



THE STATE OF HAWAII

DATA BOOK

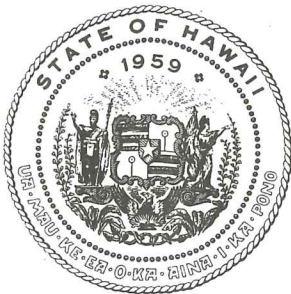
1996

A STATISTICAL ABSTRACT

DBEDT

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

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OF HAWAII**

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S T A T E O F H A W A I I

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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) and Lisa Nakama, Mary Blewitt, Hans Meyer, Jan Nakamoto, Michele Nakamura, Kenoilani Koli, Susan Shiraishi, Susan Yanos, Darcie Hayashikawa, Monica Kim 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. Printing arrangements were handled by the department's Communications and Publications Office.

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 \$15.00 in Hawaii, \$19.00 air-mailed postpaid to the continental United States, \$21.00 air-mailed postpaid to Canada, \$28.00 air-mailed postpaid to Mexico, and \$48.00 air-mailed postpaid to all other countries. Diskettes are also available at \$15.00 each in Hawaii, \$16.00 air-mailed postpaid to the continental United States, Canada, and Mexico, and \$17.00 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 1996 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 29th 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

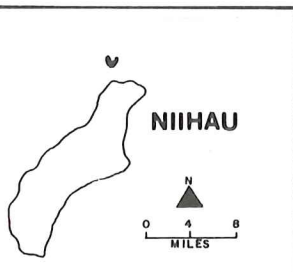
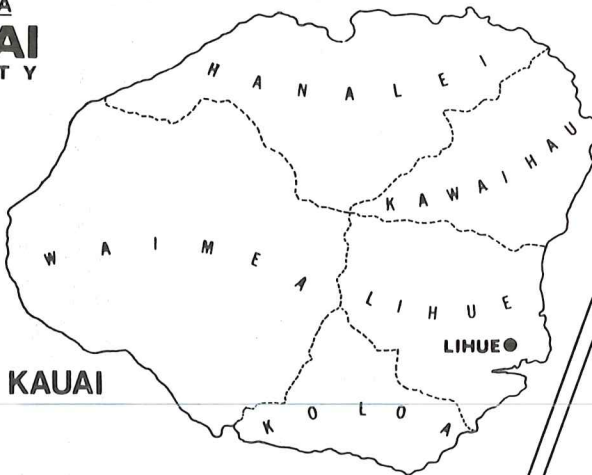
NOTE: The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession) are part of the Honolulu District.

