used	235,871	178,422	122,576
Chemicals used for defoliation or for growth control of crops or thinning of fruit	farms	212	157	184
	acres on which used	57,481	40,292	15,184

D Withheld to avoid disclosing data for individual farms.

1/ Data for 1987 include farms on which lime was applied alone or together with fertilizer and/or chemicals.

Source: U.S. Department of Agriculture, *1997 Census of Agriculture, AC97-A-11, Hawaii*, (March 1999), p. 23.

Table 19.23-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 1996

Year	Number of operations, Dec. 31	Acreage, Dec. 31	Production (1,000 lb.)	Value (\$1,000)
1970	2	193	20	11
1971	2	193	17	17
1972	2	193	18	23
1973	3	203	34	34
1974	4	213	41	136
1975	10	234	82	178
1976	14	235	94	210
1977	25	246	123	281
1978	25	320	178	525
1979	23	493	246	1,531
1980	37	575	320	1,655
1981	41	547	338	1,868
1982	44	643	551	2,625
1983	42	496	345	1,605
1984	47	474	441	2,300
1985	48	465	583	2,780
1986	44	444	1,015	3,549
1987	45	437	1,689	6,263
1988	44	477	1,170	5,560
1989	46	479	1,264	6,835
1990	53	489	1,452	9,241
1991	71	595	1,207	6,884
1992	83	615	1,272	7,134
1993	90	640	1,296	7,469
1994	105	605	990	9,036
1995	107	635	1,410	13,307
1996	115	695	1,992	15,656

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

**Table 19.24-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION,
AND VALUE, BY COUNTIES: 1995 AND 1996**

Subject	State total	Hawaii	Maui	Honolulu	Kauai
1995					
Number of operations	107	40	18	38	11
Acreage (Dec. 31)	635	175	35	400	25
Production (1,000 lb.)	1,409.6	1,055.9	50.1	303.6	(NA)
Shellfish	414.6	262.1	40.0	112.5	(NA)
Finfish	125.2	40.0	10.1	75.1	(NA)
Algae	869.8	753.8	-	116.0	(NA)
Other 1/	(NA)	(NA)	(NA)	(NA)	(NA)
Value (\$1,000)	13,306.5	11,402.2	279.1	1,625.2	(NA)
Shellfish	3,462.4	2,569.6	240.2	652.6	(NA)
Finfish	769.5	342.3	38.2	389.0	(NA)
Algae	8,685.9	8,428.7	-	257.2	(NA)
Other 1/	388.7	61.6	0.7	326.4	(NA)
1996					
Number of operations	115	43	19	42	11
Acreage (Dec. 31)	695	230	40	400	25
Production (1,000 lb.)	1,991.9	1,612.5	75.1	304.3	(NA)
Shellfish	616.8	432.8	60.0	124.0	(NA)
Finfish	129.2	66.6	15.1	47.5	(NA)
Algae	1,245.9	1,113.1	(NA)	132.8	(NA)
Other 1/	(NA)	(NA)	(NA)	(NA)	(NA)
Value (\$1,000)	15,655.7	13,197.3	402.8	2,055.6	(NA)
Shellfish	4,315.5	3,188.7	350.0	776.8	(NA)
Finfish	1,191.6	764.9	52.8	373.9	(NA)
Algae	9,082.4	8,779.1	(NA)	303.3	(NA)
Other 1/	1,066.2	464.6	(NA)	601.6	(NA)

NA Not available.

1/ Nonfood products: ornamental fish, seedstock, other.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

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*, 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: 1998*, Sections 24 and 25.

**Table 20.01-- FOREST AND NATURAL AREA ACREAGE, BY ISLANDS:
JUNE 30, 1996 AND JUNE 30, 1997**

Island	Conservation district forest land		Planted forest		Natural areas 3/	
	Forest reserve land 1/	Private forest land 2/	Planted in preceding 3 years	Total standing	Number of areas	Acres
1996						
State total	643,134	328,742	108	46,191	19	109,164
Hawaii	438,416	106,745	13	17,138	8	82,535
Maui	73,227	53,180	15	11,892	4	17,123
Kahoolawe	-	-	-	-	-	-
Lanai	-	6,150	-	512	-	-
Molokai	16,030	-	10	3,238	2	2,950
Oahu	32,462	88,817	63	7,162	3	1,770
Kauai	82,999	73,850	7	6,249	2	4,786
Niihau	-	-	-	-	-	-
1997						
State total	643,134	328,742	108	46,191	19	109,164
Hawaii	438,416	106,745	13	17,138	8	82,535
Maui	73,227	53,180	15	11,892	4	17,123
Kahoolawe	-	-	-	-	-	-
Lanai	-	6,150	-	512	-	-
Molokai	16,030	-	10	3,238	2	2,950
Oahu	32,462	88,817	63	7,162	3	1,770
Kauai	82,999	73,850	7	6,249	2	4,786
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.

3/ Includes Waimanu Research Reserve (3,600 acres) and Alakai Wilderness Preserve (9,939 acres).

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 20.02-- WOODLAND ON FARMS, 1987 TO 1997, AND BY COUNTIES, 1997

[Acres]

Use	1987	1992	1997				
			State total	Hawaii	Maui	Honolulu	Kauai
Total	99,135	109,391	108,704	75,821	(D)	209	(D)
Pastured	27,517	40,909	31,844	14,645	(D)	-	(D)
Not pastured	71,618	68,482	76,860	61,176	(D)	20	(D)

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1997 Census of Agriculture, Hawaii*, AC97-A-11 (March 1999), pp. 19 and 158.

**Table 20.03-- FOREST AND BRUSHLAND FIRES, BY COUNTIES:
1995 TO 1997**

[Years ended June 30]

County	Number of Fires			Acres burned		
	1995	1996	1997	1995	1996	1997
State total	198	131	69	23,946	477	378
Hawaii	86	78	30	21,635	232	40
Maui	44	42	24	2,019	67	40
Honolulu	67	10	11	292	175	297
Kauai	1	1	4	0	3	1

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 20.04-- COMMERCIAL FISHING: 1989 TO 1997

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch 1/		
		Pounds landed	Pounds sold	Value to primary producers (dollars)
1989	3,491	14,008,279	13,524,731	29,815,290
1990	3,551	16,663,945	16,090,478	39,902,182
1991	4,043	22,218,099	21,331,184	53,769,946
1992	3,800	23,578,601	22,761,039	55,381,574
1993	3,836	25,209,513	24,562,796	61,059,027
1994	4,060	24,028,693	23,310,535	57,999,092
1995	3,827	23,970,722	22,945,408	55,283,593
1996	3,672	23,968,916	23,018,189	52,443,466
1997	3,632	25,319,795	24,589,553	53,343,330

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catches. Data for 1989-1993 revised from *Data Book 1993-94*, table 20.5.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings for Fiscal Year* (annual), as revised, and records.

Table 20.05-- COMMERCIAL FISH CATCH, BY SPECIES: 1997

[Year ended June 30, 1997]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	25,319,795	24,589,553	53,343,330
Sea catch, all species	25,272,402	24,542,232	53,231,458
Tunas	13,669,343	13,437,806	27,976,535
Aku (Skipjack)	2,150,401	2,062,538	2,668,892
Ahipalaha	3,420,977	3,412,462	3,900,844
Bigeye (ahi)	3,820,918	3,809,506	11,520,331
Yellowfin (ahi)	4,235,749	4,115,227	9,641,885
Billfishes	6,914,329	6,744,237	15,685,901
Blue marlin	1,238,001	1,135,578	1,086,127
Striped marlin	952,989	927,843	1,197,496
Swordfish	4,450,153	4,420,887	13,157,405
Miscellaneous pelagic species	2,454,470	2,315,765	3,830,050
Mahimahi	1,067,892	995,502	1,746,361
Ono	650,121	586,778	1,195,280
Opah	585,756	585,516	664,856
Deep bottom fishes	714,366	671,367	2,530,253
Opakapaka	265,551	254,318	1,110,555
Uku	120,765	115,863	310,704
Ulaula	101,779	96,846	551,153
Akule/opelu	868,431	793,495	1,344,446
Akule	512,709	459,473	821,042
Opelu	335,040	314,206	482,205
Jacks	129,332	115,757	201,420
Inshore fishes	288,434	265,863	590,671
Sharks	67,759	52,163	52,282
Lobsters	37,342	35,398	529,039
Crabs	35,634	29,944	136,513
Shrimps	34,082	33,397	172,397
Seaweeds	8,378	7,646	38,056
Miscellaneous	50,502	39,394	143,895
Pond landings, all species	47,393	47,321	111,872

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1996-1997* and records.

Table 20.06-- COMMERCIAL SEA LANDINGS, BY ISLANDS: 1995 TO 1997

[Years ended June 30]

Island	Pounds landed	Pounds sold	Value (dollars)
1995			
State total	23,936,995	22,912,940	55,206,105
Hawaii	3,708,925	3,512,238	6,708,789
Maui	655,357	518,137	1,423,379
Lanai	19,373	15,126	35,419
Molokai	64,877	59,044	150,116
Oahu	18,578,836	18,062,815	45,027,811
Kauai and Niihau	909,627	745,580	1,860,591
1996			
State total	23,944,770	22,994,532	52,388,694
Hawaii	4,047,710	3,818,650	6,517,456
Maui	695,779	542,335	1,364,300
Lanai	13,378	9,287	21,634
Molokai	74,237	68,621	190,740
Oahu	18,243,799	17,830,788	42,507,194
Kauai and Niihau	869,867	724,851	1,787,370
1997			
State total	25,272,402	24,542,232	53,231,458
Hawaii	3,738,518	3,535,195	6,109,155
Maui	565,100	423,805	1,126,929
Lanai	23,213	17,222	42,935
Molokai	53,651	48,410	167,833
Oahu	19,923,146	19,715,430	43,940,066
Kauai and Niihau	968,774	802,170	1,844,540

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1995-1997* and records.

**Table 20.07-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD:
1995 TO 1997**

[Years ended June 30]

Fishing method	Pounds landed	Pounds sold	Value (dollars)
1995			
All methods	23,936,995	22,912,940	55,206,105
Aku pole and line	1,049,924	1,047,924	1,404,367
Longline	14,299,465	14,074,471	37,405,275
Handline	3,679,047	3,545,368	8,308,474
Trolling	3,064,873	2,601,465	5,048,401
Net	936,984	875,209	1,421,861
Trap	142,141	123,192	744,435
Albacore troll	615,871	514,378	410,595
All other methods	148,690	130,933	462,697
1996			
All methods	23,944,770	22,994,532	52,388,694
Aku pole and line	1,434,985	1,434,984	1,820,496
Longline	14,071,115	13,895,031	34,889,154
Handline	3,713,208	3,556,162	7,819,282
Trolling	3,332,501	2,822,572	5,140,175
Net	845,841	803,615	1,354,076
Trap	139,613	138,212	770,820
Albacore troll	279,086	233,012	193,899
All other methods	128,421	110,944	400,792
1997			
All methods	25,272,402	24,542,232	53,231,458
Aku pole and line	1,623,910	1,616,589	2,102,305
Longline	16,047,720	15,992,066	36,710,270
Handline	3,741,917	3,603,710	7,950,473
Trolling	2,921,901	2,469,756	4,364,854
Net	660,400	605,737	1,024,264
Trap	125,286	123,208	777,679
Albacore troll	50,199	50,199	40,000
All other methods	101,069	80,967	261,613

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1995-1997* and records.

**Table 20.08-- FISH POPULATIONS AROUND SELECTED SHORELINE
AREAS: YEAR ENDED JUNE 30, 1996**

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu:			
Inshore	69	4,413	2,489
Pupukea, Oahu	91	1,958	178
Waikiki, Oahu	64	1,340	132
Molokini Shoal, Maui	95	4,932	386
Honolua-Mokuleia Bay, Maui	75	4,388	1,125
Manele-Hulopoe Bays, Lanai	89	2,382	410
Kealakekua Bay, Hawaii	64	1,408	435
Lapakahi, Hawaii	58	1,326	195
Wailea Bay, Hawaii	47	1,363	149
Old Kona Airport, Hawaii	32	1,557	90
Artificial reefs:			
Maunalua Bay, Oahu (tire modules)	54	2,704	407
Waianae, Oahu (Z-Slabs)	48	2,805	685
Keawakapu, Maui	29	1,503	325
Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	60	581	85
Puako Bay-Puako Reef, Hawaii	59	1,513	143
Red Hill, Hawaii	34	2,387	306
Papawai, Hawaii	43	3,139	572
Other areas:			
Honaunau Bay, Hawaii	45	2,643	366
Mahaiula Bay, Hawaii	31	720	17

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1995 to June 30, 1996.*

**Table 20.09-- FISH POPULATIONS AROUND SELECTED SHORELINE
AREAS: YEAR ENDED JUNE 30, 1997**

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu:			
Inshore	66	3,257	2,036
Waikiki, Oahu	39	1,403	484
Molokini Shoal, Maui	93	3,365	390
Honolua-Mokuleia Bay, Maui	72	5,692	1,814
Manele-Hulopoe Bays, Lanai	94	3,595	657
Kealakekua Bay, Hawaii	62	4,291	492
Lapakahi, Hawaii	74	4,126	488
Wailea Bay, Hawaii	45	2,243	253
Old Kona Airport, Hawaii	62	7,028	488
Artificial reefs:			
Maunaloa Bay, Oahu (tire modules)	46	4,044	661
Waianae, Oahu (Z-Slabs)	41	5,266	951
Keawakapu, Maui	22	1,954	431
Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	51	899	68
Puako Bay-Puako Reef, Hawaii	51	2,476	363
Red Hill, Hawaii	44	7,746	502
Other areas:			
Honaunau Bay, Hawaii	56	6,124	502
Mo'omomi-Kawa'aloa Bays, Molokai	42	1,846	542

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1996 to June 30, 1997.*

**Table 20.10-- FISH POPULATIONS AROUND SELECTED SHORELINE
AREAS: YEAR ENDED JUNE 30, 1998**

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu:			
Inshore	64	4,025	2,366
Offshore	90	3,207	342
Pupukea, Oahu	94	2,129	236
Waikiki, Oahu	45	1,985	152
Molokini Shoal, Maui	92	2,034	376
Honolua-Mokuleia Bay, Maui	74	3,764	1,013
Manele-Hulopoe Bays, Lanai	86	2,686	409
Kealakekua Bay, Hawaii	46	2,658	245
Lapakahi, Hawaii	50	4,303	430
Wailea Bay, Hawaii	47	3,022	984
Old Kona Airport, Hawaii	50	8,836	491
Artificial reefs:			
Maunaloa Bay, Oahu (tire modules)	44	6,531	1,749
Waianae, Oahu (Z-Slabs)	59	2,168	445
Keawakapu, Maui	29	2,617	485
Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	57	1,228	145
Puako Bay-Puako Reef, Hawaii	50	5,200	1,853
Red Hill, Hawaii	29	2,981	452
Other areas:			
Honaunau Bay	43	3,507	395
Ahihi-La Perouse Bays-Cape Kinau, Maui	81	962	51

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1997 to June 30, 1998.*

Table 20.11-- MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED LOCATIONS: YEAR ENDED JUNE 30, 1996

[Three leading species at each location, based on both individuals per acre and pounds per acre]

Location and species	Individuals per acre		Pounds per acre	
	Rank	Number	Rank	Number
Hanauma Bay MLCD (inshore):				
Manini (<i>Acanthurus triostegus</i>)	1	1,059	6	139
Mamo (<i>Abudefduf abdominalis</i>)	2	457	10	57
White weke (<i>Mulloidies flavolineatus</i>)	3	428	3	213
Pualu (<i>Acanthurus xanthopterus</i>)	4	298	1	654
Uouoa (<i>Chaenomugil leuciscus</i>)	6	218	2	226
Waikiki MLCD:				
Parrotfishes (Family Scaridae)	1	274	6	5
Manini (<i>Acanthurus triostegus</i>)	2	264	1	35
Saddle-back wrasse (<i>Thalassoma duperrey</i>)	3	154	4	8
Maiii/lavender tang (<i>Acanthurus nigrofuscus</i>)	5	75	2	22
Moana (<i>Parupeneus multifasciatus</i>)	6	65	3	12
Kealakekua Bay MLCD:				
Kole (<i>Ctenochaetus strigosus</i>)	1	359	3	21
Yellow tang (<i>Zebrasoma flavescens</i>)	2	244	2	23
Blackfin damsel (<i>Chromis vanderbilti</i>)	3	99	(1/)	(NA)
Nenue (<i>Kyphosus</i> sp)	8	48	1	267

NA Not available.

MLCD Marine Life Conservation District.

1/ Not in first 10.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1995 to June 30, 1996.*

Table 20.12-- MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED LOCATIONS: YEAR ENDED JUNE 30, 1997

[Three leading species at each location, based on both individuals per acre and pounds per acre]

Location and species	Individuals per acre		Pounds per acre	
	Rank	Number	Rank	Number
Hanauma Bay MLCD (inshore):				
Manini (<i>Acanthurus triostegus</i>)	1	588	5	61
Parrotfishes (Family Scaridae)	2	348	(1/)	(NA)
Mamo (<i>Abudefduf abdominalis</i>)	3	327	(1/)	(NA)
Mullet (<i>Mugil cephalus</i>)	(1/)	(NA)	1	649
Redlipped parrot (<i>Scarus rubroviolaceus</i>)	(1/)	(NA)	2	319
Nenuke (<i>Kyphosus</i> sp.)	(1/)	(NA)	3	251
Waikiki MLCD:				
White ulua (<i>Caranx ignobilis</i>)	1	218	1	353
Manini (<i>Acanthurus triostegus</i>)	2	207	2	21
Saddle-back wrasse (<i>Thalassoma duperrey</i>)	3	205	7	6
Maiiii/lavender tang (<i>Acanthurus nigrofuscus</i>)	7	101	3	18
Kealakekua Bay MLCD:				
Blackfin damsel (<i>Chromis vanderbilti</i>)	1	1,142	(1/)	(NA)
Kole (<i>Ctenochaetus strigosus</i>)	2	518	7	25
Chocolate dip damsel (<i>Chromis hanui</i>)	3	469	9	11
Six-banded/menpachi ulua (<i>Caranx sexfasciatus</i>)	(1/)	(NA)	1	119
Omilu (<i>Caranx melampygus</i>)	(1/)	(NA)	2	60
Ele ele (<i>Melichthys niger</i>)	(1/)	(NA)	3	58

NA Not available.

MLCD Marine Life Conservation District.

1/ Not in first 10.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1996 to June 30, 1997.*

Table 20.13-- MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED LOCATIONS: YEAR ENDED JUNE 30, 1998

[Three leading species at each location, based on both individuals per acre and pounds per acre]

Location and species	Individuals per acre		Pounds per acre	
	Rank	Number	Rank	Number
Hanauma Bay MLCD (inshore):				
Manini (<i>Acanthurus triostegus</i>)	1	697	8	68
Saddle-back wrasse (<i>Thalassoma duperrey</i>)	2	450	(1/)	(NA)
Parrotfishes (Family Scaridae)	3	290	(1/)	(NA)
Nenue (<i>Kyphosus</i> sp.)	6	211	1	561
Pualu (<i>Acanthurus xanthopterus</i>)	(1/)	(NA)	2	298
Mullet (<i>Mugil cephalus</i>)	(1/)	(NA)	3	278
Waikiki MLCD:				
Ohua/green wrasse	1	523	6	5
Parrotfishes (Family Scaridae)	2	372	7	5
Saddle-back wrasse (<i>Thalassoma duperrey</i>)	3	247	5	15
Kala (<i>Naso unicornis</i>)	7	77	1	43
Manini (<i>Acanthurus triostegus</i>)	4	209	2	21
Maiiii/lavender tang (<i>Acanthurus nigrofuscus</i>)	5	123	3	18
Kealakekua Bay MLCD:				
Kole (<i>Ctenochaetus strigosus</i>)	1	323	3	30
Yellow tang (<i>Zebrasoma flavescens</i>)	2	312	1	41
Blackfin damsel (<i>Chromis vanderbilti</i>)	3	237	(1/)	(NA)
Ele ele (<i>Melichthys niger</i>)	10	85	2	18

NA Not available.

MLCD Marine Life Conservation District.

1/ Not in first 10.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1997 to June 30, 1998.*

Table 20.14-- MINERAL INDUSTRIES: 1967 TO 1992

Subject	1967	1972	1977	1982	1987	1992
Number of establishments	12	15	7	12	9	7
With 20 employees or more	3	5	2	4	4	4
All employees:						
Number (1,000)	.2	.3	.1	.2	.2	.2
Payroll (million dollars)	1.6	2.4	1.9	3.8	7.4	9.4
Production, development, and exploration workers:						
Number (1,000)	.2	.2	.1	.1	.2	.2
Hours (millions)	.4	.4	.2	.2	.4	.4
Wages (million dollars)	1.3	1.8	1.5	2.6	5.7	8.1
Value added by mining (million dollars)	5.0	9.0	8.1	9.7	23.5	27.3
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.3	4.1	2.9	5.9	10.4	11.3
Value of shipments and receipts (million dollars)	5.5	11.0	9.7	12.8	31.1	33.7
Capital expenditures (million dollars)	1.8	2.0	1.3	2.7	2.8	4.8

Source: U.S. Bureau of the Census, *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.

Table 20.15-- NONFUEL MINERAL PRODUCTION: 1995 TO 1997

[Estimated production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Minerals	1995	1996 1/	1997 2/
QUANTITY (1,000 METRIC TONS)			
Cement:			
Masonry	5	5	5
Portland	357	312	318
Gemstones	(NA)	(NA)	(NA)
Sand and gravel (construction)	405	(D)	(D)
Stone (crushed) 3/	7,450	6,560	5,500
VALUE (\$1,000)			
Total 4/	114,000	110,000	99,900
Cement:			
Masonry 5/	501	500	520
Portland 5/	35,500	32,000	33,200
Gemstones	(D)	153	129
Sand and gravel (construction)	4,030	(D)	(D)
Stone (crushed) 3/	73,500	77,500	66,000

NA Not available.

D Withheld to avoid disclosing company proprietary data.

1/ Revised.

2/ Preliminary.

3/ Excludes certain stones, to avoid disclosing data for individual firms.

4/ Partial total, excludes values that must be concealed to avoid disclosing company proprietary data.

5/ For 1996 & 1997, data have been estimated.

Source: U.S. Geological Survey, Bureau of Mines, "The *Mineral Industry of Hawaii*" from internet address <http://minerals.er.usgs.gov/minerals/pubs/state/hi.html>.

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. Bureau of the Census, 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 Housing and Community Development Corporation of Hawaii; the Hawaii Bureau of Conveyances; and the four county building departments) and the Honolulu Board of Realtors. Many of these series are summarized in the Bank of Hawaii's *Construction in Hawaii*. Persons interested in figures for earlier periods should consult *Historical Statistics of Hawaii*, Section 15. National statistics appear in Section 25 of the *Statistical Abstract of the United States: 1998*.

**Table 21.01-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES:
1994 TO 1998**

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1994	20,329	14,634	2,662	1,220	1,813
1995	17,231	11,956	2,707	1,054	1,514
1996	16,062	10,859	2,612	931	1,660
1997	16,444	11,140	2,514	1,040	1,750
1998	16,058	10,677	2,639	972	1,770
ESTIMATED VALUE (\$1,000)					
1994	1,612,899	1,073,264	181,059	164,681	193,894
1995	1,531,317	980,703	267,108	78,918	204,588
1996	1,117,760	698,697	171,017	101,981	146,065
1997	1,179,182	772,825	155,776	97,807	152,773
1998	1,054,281	624,226	178,220	88,196	163,638

Source: Calculated by Hawaii State Department of Business, Economic Development & Tourism from Monthly Cooperative Report of Local Construction submitted to F.W. Dodge Division, McGraw-Hill Information Systems Company by each county.

**Table 21.02-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES:
1996 TO 1998**

[In thousands of dollars]

Category	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1996					
Total	1,117,760	698,697	171,017	101,981	146,065
Residential	487,030	269,937	80,697	55,629	80,767
Hotel	504	-	-	504	-
Non-residential	252,259	152,830	39,752	28,038	31,640
Additions and alterations	377,967	275,930	50,569	17,810	33,658
1997					
Total	1,179,182	772,825	155,776	97,807	152,773
Residential	542,481	323,468	83,690	48,468	86,855
Hotel	19,262	-	-	19,262	-
Non-residential	245,228	167,165	34,749	14,878	28,437
Additions and alterations	372,210	282,193	37,337	15,199	37,482
1998					
Total	1,054,281	624,226	178,220	88,196	163,638
Residential	485,504	222,054	121,452	50,707	91,291
Hotel	4,935	-	-	-	4,935
Non-residential	200,690	132,362	20,744	14,851	32,733
Additions and alterations	363,152	269,810	36,024	22,637	34,680

Source: Calculated by Hawaii State Department of Business, Economic Development & Tourism from *Monthly Cooperative Report of Local Construction* submitted to F.W. Dodge Division, McGraw-Hill Information Systems Company by each county.

Table 21.03-- ESTIMATED VALUE PER HOUSING UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1993 TO 1998

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1993	1994	1995	1996	1997	1998
One-family	146,639	145,044	135,304	149,807	151,064	151,049
Two-family	143,210	152,011	140,721	139,824	141,816	152,019
Multi-family	77,506	75,413	92,092	100,344	123,611	75,343

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual).

**Table 21.04-- GENERAL EXCISE TAX BASE FOR CONTRACTING:
1988 TO 1998**

[In thousands of dollars. Data are on a cash basis accounting]

Year 1/	Amount	Year 1/	Amount	Year 1/	Amount
1988	2,487,571	1992	4,012,688	1996	3,285,106
1989	3,112,846	1993	3,803,605	1997	2/ 2,944,427
1990	4,003,650	1994	3,322,339	1998	3,015,977
1991	4,334,051	1995	3,133,510		

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 income received in the 12-month period ended November 30.

2/ Revised.

Source: Hawaii State Department of Taxation, *General Excise and Use Tax Base* (annual).

**Table 21.05-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES
AND SUBDIVIDERS AND DEVELOPERS: 1977 TO 1992**

[Excludes establishments without payroll]

Subject	1977	1982	1987	1992
Number of establishments in business during year	1,732	1,861	1,891	2,481
Proprietors and working partners	530	396	456	963
All employees	20,792	18,665	21,706	32,394
Construction workers, average	15,784	13,953	16,582	24,651
Other employees, March	5,032	4,711	4,861	7,835
Payroll (\$1,000,000)	323.4	409.7	606.9	1,112.5
Value of business done (\$1,000,000)	1,435.2	1,853.3	2,963.1	4,950.5
Value added (\$1,000,000)	636.2	855.2	1,288.7	2,148.3

Source: U.S. Bureau of the Census, *1992 Census of Construction Industries, Pacific States*, CC92-A-9 (May 1996), Hawaii table 3.

**Table 21.06-- GENERAL STATISTICS FOR CONSTRUCTION INDUSTRIES
AND SUBDIVIDERS AND DEVELOPERS, BY GEOGRAPHIC AREA: 1992**

[Excludes establishments without payroll]

Subject	State total	Oahu	Other islands
Number of establishments in business during year	2,481	1,545	936
All employees, average	32,394	25,559	6,835
Capital expend. other than land (mil. dol.)	69.6	50.2	19.4
Cost of construction work subcontracted to others (mil. dol.)	1,281.6	1,060.6	221.0
Cost of materials, components, supplies, and fuels (mil. dol.)	1,520.6	1,199.1	321.5
Net value of construction work (mil. dol.)	3,551.6	2,842.6	709.1
Payroll, all employees (mil. dol.)	1,112.5	912.3	200.1
Value added (mil. dol.)	2,148.3	1,722.7	425.6
Value of construction work (mil. dol.)	4,833.2	3,903.2	930.0

Source: U.S. Bureau of the Census, *1992 Census of Construction Industries, Pacific States, CC92-A-9* (May 1996), Hawaii tables 2 and 11.

**Table 21.07-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION
AUTHORIZED BY PERMITS, BY COUNTIES: 1993 TO 1998**

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai 1/	Maui
New 1-family dwellings:						
1993	4,586	1,913	2,673	1,539	474	660
1994	4,419	2,439	1,980	858	433	689
1995	3,831	2,090	1,741	908	312	521
1996	2,736	1,125	1,611	700	303	608
1997	2,648	1,141	1,507	649	284	574
1998	2,825	1,238	1,587	773	251	563
New duplex units:						
1993	136	62	74	26	4	44
1994	141	80	61	16	15	30
1995	112	64	48	10	21	17
1996	48	34	14	6	1	7
1997	43	38	5	4	-	1
1998	98	54	44	20	2	22
New apartments:						
1993	2,576	2,146	430	152	110	168
1994	2,907	2,206	701	76	223	402
1995	2,570	2,390	180	80	87	13
1996	1,093	997	96	63	17	16
1997	960	856	104	65	15	24
1998	555	496	59	52	1	6
Units demolished: 2/						
1993	(NA)	547	(NA)	51	33	(NA)
1994	(NA)	553	(NA)	67	23	(NA)
1995	1,161	855	306	66	172	68
1996	594	346	248	41	98	109
1997	484	392	92	35	17	40
1998	557	439	118	46	30	42

NA Not available.

1/ Kauai County figures for 1995 and 1996 include all permits previously processed through the FEMA's Office of Emergency Permitting which dealt with Hurricane Iniki damage. The FEMA office closed on June 15, 1995. Prior data for the FEMA office were not included in this table.

2/ All county figures, except for Maui County, exclude units destroyed by fire, volcanic activity, high winds, and other disasters.

Source: Compiled from county building departments by the Hawaii State Department of Business, Economic Development & Tourism.

Table 21.08-- HONOLULU CONSTRUCTION COST INDEXES: 1988 TO 1998

[January 1992=100. Data are annual averages unless otherwise specified. Reindexed in 1992]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1988	86.7	88.3	84.8	84.6	86.1	83.1
1989	90.5	90.9	90.0	89.4	89.7	88.8
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	99.4	97.1	101.5
1993	111.5	116.0	106.2	103.9	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	125.5	129.1	121.3	116.9	110.9	122.1
1997 2/	129.3	132.7	125.3	119.3	111.8	126.0
1998 2/	129.0	131.4	126.5	119.4	111.4	127.4

1/ Wages and benefits.

2/ Preliminary.

Source: First Hawaiian Bank, Research Department, records; Hawaii State Department of Business, Economic Development & Tourism, records.

**Table 21.09-- CONDOMINIUM ASSOCIATIONS AND APARTMENTS
REGISTERED: FISCAL YEARS 1990 TO 1998**

Fiscal year	Associations registered	Apartments represented	Fiscal year	Associations registered	Apartments represented
1990	201	20,066	1995	999	85,296
1991	809	74,916	1996	1,161	101,629
1992	968	87,127	1997	1,277	106,052
1993	1,049	91,424	1998 1/	1,339	112,832
1994	1,114	95,827			

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 in the 1997 fiscal year.

Source: Hawaii Real Estate Commission, *Hawaii Condominium Bulletin*, Winter 1998, p. 4.

**Table 21.10-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF
HAWAII: 1994 TO 1998**

[Fiscal years ended June 30]

Subject	1994	1995	1996	1997	1998
Projects	228	255	183	179	226
Individual units	4,229	4,654	2,216	2,777	2,022

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Commission, records.

**Table 21.11-- NEW CONDOMINIUM PROJECTS, BY TYPE:
FISCAL YEARS 1994 TO 1998**

Type of project	1994	1995	1996	1997	1998
All types	95	102	78	87	117
Residential	52	60	37	37	84
2 units or fewer	12	23	15	11	52
3 to 15 units	5	8	7	15	19
16 to 50 units	12	13	5	7	10
More than 50 units	23	16	10	4	3
Commercial and other	4	17	21	18	5
Agricultural	39	25	20	32	28

Source: Hawaii Real Estate Commission, *Hawaii Condominium Bulletin*, Winter 1998, p. 4, and records.

**Table 21.12-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO
CONDOMINIUM UNITS: 1994 TO 1998**

[Fiscal years ended June 30]

Subject	1994	1995	1996	1997	1998
Projects	73	89	58	47	36
Housing units	491	1,060	476	1,048	629

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Commission, records.

Table 21.13-- TIME-SHARE PROPERTIES AND UNITS, BY ISLANDS: 1998

Subject	State total	Hawaii	Kauai	Maui	Molokai	Oahu
Properties	64	12	17	25	1	9
Units 1/	3,671	790	1,284	878	7	712

1/ Number of units registered which have been designated for sale as timeshare.

Source: Hawaii Visitors & Convention Bureau, *HVCB 1998 Visitor Plant Inventory*, pp. 59-60.

**Table 21.14-- TENURE AND CONTROL OF HOUSING UNITS: ANNUALLY,
1980 TO 1995**

[Data include some condominium units occupied or intended for occupancy by nonresidents]

Year	All housing units 1/	Owner-occupied units 2/		Renter-occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 1/	State and County 1/
1980	334,235	100,478	36,986	170,963	19,437	6,371
1981	341,764	104,677	37,413	173,644	19,427	6,603
1982	346,726	106,147	37,372	177,325	19,392	6,490
1983	349,996	108,761	35,586	179,831	19,304	6,514
1984	354,484	111,767	35,545	181,034	19,294	6,844
1985	358,581	114,548	35,681	182,050	19,280	7,022
1986	363,416	117,090	35,811	184,343	19,264	6,908
1987	369,425	121,019	35,959	186,109	19,265	7,073
1988	375,434	126,563	33,579	188,851	19,394	7,047
1989	382,052	132,691	30,996	191,657	19,421	7,287
1990	389,810	138,520	29,047	195,601	19,245	7,397
1991	398,325	141,846	26,915	202,266	19,358	7,940
1992	407,606	146,631	24,599	208,226	19,697	8,453
1993	413,830	152,147	20,393	213,140	(NA)	(NA)
1994	420,748	159,527	17,308	215,763	(NA)	(NA)
1995	430,417	166,953	14,037	218,981	21,069	9,377

NA Not available.

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions as of January 1. The number of owner-occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (Statistical Report 230, September 1996).

**Table 21.15--HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY,
1980 TO 1995**

[As of April 1. Data include some condominium units occupied or intended for occupancy by nonresidents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
1980	334,235	252,038	82,197	34,215	14,828	33,154
1981	341,764	254,815	86,949	36,041	16,021	34,887
1982	346,726	256,689	90,037	37,453	16,476	36,108
1983	349,996	259,149	90,847	38,264	16,044	36,539
1984	354,484	262,337	92,147	39,164	16,318	36,665
1985	358,581	265,412	93,169	40,054	16,428	36,687
1986	363,416	268,551	94,865	41,006	16,556	37,303
1987	369,425	272,134	97,291	42,022	16,690	38,579
1988	375,434	275,520	99,914	43,397	16,871	39,646
1989	382,052	278,191	103,861	45,520	17,173	41,168
1990	389,810	281,683	108,127	48,253	17,613	42,261
1991	398,325	284,835	113,490	50,579	18,649	44,262
1992	407,606	288,805	118,801	53,421	19,439	45,941
1993	413,830	293,020	120,810	55,396	18,195	47,219
1994	420,748	296,699	124,049	57,204	18,758	48,087
1995	430,417	303,653	126,764	58,143	19,470	49,151

1/ Including Kalawao County.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (Statistical Report 230, September 1996).

**Table 21.16-- TENURE AND CONTROL OF HOUSING, BY COUNTIES:
1993 TO 1995**

[Some condominium units occupied by nonresidents are included in these estimates]

Year and county	All housing units 1/	Owner-occupied units 2/		Renter-occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 1/	State and County 1/
1993						
State total	413,830	152,147	20,393	213,140	19,697	8,453
City & Co. of Honolulu	293,020	104,570	18,642	143,856	19,618	6,334
County of Hawaii	55,396	23,155	645	30,420	8	1,168
County of Kauai	18,195	8,697	399	8,702	65	332
County of Maui 4/	47,219	15,725	707	30,162	6	619
1994						
State total	420,748	159,527	17,308	215,763	19,697	8,453
City & Co. of Honolulu	296,699	109,915	15,614	145,218	19,618	6,334
County of Hawaii	57,204	24,121	647	31,260	8	1,168
County of Kauai	18,758	9,019	328	9,014	65	332
County of Maui 4/	48,087	16,472	719	30,271	6	619
1995						
State total	430,417	166,953	14,037	218,981	21,069	9,377
City & Co. of Honolulu	303,653	115,217	12,279	148,110	20,977	7,070
County of Hawaii	58,143	25,131	652	31,161	8	1,191
County of Kauai	19,470	9,363	388	9,204	78	437
County of Maui 4/	49,151	17,242	718	30,506	6	679

1/ As of April 1. Governmental units for 1993 and 1994 are based on 1992 data.

2/ As of January 1. Based on the number of taxpayers claiming home exemptions, rather than on the census tabulations on tenure.

3/ Calculated as a residual and not attributable to any specific month.

4/ Includes Kalawao County (95 units in 1995).

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (Statistical Report 230, September 1996).

**Table 21.17-- NUMBER OF TAXPAYERS CLAIMING HOME EXEMPTIONS:
1993 TO 1998**

[As of January 1. Based on number of taxpayers claiming home exemptions]

Tenure and county	1993	1994	1995	1996	1997	1998
TOTAL OWNER-OCCUPIED						
State total	172,540	176,835	180,990	184,662	185,208	188,570
Honolulu	123,212	125,529	127,496	129,542	128,489	130,823
Maui	16,432	17,191	17,960	18,449	18,903	19,166
Hawaii	23,800	24,768	25,783	26,899	27,912	28,536
Kauai	9,096	9,347	9,751	9,772	9,904	10,045
FEE SIMPLE						
State total	152,147	159,527	166,953	171,767	173,237	176,973
Honolulu	104,570	109,915	115,217	118,304	118,157	120,843
Maui	15,725	16,472	17,242	17,695	18,161	18,437
Hawaii	23,155	24,121	25,131	26,250	27,260	27,881
Kauai	8,697	9,019	9,363	9,518	9,659	9,812
LEASEHOLD						
State total	20,393	17,308	14,037	12,895	11,971	11,597
Honolulu	18,642	15,614	12,279	11,238	10,332	9,980
Maui	707	719	718	754	742	729
Hawaii	645	647	652	649	652	655
Kauai	399	328	388	254	245	233

1/ For a comparison of 1990 and earlier data on owner occupancy from the Census of Housing, see DBEDT's Statistical Report 223, "Housing Unit Estimates for Hawaii, 1980-1991" (January 1992), table 9.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii* (annual).

**Table 21.18-- RESIDENT AND NONRESIDENT HOUSING UNITS,
BY COUNTIES: ANNUALLY, 1984 TO 1994**

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
RESIDENT 2/						
1984	336,882	255,450	81,432	37,262	14,720	29,450
1985	336,777	256,396	80,381	37,775	14,352	28,254
1986	340,417	258,713	81,704	38,954	13,982	28,768
1987	347,529	262,898	84,631	39,920	14,059	30,652
1988	354,314	267,885	86,429	41,043	14,016	31,370
1989	362,912	272,272	90,640	43,502	14,139	32,999
1990	370,682	276,618	94,064	46,138	15,047	32,879
1991	378,438	280,167	98,271	48,178	16,114	33,979
1992	384,961	280,672	104,289	51,087	16,752	36,450
1993	392,749	285,200	107,549	53,176	16,526	37,847
1994	399,501	289,864	109,637	54,721	15,878	39,038
NONRESIDENT 3/						
1984	17,602	6,887	10,715	1,902	1,598	7,215
1985	21,804	9,016	12,788	2,279	2,076	8,433
1986	22,999	9,838	13,161	2,052	2,574	8,535
1987	21,896	9,236	12,660	2,102	2,631	7,927
1988	21,120	7,635	13,485	2,354	2,855	8,276
1989	19,140	5,919	13,221	2,018	3,034	8,169
1990	19,128	5,065	14,063	2,115	2,566	9,382
1991	19,887	4,668	15,219	2,401	2,535	10,283
1992	22,645	8,133	14,512	2,334	2,687	9,491
1993	21,081	7,820	13,261	2,220	1,669	9,372
1994	21,247	6,835	14,412	2,483	2,880	9,049

1/ Includes Kalawao.

2/ Estimated as of April 1. Includes all housing units other than condominium units in rental pools and intended for transient occupancy.

3/ Condominium units in rental pools and intended for transient occupancy, based on survey data from the Hawaii Visitors Bureau. Includes condo/hotel units.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (Statistical Report 230, September 1996), and Hawaii Visitors Bureau, *Visitor Plant Inventory Report* (annual).

Table 21.19-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES: 1990

[Data include some condominium units used or intended for use by transients]

Subject	State total 1/	Honolulu	Hawaii	Kauai	Maui
ALL HOUSING UNITS					
All housing units	389,810	281,683	48,253	17,613	42,160
Units in structure:					
1 unit, detached	202,990	126,553	36,622	13,934	25,781
1 unit, attached	34,041	28,914	1,399	1,158	2,569
2 to 4 units	24,182	19,384	2,150	1,053	1,595
5 to 9 units	22,258	18,285	1,642	446	1,885
10 or more units	100,238	84,378	5,561	647	9,652
Mobile home, boat, other	6,101	4,169	879	375	678
Mean number of rooms	4.4	4.4	4.6	4.6	4.2
OCCUPIED HOUSING UNITS					
Total	356,267	265,304	41,461	16,295	33,145
With 1.01 or more persons per room	56,708	43,526	5,155	2,613	5,411
VACANT HOUSING UNITS					
Total	33,543	16,379	6,792	1,318	9,015
For seasonal, recreational, or occasional use	12,806	4,462	2,045	333	5,944
Homeowner vacancy rate	0.8	0.6	1.5	0.7	1.5
Rental vacancy rate	5.4	4.3	10.3	4.3	9.9
OWNER-OCCUPIED HOUSING UNITS					
Total	191,911	137,910	25,336	9,582	19,083
1 unit, detached or attached	153,596	103,716	24,063	9,042	16,775
Percent of all occupied units	53.9	52.0	61.1	58.8	57.6
Persons per unit	3.19	3.23	2.93	3.28	3.23
Mean number of rooms	5.2	5.3	5.2	5.2	5.0

Continued on next page.