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

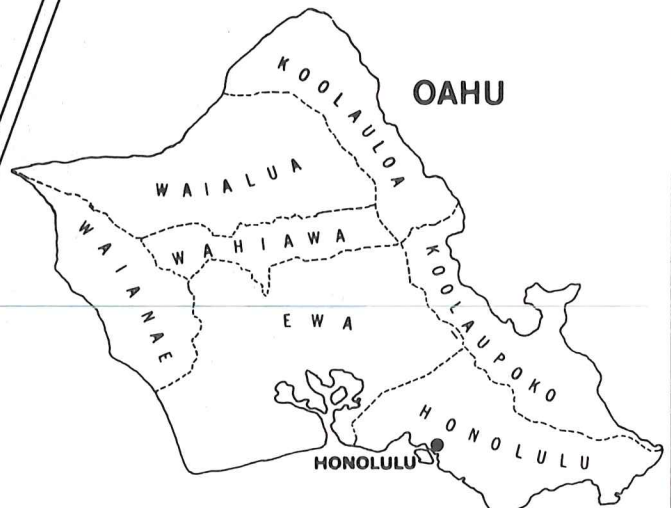
FRENCH FRIGATE SHOALS

NECKER ISLAND

INSET A KAUAI COUNTY

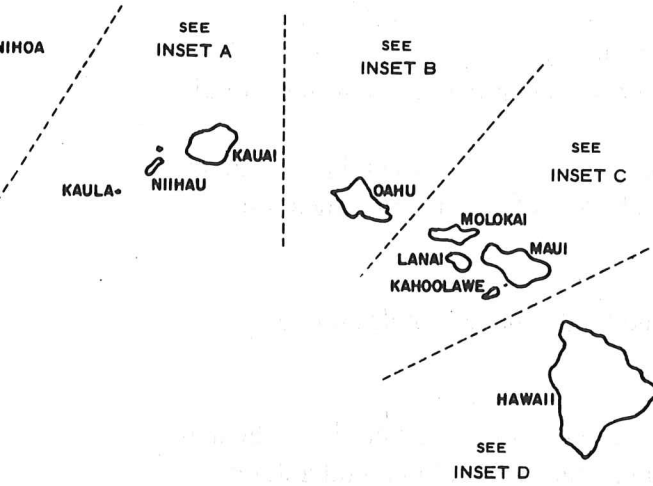
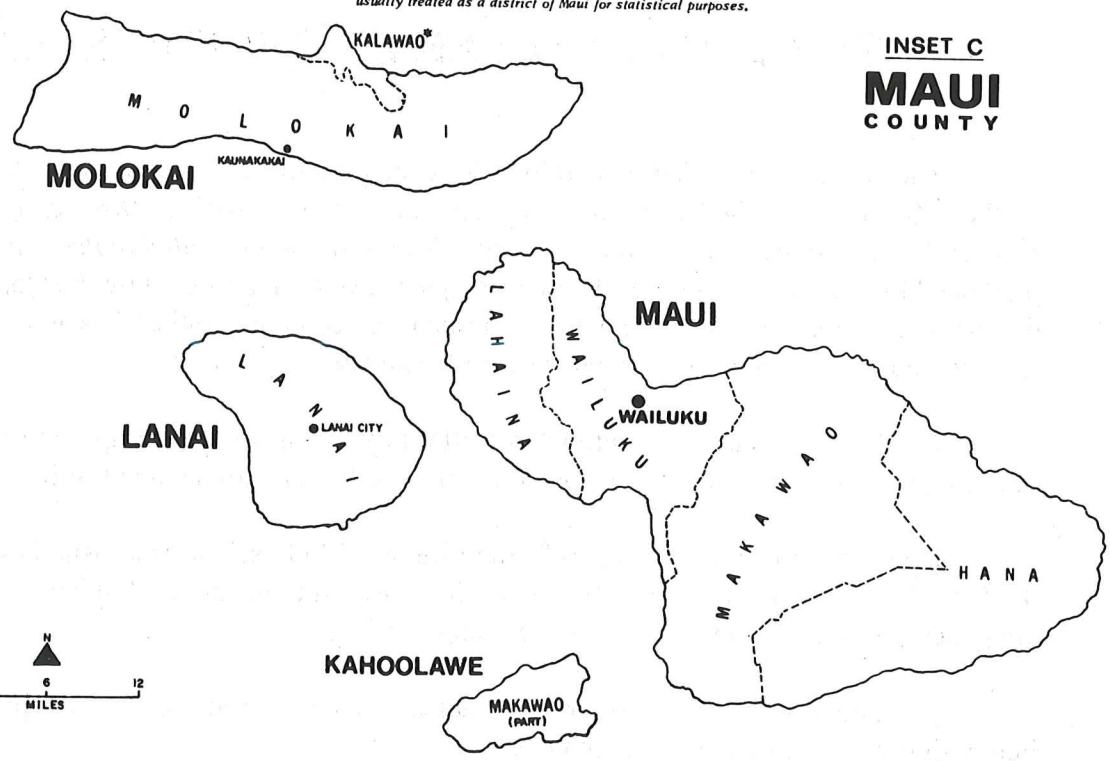


INSET B HONOLULU CITY AND COUNTY



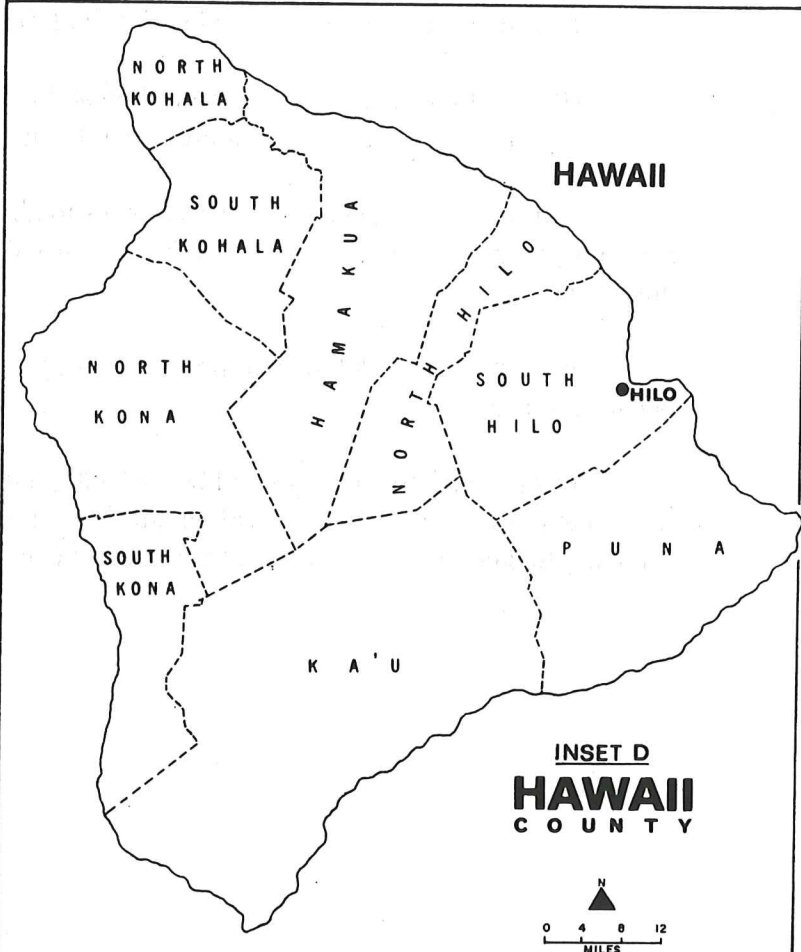
*Kalaupapa is officially designated as a separate county but is usually treated as a district of Maui for statistical purposes.

**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 (...).

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 Surveillance Program 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: 1996*.

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.