**Table 21.19-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES:
1990 -- Con.**

Subject	State total 1/	Honolulu	Hawaii	Kauai	Maui
VALUE OF SPECIFIED OWNER- OCCUPIED HOUSING UNITS 2/					
Total	144,431	98,541	21,910	8,414	15,566
Less than \$100,000	16,450	4,056	9,414	1,164	1,816
\$100,000 to \$199,999	37,825	19,781	8,159	4,028	5,857
\$200,000 to \$299,999	39,679	30,702	2,500	1,854	4,623
\$300,000 or more	50,477	44,002	1,837	1,368	3,270
Lower quartile (dollars)	156,800	202,700	77,000	122,000	141,500
Median (dollars)	245,300	283,600	113,000	171,500	202,100
Upper quartile (dollars)	358,800	391,500	176,400	254,800	284,300
RENTER-OCCUPIED HOUSING UNITS					
Total	164,356	127,394	16,125	6,713	14,062
1 unit, detached or attached	71,634	47,233	9,877	5,039	9,423
Persons per unit	2.78	2.80	2.76	2.85	2.66
Mean number of rooms	3.7	3.6	3.8	3.9	3.6
CONTRACT RENT OF SPECIFIED RENTER-OCCUPIED UNITS 3/					
Total	139,266	107,256	13,941	5,822	12,243
Less than \$250	15,119	9,653	2,841	1,253	1,368
\$250 to \$499	36,779	27,231	5,797	1,392	2,359
\$500 to \$749	43,763	35,258	3,154	1,473	3,878
\$750 to \$999	25,164	20,019	1,414	1,092	2,639
\$1,000 or more	18,441	15,095	735	612	1,999
Lower quartile (dollars)	401	423	288	301	434
Median (dollars)	599	615	428	532	658
Upper quartile (dollars)	837	854	626	807	899

1/ Includes Kalawao County (101 housing units), not shown separately.

2/ House and lot. Data limited to one-family houses on less than 10 acres without a business or medical office on the property.

3/ Excludes one-family houses on 10 acres or more.

Source: 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 8, 10, and 12.

**Table 21.20-- NUMBER OF HOUSING UNITS IN OAHU NEIGHBORHOODS:
1990, 1995, 1996 AND 1997**

Neighborhood Board 1/ (see maps on pp. 642-643)	1990	1995	1996	1997	Percent change 1990-1997
Oahu total 1/	281,683	305,995	309,549	311,209	10.5
1 Hawaii Kai	9,234	9,632	9,648	9,770	5.8
2 Kuliouou-Kalani Iki	5,175	5,407	5,435	5,489	6.1
3 Waialae-Kahala	4,014	4,009	4,008	4,010	-0.1
4 Kaimuki	6,383	6,473	6,489	6,495	1.8
5 Diamond Head/Kapahulu/ St. Louis Heights	8,734	8,856	8,916	8,916	2.1
6 Palolo	4,208	4,238	4,236	4,236	0.7
7 Manoa	6,904	7,221	7,220	7,219	4.6
8 McCully/Moiliili	14,046	14,159	14,137	14,175	0.9
9 Waikiki	17,198	18,553	18,606	18,460	7.3
10 Makiki/Lower Punchbowl/ Tantalus	15,328	15,517	15,593	15,628	2.0
11 Ala Moana/Kakaako	6,779	8,516	8,797	8,791	29.7
12 Nuuanu/Punchbowl	5,982	6,097	6,104	6,109	2.1
13 Downtown	5,911	7,081	7,171	7,247	22.6
14 Liliha/Kapalama	6,838	6,896	6,930	6,934	1.4
15 Kalihi-Palama	11,107	11,026	11,001	10,993	-1.0
16 Kalihi Valley	4,146	4,128	4,131	4,130	-0.4
17 Moanalua	3,624	3,757	3,758	3,758	3.7
18 Aliamanu/Salt Lake/ Foster Village	12,217	12,458	12,933	12,936	5.9
19 Airport	5,996	6,135	6,235	6,271	4.6
20 Aiea	10,867	11,101	11,103	11,156	2.7
21 Pearl City	13,899	14,096	14,321	14,487	4.2
22 Waipahu	14,202	17,074	17,273	17,357	22.2
23 Ewa	11,691	18,693	19,419	19,875	70.0
24 Waianae Coast	10,711	11,561	12,012	12,107	13.0
25 Mililani/Waipio/Melemanu	10,738	11,039	11,198	11,233	4.6
26 Wahiawa	11,268	15,185	15,717	15,901	41.1
27 North Shore	5,287	6,041	6,029	6,259	18.4
28 Koolauloa	4,422	4,483	4,493	4,593	3.9
29 Kahaluu	4,409	4,590	4,591	4,601	4.4
30 Kaneohe	12,452	13,183	13,205	13,212	6.1
31 Kailua	15,709	16,392	16,443	16,458	4.8
32 Waimanalo	2,204	2,398	2,397	2,403	9.0

1/ Mokapu/Kaneohe MCAS is included in the Kailua Neighborhood Board. Also, data are not listed separately for the Makakilo/Kapolei/Honokai Hale and the Mililani Mauka/Launani Valley Neighborhood Boards which were recently formed from other existing neighborhood board areas.

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

Table 21.21-- SUMMARY HOUSING CHARACTERISTICS, BY COUNTIES: 1990

[Data include some condominium units used or intended for use by transients]

Characteristic	State total 1/	Hawaii	Honolulu	Kauai	Maui
All housing units	389,810	48,253	281,683	17,613	42,160
Percent--					
Structure built 1980-1990	20.8	35.1	15.9	32.3	32.5
Structure built before 1940	6.7	10.8	5.8	10.2	6.5
Under 2 bedrooms	26.1	19.5	27.4	15.7	29.2
4 or more bedrooms	13.4	10.5	14.7	10.2	9.2
Condominium	20.8	8.1	23.5	5.1	23.8
Lacking complete plumbing	1.1	3.6	0.6	1.3	1.2
With public sewer	80.2	27.8	93.6	30.9	72.2
Lacking complete kitchen facilities	1.6	3.4	1.3	1.8	1.4
All occupied units	356,267	41,461	265,304	16,295	33,145
Percent with no telephone in unit	2.6	5.5	2.1	3.0	3.2
Owner-occupied units	191,894	25,336	137,893	9,582	19,083
Percent householder moved into unit--					
1989 to March 1990	9.7	11.1	9.2	9.6	10.9
Before 1970	29.1	24.0	30.7	27.8	25.2
With a mortgage	102,601	12,968	73,972	5,246	10,415
Median monthly costs (dollars)	1,008	669	1,121	828	933
Percent of household income	21.4	20.5	21.5	21.2	22.3
Not mortgaged	44,909	9,280	26,931	3,313	5,385
Median monthly costs (dollars)	170	130	185	152	160
Percent of household income	10.8	10.9	10.7	10.9	11.1
Renter-occupied units	164,373	16,125	127,411	6,713	14,062
Percent householder moved into unit--					
1989 to March 1990	38.9	42.2	38.1	34.9	44.8
Before 1970	4.1	4.5	4.0	6.9	3.6
Median gross rent (dollars)	650	490	663	618	722
Percent of household income	27.4	27.0	27.6	24.1	27.1

1/ Includes Kalawao County (101 housing units), not shown separately.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, Hawaii*, 1990 CPH-5-13 (April 1992), tables 12, 14, and 16.

**Table 21.22--CHARACTERISTICS OF HOUSING UNITS, FOR THE STATE,
1992 AND 1997, AND COUNTIES, 1997**

[Figures may vary significantly between the Housing Inventory study and the Demand Survey.
Results from each section were obtained using different criteria, methodologies and data sources]

Subject	The State		Counties, 1997			
	1992	1997	Hono- lulu	Maui	Hawaii	Kauai
HOUSING INVENTORY STUDY						
All units	400,388	442,867	309,473	54,639	54,643	24,112
Type:						
Single family	217,610	238,487	145,078	32,379	43,979	17,051
Condominium	109,861	125,193	92,503	18,362	8,539	5,789
Apartment	46,116	50,512	43,732	3,768	1,814	1,198
Military	19,398	20,145	20,071	-	-	74
Student	4,689	4,771	4,405	55	311	-
Cooperative	2,714	3,759	3,684	75	-	-
Owner-occupied (percent)	42.6	44.2	43.4	40.1	53.3	43.7
Single family	63.8	65.6	68.6	59.5	63.2	58.2
Condominium	28.8	31.5	37.7	14.4	15.4	10.3
HOUSING DEMAND SURVEY (Excludes military, student, transient, and vacant units)						
Survey base	281,095	376,574	272,234	39,252	46,271	18,817
Owner-occupied (percent)	51.9	57.9	53.8	65.0	72.3	67.1
Household income (median)	\$36,289	\$39,883	\$42,234	\$38,908	\$31,831	\$34,891
Poor condition (percent)						
Owner-occupied	1.5	3.6	3.7	3.3	4.1	3.0
Renter-occupied	6.0	6.3	6.0	5.0	9.6	6.7
Average monthly mortgage 1/	\$800	\$1,319	\$1,430	\$1,210	\$954	\$1,151
Average monthly rent 2/	\$793	\$897	\$928	\$850	\$697	\$830
Overcrowded 3/	22.2	10.2	10.6	10.4	7.9	9.1
Percent completed surveys	(NA)	1.4	0.4	2.7	6.5	2.1

1/ Excludes responses from households with paid-up mortgages.

2/ Excludes responses from those who occupied their units without payment of cash rent.

3/ Percent with 1.01 or more persons per room.

Source: *Hawaii Housing Policy Study 1997 Update*, prepared by Prudential Locations, Inc., and SMS Research & Marketing Services (Feb. 1998), pp. II-12,29,30; IV-9,10,11,12,13, and 14; *Hawaii Housing Policy Study*, prepared by Locations, Inc. and SMS Research & Marketing Services (May 1993), p. B-3.

**Table 21.23-- TENURE AND VALUE OF CONDOMINIUM UNITS,
BY COUNTIES: 1990**

County	All housing units	Condominium housing units			Median value 2/ (dollars)	
		Total	Owner-occupied	Renter-occupied		Vacant 1/
State total	389,810	81,127	35,078	30,450	15,599	191,600
Honolulu	281,683	66,264	32,063	26,383	7,818	195,800
Other counties	108,127	14,863	3,015	4,067	7,781	142,400
Hawaii	48,253	3,924	835	1,596	1,493	125,100
Kalawao	101	-	-	-	-	-
Kauai	17,613	900	267	465	168	127,800
Maui	42,160	10,039	1,913	2,006	6,120	149,700

1/ Includes vacant for seasonal, recreational, or occasional use, time-share units, and units temporarily occupied at the time of enumeration entirely by persons who have a usual place of residence elsewhere.

2/ For owner-occupied condominium housing units only.

Source: U.S. Bureau of the Census, *1990 Census of Housing, Detailed Housing Characteristics, Hawaii*, 1990 CH-2-13 (August 1993), tables 13, 35, and 66.

**Table 21.24-- VACANCY AND HOMEOWNERSHIP RATES, FOR THE STATE
AND HONOLULU MSA: 1988 TO 1998**

Year	Rental vacancy rate		Homeowner vacancy rate		Homeownership rate	
	State total	Honolulu MSA 1/	State total	Honolulu MSA 1/	State total	Honolulu MSA 1/
1988	6.3	4.1	0.4	0.5	53.2	52.2
1989 2/	6.6	5.1	1.0	0.7	54.7	52.2
1990	6.6	3.8	0.8	0.7	55.5	52.9
1991	5.8	3.8	1.4	0.9	55.2	53.3
1992	5.8	3.4	2.5	0.9	53.8	52.6
1993 2/	6.8	3.9	3.0	1.3	52.8	51.9
1994	7.4	5.0	2.0	1.4	52.3	51.5
1995	6.3	5.4	2.0	1.8	50.2	49.1
1996	6.0	4.7	1.4	1.3	50.6	49.1
1997	7.1	6.4	1.6	1.3	50.2	48.5
1998	6.9	6.3	1.3	0.9	52.8	51.2
Standard error	0.9	1.0	0.3	0.1	1.1	1.3
U.S. 1998	7.9	3/ 7.7	1.7	3/ 1.7	66.3	3/ 64.2

1/ The Honolulu Metropolitan Statistical Area consists of the City and County of Honolulu.

2/ Revised dataset.

3/ Rate for all U.S. inside metropolitan areas. Data from 1986 to 1994 are based on 1980 metropolitan/nonmetropolitan definitions, while 1995 and later data are based on 1990 metropolitan/nonmetropolitan definitions.

Source: U.S. Bureau of the Census, "Housing Vacancies and Homeownership Annual Statistics: 1998," at <http://www.census.gov/hhes/www/housing/hvs/annual98/>.

**Table 21.25-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE SPACE
FOR THE METROPOLITAN HONOLULU OFFICE MARKET,
BY SUBMARKET: 1990 TO 1998**

[The Metropolitan Honolulu Office Market survey includes 111 multi-tenant Class A and Class B buildings with 20,000 square feet or more. Rates are percent of space reported vacant in survey]

Vacancy Rate 1/	1990	1991	1992	1993	1994	1995	1996	1997	1998
Downtown 2/	3.1	3.8	10.0	13.9	15.4	16.4	16.1	15.2	14.2
Suburban 3/	4.2	5.6	7.2	7.8	11.1	12.1	12.9	12.5	14.5

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 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 20,000 square feet and above.

Source: CB Richard Ellis, Inc. records; Society of Industrial and Office Realtors & Lauder Real Estate Counselors, *1998 Comparative Statistics of Industrial and Office Real Estate Markets* (1998).

Table 21.26-- HAWAII HOUSING AUTHORITY OPERATIONS: 1996 TO 1998

Subject	1996	1997	1998
Total units owned by HHA, June 30	6,312	6,352	1/ 6,577
Occupied	5,994	5,876	6,095
Population in units, June 30	16,410	16,116	16,771
Per occupied unit	2.55	2.40	2.60
Total assets, June 30 (million dollars)	301	308	308
Operating revenues of HHA, fiscal year: 2/			
Gross (\$1,000)	21,428	22,469	22,791
Net (\$1,000)	2,164	3,831	2,502
Operating revenues per unit per month, fiscal year (dollars) 2/	283	295	351
Rent charged per unit per month, fiscal year (dollars) 2/	199	195	199

1/ Federal low-rent, 5,407; State low-rent, 594; State elderly, 576.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

**Table 21.27-- PERSONS SERVED BY STATE HOMELESS PROGRAMS:
1997 AND 1998**

[Years ended June 30. Figures shown are unduplicated counts of persons receiving services under the State Stipend and Outreach programs]

Year and program	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1997					
Total persons	12,629	8,357	1,871	446	1,955
Outreach Program	6,772	4,306	1,083	421	962
Stipend Program	5,857	4,051	788	25	993
1998					
Total persons	12,887	8,342	1,600	595	2,350
Outreach Program	6,272	3,589	837	567	1,279
Stipend Program	6,615	4,753	763	28	1,071

Source: Hawaii State Department of Business, Economic Development & Tourism, Housing and Community Development Corporation of Hawaii, Homeless Programs Section, records.

**Table 21.28-- CHARACTERISTICS OF NEW CLIENTS ENTERING THE STATE
HOMELESS OUTREACH PROGRAMS: 1998**

[Year ended June 30. Figures shown are unduplicated counts of persons
in the state homeless programs]

Subject	Persons	Subject	Persons 2/
Total	1,730	Hawaii residency	
Number of persons		Traveller/transient	87
City & County of Honolulu	638	Less than 3 months (intention to stay)	301
Hawaii	464	3 months to 2 years	293
Kauai	285	Long time resident	1,038
Maui	343	Reason for homelessness 3/	
Age		Little or no income	434
Under 1 years	14	Unable to find affordable housing	309
1 to 5 years	97	Transient from mainland/ other	173
6 to 12 years	120	Loss of employment	117
13 to 18 years	83	Other family conflicts	106
19 to 44 years	1,064	Eviction	92
45 to 60 years	318	Other	367
Over 60 years	31	Housing status	
Race		Street/park/vehicle/ tent	981
Caucasian	899	Sheltered	167
Black	54	Transitional	35
Native American/Alaskan	29	Doubling up	26
Hawaiian/Part Hawaiian	412	Other	44
Filipino	69		
Other	296		
Length of homelessness 1/			
Less than 1 month	288		
1 month to 1 year	356		
More than 1 year	77		

1/ Based on families, not individuals.

2/ Excludes figures for the "not known" category.

3/ More than one response per person was allowed.

Source: Hawaii State Department of Business, Economic Development & Tourism, Housing and Community Development Corporation of Hawaii, Homeless Programs Section, records.

Table 21.29-- CHARACTERISTICS OF PERSONS PARTICIPATING IN THE STATE HOMELESS STIPEND PROGRAMS: 1998

[Year ended June 30. Figures shown are unduplicated counts of persons in the state homeless programs who responded to questionnaire. Most categories include only adults]

Subject	Persons 1/	Subject	Persons 1/
Total	4,027	Sex	
		Male	2,097
Number of persons		Female	1,910
City & County of Honolulu	2,165	Hawaii residency	
Hawaii	763	Less than 6 months	321
Kauai	28	6 to 11 months	89
Maui	1,071	1 to 5 years	348
Age of child		6 to 10 years	193
Under 1 years	195	10 years and over	427
1 to 5 years	593	Lifetime	1,008
6 to 12 years	599	Employment	
13 to under 18 years	218	Unemployed	1,797
Age of adult		Part-time	346
Under 18 years 2/	10	Full-time	246
18 to 29 years	779	Family status 3/	
30 to 39 years	798	Single, no children	1,235
40 to 49 years	515	Couple, no children	32
50 to 59 years	176	Single, with children	474
60 years and over	104	Couple, with children	248
Race		Other	20
Caucasian	1,191	Length of homelessness 3/	
Black	221	0 days/At risk	528
Samoan	170	Less than 1 month	708
Filipino	260	1 to 3 months	332
Japanese	93	4 to 12 months	223
Hawaiian/part Hawaiian	1,436	1 to 2 years	120
Other Pacific Islander	162	More than 2 years	90
Other	484	Other	1

1/ Excludes figures for the "not known" category.

2/ Includes situations where the person is under 18 years old, but has a dependent child.

3/ Based on families, not individuals.

Source: Hawaii State Department of Business, Economic Development & Tourism, Housing and Community Development Corporation of Hawaii, Homeless Programs Section, records.