REVISED 10/10/97

**Table 1.03-- RESIDENT POPULATION, BY MILITARY STATUS:
1980 TO 1996**

[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	978,200	56,600	921,600	64,300	857,300
1982: July 1	993,800	54,900	938,900	66,700	872,200
1983: July 1	1,012,700	55,200	957,500	66,300	891,200
1984: July 1	1,027,900	57,300	970,600	67,100	903,500
1985: July 1	1,039,700	56,400	983,300	64,300	919,000
1986: July 1	1,051,800	58,100	993,700	66,200	927,500
1987: July 1	1,067,900	58,100	1,009,800	64,800	945,000
1988: July 1	1,079,800	56,800	1,023,000	69,900	953,100
1989: July 1	1,094,600	56,400	1,038,200	60,300	977,900
1990: April 1	1,108,229	55,222	1,053,007	59,935	993,072
July 1	1,112,646	55,288	1,057,358	60,614	996,744
1991: July 1	1,129,648	54,738	1,074,910	63,328	1,011,582
1992: July 1	1,147,803	55,099	1,092,704	56,994	1,035,710
1993: July 1	1,159,964	52,674	1,107,290	62,166	1,045,124
1994: July 1	1,172,645	52,845	1,119,800	54,338	1,065,462
1995: July 1	1,179,198	50,729	1,128,469	46,519	1,081,950
1996: July 1	1,183,723	47,986	1,135,737	55,337	1,080,400

1/ Estimates after April 1, 1990 are revisions released in March 1997, and differ somewhat from the earlier figures cited in tables 1.08 and 1.43. Total resident population figures presented in this table are from the Federal-State Cooperative Program for Population Estimates.

2/ These figures are the estimates developed by the Federal-State Cooperative Program for Population Estimates 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. Figures are from the Hawaii State Department of Business, Economic Development & Tourism.

Source: Federal-State Cooperative Program for Population Estimates; Hawaii State Department of Business, Economic Development & Tourism, *Military Personnel and Dependents in Hawaii* (annual).

**Table 1.04-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE
STATUS: 1980 TO 1996**

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	1,112,646	17,970	1,256,746	162,070	1.130
1991: July 1	1,129,648	16,590	1,270,648	157,590	1.125
1992: July 1 4/	1,147,803	37,080	1,264,113	153,390	1.101
1993: July 1 4/	1,159,964	49,117	1,259,597	148,750	1.086
1994: July 1	1,172,645	50,190	1,281,675	159,220	1.093
1995: July 1 5/	1,179,198	50,562	1,285,856	157,220	1.090
1996: July 1 5/	1,183,723	51,692	1,290,901	158,870	1.091

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.

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.

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

5/ Preliminary. The total de facto population differs from figures presented in Tables 1.07, 1.08 and 1.09. The total de facto population in other data book tables are based upon preliminary data by island.

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

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 1996

[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	978,200	767,600	96,100	40,500	74,000
1982: July 1	993,800	776,100	98,800	41,800	77,100
1983: July 1	1,012,700	789,100	100,800	42,800	80,100
1984: July 1	1,027,900	797,800	103,500	43,600	83,000
1985: July 1	1,039,700	804,300	105,900	44,400	85,100
1986: July 1	1,051,800	810,400	108,400	45,600	87,400
1987: July 1	1,067,900	818,400	111,700	47,200	90,500
1988: July 1	1,079,800	824,100	113,400	48,500	93,800
1989: July 1	1,094,600	831,300	116,600	49,800	96,800
1990: April 1	1,108,229	836,231	120,317	51,177	100,504
July 1	1,112,646	837,994	121,459	51,622	101,571
1991: July 1	1,129,648	845,469	126,048	53,151	104,980
1992: July 1	1,147,803	856,382	129,914	54,003	107,504
1993: July 1	1,159,964	861,853	132,889	54,864	110,358
1994: July 1	1,172,645	869,230	135,092	55,627	112,696
1995: July 1	1,179,198	870,761	137,291	55,983	115,163
1996: July 1	1,183,723	871,766	138,422	56,435	117,100

1/ Including Kalawao County (Kalaupapa Settlement). Kalawao had 144 inhabitants in 1980, 130 in 1990, and 87 in 1996.

Source: Federal-State Cooperative Program for Population Estimates.

Table 1.07-- DE FACTO POPULATION, BY COUNTIES: 1980 TO 1996

[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	1,257,000	912,100	136,500	69,000	139,500
1991: July 1	1,274,800	916,500	142,900	71,500	143,900
1992: July 1	1,269,400	911,700	145,200	65,900	146,600
1993: July 1	1,265,100	909,100	146,600	61,100	148,400
1994: July 1	1,287,600	920,500	149,000	66,700	151,300
1995: July 1 2/	1,287,600	915,500	150,300	68,100	153,600
1996: July 1 2/	1,298,800	919,200	153,200	69,500	156,900

1/ Including Kalawao County (Kalaupapa Settlement). The 1996 de facto population of Kalawao was 87.

2/ 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.

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; DBEDT 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**

[1995 population figures were revised]

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 DBEDT.

**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
Honolulu	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 1996

Comparison 1/	Resident population, 1996	Ranking		
		Population		Percent change, 1990-1996 2/
		1990	1996	
State of Hawaii:				
Among the 50 States and D.C.	1,183,723	41	41	38
Among the 50 States	1,183,723	41	41	38
Honolulu MSA: 3/				
Among all MSAs and CMSAs	4/ 877,198	54	4/ 53	5/ 145
City and County of Honolulu: 6/				
Among all counties	871,766	40	41	1,635
Among all municipalities	7/ 874,330	11	7/ 11	(NA)
Honolulu CDP: 8/				
Among all incorp. places and CDPs	7/ 385,881	39	7/ 39	9/ 109
Hawaii County 10/	138,422	383	365	423
Kalawao County 10/	87	3,139	3,141	3,141
Kauai County 10/	56,435	823	815	789
Maui County 10/	117,013	457	433	345

NA Not available.

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

2/ Ranking of the area in regard to 1990-96 population percent change.

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

4/ 1995 estimate.

5/ 1990-1995 percent change ranking.

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

7/ 1994 estimate.

8/ 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). The 1990 count shown here has been corrected from the published total.

9/ 1990-1994 percent change ranking.

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. 26-27) 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 Mokapu/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 29-30]

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 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 31]

County, district, and census tract	Population	Households	County, district, and census tract	Population	Households
HAWAII			North Kohala	4,291	1,351
Total	120,317	41,461	218	4,291	1,351
South Hilo	44,639	15,558	Hamakua	5,545	1,796
201	5,102	1,705	219	3,681	1,209
202	1,871	579	220	1,864	587
203	3,723	1,633	North Hilo	1,541	506
204	3,612	1,410	221	1,541	506
205	5,576	2,096			
206	3,902	1,355	KAUAI		
207.01	4,399	1,559	Total	51,177	16,295
207.02	4,693	1,460			
208.01	3,062	868	Hanalei	4,631	1,628
208.02	5,081	1,746	401	4,631	1,628
209	3,618	1,147			
Puna	20,781	7,136	Kawaihau	15,627	4,938
210.01	6,844	2,262	402.01	2,178	656
210.02	7,235	2,603	402.02	6,622	2,151
211	6,702	2,271	403	6,827	2,131
Ka'u	4,438	1,530	Lihue	10,663	3,330
212	4,438	1,530	404	5,384	1,345
			405	5,275	1,985
South Kona	7,658	2,591	405.99 1/	4	-
213	4,998	1,654			
214	2,660	937	Koloa	11,368	3,689
			406	4,900	1,617
North Kona	22,284	7,898	407	6,468	2,072
215.01	6,486	2,166			
215.02	2,944	1,058	Waimea	8,888	2,710
215.97	104	33	408	2,913	919
215.98	3,089	1,142	409	5,745	1,749
216	9,661	3,499	410	230	42
South Kohala	9,140	3,095			
217	9,140	3,095			

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

1/ Persons living aboard vessels.

Source: U.S. Bureau of the Census, Summary Tape File 1A, tabulated by 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 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 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

Continued on next page.

**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, and 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 1996**

[Includes armed forces stationed or homeported in Hawaii. The 1996 estimates are provisional]

Age group	April 1, 1990 (MARS) 1/			July 1, 1996		
	Both sexes	Male	Female	Both sexes	Male	Female
Total	1,108,229	563,918	544,311	1,183,723	597,342	586,381
Under 5 years	85,448	43,915	41,533	91,264	46,901	44,363
5 to 9 years	80,680	41,486	39,194	86,975	44,743	42,232
10 to 14 years	73,570	37,988	35,582	80,917	41,795	39,122
15 to 19 years	73,050	38,378	34,672	80,990	41,825	39,165
20 to 24 years	91,693	51,139	40,554	82,312	45,249	37,063
25 to 29 years	100,435	52,862	47,573	76,471	40,374	36,097
30 to 34 years	100,540	51,316	49,224	91,908	47,226	44,682
35 to 39 years	95,123	48,547	46,576	100,353	51,539	48,814
40 to 44 years	82,238	42,159	40,079	97,798	49,850	47,948
45 to 49 years	61,011	30,764	30,247	85,246	42,915	42,331
50 to 54 years	46,635	22,866	23,769	63,592	31,184	32,408
55 to 59 years	45,217	20,983	24,234	48,996	22,863	26,133
60 to 64 years	48,862	22,725	26,137	44,378	20,886	23,492
65 to 69 years	45,265	21,717	23,548	47,344	21,523	25,821
70 to 74 years	32,789	15,573	17,216	41,833	19,679	22,154
75 to 79 years	22,591	11,238	11,353	30,694	14,274	16,420
80 to 84 years	13,020	6,453	6,567	18,487	8,350	10,137
85 and over	10,062	3,809	6,253	14,165	6,166	7,999
5 to 17	196,396	101,277	95,119	215,259	111,098	104,161
18 to 24	122,597	67,714	54,883	115,935	62,514	53,421
25 to 44	378,336	194,884	183,452	366,530	188,989	177,541
45 to 64	201,725	97,338	104,387	242,212	117,848	124,364
16 years and over	854,518	433,227	421,291	908,594	455,571	453,023
18 years and over	826,385	418,726	407,659	877,200	439,343	437,857
21 years and over	777,428	391,948	385,480	826,140	412,643	413,497
65 years and over	123,727	58,790	64,937	152,523	69,992	82,531
85 years and over	10,062	3,809	6,253	14,165	6,166	7,999
Median age	32.5	31.6	33.4	35.1	34.1	36.1

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.

JN/ 5/9/97

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-- ETHNIC STOCK BY MILITARY STATUS: 1992

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 13,943 persons]

Ethnic stock 1/	Total		Armed forces 2/	Military dependents 2/	Other civilians
	Number	Percent			
All groups	1,138,866	100.0	47,064	85,350	1,006,452
Unmixed	717,405	63.0	39,856	60,197	617,352
Caucasian	265,211	23.3	30,609	42,570	192,032
Japanese	224,800	19.7	466	904	223,430
Chinese	52,611	4.6	-	197	52,414
Filipino	119,256	10.5	1,192	5,116	112,948
Hawaiian	9,118	0.8	-	-	9,118
Korean	16,050	1.4	-	664	15,386
Black	19,997	1.8	6,807	8,264	4,926
Puerto Rican	4,823	0.4	581	1,203	3,039
Samoan	5,539	0.5	201	1,279	4,059
Mixed	421,461	37.0	7,208	25,153	389,100
Part Hawaiian	211,630	18.6	602	2,536	208,492
Non-Hawaiian 3/	209,831	18.4	6,606	22,617	180,608

1/ 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 of race of mother.