**Table 21.30-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE
OF LICENSE AND LOCATION: MARCH 2, 1999**

[Real estate licenses are subject to renewal on or before December 31 of each even-numbered year]

Type of license	Active	Inactive	Location	Active	Inactive
Total	8,355	3,980	Oahu	5,537	2,571
			Hawaii	1,065	407
Broker:			Maui	1,177	375
Individual	3,333	571	Kauai	545	197
Corporation or partnership	967	52	Molokai	26	3
Limited Liability Corporation/ Limited Liability Partnership	30	-	Lanai	4	3
			U.S. mainland	1	392
Salesman	4,025	3,356	Foreign	-	32

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

**Table 21.31-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR
OAHU: 1988 TO 1998**

[Data include single family, condominium/cooperative, vacant, multi-family,
commercial/industrial, business opportunities]

Year	Number listed	Number sold	Percent sold	Average 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

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.32-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE
OF PROPERTY, FOR OAHU: 1996 TO 1998**

Year and type of property	Number listed	Number sold	Percent sold	Sales price (dollars)	
				Mean	Median
1996					
Total	12,147	3,896	32.1	300,494	...
Single family	4,649	1,749	37.6	409,441	335,000
Condominium/cooperative	6,441	1,990	30.9	202,494	175,000
Vacant land	490	91	18.6	285,986	250,000
Multi-family	230	22	9.6	677,227	537,500
Commercial	146	13	8.9	653,292	425,000
Business opportunities	191	31	16.2	72,000	59,500
1997					
Total	11,868	4,313	36.3	281,785	...
Single family	4,858	2,025	41.7	380,507	307,000
Condominium/cooperative	6,000	2,100	35.0	178,090	150,000
Vacant land	549	117	21.3	348,187	239,000
Multi-family	203	34	16.7	561,957	454,500
Commercial	123	21	17.1	475,405	470,000
Business opportunities	135	16	11.9	62,168	34,400
1998					
Total	11,721	5,351	45.7	269,839	...
Single family	4,855	2,495	51.4	370,021	297,000
Condominium/cooperative	6,010	2,632	43.8	160,978	135,000
Vacant land	450	156	34.7	383,960	230,000
Multi-family	169	34	20.1	546,647	441,000
Commercial	130	23	17.7	787,011	450,000
Business opportunities	107	11	10.3	38,727	42,000

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.33-- MULTIPLE LISTING SERVICE SINGLE-FAMILY HOUSES SOLD,
BY SELLING PRICE RANGE, FOR OAHU: 1997 AND 1998**

Selling price range	1997	1998
All properties	2,025	2,428
On leased land	46	67
Percent	2.3	2.8
Less than \$100,000	17	12
\$100,000 to \$149,999	32	69
\$150,000 to \$199,999	169	255
\$200,000 to \$249,999	378	447
\$250,000 to \$299,999	369	418
\$300,000 to \$349,999	319	314
\$350,000 to \$399,999	207	254
\$400,000 to \$449,999	132	139
\$450,000 to \$499,999	93	123
\$500,000 to \$549,999	64	79
\$550,000 to \$599,999	46	63
\$600,000 to \$649,999	31	44
\$650,000 to \$699,999	30	45
\$700,000 to \$799,999	42	43
\$800,000 to \$899,999	31	34
\$900,000 to \$999,999	15	19
\$1.0 to \$1.9 million	33	56
\$2.0 to \$2.9 million	12	8
\$3.0 to \$3.9 million	2	4
\$4.0 to \$4.9 million	1	2
\$5.0 million or more	2	-
Median value	\$307,000	\$297,000
Mean value	\$380,507	\$370,021

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.34-- MULTIPLE LISTING SERVICE COOPERATIVE AND
CONDOMINIUM UNITS SOLD, BY SELLING PRICE RANGE, FOR OAHU:
1996 TO 1998**

Selling price range	1996	1997	1998		
			Total	Fee simple	Leasehold
All properties	1,990	2,100	2,632	1,846	786
Less than \$50,000	37	88	206	73	133
\$50,000 to \$74,999	69	173	281	145	136
\$75,000 to \$99,999	124	206	298	200	98
\$100,000 to \$124,999	182	260	389	269	120
\$125,000 to \$149,999	279	301	361	275	86
\$150,000 to \$174,999	299	241	249	196	53
\$175,000 to \$199,999	260	215	186	148	38
\$200,000 to \$224,999	185	145	174	136	38
\$225,000 to \$249,999	138	120	121	101	20
\$250,000 to \$274,999	109	59	89	76	13
\$275,000 to \$299,999	52	45	50	47	3
\$300,000 to \$399,999	140	145	111	85	26
\$400,000 to \$499,999	40	46	61	46	15
\$500,000 to \$599,999	34	27	22	17	5
\$600,000 to \$699,999	11	16	13	13	-
\$700,000 to \$799,999	19	3	5	4	1
\$800,000 to \$899,999	7	4	4	3	1
\$900,000 to \$999,999	1	3	7	7	-
\$1,000,000 or more	4	3	5	5	-
Median value	\$175,000	\$150,000	\$135,000	\$145,000	\$102,000
Mean value	\$202,494	\$178,090	\$160,978	\$176,428	\$124,693

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.35-- MULTIPLE LISTING SERVICE, NUMBER OF SINGLE FAMILY AND CONDOMINIUM RESALES, BY ISLAND: 1988 TO 1998

Category and year	State total	Oahu	Hawaii	Kauai	Maui
SINGLE FAMILY					
1988	4,656	3,007	869	223	557
1989	4,533	2,923	841	203	566
1990	4,828	2,695	1,231	266	636
1991	3,225	1,817	795	152	461
1992	3,350	1,858	820	264	408
1993	3,216	1,895	761	190	370
1994	3,643	2,150	906	199	388
1995	2,937	1,618	823	142	354
1996	3,133	1,725	805	162	441
1997	3,692	1,993	950	199	550
1998	4,646	2,492	1,152	321	681
CONDOMINIUM					
1988	8,395	6,622	382	270	1,121
1989	8,333	6,467	372	217	1,277
1990	8,528	6,028	674	277	1,549
1991	4,530	3,372	315	158	685
1992	3,967	3,104	264	94	505
1993	3,986	3,166	292	75	453
1994	4,341	3,322	314	138	567
1995	3,120	2,195	282	96	547
1996	3,013	1,969	358	123	563
1997	3,475	2,055	443	144	833
1998	4,440	2,638	494	267	1,041

Source: Data compiled by Prudential Locations Research from each county's Board of Realtors MLS.

**Table 21.36-- MULTIPLE LISTING SERVICE, MEDIAN SALES PRICE OF
SINGLE FAMILY AND CONDOMINIUM REALES, BY ISLAND:
1988 TO 1998**

[In dollars]

Category and year	State total 1/	Oahu	Hawaii	Kauai	Maui
SINGLE FAMILY					
1988	189,743	213,000	115,000	170,000	188,700
1989	236,565	270,000	136,000	204,000	225,000
1990	287,617	355,000	150,000	260,000	280,000
1991	286,026	345,000	165,000	247,500	275,000
1992	281,220	349,000	154,250	185,000	290,000
1993	292,359	350,000	170,000	231,613	280,000
1994	295,982	360,000	165,000	244,500	273,500
1995	280,932	349,000	155,000	250,000	275,000
1996	274,918	334,000	165,000	219,000	265,000
1997	253,675	305,000	155,000	221,000	249,950
1998	251,500	297,000	159,000	237,500	254,000
CONDOMINIUM					
1988	115,116	113,000	90,000	120,000	135,000
1989	136,556	137,000	115,000	140,000	140,000
1990	180,621	189,900	127,000	149,000	173,500
1991	182,913	192,000	137,000	162,500	164,000
1992	186,323	194,000	148,000	155,000	165,000
1993	186,148	192,500	140,000	165,000	175,000
1994	180,950	190,000	125,000	139,500	169,000
1995	172,702	182,000	123,000	150,000	165,000
1996	166,344	173,000	125,175	140,000	175,000
1997	145,570	150,000	125,000	120,000	150,000
1998	139,000	134,950	122,500	129,000	161,300

1/ Weighted by the number of resales.

Source: Data compiled by Prudential Locations Research from each county's Board of Realtors MLS.

**Table 21.37-- CHARACTERISTICS OF PRIVATE SINGLE-FAMILY AND
MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1992 TO 1997**

Year	Single-family developments				Multi-family developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1992	1,390	4,657	453	316,264	1,029	804	205,606
1993	1,385	4,707	1,074	321,775	891	900	182,796
1994	1,437	5,140	792	345,745	914	1,135	209,228
1995	1,350	4,530	902	301,452	845	698	210,448
1996	1,296	5,040	462	301,745	934	608	233,376
1997	1,367	4,366	548	277,535	905	274	202,694

1/ Four stories or less.

Source: Bank of Hawaii, *Construction in Hawaii 1998* (1998), pp. 20.

**Table 21.38-- MORTGAGES AND AGREEMENTS OF SALE:
1992 TO 1997**

Year	Mortgages recorded			Agreements of sale (\$1,000)	Mortgage loans outstanding, Dec. 31, 1/ (\$1,000)
	Number	Total value (\$1,000)	Average value (dollars)		
1992	65,248	12,319,317	188,808	286,428	8,657,335
1993	69,111	12,632,003	182,778	180,863	9,532,933
1994	51,076	9,005,637	176,318	144,718	9,921,883
1995	33,624	6,179,943	183,796	115,644	9,697,000
1996	34,233	6,329,846	184,905	128,783	9,699,800
1997	29,947	5,517,668	184,248	108,645	10,242,500

1/ Data exclude insurance and trust companies, 1995-1997.

Source: Bank of Hawaii, *Construction in Hawaii 1998* (1998), p. 31.

**Table 21.39-- CHARACTERISTICS OF SINGLE FAMILY HOMES INSURED
UNDER FHA SECTION 203(B): 1995 AND 1996**

Subject	1995	1996
Number insured	415	701
Proposed	232	293
Existing	183	408
Amount (\$1,000)	59,365	102,577
Proposed	34,250	42,178
Existing	25,115	60,399
Averages:		
Age of structure (years)	14.0	12.3
Improved living area (square feet)	(B)	(B)
Lot size (square feet)	(B)	(B)
Number of rooms	(B)	(B)
Market price of site (dollars)	(B)	(B)
Site to value ratio (percent)	(B)	(B)
Site price per square foot (dollars)	(B)	(B)
Construction cost per square foot (dollars)	(B)	(B)
Appraisal value (dollars)	177,505	171,483
Sales price per square foot (dollars)	(B)	(B)
Annual effective income (dollars)	55,656	55,981

B Sample under 25.

Source: U.S. Department of Housing and Urban Development, Information Systems Division, *FHA Homes - 1995, Sec. 203(b)*, pp. 31-51, and *FHA Homes - 1996, Sec. 203(b)*, pp. 31-51.

**Table 21.40-- NUMBER OF DEEDS FILED AND RECORDED AND
APPROXIMATE VALUE OF LAND CONVEYED: 1994 TO 1998**

[Years ended June 30. Data include leases, agreement of sales assignments, subleases,
timeshares, etc., as well as deeds]

Subject	1994	1995	1996	1997	1998
Number of deeds filed and recorded	69,305	61,821	61,087	61,021	63,411
Approximate value of land conveyed (\$1,000)	15,812,168	6,486,476	6,184,142	5,862,196	6,905,986

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.41-- APPROXIMATE VALUE OF LAND TRANSFERS, BY
COUNTIES: 1996 TO 1998**

[In dollars. For calendar years. Totals include leases, agreement of sales assignments,
subleases, etc., as well as deeds]

County	1996	1997	1998
State total	5,793,252,100	6,298,002,889	5,005,908,500
Honolulu	3,640,154,300	4,042,187,000	2,580,174,400
Maui	990,129,200	1,057,280,899	1,512,221,700
Hawaii	786,192,300	851,136,190	606,246,200
Kauai	376,776,300	347,398,800	307,266,200

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.42-- FORECLOSURE FILINGS, BY JUDICIAL CIRCUIT:
1993 TO 1998**

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

1/ City and County of Honolulu and Kalawao on Molokai.

2/ Maui County excludes Kalawao on Molokai.

3/ Hawaii County.

4/ Kauai County.

Source: The Judiciary, Office of the Administrative Director of the Courts, Statistics Office, records.

**Table 21.43-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES:
DECEMBER 31, 1998**

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	5,811	4,643	171	215	541	-	21	220
Elevators	4,854	3,839	123	203	480	-	20	189
Under 9 stories:								
Hydro	1,440	956	62	98	195	-	9	120
Roped	1,581	1,142	50	105	219	-	11	54
9 to 18 stories	1,134	1,042	11	-	66	-	-	15
19 to 28 stories	397	397	-	-	-	-	-	-
29 to 38 stories	214	214	-	-	-	-	-	-
39 stories or more	88	88	-	-	-	-	-	-
Escalators & moving walks/ speed ramps	401	380	6	-	13	-	-	2
Inclined lifts	11	4	3	1	-	-	1	2
Private industrial elevators	25	2	2	3	10	-	-	8
Manlifts	8	8	-	-	-	-	-	-
Handicap/chairlifts	183	135	20	6	11	-	-	11
Dumbwaiters	329	275	17	2	27	-	-	8
Material lifts	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 21.44-- TALLEST STRUCTURES, BY ISLANDS: MARCH 1999

Island and structure	Location	Year completed	Height	
			Stories	Feet
BUILDINGS 1/				
Hawaii: Bayshore Towers	Hilo	1970	15	135
Maui: Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Royal Lahaina Hotel	Kaanapali	1970	12	132
Lanai: Manele Hotel	Hulopoe Bay	1991	3	48
Molokai: Molokai Light Station	Kalaupapa	1909	...	138
Oahu: First Hawaiian Center	999 Bishop Street	1996	27	438
Nauru Tower	1330 Ala Moana Blvd.	1991	45	400
Waterfront Towers	425 South Street	1990	46	400
One Archer Lane	801 South King St.	1998	41	400
Kauai: Marriott Resort & Beach Club 2/	Lihue	1959	10	107
OTHER STRUCTURES				
Hawaii: Coast Guard Loran Station	Upolu Point	1958	...	625
Maui: KMVI Radio Tower	Wailuku	1992	...	455
Lanai: Storage tanks	Manele Harbor	...	...	50
Molokai: KAIM Radio Tower	Kalua Koi	1981	...	410
Oahu: VLF Antenna	Lualualei	1972	...	1,503
Kauai: Communication Engineers Tower	Mana	1964	...	400

1/ Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

2/ Formerly named the Westin Kauai Hotel.

Source: Compiled by DBEDT from Hawaii County Department of Research and Development, Maui County Department of Public Works and Waste Management, City and County of Honolulu Department of Planning and Permitting, and Kauai County Department of Public Works.

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 quinquennial *United States Census of Manufactures*, most recently published for 1992, the *United States Annual Survey of Manufactures*, publications of 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 26 of the *Statistical Abstract of the United States: 1998*.

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1996**

Subject	1963	1967	1972	1977	1982	1987
All establishments: 1/						
Total	672	697	773	949	967	1,022
With 20 employees or more	203	215	238	231	237	225
All employees:						
Number (1,000)	25.1	25.4	24.8	25.0	23.6	22.2
Payroll (million dollars)	109.0	139.6	191.1	276.8	360.4	440.2
Production workers:						
Number (1,000)	18.7	19.0	17.7	17.4	16.0	15.2
Hours (millions)	33.2	35.9	33.1	31.3	29.9	28.8
Wages (million dollars)	67.5	86.9	113.7	160.5	217.5	254.2
Value added by manufacture 3/ (million dollars)	261.1	326.2	410.0	785.5	1,119.6	1,405.3
Cost of materials 4/ (million dollars)	(NA)	399.6	548.3	1,176.1	2,357.5	2,048.8
Value of shipments 4/ (million dollars)	(NA)	723.4	955.6	1,974.0	3,443.0	3,447.9
New capital expenditures (million dollars)	15.4	26.0	46.7	44.4	89.4	102.0

Continued on next page.

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1996 -- Con.**

Subject	1991	1992	1993	1994	1995	1996
All establishments: 1/						
Total	(NA)	1,020	(NA)	(NA)	(NA)	(NA)
With 20 employees or more	(NA)	225	(NA)	(NA)	(NA)	(NA)
All employees:						
Number (1,000)	19.3	20.6	20.7	17.8	17.3	17.1
Payroll (million dollars)	466.1	547.4	711.7	505.4	2/ 508.1	509.4
Production workers:						
Number (1,000)	11.5	12.9	12.4	11.0	10.7	10.1
Hours (millions)	22.9	26.0	25.4	21.5	21.6	19.7
Wages (million dollars)	248.6	290.1	307.0	266.9	2/ 260.1	250.6
Value added by manufacture 3/ (million dollars)	1,383.3	1,556.5	2,192.8	1,527.4	2/ 1,485.6	1,608.5
Cost of materials 4/ (million dollars)	2,368.8	2,228.2	2,316.4	1,799.3	2/ 1,909.2	1,546.7
Value of shipments 4/ (million dollars)	3,805.3	3,791.7	4,510.1	3,336.8	2/ 3,435.5	3,145.5
New capital expenditures (million dollars)	64.1	107.1	174.6	202.8	2/ 112.8	79.0

NA Not available.

1/ Establishments with payroll at any time during year.

2/ Revised.

3/ Data for 1982 and later years not directly comparable to data for earlier years; see source for discussion.

4/ 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. Bureau of the Census, *1982 Census of Manufactures, Geographic Area Series, Hawaii*, MC82-A-12 (April 1985), table 2a; *1987 Census of Manufactures, Geographic Area Series, Hawaii*, MC87-A-12 (October 1990), table 2a; *1990 Annual Survey of Manufactures, Geographic Area Statistics*, M90 (AS)-3 (April 1992), table 1; *1991 Annual Survey of Manufactures, Geographic Area Statistics*, M91 (AS)-3 (February 1993), table 1; *1995 Annual Survey of Manufactures, Geographic Area Statistics*, M94 (AS)-3 (April 1997), table 1; *1996 Annual Survey of Manufactures, Geographic Area Statistics*, M96 (AS)-3 (April 1998), table 1 at <http://www.census.gov/prod/www/titles.html#mm>.

**Table 22.02-- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES:
1992**

[Includes operating manufacturing establishments and auxiliaries]

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All establishments 1/ (number)	1,020	768	114	40	98
With 20 employees or more	225	183	24	7	11
All employees:					
Number (1,000)	20.6	15.0	2.6	0.9	2.2
Payroll (million dollars)	547.4	409.8	54.7	21.0	61.9
Production workers:					
Number (1,000)	12.9	9.2	1.8	0.6	1.3
Hours (millions)	26.0	18.0	3.6	1.3	3.1
Wages (million dollars)	290.1	211.4	36.7	13.0	29.0
Value added by manufacture (million dollars)	1,556.4	1,228.6	141.4	42.0	144.3
Cost of materials 2/ (million dollars)	2,228.3	1,911.4	140.6	45.9	130.5
Value of shipments 2/ (million dollars)	3,791.7	3,150.7	278.4	87.7	275.0
New capital expenditures (million dollars)	107.1	81.8	6.3	7.3	11.6

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. Bureau of the Census, *1992 Census of Manufactures, Geographic Area Series, Hawaii*, MC92-A-12 (August 1995), table 4.

Table 22.03-- MANUFACTURES, BY SELECTED INDUSTRY GROUPS: 1996

[Includes operating manufacturing establishments and auxiliaries]

Subject	Food and kindred products (SIC 20)			Apparel, other textile products (SIC 23)	Printing and publishing (SIC 27)	Stone, clay, and glass products (SIC 32)
	Total	Preserved fruits and vegetables (SIC 203)	Sugar, confectionery products (SIC 206)			
All employees:						
Number (1,000)	5.5	1.0	1.6	2.4	3.8	1.1
Payroll (million dollars)	140.9	21.8	30.1	34.8	134.2	42.3
Production workers:						
Number (1,000)	3.3	0.9	1.1	1.7	2.2	0.7
Hours (million)	6.4	1.5	2.0	3.1	4.4	1.4
Wages (million dollars)	69.7	17.7	14.6	21.4	70.9	26.7
Value added by manufacture (million dollars)	533.3	49.9	(S)	85.4	329.2	97.5
Cost of materials (million dollars)	101.1	69.5	(S)	45.5	147.1	103.4
Value of shipments (million dollars)	632.3	119.3	(S)	131.0	469.6	204.2
New capital expenditures (million dollars)	21.1	1.5	8.6	1.3	9.7	(D)
End-of-year inventories (million dollars)	(S)	44.2	(S)	23.1	71.6	17.3

S Withheld because estimate did not meet publication standards.

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1996 Annual Survey of Manufactures, Geographic Area Statistics*, M96 (AS)-3, April 1998, table 2.

**Table 22.04-- OPERATING MANUFACTURING ESTABLISHMENTS
AND AUXILIARIES: 1977 TO 1992**

[Auxiliaries are establishments whose employees are primarily engaged in supporting services for other establishments of the same company, rather than for the general public or for other business firms]

Subject	1977	1982	1987	1992 1/
Employees (1,000)	25.0	23.6	22.2	20.6
Operating manufacturing establishments	23.6	22.9	21.7	20.0
Auxiliaries	1.4	0.7	0.5	0.6
Payroll (million dollars)	276.8	360.4	440.2	547.4
Operating manufacturing establishments	254.1	341.7	421.8	523.4
Auxiliaries	22.9	18.7	18.3	24.0

1/ In 1992, 21 of the 1,020 manufacturing establishments were auxiliaries.

Source: U.S. Bureau of the Census, *1992 Census of Manufactures, Geographic Area Series, Hawaii*, MC92-A-12 (August 1995), tables 1 and 5.

Table 22.05-- MANUFACTURING SALES RECEIPTS: 1994 TO 1997

[Millions of dollars]

Category	1994	1995	1996	1997
Total manufacturing	1/ 2,005.0	2,032.1	2,014.5	(NA)
Sugar processing	1/ 269.1	213.7	212.2	(NA)
Pineapple canning	81.1	72.5	78.2	(NA)
Petroleum	1,044.8	1,114.0	1,116.4	897.9
Diversified manufacturing	610.0	632.0	607.7	570.9

NA Not available.

1/ Revised.

Source: Bank of Hawaii, *Hawaii 1998* (1998), p. 39.

**Table 22.06-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:
1987 TO 1998**

[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]

Year reported 1/	Tax base	Year reported 1/	Tax base	Year reported 1/	Tax base
1987	595,140	1991	714,407	1995	614,771
1988	629,303	1992	714,470	1996	622,889
1989	630,997	1993	717,423	1997	2/ 581,259
1990	728,387	1994	618,238	1998	535,371

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

2/ Revised in September 1998.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

**Table 22.07-- LARGEST INDUSTRIAL AND HIGH TECHNOLOGY PARKS,
BY ISLANDS: 1998**

[Data taken from the 20 largest industrial and high technology parks]

Subject	State total	Hawaii	Maui	Oahu	Kauai
Number of parks and areas	20	4	2	13	1
Acres	4,531	1,498	491	2,473	69

Source: Pacific Business News, *1999 Hawaii Book of Lists*, p. 78.

**Table 22.08-- PINEAPPLE COMPANIES AND CANNERIES, AND
SUGAR COMPANIES AND MILLS: 1940 TO 1998**

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies	Canneries	Companies 1/	Mills
1940	8	8	38	34
1945	7	7	36	32
1950	9	8	28	26
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
1993	3	1	11	12
1994	3	1	9	10
1995	3	1	8	10
1996	3	1	4	6
1997	3	1	4	6
1998	3	1	4	6
ISLANDS: 1997				
Hawaii	-	-	-	-
Maui	1	1	2	3
Oahu	2	-	-	-
Kauai	-	-	2	3
ISLANDS: 1998				
Hawaii	-	-	-	-
Maui	1	1	2	3
Oahu	2	-	-	-
Kauai	-	-	2	3

1/ In operation; excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; *Hawaiian Sugar Manual (annual)*; Dole Food Company, records; Hawaii Agriculture Research Center, records.