2/ Armed forces and military dependents were greatly overrepresented in the 1992 survey. Actual totals for these groups were 32,317 military personnel and 56,994 dependents.

3/ Includes miscellaneous races and not reported (5,341 in 1989).

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

Table 1.28-- ETHNIC STOCK BY COUNTIES: 1992

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 13,943 persons]

Ethnic stock 1/	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,138,870	844,729	130,195	54,092	109,854
Unmixed	717,409	549,402	74,224	30,793	62,990
Caucasian	265,211	189,859	34,379	11,183	29,790
Japanese	224,801	178,123	22,930	8,534	15,214
Chinese	52,612	50,229	1,248	502	633
Filipino	119,256	82,786	12,773	9,014	14,683
Hawaiian	9,118	5,420	1,476	729	1,493
Korean	16,051	14,834	409	335	473
Black	19,998	19,415	363	91	129
Puerto Rican	4,823	3,347	646	377	453
Samoan	5,539	5,389	-	28	122
Mixed	421,461	295,327	55,971	23,299	46,864
Part Hawaiian	211,629	139,363	35,066	12,697	24,503
Non-Hawaiian 2/	209,832	155,964	20,905	10,602	22,361

1/ 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 of race of mother.

2/ Includes miscellaneous races and not reported (5,341 in 1989).

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

Table 1.29-- 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 1.30-- 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 1.31-- 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 1.32-- 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 1.33-- 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 Hawaii State Data Center.

Table 1.34-- 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 1.35-- 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 1.36-- 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	356,267	263,456	1,070,597	915,783	37,632	3.01	3.48

NA Not available.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1950, General Characteristics, Hawaii*, P-B52 (1952), table 15; *U.S. Census of Population: 1960, General Population Characteristics, Hawaii*, PC (1)-13B, table 19; *1970 Census of Population, General Population Characteristics*, 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.

**Table 1.37-- HOUSING UNITS, HOUSEHOLDS, AND PERSONS PER
HOUSEHOLD: 1990 AND 1995**

Subject	April 1, 1990	July 1, 1995	Percent change
Total housing units 1/	390	425	9.1
Households by age of householder, total 1/	356	385	8.2
15 to 24 years	17	16	-7.8
25 to 34 years	73	64	-11.9
35 to 44 years	87	95	8.9
45 to 54 years	58	77	33.1
55 to 64 years	50	49	-2.7
65 years and over	71	85	19.0
Persons per household 2/	3.01	2.98	-1.0

1/ Numbers in thousands.

2/ The U.S. average in 1995 was 2.64. Hawaii ranked second among the 50 States.

Source: U.S. Bureau of the Census, Release CB96-166 (Oct. 8, 1996).

**Table 1.38-- 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	1980	1990	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

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 1.39-- 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 1.40-- 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 1.41--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 1.42-- CHURCHES AND CHURCH MEMBERSHIP AND ADHERENTS: 1990

[Data limited to 133 Judaeo-Christian church bodies or groupings surveyed nationally, of which 43 were reported in Hawaii. See source for greater denominational detail]

County or denomination	Number of churches	Member-ship 1/	Adherents (estimated)		
			Number	Percent of population	Percent of adherents
State total	758	87,579	390,827	35.3	100.0
By counties:					
Hawaii	156	10,760	48,900	40.6	12.5
Maui	107	6,677	36,279	36.1	9.3
Kalawao	2	25	90	69.2	0.0
Honolulu	434	65,839	288,507	34.5	73.8
Kauai	59	4,278	17,051	33.3	4.4
By denomination: 2/					
Assembly of God	69	8,475	13,005	1.2	3.3
Roman Catholic	102	(X)	232,780	21.0	59.6
Latter-Day Saints	109	(X)	38,303	3.5	9.8
Episcopal	40	6,990	10,396	0.9	2.7
Southern Baptist Convention	56	16,245	20,331	1.8	5.2
United Church of Christ	110	18,202	22,852	2.1	5.8
United Methodist	31	6,677	8,348	0.8	2.1
Jewish	6	(X)	(3/)	(NA)	(NA)
All others 4/	235	30,990	44,812	4.0	11.5

X Not applicable.

NA Not available.

1/ Communicant, confirmed full members.

2/ Shown separately for bodies with 6,500 or more adherents.

3/ Reported as 0 in source, which is obviously in error. The American Jewish Committee estimated a 1992 Jewish population of 7,000 in Hawaii; see *Statistical Abstract of the United States: 1994*, p. 72.

4/ 35 denominations, each with fewer than 6,500 adherents.

Source: Martin B. Bradley et al., *Churches and Church Membership in the United States 1990* (Atlanta, 1992), pp. 17 and 109-110.

Table 1.43-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1980 TO 1990 AND 1990 TO 1994

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 1994 4/						
Net change	70,336	-2,488	-5,597	78,421	18,452	100.0
Natural increase	55,196	-422	15,432	40,186	9,456	51.2
Live births	84,561	-	15,793	68,768	16,181	...
Deaths	29,365	422	361	28,582	6,725	...
Net mil. separations 2/	} 15,140	-2,066	-21,029	38,235	8,996	48.8
Net migration 3/						

NA Not available.

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, 1994.

Source: Estimated by DBEDT 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 1.44-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY COUNTIES: 1990 TO 1996

[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, 1996 (estimate)	1,183,723	871,766	138,422	56,435	117,100
Net change	75,494	35,535	18,105	5,258	16,596
Resident births	121,043	90,706	13,221	5,770	11,346
Resident deaths	43,620	31,320	5,919	2,308	4,073
Foreign migrants (net) 2/	37,501	30,091	2,250	1,387	3,773
Federal citizen movement 3/	16,516	16,377	43	77	19
Domestic migrants (net) 4/	-55,900	-70,279	8,548	317	5,514
Residual change 5/	-46	-40	-38	15	17

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, printout.

Table 1.45-- 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 Bureau, special tabulations of Basic Data Survey.

**Table 1.46--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 1.47-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH:
1991 TO 1995**

[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, therefore, they are not new residents]

Country of birth	1991	1992	1993	1994	1995
All countries	7,766	7,885	8,504	7,746	7,537
Canada	159	180	220	155	167
China and Taiwan	669	644	877	824	1/ 567
Japan	370	669	454	510	485
Korea	495	418	390	329	408
Philippines	4,328	3,995	4,670	4,329	4,308
Vietnam	498	692	481	353	332
Other countries	1,247	1,287	1,412	1,246	2/ 1,270

1/ People's Republic of China, 480; Taiwan, 87.

2/ Includes Hong Kong (184), Western Samoa (101), United Kingdom (66), New Zealand (45), Tonga (113), and all other countries (761).

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

Table 1.48-- PERSONS NATURALIZED, BY COUNTRY OF FORMER ALLEGIANCE: 1990 TO 1995

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	Vietnam	Other countries
1990	5,802	474	635	2,683	114	341	835
1991	3,955	386	285	2,345	127	230	582
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	1/ 433	459	2,865	190	304	2/ 931

1/ People's Republic of China, 370; Taiwan, 63.

2/ Japan, 660; Canada, 66; Western Samoa, 66; American Samoa, 57; others, 622.

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

**Table 1.49-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS:
1991 AND 1992**

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 16,492 persons 1 year old and over in 1991 and 13,943 persons 1 year old and over in 1992]

Place of residence one year earlier	All groups	Armed forces 1/	Military dependents 1/	Other civilians
1991				
Population 1 and over	1,100,271	47,963	87,661	964,647
Same house	917,366	26,482	53,203	837,681
Different house, same island	102,526	7,756	10,604	84,166
Different island	5,569	82	298	5,189
Different state	54,864	11,196	20,382	23,286
U.S. territory or possession	717	18	18	681
Different country	11,204	1,761	2,575	6,868
Previous residence not reported	8,025	668	581	6,776
Migrants 2/	66,785	12,975	22,975	30,835
Percent of number reporting	6.1	27.4	26.4	3.2
1992				
Population 1 and over	1,120,026	47,064	81,249	991,713
Same house	943,893	28,115	52,059	863,719
Different house, same island	97,017	6,393	4,658	85,966
Different island	6,151	-	-	6,151
Different state	52,283	8,987	19,475	23,821
U.S. territory or possession	2,353	548	1,223	582
Different country	12,876	2,802	3,281	6,793
Previous residence not reported	5,453	219	553	4,681
Migrants 2/	67,512	12,337	23,979	31,196
Percent of number reporting	6.1	26.3	29.7	3.2

1/ Armed forces and military dependents were greatly overrepresented in the 1991 and 1992 surveys. Actual totals for these groups in 1992 were 32,317 military personnel and 56,994 dependents.

2/ From different state, territory, or country.

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

**Table 1.50-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS:
1991 AND 1992**

[Based on response to question, "How likely is it that this person will be living some place other than Hawaii one year from today?" asked of samples of 16,492 persons in 1991 and 13,943 persons in 1992. Excludes persons living in institutions or barracks, in Kalawao, or on Niihau]

Likelihood of out-migration	All groups	Armed forces 1/	Military dependents 1/	Other civilians
1991				
Total	1,115,906	47,962	91,703	976,241
Almost certain to be living in Hawaii	1,019,404	34,585	63,478	921,341
Some possibility of living elsewhere	35,372	2,473	5,591	27,308
A good chance of living elsewhere	10,051	1,426	2,451	6,174
Almost certain to be living elsewhere	43,145	8,967	20,183	13,995
Not reported	7,934	511	-	7,423
1992				
Total	1,138,869	47,064	85,351	1,006,454
Almost certain to be living in Hawaii	1,043,366	31,574	56,466	955,326
Some possibility of living elsewhere	33,802	2,676	3,258	27,868
A good chance of living elsewhere	9,776	1,570	2,784	5,422
Almost certain to be living elsewhere	47,900	11,025	22,290	14,585
Not reported	4,025	219	553	3,253

1/ Armed forces and military dependents were greatly overrepresented in the 1991 and 1992 surveys. Actual totals for these groups in 1992 were 32,317 military personnel and 56,994 dependents.

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

**Table 1.51-- 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.

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 annual statistical report of 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: 1996* contain data for the nation as a whole.