Table 22.09-- SUGAR AND MOLASSES PRODUCTION: 1988 TO 1998

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	
1988	177,693	78,861	7,602,414	928,195	867,491	274,375
1989	170,813	74,660	7,078,479	863,614	807,134	229,377
1990	161,991	71,998	6,540,925	819,631	766,027	220,859
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

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.

Source: Hawaiian Sugar Planters' Association, *Hawaiian Sugar Manual* (annual), and records; Hawaii Agriculture Research Center, records.

**Table 22.10-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION:
1980 TO 1997**

[In millions of dollars. Calendar year data unless otherwise specified]

Year	Pineapple		Sugar	
	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses
1980	192.2	34.3	566.4	27.7
1981	172.0	45.6	314.2	13.7
1982	156.1	49.9	343.9	7.6
1983	171.6	47.4	396.5	13.7
1984	202.0	47.6	382.9	10.1
1985	171.7	50.8	331.9	8.9
1986	184.9	53.5	348.4	13.5
1987	202.9	48.5	325.0	10.9
1988	191.7	55.3	312.9	11.1
1989	182.7	59.2	313.6	8.4
1990	161.6	54.3	319.0	9.9
1991	172.7	51.9	261.0	9.7
1992	141.8	55.9	229.2	8.4
1993	86.6	54.0	242.9	9.0
1994	81.1	53.0	239.2	8.7
1995	72.5	62.5	190.5	9.7
1996	78.2	68.8	160.8	8.0
1997	73.0	63.7	127.5	5.0

1/ Processor value of canned fruit and juice production and by-products shipped out-of-State and sold within State.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records;
<http://www.nass.usda.gov/hi/stats/stat-19.htm>

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 United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently published for 1992. 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 Visitors & Convention Bureau and the firm of Pannell Kerr Forster (PKF-Hawaii). The Film Industry Branch 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: 1998*, Section 27, presents similar data for other states and the nation as a whole.

**Table 23.01-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE
ACTIVITIES: 1985 TO 1998**

[In thousands of dollars. Data are on a cash basis accounting]

Year reported 1/	Retailing	Services 2/	Amusement, etc. 3/	Intermediary services	Wholesaling
1985	8,499,254	2,481,669	154,830	116,300	4,095,220
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 4/	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

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, broadcasting, etc.

4/ 1997 data revised from previous year databook.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

**Table 23.02-- RETAIL ESTABLISHMENTS, BY PAYROLL STATUS:
1972 TO 1992**

[Coverage differed somewhat from census to census]

Year	Number of establishments			Sales (million dollars)		
	Total	With payroll	Without payroll	Total	With payroll	Without payroll
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

Source: U.S. Bureau of the Census, *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.

**Table 23.03-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS WITH
PAYROLL, FOR THE STATE, 1987 AND 1992, AND OAHU AND THE
NEIGHBOR ISLANDS, 1992**

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

Subject	1987	1992		
		State total	Oahu	Neighbor islands
Number of establishments	7,195	7,807	5,181	2,626
Sales (\$1,000)	8,084,416	11,250,217	8,341,630	2,908,587
Annual payroll (\$1,000)	1,016,127	1,481,034	1,078,685	402,349
First quarter payroll (\$1,000)	242,236	361,560	261,844	99,716
Paid employees for pay period including March 12	101,969	110,411	79,307	31,104

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), tables 1, 3, 7, and 8.

Table 23.04-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND URBAN PLACES: 1992

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12
State total	7,807	11,250,217	1,481,034	110,411
Hawaii County	1,012	1,057,639	140,267	11,313
Captain Cook	8	15,295	1,320	89
Hilo	397	506,527	67,047	5,385
Holualoa	2	(D)	(D)	(D)
Kailua	294	270,607	36,646	3,046
Kalaoa	1	(D)	(D)	(D)
Mountain View	-	-	-	-
Waimea	4	4,791	714	32
Balance of county	306	(D)	(D)	(D)
Honolulu County	5,181	8,341,630	1,078,685	79,307
Ahuimanu	1	(D)	(D)	(D)
Aiea	326	473,230	58,727	4,886
Ewa Beach	24	31,196	3,985	353
Ewa Villages	-	-	-	-
Halawa	-	-	-	-
Hauula	12	13,348	1,529	112
Heeia	1	(D)	(D)	(D)
Hickam Housing	-	-	-	-
Honolulu	3,693	5,983,036	771,703	54,834
Kahaluu	2	(D)	(D)	(D)
Kailua	189	244,104	36,112	2,922
Kaneohe	223	361,995	47,626	3,766
Kaneohe Station	1	(D)	(D)	(D)
Laie	11	7,233	1,280	149
Maili	2	(D)	(D)	(D)
Makaha	1	(D)	(D)	(D)
Makakilo City	3	(D)	(D)	(D)
Maunawili	-	-	-	-
Mililani Town	68	104,623	12,905	1,041
Nanakuli	6	5,996	676	63
Pearl City	85	144,243	18,317	1,475
Pupukea	-	-	-	-

Continued on next page.

Table 23.04-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND URBAN PLACES: 1992 -- Con.

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12
Honolulu County - Con.				
Schofield Barracks	3	611	136	7
Wahiawa	104	101,996	15,767	1,317
Waialua	12	5,646	954	86
Waianae	61	99,405	12,072	1,038
Waimalu	14	216,400	25,484	1,697
Waimanalo	16	15,635	2,389	160
Waimanalo Beach	6	7,490	808	58
Waipahu	178	349,473	41,117	2,761
Waipio	1	(D)	(D)	(D)
Whitmore Village	-	-	-	-
Balance of county	138	130,468	22,756	2,357
Kauai County	517	526,176	73,463	6,287
Hanamaulu	4	3,384	601	64
Kalaheo	9	4,824	793	74
Kapaa	133	130,712	17,534	1,414
Kekaha	4	1,527	152	17
Lihue	178	224,265	30,789	2,298
Wailua Homesteads	-	-	-	-
Balance of county	189	161,464	23,594	2,420
Maui County	1,097	1,324,772	188,619	13,504
Haiku-Pauwela	4	(D)	(D)	(D)
Island of Lanai	6	5,700	747	78
Island of Molokai	18	14,423	1,846	131
Kahului	223	478,844	56,254	3,635
Kaunakakai	8	14,730	1,365	90
Kihei	138	132,562	20,857	1,668
Lahaina	375	348,499	60,230	4,435
Makawao	19	10,383	1,970	154
Napili-Honokowai	6	3,001	693	51
Pukalani	21	41,106	5,005	425
Wailea-Makena	8	6,661	1,489	114
Wailuku	131	141,355	17,512	1,170
Balance of county	140	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 4.

Table 23.05-- RETAIL ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS: 1987 AND 1992

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

SIC code	Kind of business	Number of establishments		Sales		
		1987	1992	1987 (\$1,000)	1992 (\$1,000)	Percent change
	Retail trade	7,195	7,807	8,084,416	11,250,217	39.2
52	Building materials and garden supplies	149	157	230,051	327,967	42.6
53	General merchandise	151	147	1,253,965	1,868,516	49.0
54	Food stores	921	870	1,571,829	2,078,986	32.3
55 ex. 554	Automotive dealers	281	286	1,221,516	1,489,925	22.0
554	Gasoline service stations	355	326	427,232	550,193	28.8
56	Apparel and accessory stores	963	1,093	578,467	966,813	67.1
57	Furniture and home-furnishings stores	402	466	280,781	459,651	63.7
58	Eating and drinking places	2,209	2,576	1,350,648	1,841,416	36.3
591	Drug and proprietary stores	112	131	441,584	648,949	47.0
59 ex. 591	Miscellaneous retail stores	1,682	1,755	728,343	1,017,801	39.7

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 3.

**Table 23.06-- PRIVATE INDUSTRY RETAIL EMPLOYMENT AND WAGES,
ANNUAL AVERAGES: 1997**

SIC code	Retail trade	No. of establishments	Average employment	Total wages (\$1,000)	Average wage
	Total	7,286	113,284	1,936,237	17,092
5251	Hardware stores	54	1,140	24,243	21,258
5311	Department stores	51	10,895	183,847	16,874
5399	Misc. general merchandise stores	67	598	8,725	14,580
5411	Grocery stores	410	11,539	222,544	19,287
5421	Meat and fish markets	52	305	4,850	15,880
5441	Candy, nut, and confectionery stores	47	338	3,399	10,052
5461	Retail bakeries	128	1,219	16,221	13,309
5499	Misc. food stores	94	809	11,304	13,977
5511	New and used car dealers	72	3,713	139,767	37,648
5521	Used car dealers	18	134	4,277	31,995
5531	Auto and home supply stores	184	1,773	40,988	23,114
5541	Gasoline service stations	282	3,246	51,474	15,856
5551	Boat dealers	18	90	1,897	20,995
5571	Motorcycle dealers	18	158	4,055	25,676
5611	Men's and boys' clothing stores	61	869	12,474	14,353
5621	Women's clothing stores	231	2,073	34,893	16,836
5632	Women's accessory and specialty stores	87	793	19,050	24,012
5641	Children's and infants' wear stores	21	187	1,922	10,266
5651	Family clothing stores	129	2,274	35,478	15,603
5661	Shoe stores	106	1,407	26,315	18,698
5699	Misc. apparel and accessory stores	200	1,467	23,611	16,091
5712	Furniture stores	87	637	18,524	29,069
5713	Floor covering stores	28	246	6,551	26,595
5714	Drapery and upholstery stores	13	27	579	21,794
5719	Misc. homefurnishing stores	52	342	5,503	16,111
5722	Household appliance stores	61	267	6,016	22,496
5731	Radio, TV, and electronic stores	91	713	14,140	19,832
5734	Computer and software stores	51	473	11,190	23,679
5735	Record and prerecorded tape stores	32	447	5,684	12,724
5736	Musical instrument stores	15	98	2,000	20,374
581	Eating and drinking places	2,566	47,025	615,395	13,087
5912	Drug stores and proprietary stores	160	3,550	96,588	27,205
5932	Used merchandise stores	53	237	3,431	14,457
5941	Sporting goods and bicycle shops	154	1,242	19,847	15,983
5942	Book stores	62	688	10,148	14,755
5943	Stationery stores	24	209	4,981	23,792
5944	Jewelry stores	367	2,230	54,288	24,344

Continued on next page.

**Table 23.06-- PRIVATE INDUSTRY RETAIL EMPLOYMENT AND WAGES,
ANNUAL AVERAGES: 1997 - Con.**

SIC code	Retail trade	No. of establishments	Average employment	Total wages (\$1,000)	Average wage
5945	Hobby, toy, and game shops	33	394	4,747	12,060
5946	Camera and photographic supply stores	8	41	769	18,913
5947	Gift, novelty, and souvenir shops	301	3,444	70,248	20,398
5948	Luggage and leather goods stores	33	483	13,055	27,029
5949	Sewing, needlework, and piece goods	23	210	2,641	12,578
5961	Catalog and mail-order houses	8	33	895	27,475
5962	Merchandising machine operators	14	59	947	15,966
5963	Direct selling establishments	40	174	3,840	22,046
5992	Florists	130	665	8,347	12,549
5995	Optical goods stores	38	247	5,132	20,797
5999	Misc. retail stores, not elsewhere classified	334	1,854	36,688	19,790

Source: U.S. Department of Labor, *Employment and Wages Annual Averages, 1997*.

Table 23.07-- RETAIL SALES, BY TYPE OF STORE: 1995 AND 1996

[In millions of dollars; data are estimates]

Kind of store	SIC code	1995	1996
All stores 1/	52 to 59	12,806	2/ 13,322
Food stores	54	2,209	2,266
Grocery stores	541	2,052	2,103
General merchandise stores	53	2,115	2,197
Department stores	531	888	957
Automotive dealers	55 exc. 554	1,951	2,073
Eating and drinking places	58	1,951	1,892
Gasoline service stations	554	652	680
Building materials and garden supplies	52	429	472
Apparel and accessories stores	56	979	1,058
Furniture, home furnishings, appliance stores	57	601	619

1/ Includes other types of stores, not shown separately.

2/ Sales per household were \$34,308, highest of the 50 States. The U.S. ratio was \$24,992.

Source: Market Statistics estimates cited in *Statistical Abstract of the United States: 1998*, pp. 774-775.

Table 23.08-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1998

[Includes all centers on Oahu with more than 250,000 square feet of gross leaseable area and all centers on other islands with more than 150,000 square feet]

Island and name of center	Location	Year opened	Site area (acres)	Gross leaseable area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center	Honolulu	1959	50	1,500	7,800	200
Kahala Mall	Honolulu	1970	20	407	1,800	86
Koko Marina S.C.	Honolulu	1963	15	281	855	68
Mililani Town Center	Mililani	1988	45	434	1,675	85
Moanalua S.C.	Honolulu	1952	15	250	500	50+
Pearl City S.C.	Pearl City	1967	14	252	837	34
Pearl Highlands Center	Pearl City	1993	13	410	1,847	20
Pearlridge Center	Aiea	1972	56	1,400	6,600	170
Royal Hawaiian S.C.	Honolulu	1980	7	280	614	150
Waikele Center	Waipahu	1993	42	522	2,162	25
Windward Mall S.C.	Kaneohe	1982	32	530	2,300	100
Hawaii:						
Kaiko'o Mall S.C.	Hilo	1970	15	220	950	33
Keauhou Shopping Center	Kailua	1984	22	170	893	48
Pines Plaza	Kailua	1992	1	161	64	(NA)
Prince Kuhio Plaza	Hilo	1985	46	506	2,831	75
Waiakea Center	Hilo	1997	18	229	1,157	16
Maui:						
Apex Building	Kahului	1995	11	281	146	(NA)
Kaahumanu Center	Kahului	1972	32	573	2,864	102
Lahaina Market Place	Lahaina	1969	2	208	16	17
Maui Mall	Kahului	1972	27	191	1,272	48
Maui Marketplace	Kahului	1997	20	315	1,400	25
Kauai:						
Kukui Grove Center	Lihue	1982	49	461	2,552	64
Poipu Shopping Village	Koloa	1985	4	378	182	34

NA Not available.

Source: International Council of Shopping Centers, Hawaii Chapter, *Hawaii Shopping Center Directory 1998*.

Table 23.09-- SHOPPING CENTER CHARACTERISTICS: 1993 TO 1997

Characteristic	1993	1994	1995	1996	1997
Number	160	165	(NA)	175	182
Gross leasable area (mil. sq. ft.)	16	17	(NA)	18	19
Retail sales (bil. dol.)	2.9	3.1	(NA)	3.6	3.9

NA Not available

Source: *Statistical Abstract of the United States: 1998* (p. 773) and earlier editions.

Table 23.10-- CHARACTERISTICS OF EATING AND DRINKING PLACES: 1992

Subject	Restaurants	Cafeterias	Refresh. places	Drinking places
Establishments in business at end of year	971	21	851	255
Sales, calendar year (million dollars)	893.2	15.3	652.6	95.9
Seats, Dec. 31	105,778	1,967	43,838	13,641
Average cost per meal (establishments):				
Less than \$5.00	167	8	500	...
\$30.00 or more	52	-	-	...
Menu type or specialty (establishments):				
Italian	39	-	2	...
Mexican	72	-	32	...
Chinese	239	6	29	...
Other ethnic	343	-	210	...
Seafood	65	-	4	...
Steak	34	-	-	...
Pizza	57	-	100	...
Chicken	5	-	35	...
Hamburger	15	-	144	...
Sub shop	1	-	33	...
American	23	-	35	...
Other	223	15	329	...

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Miscellaneous Subjects*, RC92-S-4 (October 1995), pp. 45, 78-79, 148-150.

Table 23.11-- DUTY-FREE STORE REVENUES: 1984 TO 1996

[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
1984	170,661,949	1991	378,587,469
1985	180,126,919	1992	421,953,644
1986	270,891,959	1993	397,322,968
1987	369,788,429	1994	413,417,555
1988	445,072,755	1995	420,000,000
1989	451,185,041	1996	426,000,000
1990	413,932,037		

Source: DFS Hawaii, records and for 1995-96 data *Honolulu Star Bulletin*, November 1, 1996.

Table 23.12-- ALCOHOLIC BEVERAGE SALES, BY TYPE: 1996 TO 1998

Category	Wine gallons of 128 fluid ounces			Wholesale value, 1998 (dollars)
	1996	1997	1998	
All types	34,163,622	33,647,703	32,893,108	302,454,834
Distilled spirits	1,349,271	1,309,812	1,279,963	53,785,213
Sparkling wine	230,210	224,652	214,025	10,759,143
Still wine	2,459,449	2,519,923	2,583,077	67,998,216
Cooler beverage	250,604	244,010	216,763	2,018,259
Draft beer	1,639,078	1,565,822	1,619,904	6,430,065
Beer other than draft	28,235,010	27,783,484	26,979,376	161,463,938

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

**Table 23.13-- MERCHANDISE LINE SALES FOR RETAIL STORES
WITH PAYROLL: 1992**

Merchandise line code	Kind of business and merchandise line	Number of establishments	Sales of specified merchandise line		
			Amount (\$1,000)	As percent of total sales of --	
				Establishments handling line	All establishments
	Retail trade	7,807	11,250,217	(X)	100.0
100	Groceries and other food items	1,604	1,769,219	40.4	15.7
120	Meals and snacks	2,949	1,651,956	38.1	14.7
130	Alcoholic drinks	1,315	238,291	24.1	2.1
140	Packaged alcoholic beverages	836	242,439	7.9	2.2
150	Cigars, cigarettes, and tobacco	1,121	144,649	3.5	1.3
160	Drugs, health aids, and beauty aids	916	697,542	15.3	6.2
180	Soaps, detergents, and household cleaners	534	79,199	2.4	0.7
190	Paper and related products	502	59,266	2.0	0.5
200	Men's wear	1,013	353,900	17.1	3.2
220	Women's, juniors', and misses' wear	1,279	670,350	22.9	6.0
240	Children's wear	605	97,474	3.7	0.9
260	Footwear	707	188,674	8.5	1.7
270	Sewing, knitting, and needlework goods	136	27,953	3.2	0.3
280	Curtains, draperies, and dry goods	208	58,992	3.2	0.5
300	Major household appliances	171	95,421	6.8	0.9
310	Small electric appliances	268	50,823	1.6	0.5
320	Televisions, video equipment, videotapes	205	99,642	5.3	0.9
330	Audio equipment, musical instruments and supplies	391	148,984	7.7	1.3
340	Furniture and sleep equipment	243	160,795	8.6	1.4
360	Floor coverings	130	55,160	3.4	0.5
370	Computer hardware, software, and supplies	120	63,612	3.2	0.6
380	Kitchenware and homefurnishings	767	163,099	3.3	1.5
400	Jewelry	1,104	458,618	13.8	4.1
420	Books	389	73,415	3.4	0.7
440	Photographic equipment and supplies	238	47,316	1.9	0.4
460	Toys, hobby goods, and games	529	80,045	2.7	0.7

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**Table 23.13-- MERCHANDISE LINE SALES FOR RETAIL STORES
WITH PAYROLL: 1992 -- Con.**

Merchandise line code	Kind of business and merchandise line	Number of establishments	Sales of specified merchandise line		
			Amount (\$1,000)	As percent of total sales of --	
				Establishments handling line	All establishments
490	Optical goods	189	37,402	3.5	0.3
500	Sporting goods	441	150,661	5.8	1.3
600	Hardware, tools, and plumbing and electrical supplies	290	140,736	5.4	1.3
620	Lawn and garden equipment	379	116,711	3.0	1.0
640	Lumber, millwork, building materials	180	144,054	7.5	1.3
670	Paint and related preservatives and supplies	133	65,021	4.3	0.6
700	Cars, vans, trucks, and other powered vehicles	126	1,143,755	84.5	10.2
720	Automotive fuels	500	467,464	33.5	4.2
730	Automotive lubricants	428	16,410	0.6	0.2
740	Automotive tires, batteries, accessories	495	230,257	5.8	2.1
780	Household fuels	33	10,426	0.7	0.1
800	Pets, pet foods, and pet supplies	253	35,698	2.3	0.3
850	All other merchandise	1,458	494,942	10.1	4.4
890	Unclassified merchandise	818	104,109	3.7	0.9
900	Nonmerchandise receipts	1,300	314,843	5.9	2.8
990	Miscellaneous merchandise	(X)	894	(X)	(Z)

X Not applicable.

Z Less than 0.05 percent.

Source: U.S. Bureau of the Census, 1992 Economic Census Report Series Disc 1G; extracted by Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

**Table 23.14-- WHOLESALE TRADE ESTABLISHMENTS AND SALES:
1939 TO 1992**

[Based on then-current definition]

Year	Number of establishments	Sales (\$1,000)	Year	Number of establishments	Sales (\$1,000)
1939	704	97,045	1972	1,336	1,538,429
1948	702	480,734	1977	1,569	2,571,489
1954	594	581,940	1982	1,737	4,084,369
1958	793	618,155	1987	1,998	5,362,490
1963	974	735,205	1992	2,202	8,001,621
1967	1,030	1,013,813			

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (1977), table 20.7; U.S. Bureau of the Census, *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, and *1992 Census of Wholesale Trade*, WC92-A-12.