Table 2.01-- BIRTHS AND DEATHS: 1970 TO 1995

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/
1970	16,361	3,971	21.2	5.1	95.8	20.6	19.1
1971	15,780	4,130	19.7	5.2	88.4	23.5	16.0
1972	15,364	4,245	18.5	5.1	93.0	22.8	17.5
1973	15,328	4,356	18.0	5.1	104.0	16.4	13.7
1974	15,472	4,286	17.8	4.9	108.8	16.3	16.0
1975	15,689	4,272	17.7	4.8	123.2	18.9	13.7
1976	16,292	4,349	18.0	4.8	125.0	20.8	11.2
1977	16,874	4,349	18.4	4.7	143.3	21.6	12.3
1978	16,717	4,508	17.9	4.8	160.1	13.5	12.0
1979	17,513	4,791	18.4	5.0	163.5	13.1	10.9
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	17.3	6.0	264.5	11.1	6.5
1993	19,567	7,226	16.9	6.2	273.0	11.7	7.6
1994	19,438	7,206	16.6	6.1	283.8	12.0	6.8
1995	18,552	7,482	15.7	6.3	291.8	12.1	5.9

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 in present report.

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.

Table 2.02-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1992 TO 1995

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1992	19,949	-	19,949	3,875	16,074	3,875
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
Deaths:						
1992	7,177	160	7,017	80	6,937	240
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
Birth rates: 2/						
1992	15.8	0	16.5	68.0	14.0	34.6
1993	15.6	0	16.3	57.3	14.1	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
Death rates: 2/						
1992	5.7	2.9	5.8	1.4	6.0	2.1
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

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 DBEDT.

Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1990 TO 1995

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate 1/			
1990	26,834	24.1	20,438	1,689	4,707
1991 2/	27,289	24.1	19,880	1,717	5,692
1992	27,297	23.7	19,837	1,518	5,942
1993 3/	26,765	23.0	19,567	1,392	5,806
1994	26,457	22.4	19,438	1,265	5,754
1995	25,139	21.2	18,552	1,086	5,501

1/ Per 1,000 resident population, July 1.

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

3/ 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.

Table 2.04-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1991 TO 1995

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State 1/
Births:						
1992	19,949	19,837	111	1	19,863	26
1993	19,650	19,567	82	1	19,595	28
1994	19,515	19,438	75	2	19,474	36
1995	18,636	18,552	81	3	18,578	26
Deaths:						
1992	7,177	6,846	323	8	7,072	226
1993	7,570	7,226	341	3	7,426	200
1994	7,530	7,206	309	15	7,441	235
1995	7,795	7,482	309	4	7,718	236

1/ Death figures include persons born in Hawaii who became residents of other states.

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

Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1993 TO 1995

[Excludes births to Hawaii residents occurring out of state]

Subject	1993	1994	1995
Number of resident births	19,567	19,438	18,552
City and County of Honolulu	14,599	14,733	13,791
Percent on Oahu	74.6	75.8	74.3
Hawaii County	2,118	2,068	2,028
Kauai County	961	896	842
Maui County (incl. Kalawao)	1,889	1,741	1,891
Percent attended by M.D. or O.D. in hospital	95.3	95.3	94.8
Males per 100 females	104.8	104.3	104.0
Median weight of single births (grams)	3,317	3,317	3,315
Percent low birth weight (under 2,500 grams)	6.9	6.5	6.6
Percent single births under 40 weeks gestation	55.1	51.0	54.0
Percent plural	2.2	1.9	1.9
Percent with 1 or more congenital malformations	1.6	3.5	4.0
Percent to unmarried mothers	27.3	28.4	29.3
Percent with prenatal visit in first three months	67.6	81.8	81.2
Percent first child born to mother 1/	30.9	30.5	29.4
Percent first child born alive to mother	42.7	43.8	42.9
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, BY MILITARY STATUS OF PARENTS: 1994 AND 1995

Military status of parents	Total births	Unmixed	Mixed 1/	Not reported 2/	Percent mixed 3/
1994					
Total	19,439	8,422	8,845	2,172	51.2
Military	3,576	2,651	839	86	24.0
Civilian	15,862	5,771	8,006	2,085	58.1
Status not reported	1	-	-	1	-
1995					
Total	18,552	8,016	8,552	1,984	51.6
Military	3,145	2,364	709	72	23.1
Civilian	15,407	5,652	7,843	1,912	58.1
Status not reported	-	-	-	-	-

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, records.

**Table 2.08-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES,
BY SEX: 1994 AND 1995**

[A total of 7,360 first names, including variant spellings, was reported for the 19,515 babies born in Hawaii in 1994. A total of 7,280 first names, including variant spellings, was reported for the 18,636 babies born in Hawaii in 1995]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1994				
1	Joshua	153	Ashley	107
2	Tyler	144	Jessica	86
3	Michael	140	Nicole (tie)	79
4	Brandon	120	Taylor (tie)	79
5	Jacob (tie)	117	Jasmine	76
6	Justin (tie)	117	Rachel	71
7	Ryan	107	Lauren	66
8	Daniel	102	Alyssa	65
9	Christopher	101	Sarah	63
10	Nicholas	99	Samantha	62
1995				
1	Joshua	144	Jessica	102
2	Michael	138	Taylor	98
3	Tyler	114	Ashley	83
4	Brandon	113	Rachel	81
5	Matthew	112	Kayla	76
6	Justin	107	Nicole	67
7	Christopher	96	Courtney	58
8	Jacob (tie)	95	Sarah	52
9	Nicholas (tie)	95	Lauren	50
10	Ryan	89	Samantha	49