**Table 23.15-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS,
FOR THE STATE, 1987 AND 1992, AND OAHU AND THE NEIGHBOR
ISLANDS, 1992**

Subject	1987	1992		
		State total	Oahu	Neighbor Islands
Number of establishments	1,998	2,202	1,690	512
Sales (\$1,000)	5,362,490	8,001,621	6,757,480	1,244,141
Annual payroll (\$1,000)	415,114	624,541	520,472	104,069
First quarter payroll (\$1,000)	100,963	150,772	(NA)	(NA)
Paid employees for pay period including March 12 (number)	20,157	23,308	18,847	4,461
Operating expenses (\$1,000)	883,223	1,332,892	(NA)	(NA)
Inventories (\$1,000):				
Beginning of year	472,167	794,259	(NA)	(NA)
End of year	579,212	787,828	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *1987 Census of Wholesale Trade, Hawaii*, WC87-A-12 (April 1989), table 1; *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), tables 1, 3, 7, and 8.

Table 23.16-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1992

Type of operation and kind of business	Number of establishments	Sales (\$1,000)
Wholesale trade	2,202	8,001,621
Type of operation:		
Merchant wholesalers	1,885	5,334,775
Manufacturers' sales branches and sales offices	141	1,849,467
Agents, brokers, and commission merchants	176	817,379
Kind of business:		
Motor vehicles and motor vehicle parts and supplies	121	354,209
Furniture and homefurnishings	80	166,265
Lumber and other construction materials	181	465,861
Professional and commercial equipment and supplies	123	457,866
Metals and minerals, except petroleum	23	81,988
Electrical goods	130	553,741
Hardware, and plumbing and heating equipment and supplies	107	241,480
Machinery, equipment, and supplies	153	343,191
Miscellaneous durable goods	213	396,691
Paper and paper products	100	350,724
Drugs, drug proprietaries, and druggists' sundries	50	349,716
Apparel, piece goods, and notions	125	196,947
Groceries and related products	404	2,046,337
Farm-product raw materials	13	18,102
Chemicals and allied products	44	164,997
Petroleum and petroleum products	56	1,023,655
Beer, wine, and distilled alcoholic beverages	37	348,616
Miscellaneous nondurable goods	242	441,235

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 1.

Table 23.17-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1992

Geographic area	All wholesalers		Merchant wholesalers	
	Number of establishments	Sales (\$1,000)	Number of establishments	Sales (\$1,000)
State total	2,202	8,001,621	1,885	5,334,775
Hawaii County	228	537,485	204	430,234
Hilo	121	371,154	108	276,073
Kailua	60	90,299	55	80,376
Honolulu County	1,690	6,757,480	1,426	4,343,180
Aiea	101	324,272	87	251,348
Ewa Beach	36	407,662	31	353,905
Honolulu	1,303	5,276,318	1,094	3,139,135
Kailua	39	45,367	29	33,984
Kaneohe	34	53,836	30	41,846
Mililani Town	13	47,699	9	44,791
Pearl City	39	158,511	33	78,235
Waipahu	77	312,820	69	295,870
Kauai County	92	194,257	83	133,942
Lihue	49	113,237	43	(D)
Maui County	192	512,399	172	427,419
Island of Lanai	2	(D)	-	-
Island of Molokai	4	(D)	3	2,826
Kahului	70	272,494	63	227,813
Wailuku	56	131,963	52	120,157

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 4.

**Table 23.18-- SERVICE ESTABLISHMENTS, BY PAYROLL STATUS:
1972 TO 1992**

[Data not adjusted for changing coverage over time. Data exclude firms exempt from Federal income tax for all years, hospitals prior to 1987, and most other health services before 1982]

Year	Number of establishments			Receipts (million dollars)		
	Total	With payroll	Without payroll	Total	With payroll	Without payroll
1972	6,348	3,031	3,317	683	648	35
1977	8,023	3,306	4,717	1,276	1,216	60
1982	(NA)	6,124	(NA)	(NA)	2,660	(NA)
1987	30,114	7,458	22,656	4,902	4,456	446
1992	41,584	8,468	33,116	8,027	7,291	736

NA Not available.

Source: U.S. Bureau of the Census, *1972 Census of Selected Service Industries, Hawaii*, SC72-A-12 (July 1974), table 1; *1977 Census of Service Industries, Hawaii*, SC77-A-12 (December 1979), table 1; *1982 Census of Service Industries, Hawaii*, SC82-A-12 (September 1984), table 1; *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), table 1, and *Nonemployer Statistics Series, West*, SC87-N-4 (March 1990), table 2; and *1992 Census of Service Industries, Nonemployer Statistics Series, Summary* SC92-N-1 (March 1995), table 3.

**Table 23.19-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH
PAYROLL, FOR THE STATE, 1987 AND 1992, AND OAHU AND THE
NEIGHBOR ISLANDS, 1992**

Subject	1987	1992		
		State total	Oahu	Neighbor islands
FIRMS SUBJECT TO FEDERAL INCOME TAX				
Number of establishments	7,458	8,468	6,248	2,220
Receipts (\$1,000)	4,455,953	7,290,719	5,368,982	1,921,737
Annual payroll (\$1,000)	1,499,500	2,654,278	1,944,260	710,018
First quarter payroll (\$1,000)	356,723	617,437	443,438	173,999
Paid employees 1/	91,673	117,965	81,084	36,881
FIRMS EXEMPT FROM FEDERAL INCOME TAX				
Number of establishments	998	1,032	690	342
Revenue (\$1,000)	1,222,359	2,081,077	1,718,951	362,126
Expenses (\$1,000)	1,155,012	1,937,721	(NA)	(NA)
Annual payroll (\$1,000)	521,108	923,630	768,048	155,582
First quarter payroll (\$1,000)	128,303	227,965	189,433	38,532
Paid employees 1/	28,541	37,492	30,622	6,870

NA Not available.

1/ For pay period including March 12.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 1b, 3a, 3b, 7a, 7b, 8a, and 8b.

**Table 23.20-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT
TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN
PLACES: 1992**

Geographic area	Number of establishments		Receipts (\$1,000)	
	All services	Hotels 1/	All services	Hotels 1/
State total	8,468	267	7,290,719	2,248,082
Hawaii County	974	37	651,105	(D)
Hilo	430	9	204,396	(D)
Kailua	252	10	149,521	38,422
Honolulu County	6,248	135	5,368,982	(D)
Aiea	288	3	165,156	3,906
Ewa Beach	51	-	38,564	-
Honolulu	4,797	123	4,559,049	1,236,343
Kailua	259	1	98,330	(D)
Kaneohe	226	1	81,928	(D)
Mililani Town	65	-	28,210	-
Pearl City	118	-	65,224	-
Wahiawa	92	-	30,426	-
Waianae	43	1	25,687	(D)
Waipahu	165	-	67,314	-
Kauai County	366	28	352,279	191,548
Kapaa	71	8	31,911	18,636
Lihue	149	9	140,529	(D)
Maui County	880	67	918,353	(D)
Island of Lanai	2	-	(D)	-
Island of Molokai	20	3	11,803	(D)
Kahului	195	3	128,700	(D)
Kihei	121	17	149,065	112,386
Lahaina	137	20	167,454	118,132
Wailuku	254	2	131,363	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), table 4.

**Table 23.21-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT
TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION:
1987 AND 1992**

SIC code	Kind of business or operation	Number of establishments		Receipts		
		1987	1992	1987 (\$1,000)	1992 (\$1,000)	Percent change
	Total	7,458	8,468	4,455,953	7,290,719	63.6
70 ex. 704	Hotels, motels, other lodging	237	267	1,562,043	2,248,082	43.9
72	Personal services	699	746	145,045	221,769	52.9
73	Business services	1,056	1,348	456,740	768,486	68.3
75	Automotive repair, services, & parking	653	720	416,441	598,685	43.8
76	Miscellaneous repair services	255	281	72,490	124,504	71.8
78, 79	Amusement & recreation services, including motion pictures and museums	532	688	229,608	456,200	98.7
80	Health services	1,981	2,225	742,548	1,310,880	76.5
81	Legal services	721	741	315,500	481,540	52.6
823, 4, 9	Selected educational services	62	93	11,829	20,225	71.0
83	Social services	90	105	19,319	33,546	73.6
87 ex. 8733	Engineering and related services 1/	1,099	1,204	473,389	1,000,148	111.3
89	Services, n.e.c.	73	50	11,001	26,654	142.3

1/ Includes engineering, architectural, surveying, accounting, research, management, and related services (except noncommercial research organizations).

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), table 3a.

**Table 23.22-- ARRANGEMENT OF PASSENGER TRANSPORTATION
(SIC 472): 1992**

[Includes only establishments with payroll]

Kind of business	Establishments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees, Mar. 12
All establishments	553	362,211	123,571	5,789
Travel agencies	364	138,322	49,935	2,338
Tour operators	161	205,493	68,006	3,241
Arrangement of passenger transportation, n.e.c.	28	18,396	5,630	210

n.e.c. Not elsewhere classified.

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities*, UC92-A-1, *Summary* (March 1995), table 1.

**Table 23.23-- HOTELS, MOTELS, AND OTHER LODGING PLACES WITH
AND WITHOUT PAYROLL: 1992**

[Data apparently exclude condominium units in rental pools intended for transient use]

SIC code	Kind of business	Number of establishments		Receipts (million dollars)	
		With payroll	Without payroll	With payroll	Without payroll
70 ex. 704	Total	267	369	2,248	11
7011	Hotels and motels	256	151	2,246	5
702,3	Other lodging places	11	218	2	6
702	Rooming and boarding houses	10	213	(D)	6
703	Camps and rec. vehicle parks	1	5	(D)	(Z)

D Withheld to avoid disclosing data for individual companies.

Z Less than \$500,000.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Nonemployer Statistics Series, Summary*, SC92-N-1 (March 1995), table 3.

Table 23.24-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1992

[Includes only establishments with payroll. Apparently excludes condominium units in rental pools for transient use]

Subject	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
SUBJECT TO FEDERAL INCOME TAX				
Hotels, motels, other lodging	267	2,248,082	761,453	41,038
Hotels	226	2,233,841	758,533	40,792
25 guestrooms or more	211	2,230,571	757,604	40,727
Less than 25 guestrooms	15	3,270	929	65
Motels, motor hotels, tourist courts	30	12,017	2,373	208
Other lodging places 1/	11	2,224	547	38
EXEMPT FROM FEDERAL INCOME TAX				
Camps and membership lodging 2/	1	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Rooming and boarding houses, 10 establishments; camps and recreational vehicle parks, 1.

2/ Sporting and recreational camps, 1; organization hotels and lodging houses on membership basis, none.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a and 1b.

Table 23.25-- VISITOR ACCOMMODATIONS, BY COUNTIES: 1965 TO 1998

[Number of units]

Year	State total	Oahu	Hawaii County	Kauai County	Maui County
1965	12,903	10,031	865	776	1,231
1966	14,827	11,083	1,387	860	1,497
1967	17,217	12,598	1,790	1,115	1,714
1968	18,657	13,166	2,188	1,260	2,043
1969	22,801	15,992	2,480	1,914	2,415
1970	26,923	18,449	3,166	2,565	2,743
1971	32,289	22,531	3,435	2,628	3,695
1972	35,797	24,742	4,241	2,719	4,095
1973	36,608	25,108	4,796	2,629	4,075
1974	38,675	25,365	5,234	2,868	5,208
1975	39,632	25,352	5,348	3,102	5,830
1976	42,648	25,851	6,045	3,520	7,232
1977	44,986	27,363	5,929	3,657	8,037
1978	47,070	28,546	6,002	3,786	8,736
1979	49,832	30,065	6,093	4,202	9,472
1980	54,246	34,334	5,889	4,322	9,701
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

NA Not available.

Source: Hawaii Visitors & Convention Bureau, *Visitor Plant Inventory* (annual).

Table 23.26-- VISITOR ACCOMMODATIONS, BY TYPE: 1986 TO 1998

Year and month	Properties			Units		
	Total	Hotels 1/	Condo-miniums 2/	Total	Hotels 1/	Condo-miniums 2/
1986: Feb.	523	201	322	66,308	43,309	22,999
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

NA Not available.

1/ Hotels, apartment hotels, bed-and-breakfast, bungalows, cottages, hostels, and lodges. 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.

Source: Hawaii Visitors & Convention Bureau, *Visitor Plant Inventory* (annual), 1986 to 1998, as corrected.

**Table 23.27-- VISITOR ACCOMMODATIONS, BY TYPE AND BY ISLANDS:
1997 AND 1998**

Year and island	Properties			Units		
	Total	Hotels 1/	Condo-miniums 2/	Total	Hotels 1/	Condo-miniums 2/
1997 3/						
State total	821	607	214	71,025	53,735	17,290
Oahu	192	160	32	35,971	32,002	3,969
Waikiki/Honolulu	116	89	27	31,301	27,885	3,416
Rest of Oahu	76	71	5	4,670	4,117	553
Other islands	629	447	182	35,054	21,733	13,321
Hawaii	165	135	30	9,913	7,922	1,991
Maui	231	123	108	17,582	9,487	8,095
Lanai	6	6	-	369	369	-
Molokai	11	6	5	601	291	310
Kauai	216	177	39	6,589	3,664	2,925
1998						
State total	882	669	213	71,480	54,055	17,425
Oahu	205	174	31	36,206	32,178	4,028
Waikiki/Honolulu	118	92	26	31,491	28,032	3,459
Rest of Oahu	87	82	5	4,715	4,146	569
Other islands	677	495	182	35,274	21,877	13,397
Hawaii	163	130	33	9,655	7,413	2,242
Maui	240	134	106	17,711	9,704	8,007
Lanai	6	6	-	369	369	-
Molokai	11	6	5	570	291	279
Kauai	257	219	38	6,969	4,100	2,869

1/ Hotels, apartment hotels, bed-and-breakfast, bungalows, cottages, hostels, and lodges. Properties with both condo and hotel units are included with condominiums.

2/ Condominium accommodations in rental pools for transient use. Includes condo/hotel units.

3/ Accommodation type grouped differently than in previous years.

Source: Hawaii Visitors & Convention Bureau, *Visitor Plant Inventory* (annual).

Table 23.28-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA: 1998

[Accommodation type grouped differently than in previous years]

Type of accommodation	Properties			Units		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All types	882	205	677	71,480	36,206	35,274
Apartment-hotel	23	17	6	888	791	97
Bed and breakfast	137	16	121	475	39	436
Condominium	213	31	182	17,425	4,028	13,397
Hotel	162	80	82	50,070	30,716	19,354
Other 1/	347	61	286	2,622	632	1,990

1/ Hostel, lodge, etc.

Source: Hawaii Visitors & Convention Bureau, *1998 Visitor Plant Inventory* (annual).

**Table 23.29-- HOTELS AND MOTELS (SIC 701), BY COUNTIES:
1991 TO 1996**

County	1991	1992	1993	1994	1995	1996
State total	260	264	266	271	268	264
Hawaii	36	37	37	37	36	(NA)
Honolulu	138	131	134	134	136	126
Kauai	33	30	29	34	31	(NA)
Maui	53	66	66	66	65	70

NA Not available.

Source: U.S. Bureau of the Census, *County Business Patterns, Hawaii* (annual report), 1993 CD-ROM, and unpublished 1994 data.

Table 23.30-- VISITOR ACCOMMODATIONS, BY NIGHTLY PRICE: 1998

[Accommodation type grouped differently than in previous years]

Island and type of accommodation 1/	All levels	\$100 or less	\$101 to \$250	\$251 to \$500	Over \$500
Number reporting	70,065	17,640	31,265	19,093	2,067
Island:					
Oahu	35,524	10,410	17,375	7,003	736
Hawaii	9,420	2,282	3,861	2,822	455
Kauai	6,812	1,305	3,261	2,070	176
Maui	17,551	3,464	6,545	6,924	618
Molokai	389	167	218	4	-
Lanai	369	12	5	270	82
Type of accommodation:					
Apartment, apartment-hotel	868	796	72	-	-
Bed and breakfast	374	247	123	4	-
Condominium	16,638	5,135	9,448	1,991	64
Hostel	280	280	-	-	-
Hotel	50,058	10,348	21,080	16,642	1,988
Individual vacation unit	1,007	590	385	20	12
Other	840	244	157	436	3

Source: Hawaii Visitors & Convention Bureau, *Visitor Plant Inventory* (annual).

**Table 23.31-- HOTEL ROOMS, OCCUPANCY RATES, AND DAILY ROOM
AND GUEST RATES: 1989 TO 1998**

[Includes condominium units in rental pools for transient occupancy]

Year	Hotel units 1/			Percent occupied 2/	Daily rates per room 2/ (dollars)	Guests per room 2/
	State total	Oahu	Other islands			
1989	68,034	36,467	31,567	79.0	95.83	2.00
1990	71,566	36,899	34,667	78.8	102.10	2.01
1991	72,575	36,623	35,952	72.4	101.89	2.01
1992	73,779	37,279	36,500	72.6	105.59	2.02
1993	70,542	37,032	33,510	72.0	103.26	2.04
1994	70,683	36,194	34,489	76.5	105.46	2.04
1995	(NA)	(NA)	(NA)	76.6	110.27	2.05
1996	70,288	36,146	34,142	75.5	127.95	2.07
1997	71,025	35,971	35,054	73.9	137.06	2.08
1998	71,480	36,206	35,274	72.0	140.63	2.09

NA Not available.

1/ February data through 1991; Spring 1992; June 1993; December 1994; and May 1996.

2/ Annual averages for hotels in PKF sample.

Source: Hawaii Visitors & Convention Bureau, *Visitor Plant Inventory* (annual); PKF-Hawaii, *Trends in the Hotel Industry*, Hawaii (December issues), and records.

**Table 23.32-- HOTEL ROOM OCCUPANCY AND ROOM RATES, BY
GEOGRAPHIC AREAS: 1998**

[Includes condominium units in rental pools for transient occupancy]

Geographic area	Percent occupied	Average daily room rate (dollars)	Average revenue per available room (dollars)
State total	72.04	140.63	101.30
Oahu	73.84	122.83	90.70
Waikiki	74.87	124.24	93.02
Other Oahu	64.34	107.71	69.30
Hawaii	68.24	157.64	107.57
Hilo	76.32	72.90	55.64
Kona	68.25	78.94	53.88
Kohala	67.46	214.71	144.83
Maui	72.81	161.37	117.50
Kaanapali	78.16	166.08	129.81
West Maui	71.24	146.45	104.33
Other	67.71	166.49	112.74
Kauai	66.95	154.20	103.23
North	69.91	174.21	121.80
Central	59.46	104.43	62.09
South	72.60	183.74	133.39
Molokai	43.14	75.46	32.55
All Neighbor Islands	(NA)	(NA)	(NA)

NA Not available.

Source: PKF-Hawaii, *Trends in the Hotel Industry, Hawaii*, December 1998.

**Table 23.33-- GENERAL EXCISE TAX BASE FOR RENTALS:
1985 TO 1998**

[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 3/	5,829,772	2,155,319	3,826,024
1998	5,904,196	2,147,217	3,756,979

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.

3/ 1997 data revised from previous year databook.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

**Table 23.34-- COMPUTER AND SOFTWARE STORES AND SERVICES:
1992 AND 1996**

[Includes only establishments with payroll]

Type of establishment	Number of establishments		Sales, 1992 (\$1,000)
	1992	1996	
Wholesale trade:			
Computers and computer peripheral equipment and software (SIC 5045)	49	34	177,123
Retail trade:			
Computer and software stores (SIC 5734)	29	42	43,766
Services:			
Computer programming, prepackaged software, and integrated systems (SIC 7371, 2, 3)	79	85	47,250
Data processing services (SIC 7374, 5, 6)	39	48	46,858
Computer rental and leasing, maintenance, and related services (SIC 7377, 8, 9)	47	76	18,857

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 1; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 1; *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994); *County Business Patterns 1996, Hawaii*, CBP-96-13 (November 1998), table 1b.

Table 23.35-- MOTION PICTURE SERVICES: 1977 TO 1996

[Data limited to establishments with payroll. For 1963-1972 data, see *Data Book 1990*, table 699]

Subject and year	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, week inc. March 12
Motion picture production, distribution, and services (SIC 781, 2):				
1977	11	926	174	31
1982	16	4,203	1,147	74
1987	25	10,177	2,394	136
1992	50	20,394	6,028	250
1996	59	(NA)	10,452	297
Motion picture theaters (SIC 783):				
1977 1/	50	17,444	(D)	(D)
1982	36	21,329	3,195	519
1987	35	(D)	(D)	(D)
1992	34	(D)	(D)	(D)
1996	27	(NA)	8,386	1,058
Video tape rental (SIC 784):				
1987	78	12,319	2,456	376
1992	78	26,909	5,252	545
1996	76	(NA)	4,762	379

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Data include 3 establishments without payroll.

Source: U.S. Bureau of the Census, *1977 Census of Service Industries, Hawaii*, SC77-A-12 (December 1979); *1982 Census of Service Industries, Hawaii*, SC82-A-12 (September 1984); *1982 Census of Service Industries, Motion Picture Industry*, SC82-I-4 (December 1985); *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989); *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994); *County Business Patterns 1996, Hawaii*, CBP-96-13 (November 1998).

**Table 23.36-- MOTION PICTURE THEATERS AND SCREENS OPERATED BY
MAJOR COMPANIES: APRIL 1999**

Subject	All major companies	Consolidated Amusement Co.	Wallace Theater Corp.	Signature Theaters
Number of theaters	29	15	13	1
Number of screens	135	79	44	12
Oahu	91	59	20	12
Hawaii	22	10	12	-
Maui	17	10	7	-
Molokai	3	-	3	-
Kauai	2	-	2	-

Source: *The Honolulu Advertiser*, April 25, 1999, p. G4.

**Table 23.37-- MOTION PICTURE AND TELEVISION PRODUCTION:
1994 TO 1998**

Subject	1994	1995	1996	1997	1998
Number of features and programs filmed 1/	40	17	7	12	12
Feature films for theater viewing	6	1	6	9	3
TV movie of the week, television episodic, specials	3	5	1	3	6
Hawaii-based TV network series	31	11	-	-	3
Expenditures in Hawaii (million dollars)	96.5	49.0	59.7	70.7	99.1
Commercials	5.9	9.7	10.4	5.5	5.8
Hawaii-based TV series	24.2	7.8	-	-	28.2
Feature films	33.4	2.7	11.7	22.6	12.6
TV specials/episodics/movie of week	6.4	1.5	3.0	4.5	10.7
Others (still photography, sports, exercise or music video, cable, misc.)	4.4	6.8	6.5	4.3	6.2
Documentaries/industrials/news/ educational/travelog/video stock	2.1	1.8	0.8	3.3	2.6
Annual permit holders	6.1	9.6	11.7	8.5	11.0
Private property projects	5.7	2.1	10.0	15.0	7.0
Sports events, annual (private)	8.3	7.0	5.6	7.0	15.0
Tax revenues generated (million dollars)	17.8	9.0	10.9	13.0	18.2
Spending effect on economy (million dollars)	196.9	100.0	121.8	144.2	198.2

1/ Each program in a series is counted separately. For 1993-94, includes Hawaii TV network affiliates' locally produced programs. Expenditures do not reflect the costs of such production. For 1995-98, includes only nationally televised series.

Source: Hawaii State Department of Business, Economic Development & Tourism, Hawaii Film Office, records.

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 investment by foreign countries.

Sources for statistics on interstate and foreign commerce, and foreign investment include the U.S. Bureaus of the Census and Economic Analysis, the Hawaii State Department of Business, Economic Development & Tourism's Foreign Trade Zone No. 9 and its subzones, the City & County of Honolulu Department Budget & Fiscal Services (formerly the Department of Finance), and E & Y Kenneth Leventhal Real Estate Group. Additional information is found in waterborne cargo data compiled by the U.S. Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 28 of the *Statistical Abstract of the United States: 1998*. Long-term island trends are summarized in *Historical Statistics of Hawaii*, Section 21.

Table 24.01-- INTERSTATE AND FOREIGN TRADE: 1970 TO 1997

[Merchandise imports and exports, foreign and domestic, in millions of dollars. For 1958-1969, see *Data Book 1987*, table 713]

Year	Merchandise imports					Merchandise exports, total 1/
	Total	Domestic			Foreign	
		Total	Waterborne	Air 1/		
1970	1,431.5	1,256.8	1,172.5	84.3	174.7	349.4
1971	1,258.1	1,034.6	888.7	145.9	223.6	380.8
1972	1,462.5	1,218.8	1,082.2	136.6	243.7	365.0
1973	1,892.9	1,578.0	1,460.1	117.9	314.9	493.9
1974	2,510.0	1,962.9	1,825.0	137.8	547.2	1,017.9
1975	2,843.0	2,044.8	1,872.8	172.0	798.2	844.7
1976	3,310.8	2,488.8	2,269.2	219.5	822.0	903.6
1977	3,792.1	2,885.1	2,648.3	236.8	907.1	938.4
1978	4,146.1	3,140.9	2,890.0	251.0	1,005.2	1,044.7
1979	5,001.2	3,897.0	3,636.9	260.1	1,104.3	1,182.3
1980	6,239.4	4,779.7	4,577.9	201.9	1,459.7	1,569.2
1981	6,241.3	4,716.1	4,500.2	215.9	1,525.2	1,289.2
1982	5,933.8	4,700.3	4,478.8	221.5	1,233.5	1,333.4
1983	6,461.8	5,096.3	4,856.6	239.7	1,365.5	1,440.7
1984	6,568.0	5,309.4	5,047.9	261.5	1,258.6	1,419.8
1985	6,552.3	4,796.0	4,506.9	289.1	1,756.3	1,314.3
1986	6,557.1	5,131.6	4,724.0	407.7	1,425.4	1,429.4
1987	7,469.0	5,910.4	5,465.4	445.0	1,558.6	1,452.9
1988	9,298.4	7,459.9	7,029.8	430.2	1,838.5	1,467.6
1989	10,455.0	8,484.9	8,015.3	469.6	1,970.1	1,498.5
1990	10,926.2	8,665.6	8,161.7	503.9	2,260.6	1,562.2
1991	11,329.3	8,916.1	8,359.0	557.1	2,413.2	1,588.9
1992	11,556.0	(NA)	(NA)	(NA)	(NA)	1,627.0
1993	11,810.0	(NA)	(NA)	(NA)	(NA)	1,644.0
1994	12,110.0	(NA)	(NA)	(NA)	(NA)	1,611.0
1995	12,398.0	(NA)	(NA)	(NA)	(NA)	1,595.0
1996	12,460.0	(NA)	(NA)	(NA)	(NA)	1,563.0
1997	12,629.0	(NA)	(NA)	(NA)	(NA)	1,531.0

NA Not available.

1/ Not available separately for foreign and domestic exports.

Source: Hawaii State Department of Business and Economic Development, *Hawaii Gross State Product Accounts: 1958 to 1985; Summary Estimates: 1986, 1987, and 1988* (June 1989), and records.

**Table 24.02-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT:
1984 TO 1997**

[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	Originated in Hawaii 3/
1984	1,614.2	1,397.9	316.9	...
1985	1,756.3	1,553.1	388.8	...
1986	1,556.9	1,425.4	231.1	...
1987	1,770.1	1,558.6	392.8	151.7
1988	1,839.6	1,559.1	572.6	130.7
1989	1,970.1	1,735.9	537.4	160.0
1990	2,260.6	2,100.3	512.2	178.7
1991	1,620.9	1,892.4	568.3	147.7
1992	2,395.8	2,119.8	604.2	206.2
1993	2,426.0	2,218.1	1,099.7	186.6
1994	2,802.0	2,530.8	985.4	177.6
1995	3,027.4	2,703.6	1,072.2	241.1
1996	3,087.4	2,734.8	1,293.9	284.0
1997	3,176.8	2,695.0	1,628.0	334.0

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under \$251.

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.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT990, cumulative totals in December issues, 1984-1988; *U.S. Merchandise Trade: Selected Highlights*, FT920, December 1989 to 1997; *U.S. Merchandise Trade*, FT900 Supplement, December 1989 to 1997; U.S. Bureau of the Census, *Statistical Abstract of the United States 1998* (p. 800) and records.

**Table 24.03-- FOREIGN TRADE THROUGH THE HAWAII
CUSTOMS DISTRICT, BY CLASSIFICATION: 1994 TO 1997**

[In millions of dollars]

Classification	1994	1995	1996	1997
General imports by district of entry:				
Customs value 1/	2,802.00	3,027.42	3,087.39	3,176.79
C.i.f. value 2/	2,923.06	3,152.37	3,214.31	3,326.44
General imports by district of unloading:				
Customs value 1/	3,160.26	3,373.40	3,554.76	4,063.49
C.i.f. value 2/	3,307.83	3,520.36	3,704.86	4,249.72
Imports for consumption by district of entry (customs value 1/)	2,530.83	2,703.59	2,748.34	2,694.98
Exports of domestic and foreign merchandise by district of export (f.a.s. value 3/)	985.42	1,072.16	1,293.90	1,627.98
Exports of merchandise by State of origin 4/				
Manufactured commodities	177.6	241.1	(NA)	(NA)
Non-manufactured commodities	125.3	181.7	(NA)	(NA)
	52.3	59.4	(NA)	(NA)

NA Not available.

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/ Free alongside ship 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.

4/ Includes merchandise exports originated in Hawaii and exported through other customs districts.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Selected Highlights*, FT920, for December 1992-97, tables 1, 4, 5 and 6, and U.S. Merchandise Trade, FT900 Supplement, for December 1992-97, exhibit 2.

**Table 24.04-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT,
BY METHOD OF TRANSPORTATION: 1992 TO 1997**

[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/					
1992	2,733.60	1,117.26	1,439.90	4,604.17	15.26
1993	2,826.79	1,043.06	1,706.64	4,675.51	17.52
1994	3,160.26	1,059.72	1,992.06	5,328.29	19.28
1995	3,373.40	1,032.83	2,261.32	5,565.18	17.37
1996	3,554.76	1,167.70	2,348.64	5,770.20	18.73
1997	4,063.49	1,233.18	2,810.88	6,297.15	25.59
Exports: 3/					
1992	604.23	153.67	184.64	677.98	12.54
1993	1,099.70	113.14	242.61	431.74	12.66
1994	989.42	166.59	350.03	999.25	17.52
1995	1,072.16	149.59	476.56	896.20	20.53
1996	1,293.90	165.91	452.36	816.56	21.32
1997	1,627.98	213.54	341.53	922.07	16.07

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. Bureau of the Census, *U.S. Merchandise Trade: Selected Highlights, FT920, December 1992, 1993, 1994, 1995, 1996, and 1997*, tables 1 and 6.

**Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1994 TO 1998**

[Years ended September 30, unless otherwise specified]

Subject	1994	1995	1996	1997	1998
Zone No. 9, General Purpose:					
Firms using zone	323	310	284	289	274
User employment at zone 1/	166	142	164	150	200
Value of merchandise (\$1,000): 2/					
In/out 3/	52,648	55,383	80,691	86,982	412,973
Exports 3/	14,352	15,578	17,145	16,311	183,726
Revenue 4/ (\$1,000)	1,844	1,676	1,334	1,377	1,325
Expenditures 4/ (\$1,000)	1,475	1,490	1,391	1,538	1,286
Subzone No. 9-A, Tesoro Hawaii, Corp. 5/ 6/:					
User employment at subzone	606	588	617	628	512
Value (million dollars): 2/					
Merchandise, in/out	962	1,043	1,216	1,340	938
Exports	215	257	281	330	142
Subzone No. 9-B, HFM:					
User employment at subzone	19	19	19	19	16
Value (\$1,000): 2/					
Merchandise, in/out	2,872	4,162	2,820	1,493	42
Exports	1,444	2,062	1,392	805	25
Subzone No. 9-C, Dole Packaged Foods Co. 7/:					
User employment at subzone	18	18	18	...	...
Value (\$1,000): 2/					
Merchandise, in/out	2,906	2,750	828	...	...
Exports	1,362	1,126	332	...	...
Subzone No. 9-D, Maui Pineapple Co. Ltd.:					
User employment at subzone	595	597	622	602	570
Value (\$1,000): 2/					
Merchandise, in/out	106,303	99,196	103,719	110,594	104,697
Exports	8,650	4,601	2,994	2,505	3,299

Continued on next page.

**Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1994 TO 1998 -- Con.**

Subject	1994	1995	1996	1997	1998
Subzone No. 9-E, Chevron U.S.A. Products Co. Hawaii Refinery:					
User employment at subzone	329	338	297	314	300
Value (million dollars): 2/					
Merchandise, in/out	654	748	803	841	568
Exports	46	55	54	57	46
Subzone No. 9-F, Citizens Utilities Company dba The Gas Company's Synthetic Natural Gas (SNG) Facility 6/					
User employment at subzone	...	...	...	...	232
Value (million dollars):					
Merchandise, in/out	...	...	...	...	27
Exports	...	...	...	...	46

1/ For firms occupying facilities on a continuing basis only. Also includes downtown or other support site employment.

2/ Since 1994, method of calculating value of "Merchandise, in/out" and "Exports" excludes value added in subzone manufacturing activity.

3/ Beginning with 1998, includes activity at 3 General Purpose sites.

4/ Years ended June 30.

5/ On May 29, 1998 Tesoro Hawaii Corporation acquired all of the outstanding stock of BHP Petroleum Americas Refining, Inc. from BHP Hawaii.

6/ Formerly part of Subzone 9-A. On March 18, 1997, it was granted its own subzone status.

7/ Large portion of zone deactivated August 3, 1993 and completely deactivated on February 26, 1996.

Source: Hawaii State Department of Business, Economic Development & Tourism, Foreign-Trade Zone No. 9, annual reports and records.

Table 24.06-- CHARACTERISTICS OF MANUFACTURING ESTABLISHMENTS THAT EXPORT, UNITED STATES AND HAWAII: 1992

[In number of establishments]

Major Group	Establishments			
	United States		Hawaii	
	Total	Exporting	Total	Exporting
Total	369,145	82,553	999	182
Food and kindred products	20,641	4,563	233	70
Tobacco products	114	67	-	-
Textile mill products	5,868	1,613	9	-
Apparel and other textile mill products	22,935	2,801	145	19
Lumber and wood products	35,245	3,266	55	5
Furniture and fixtures	11,620	2,058	33	5
Paper and allied products	6,401	1,840	9	1
Printing and publishing	65,349	4,495	199	9
Chemicals and allied products	11,982	5,502	24	9
Petroleum and coal products	1,961	416	3	3
Rubber and misc. plastic products	15,819	5,806	22	10
Leather and leather products	2,032	677	5	2
Stone, clay, and glass products	16,001	2,116	51	4
Primary metal products	6,500	2,139	2	-
Fabricated metal products	36,360	8,211	32	1
Industrial machinery and equipment	53,849	13,990	30	2
Electronic and other electric equipment	16,890	8,306	16	6
Transportation equipment	11,249	3,711	21	6
Instruments and related products	11,331	6,716	16	9
Misc. manufacturing industries	16,998	4,260	94	21

Source: U.S. Bureau of the Census, *Selected Characteristics of Manufacturing and Wholesale Establishments That Export: 1992, Manufacturing, Analytical Report Series, AR92-2 (June 1996)*, pp. 1-39, and <<http://www.census.gov/prod/1/manmin/ar2/9r9202.pdf>>.

**Table 24.07-- MANUFACTURING INDUSTRIES: SHIPMENTS AND EMPLOYMENT
RELATED TO EXPORTS OF MAJOR GROUPS, HAWAII: 1992**

[In number of establishments, millions of dollars, and 1,000's of jobs. Unless otherwise indicated all establishments have 1 to 99 employees]

Major Group	Establishments		Value of shipments			Employment		
	Total	Exporting	Total	Estab. exporting	Exports	Total	Estab. exporting	Export employ.
Total	999	182	3,791.7	2,189.6	260.5	20.0	6.9	1.4
Food & kindred products	233	70	1,325.5	796.9	179.5	9.0	4.5	1.2
With 1 to 99 employees	208	57	474.5	244.3	33.2	3.2	1.3	0.3
With 100 to 499 employees	23	11	(D)	(D)	(D)	(D)	(D)	(D)
With 500 employees or more	2	2	(D)	(D)	(D)	(D)	(D)	(D)
Textile mill products	9	-	2.8	-	-	(Z)	-	-
Apparel & other textile mill prod.	145	19	147.0	29.0	3.3	2.1	0.4	(Z)
With 1 to 99 employees	141	18	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	4	1	(D)	(D)	(D)	(D)	(D)	(D)
Lumber & wood products	55	5	48.1	4.0	0.8	0.4	(Z)	(Z)
Furniture & fixtures	33	5	33.7	9.7	(D)	0.4	0.1	(D)
Paper & allied products	9	1	40.4	(D)	(D)	0.2	(D)	(D)
Printing & publishing	199	9	458.1	17.3	0.5	3.6	0.2	(Z)
With 1 to 99 employees	193	9	252.9	17.3	0.5	2.1	0.2	(Z)
With 100 to 499 employees	5	-	(D)	(D)	(D)	(D)	(D)	(D)
With 500 employees or more	1	-	(D)	(D)	(D)	(D)	(D)	(D)
Chemicals & allied products	24	9	73.4	51.1	1.8	0.3	0.2	(Z)
With 1 to 99 employees	23	8	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	1	1	(D)	(D)	(D)	(D)	(D)	(D)
Petroleum & coal products	3	3	(D)	(D)	(D)	(D)	(D)	(D)
With 1 to 99 employees	1	1	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	2	2	(D)	(D)	(D)	(D)	(D)	(D)
Rubber & misc. plastic products	22	10	23.5	18.7	1.2	0.2	0.1	(Z)
Leather and leather products	5	2	3.8	(D)	(D)	0.1	(D)	(D)

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**Table 24.07-- MANUFACTURING INDUSTRIES: SHIPMENTS AND EMPLOYMENT
RELATED TO EXPORTS OF MAJOR GROUPS, HAWAII: 1992 -- Con.**

Major Group	Establishments		Value of shipments			Employment		
	Total	Exporting	Total	Estab. exporting	Exports	Total	Estab. exporting	Export employ.
Stone, clay, & glass products	51	4	223.6	(D)	(D)	1.1	(D)	(D)
With 1 to 99 employees	49	4	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	2	-	(D)	(D)	(D)	(D)	(D)	(D)
Primary metal products	2	-	(D)	(D)	(D)	(D)	(D)	(D)
Fabricated metal products	32	1	71.6	(D)	(D)	0.3	(D)	(D)
Industrial machinery & equip.	30	2	19.0	(D)	(D)	0.2	(D)	(D)
Electronic & other electric equip.	16	6	10.4	1.4	0.2	0.2	(Z)	(Z)
With 1 to 99 employees	15	6	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	1	0	(D)	(D)	(D)	(D)	(D)	(D)
Transportation equipment	21	6	55.9	(D)	(D)	0.5	(D)	(D)
With 1 to 99 employees	20	5	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	1	1	(D)	(D)	(D)	(D)	(D)	(D)
Instruments & related products	16	9	6.6	4.1	0.5	0.1	(Z)	(Z)
Misc. manufacturing industries	94	21	73.8	36.6	3.5	0.8	0.4	(Z)
With 1 to 99 employees	93	20	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	1	1	(D)	(D)	(D)	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

Z Less than half the unit shown.

Source: U.S. Bureau of the Census, *Selected Characteristics of Manufacturing and Wholesale Establishments That Export: 1992*, Manufacturing, Analytical Report Series, AR92-2 (June 1996), pp. 1-39, and <<http://www.census.gov/prod/1/manmin/ar2/9r9202.pdf>>.

**Table 24.08-- PROFILE OF EXPORTING COMPANIES,
UNITED STATES AND HAWAII: 1996 AND 1997**

[In number, millions of dollars, and percent]

Characteristic	1996 Exports		1997 Exports	
	U.S.	Hawaii	U.S.	Hawaii
Exporter location				
Value of exports	625,075	295	689,183	303
Value as percent of total	100.0	(D)	100.0	(D)
Known value 1/	500,671	247	562,764	253
Percent of known value	100.0	(D)	100.0	(D)
Number of exporters	189,670	1,226	209,455	910
Percent of number of exporters	100.0	0.6	100.0	0.4
Percent change 1996-1997				
Value as percent of total	...	...	10.3	2.7
Percent of known value	...	...	12.4	2.4
Percent of number of exporters	...	...	10.4	-25.8
State of Origin of Movement				
Value of exports	625,075	284	689,183	334
Value as percent of total	100.0	(D)	100.0	(D)
Known value 1/	500,671	246	562,764	287
Percent of known value	100.0	(D)	100.0	(D)
Number of exporters	189,670	655	209,455	694
Percent of number of exporters	100.0	0.3	100.0	0.3
Percent change 1996-1997				
Value as percent of total	...	...	10.3	17.5
Percent of known value	...	...	12.4	16.6
Percent of number of exporters	...	...	10.4	6.0

D Less than 0.05 percent.

1/ Defined as portion of total U.S. exports that could be matched to specific companies.

Source: U.S. Bureau of the Census, *Profile of U.S. Exporting Companies, 1996-1997*, pp. 26-29.

Table 24.09-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 31, 1994 TO 1997

[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 1980 estimate from the U.S. Bureau of the Census Geography Division there were 4,112,000 acres of land in the state. Based on U.S. Department of Agriculture 1987 estimate of 1,998,000 privately-owned acres of land in the state]

Subject	1994	1995	1996	1997
Parcels owned by foreigners	93	99	101	101
Individuals	23	22	22	22
Organizations	70	77	79	79
Acres owned by foreigners 1/	179,971	180,058	180,075	180,073
Percent of all privately owned agric. land	9.0	9.0	9.1	9.0
Individuals	2,066	2,055	2,055	2,055
Organizations	177,905	178,003	178,020	178,018
Value of foreign-owned agric. land (\$1,000):				
At time of acquisition	647,331	660,690	661,551	660,801
Reported current value	646,076	659,396	660,266	659,525
Adjusted current value	728,642	791,012	846,717	895,489

1/ The 1996 and 1997 percentage for Hawaii ranked 2nd (rank of 1 assigned to the highest) among the 50 States, exceeded only by Maine at 17.9 and 16.8 percent, respectively, and well above the national percentage of 1.1 percent in 1996 and 1997.

Source: U.S. Department of Agriculture, Economic Research Service, *Foreign Ownership of U. S. Agricultural Land Through December 31, 1994* (Statistical Bulletin No. 919, June 1995), pp. 6, 9, and 13; For 1995: *Foreign Ownership of U.S. Agricultural Land Through December 31, 1995* (Statistical Bulletin No. 931, September 1997), pp. 6, 9, and 13; and *Agriculture Fact Book, 1997*; <<http://www.usda.gov/news/pubs/fbook97/contents.htm>>. For 1996, Economic Research Service, *Foreign Ownership of U. S. Agricultural Land Through December 31, 1996* (Statistical Bulletin No. 941, July 1998), pp. 5, 8, and 12. For 1997, Economic Research Service, *Foreign Ownership of U. S. Agricultural Land Through December 31, 1997* (Statistical Bulletin No. 943, September 1998), pp. 5, 8, and 12; and <<http://usda.mannlib.cornell.edu/data-sets/land/87015/>>, accessed June 18, 1999.

Table 24.10-- JAPANESE AND ASIAN INVESTMENT IN REAL ESTATE, FOR THE UNITED STATES, HAWAII AND HONOLULU METROPOLITAN STATISTICAL AREA: 1985- 2000

Period	United States	Hawaii		Honolulu Metropolitan Statistical Area	
	Amount (million dollars)	Amount (million dollars)	Rank	Amount (million dollars)	Rank
INVESTMENT 1/					
1985 2/	1,280	(NA)	(NA)	(NA)	(NA)
1988	16,544	1,825	4	1,325	4
1989	14,775	4,437	2	1,064	4
1990	13,059	2,860	2	1,325	2
1991	5,060	1,656	1	662	2
1992	807	328	1	(NA)	(NA)
1993	705	521	1	(NA)	(NA)
1993 through 1996 2/	6,400	(NA)	(NA)	(NA)	(NA)
Cumulative:					
Through 1987	26,340	7,240	1	4,420	3
Through 1988	42,884	9,065	2	5,745	(NA)
Through 1989	57,658	13,502	2	6,809	(NA)
Through 1990	70,717	16,362	2	8,134	(NA)
Through 1991	75,776	18,018	2	8,796	(NA)
Through 1992	76,583	18,346	2	(NA)	(NA)
Through 1993	77,288	18,867	2	(NA)	(NA)
DISINVESTMENT AND RESTRUCTURING ACTIVITY					
1993	17,590	5,230	1	(NA)	(NA)
DISINVESTMENT					
1993	3,430	(NA)	(NA)	(NA)	(NA)
1994	6,360	630	3	(NA)	(NA)
1995	8,870	656	3	(NA)	(NA)
1996	4,990	881	(NA)	(NA)	(NA)
2000 forecast	(NA)	1,000	(NA)	(NA)	(NA)

NA Not available.

1/ Preliminary data indicate 1993-96 Asian, exclusive of Japanese, investment in the U.S. to be \$6.3 billion and Hawaii, \$287 million.

2/ As the 1998 report emphasizes U.S. investment in Asian assets, estimated at \$10 billion, Asian investment in the U.S. is only cited anecdotally in text. There are no by-state data.

Source: Kenneth Leventhal & Company, *1990 Japanese Investment in U.S. Real Estate* (1991), pp. 15, 16, and 23; and *Ibid. 1991* (1992), pp. 16, 17, and 24; *Ibid. 1992* (1993), pp. 15 and 17; *1993 Japanese Disinvestment in U.S. Real Estate* (1994), pp. 7 and 12; and *1995/1996 Japanese Investment in U.S. Real Estate* (1995), <<http://www.ey.com/us/realcon/realinfo.htm>>; *Honolulu Advertiser*, July 1, 1997, p. B-8; and *1997 Asian Investment in U.S. Real Estate* (1997), pp. 12-13; *1998 U.S. Investment in Asian Real Estate* (1998) and Ernst & Young LLP, News Center, November 18, 1998, pp. 1-7 and <<http://www.ey.com/realestate>>.

**Table 24.11-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS
ON OAHU: 1991 TO 1998**

[Foreign investments in real property on Oahu, reported in accordance with Honolulu Ordinance No. 90-68, requiring all foreign persons to report real property holdings to the City and County Director of Finance. Reporting is thought to be incomplete. No report was issued in 1993]

Subject	Parcels						
	1991	1992	1994	1995	1996	1997	1998
All property 1/	227,449	231,893	240,652	245,257	250,320	252,587	254,282
Foreign holdings	3,160	4,642	5,833	5,150	4,406	3,968	3,081
Percent	1.4	2.0	2.4	2.1	1.8	1.6	1.2
Foreign holdings by land class:							
Improved residential	362	753	678	597	545	501	448
Apartment	2,487	3,489	4,284	3,792	3,067	2,804	2,151
Commercial	162	209	212	222	188	169	153
Industrial	13	23	22	21	19	15	15
Agricultural	35	42	38	33	20	20	20
Conservation	20	26	20	18	11	7	4
Hotel and resort	66	89	571	460	550	448	288
Unimproved residential	15	11	8	7	6	4	2
Subject	Assessed value (millions of dollars) 1/						
	1991	1992	1994	1995	1996	1997	1998
All property 1/	72,542	84,520	89,059	88,077	86,985	83,375	78,066
Foreign holdings	2,766	5,828	6,491	4,867	3,796	3,075	2,585
Percent	3.8	6.9	7.3	5.5	4.4	3.7	3.3
Foreign holdings by land class:							
Improved residential	333	702	712	509	435	387	332
Apartment	952	1,447	1,471	1,178	916	789	557
Commercial	1,157	1,661	1,730	929	567	306	214
Industrial	106	141	192	173	113	91	84
Agricultural	9	15	53	51	4	4	4
Conservation	25	122	91	68	38	1	1
Hotel and resort	151	1,716	2,223	1,946	1,710	1,487	1,390
Unimproved residential	33	25	18	14	12	8	2

1/ Net taxable valuation.

Source: City and County of Honolulu, Department of Finance, Real Property Division, *Foreign Investments in Real Property Within (the City and County of) Honolulu for 1992* (December 1, 1992), *1994* (January 31, 1995), *Within the City and County of Honolulu for 1995* (January 23, 1996), *1996* (January 31, 1997), *1997* (February 2, 1998), and *1998* (preliminary February 17, 1999) submitted to the City Council; City and County of Honolulu, Department of Finance, *Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii, for 1995-1996, 1996-97, 1997-98, and 1998-99*

(annually, in July).

Table 24.12-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY COUNTRY, NUMBER OF PARCELS: 1991 TO 1998

[Number of parcels. No report issued for 1993]

Country	1991	1992	1994	1995	1996	1997	1998
Total	3,160	4,642	5,833	5,150	4,406	3,968	3,081
Argentina	-	-	1	1	1	1	1
Australia	38	47	42	37	31	26	20
Austria	1	1	2	2	2	2	2
Bahamas	-	-	-	-	-	1	1
Barbados	-	-	-	1	1	1	1
Belgium	-	-	2	2	1	1	1
Bermuda	1	2	19	18	16	14	12
British Virgin Isle	-	-	1	2	4	4	4
British West Indies	-	-	1	1	1	1	1
Canada	294	330	293	255	228	207	146
Cayman Island(s)	1	4	4	1	1	1	1
China	3	32	53	52	49	42	41
Dominican Republic	-	-	1	1	1	1	1
England	10	23	53	47	40	36	29
Finland	1	1	-	-	-	-	-
France	6	22	48	45	45	44	39
French Polynesia	8	15	6	6	6	6	5
Germany	6	11	20	18	13	13	10
Guam	1	1	-	-	-	-	-
Holland	-	1	5	5	4	4	3
Hong Kong	115	128	89	81	73	63	55
Iceland	-	-	1	1	-	-	-
India	-	-	2	2	2	2	2
Indonesia	2	21	12	10	8	8	8
Italy	-	-	1	1	1	1	1
Japan	2,553	3,763	4,893	4,309	3,669	3,299	2,533
Korea	13	42	70	58	51	45	38
Lebanon	-	-	2	2	2	2	2
Liberia	-	7	6	6	6	6	6
Macau	2	2	1	1	1	1	-
Malaysia	2	4	6	5	4	4	3
Micronesia	-	-	2	2	2	2	2
Netherlands Antilles	21	24	33	34	10	9	9
New Zealand	12	15	11	9	7	5	5
Panama	1	1	2	1	1	1	1
Papua New Guinea	4	4	-	-	-	-	-
Philippines	8	41	36	32	30	29	25
Portugal	-	2	1	1	1	1	1

Continued on next page.

Table 24.12-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY COUNTRY, NUMBER OF PARCELS: 1991 TO 1998 -- Con.

Country	1991	1992	1994	1995	1996	1997	1998
Samoa, Western	-	1	-	-	-	-	-
Saudi Arabia	-	-	3	3	3	3	3
Singapore	14	15	11	11	10	10	7
Sweden	1	2	5	4	4	4	3
Switzerland	7	10	13	13	10	9	6
Tahiti	-	-	14	11	11	11	10
Taiwan	22	48	54	48	46	38	34
Thailand	7	16	13	10	9	9	9
Turkey	1	1	-	-	-	-	-
United Arab Emirates	1	1	1	1	1	1	-
Vanuatu	4	4	-	-	-	-	-

Source: City and County of Honolulu, Department of Finance, Real Property Division, *Foreign Investments in Real Property Within (the City and County of) Honolulu for 1992* (December 1, 1992), *1994* (January 31, 1995), *Within the City and County of Honolulu for 1995* (January 23, 1996), and *1996* (January 31, 1997), *1997* (February 2, 1998), and *1998* (preliminary February 17, 1999) submitted to the Honolulu City Council.

**Table 24.13-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU
BY COUNTRY, ASSESSED VALUE: 1991 TO 1998**

[Value in thousands of dollars. No report issued for 1993]

Country	1991	1992	1994	1995	1996	1997	1998
Total	2,766,383.2	5,828,105.9	6,490,786.0	4,866,581.8	3,795,599.8	3,074,944.5	2,584,680.4
Argentina	-	-	157.2	172.9	164.3	123.2	117.0
Australia	13,681.4	17,886.7	13,947.0	16,664.1	14,027.8	12,266.4	9,777.7
Austria	354.6	404.4	616.5	629.1	585.3	519.4	493.2
Bahamas	-	-	-	-	-	8,245.4	8,287.7
Barbados	-	-	-	1,515.1	1,657.0	1,643.9	1,660.7
Belgium	-	-	390.2	364.0	172.0	172.0	154.8
Bermuda	1,403.1	4,031.8	36,564.7	33,784.1	28,887.1	16,825.1	12,819.6
British Virgin Isle	-	-	298.0	885.2	2,034.1	2,032.0	1,869.6
British West Indies	-	-	320.2	266.8	254.1	254.1	203.3
Canada	87,387.3	111,696.7	75,640.1	62,631.6	52,773.2	42,886.7	28,168.2
Cayman Island(s)	1,875.0	4,172.0	4,367.0	1,704.5	1,303.9	1,303.9	1,238.7
China	1,845.3	9,886.6	15,295.8	14,433.2	13,385.4	10,200.6	8,938.9
Dominican Republic	-	-	340.3	329.7	262.2	248.2	224.8
England	3,543.2	12,124.7	19,078.4	16,127.4	13,031.5	11,174.9	9,033.8
Finland	97.8	97.8	-	-	-	-	-
France	9,814.4	26,556.0	31,097.9	24,109.1	22,821.2	22,918.7	20,779.8
French Polynesia	3,064.2	4,493.5	1,997.1	1,887.1	1,847.8	1,814.7	1,500.6
Germany	1,703.0	4,414.8	9,888.2	8,008.5	4,404.2	4,153.5	3,049.6
Guam	149.1	163.3	-	-	-	-	-
Holland	-	121.2	1,768.7	1,795.7	999.8	839.9	698.2
Hong Kong	52,175.7	57,722.7	58,948.4	47,992.5	40,255.6	34,066.1	29,395.7
Iceland	-	-	775.0	775.0	-	-	-
India	-	-	543.4	539.7	540.5	477.2	416.1

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**Table 24.13-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY
COUNTRY, ASSESSED VALUE: 1991 TO 1998 -- Con.**

Country	1991	1992	1994	1995	1996	1997	1998
Indonesia	2,392.0	6,450.5	2,888.6	2,463.0	1,893.6	1,656.9	1,443.1
Italy	-	-	143.8	143.8	123.3	111.0	88.8
Japan	2,547,270.5	5,413,022.3	6,066,721.8	4,503,050.5	3,513,238.5	2,832,862.2	2,388,443.0
Korea	5,424.1	87,185.7	37,743.6	25,308.3	20,027.3	17,505.5	14,649.4
Lebanon	-	-	858.0	858.0	826.6	612.8	584.2
Liberia	-	1,008.2	2,898.5	2,827.2	2,745.3	2,660.1	2,537.2
Macau	391.0	449.7	304.3	304.3	258.7	219.9	-
Malaysia	248.2	1,203.6	2,114.3	1,385.0	1,113.5	622.6	1,049.0
Micronesia	-	-	1,697.7	1,663.7	1,451.4	1,046.2	1,591.4
Netherlands Antilles	2,071.3	5,789.9	43,990.0	42,509.7	11,007.0	9,804.0	7,950.8
New Zealand	3,633.0	4,451.2	3,300.1	3,120.5	1,948.2	1,123.5	962.6
Panama	274.4	379.0	615.3	305.2	259.4	259.4	198.0
Papua New Guinea	727.8	875.0	-	-	-	-	-
Philippines	2,863.6	11,466.8	10,885.0	9,448.7	8,387.9	7,180.2	5,394.8
Portugal	-	776.4	464.6	464.6	441.4	397.3	394.8
Samoa, Western	-	111.8	-	-	-	-	-
Saudi Arabia	-	-	602.9	623.5	616.9	576.3	-
Singapore	4,220.1	5,250.6	3,912.0	3,347.0	2,860.4	2,516.9	490.8
Sweden	267.0	524.3	1,478.8	1,216.9	1,148.4	1,085.1	1,336.8
Switzerland	2,400.1	3,246.7	4,415.3	4,266.6	2,782.8	2,450.4	798.6
Tahiti	-	-	2,684.2	2,144.8	2,175.2	1,914.3	1,277.0
Taiwan	8,593.8	20,467.5	25,576.8	22,471.4	19,448.8	15,039.3	1,458.2
Thailand	2,433.3	5,532.4	5,233.6	3,841.3	3,254.9	2,984.1	12,258.1
Turkey	182.8	209.0	-	-	-	-	2,945.8
United Arab Emirates	213.5	233.8	222.7	202.5	183.3	150.6	-
Vanuatu	5,682.6	5,699.3	-	-	-	-	-

Source: City and County of Honolulu, Department of Finance, Real Property Division, *Foreign Investments in Real Property Within (the City and County of) Honolulu for 1992* (December 1, 1992), *1994* (January 31, 1995), *Within the City and County of Honolulu for 1995* (January 23, 1996), and *1996* (January 31, 1997), *1997* (February 2, 1998), and *1998* (preliminary February 17, 1999) submitted to the Honolulu City Council.

**Table 24.14.-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS
PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES, BY
COUNTRY OF ULTIMATE BENEFICIAL OWNER: 1977 TO 1996**

[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. Data for 1994-95 are revised. Data for 1996 are preliminary]

Year	All countries	Asia & Pacific	Japan	Australia, etc. 1/	Other Asia & Pacific	Canada	Europe	Lat. Amer. & Oth. 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	15,547	14,562	13,163	950	449	66	702	149	68

Values between -0.05 and 0.05 are rounded to zero for 1987-1995.

D Not disclosed.

NA Not available.

1/ Figures for Australia include New Zealand and South Africa for 1977-86 but exclude these countries for 1987-95.

2/ Figures for Other subtotal include New Zealand and South Africa for 1987-1995 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.

Source: U.S. Department of Commerce, Foreign Direct Investment in the United States (various years) and Hawaii State Department of Business, Economic Development & Tourism calculations.

**Table 24.15.-- EMPLOYMENT OF NON BANK AFFILIATES IN HAWAII,
BY COUNTRY OF AFFILIATE: 1977 TO 1996**

[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. Data for 1994-95 are revised. Data for 1996 are preliminary]

Year	All countries	Asia & Pacific	Japan	Australia, etc. 1/	Other Asia & Pacific	Canada	Europe	Lat. Amer. & Oth. 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	48.6	37.6	34.2	1.6	1.8	0.9	6.6	2.7	0.8

D Data not disclosed.

NA Not available.

1/ Figures for Australia include New Zealand and South Africa for 1977-1986 but exclude these countries thereafter.

2/ Figures for Other subtotal include New Zealand and South Africa for 1987-1995 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.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States* (various years) and Hawaii State Department of Business, Economic Development & Tourism calculations.

Table 24.16.-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES, BY INDUSTRY OF AFFILIATE: 1977 TO 1996

[Investment by Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign by country of ultimate beneficial owner. In millions of dollars. 1981-1983 Hawaii totals are estimated based on historical shares and growth rates. Data for 1994-95 are revised. 1996 data are preliminary]

Year	All industries	Petroleum	Manufacturing	Wholesale trade	Retail trade	Finance, nonbank	Insurance	Real estate	Services & Other	Services	Other
1977	672	16	8	5	54	0	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	15,547	(D)	298	192	610	190	(D)	4,299	9,043	8,274	769

D Data not disclosed.

NA Not available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division, Foreign Direct Investment in the United States (various years) and <<http://www.bea.doc.gov>>and Hawaii State Department of Business, Economic Development & Tourism calculations.

**Table 24.17.-- EMPLOYMENT OF NON BANK AFFILIATES IN HAWAII,
BY INDUSTRY OF AFFILIATE: 1977 TO 1996**

[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. 1994-95 are revised. Data for 1996 are preliminary]

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	0.0	0.2	0.2	(D)	(NA)	(NA)
1978	11.9	(D)	0.8	0.6	3.2	0.0	0.2	0.2	(D)	(NA)	(NA)
1979	14.7	(D)	1.3	0.7	4.0	0.0	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	0.0	1.3	1.3	5.1	0.2	1.4	0.6	17.4	11.0	6.4
1988	34.8	0.0	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	G	2.4	1.9	9.1	0.1	F	2.6	30.6	23.4	7.2
1996	48.6	1.2	2.3	1.9	8.9	0.1	0.9	2.8	30.5	23.2	7.3

D Data not disclosed.

NA Not available.

Note: Size ranges are given for employment cells that are suppressed. The size ranges are: A--1 to 499; F--500 to 999; G--1,000 to 2,499; H--5,000 to 9,999; 10,000 to 49,999; L--50,000 to 99,999; M--100,000 or more.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division, *Foreign Direct Investment in the United States* (various years) and <<http://www.bea.doc.gov>>.

BIBLIOGRAPHY

This volume is the 31st of its type published 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. All of the volumes issued before the 1995 edition are now out of print, but copies can be consulted in the DBEDT Business Resource Center Library, 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.

Statistical abstracts have also been recently published for the Big Island, Maui County, Molokai, and Kauai. The Hawaii County Department of Research and Development issued its *1998 County of Hawaii Data Book*, an approximately 374 page compendium, in 1999. *Maui County Data Book 1999*, 193 pages, a joint production of the Maui County Office of Economic Development and the Hawaii Small Business Development Center Network Business Research Library, appeared in April 1999. *The Moloka'i Data Book: A Statistical Abstract* (1990; 41 pages) was compiled by the Cooperative Extension Service, College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa. *Statistical Abstract of the Kauai Economy, 1994 Edition* (80 pages), prepared by the Kauai County Office of Economic Development, appeared in September 1994. There is also a privately published volume, *Kauai Data Book, Seventh Edition* (1998; 96 pages), available from H & S Publishing, Kapa'a.

Persons interested in data for other states or the nation as a whole should consult the *Statistical Abstract of the United States* and its companion volumes, the *State and Metropolitan Area Data Book* and *County and City Data Book*. The *Abstract* is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 118th, dated 1998; copies are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The *State and Metropolitan Area Data Book* and *County and City Data Book* are sold by the same agency. The ordering information and some of the publications may be viewed at the Internet site, <http://www.census.gov>.

**Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK:
1988 TO 1998**

[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		
1988	694	737	5.00	15.00	21,700.00	3,000
1989	651	704	8.00	1/ 18.00	21,620.00	3,000
1990	667	732	8.00	1/ 18.00	22,500.00	3,000
1991	657	717	8.00	1/ 18.00	25,312.00	3,000
1992	618	707	8.00	2/ 12.00	24,673.00	3,000
1993-94	571	639	8.00	2/ 12.00	20,430.00	3,000
1995	629	697	15.00	3/ 19.00	23,000.00	3,000
1996	664	705	15.00	3/ 19.00	27,040.00	3,000
1997	679	711	18.00	4/ 22.00	17,140.00	1,500
1998	718	736	20.00	5/ 24.00	17,750.00	1,250

1/ U.S. Mainland price; \$35.00 for foreign countries.

2/ U.S. Mainland price; \$15.00 for Canada, \$20.00 for Mexico, and \$40.00 for all other countries.

3/ U.S. Mainland price: \$21.00 for Canada, \$28.00 for Mexico, and \$48.00 for all other countries.

4/ U.S. Mainland price: \$25.00 for Canada, \$38.00 for Mexico, and \$51.00 for all other countries.

5/ U.S. Mainland price: \$27.00 for Canada, \$40.00 for Mexico, and \$53.00 for all other countries

Source: Hawaii State Department of Business, Economic Development & Tourism records.

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