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

**Table 2.09-- MOST COMMON SURNAMES ON BIRTH AND DEATH
CERTIFICATES: 1994 AND 1995**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1994				
1	Lee	97	Wong	40
2	Smith	80	Lee	39
3	Johnson	62	Ching	33
4	Kim	61	Yamamoto	31
5	Brown	60	Kim (tie)	28
6	Young	58	Young (tie)	28
7	Wong	55	Chun	27
8	Nguyen	45	Chang	26
9	Jones (tie)	44	Higa	25
10	Williams (tie)	44	Fujimoto	22
1995				
1	Lee	81	Lee	56
2	Kim	65	Wong	43
3	Smith	64	Chang	36
4	Brown	56	Kim (tie)	28
5	Johnson	54	Young (tie)	28
6	Wong	53	Chun (tie)	24
7	Williams	46	Sato (tie)	24
8	Silva	44	Yamamoto (tie)	24
9	Nguyen	43	Lum	23
10	Ramos	40	Nakamura (tie)	22
			Silva (tie)	22
			Tanaka (tie)	22

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

Table 2.10-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1910 TO 1994

[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
1994	75.7	72.3	79.0	(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, "Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1994," *Monthly Vital Statistics Report*, Vol. 43, No. 13, October 23, 1995, p. 17; 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), "Life Tables by Ethnic Group for Hawaii, 1980," *R & S Report*, No. 47 (March 1984), and "Life Expectancy in the State of Hawai'i 1980 and 1990," *R & S Report*, No. 63 (August 1996).

**Table 2.11-- EXPECTATION OF LIFE AT BIRTH FOR BOTH SEXES
COMBINED, BY RACE: 1910 TO 1990**

[In years. Data for 1980 are revised]

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 2.12-- CHARACTERISTICS OF RESIDENT DEATHS: 1993 TO 1995

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1993	1994	1995
Number of resident deaths	7,226	7,206	7,488
City and County of Honolulu	5,202	5,158	5,438
Hawaii County	973	1,021	973
Kauai County	398	400	374
Maui County (incl. Kalawao)	653	627	703
Males per 100 females	144.2	141.5	137.4
Median age (years)	74	74	74
Centenarian deaths: Male	14	5	13
Female	38	30	47
Oldest (years): Male	106	104	108
Female	110	111	106
Percent married	47.1	45.6	44.7
Deaths under 1 year	141	125	106
Per 1,000 live births	7.2	6.4	5.7
Fetal deaths 1/	7,198	7,019	6,587
Per 1,000 deliveries	269	265	262
Fetal deaths, 20 or more weeks gestation 2/	230	234	226
Per 1,000 live births	11.8	12.0	12.1
Standard fetal deaths 3/	1,392	1,265	1,086
Elective abortions	5,806	5,754	5,501
Per 1,000 live births	296.7	296.0	296.5

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, *Statistical Report* (annual), and Office of Health Status Monitoring, records.

Table 2.13-- CAUSE OF DEATH, BY SEX: 1994

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	7,206	4,222	2,984
Tuberculosis	4	3	1
Other infective	250	196	54
Malignant neoplasm	1,713	976	737
Digestive organs	538	325	213
Respiratory system	468	309	159
Breast	116	-	116
Genital organs	196	114	82
Urinary organs	56	33	23
Leukemia	59	35	24
Other	280	160	120
Diabetes mellitus	141	69	72
Heart disease	2,178	1,226	952
Rheumatic	12	3	9
Hypertensive	86	46	40
Ischemic	1,157	689	468
Other heart	923	488	435
Hypertension	31	13	18
Cerebrovascular disease	569	304	265
Arteriosclerosis	18	11	7
Other circulatory	123	68	55
Influenza/pneumonia	289	174	115
Chronic obstructive pulmonary diseases	195	115	80
Peptic ulcer	26	17	9
Cirrhosis of liver	87	66	21
Nephritis and nephrosis	77	39	38
Pregnancy, birth & puerperium	1	-	1
Congenital anomalies	29	13	16
Perinatal conditions	67	44	23
Symptoms, signs & ill-defined conditions	46	20	26
Other diseases	713	390	323
Unintentional Injury	286	225	61
Motor vehicles	124	96	28
Other	162	129	33
Suicide	132	107	25
Homicide & legal intervention	44	32	12
Other external causes	187	114	73

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

Table 2.14-- CAUSE OF DEATH, BY SEX: 1995

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	7,488	4,334	3,154
Tuberculosis	6	5	1
Other infective	250	186	64
Malignant neoplasm	1,839	1,045	794
Digestive organs	596	354	242
Respiratory system	483	305	178
Breast	120	-	120
Genital organs	215	140	75
Urinary organs	56	40	16
Leukemia	60	26	34
Other	309	180	129
Diabetes mellitus	168	92	76
Heart disease	2,286	1,288	998
Rheumatic	21	6	15
Hypertensive	76	42	34
Ischemic	1,161	701	460
Other heart	1,028	539	489
Hypertension	28	12	16
Cerebrovascular disease	606	310	296
Arteriosclerosis	24	9	15
Other circulatory	124	82	42
Influenza/pneumonia	324	174	150
Chronic obstructive pulmonary diseases	240	136	104
Peptic ulcer	10	6	4
Cirrhosis of liver	78	57	21
Nephritis and nephrosis	76	39	37
Pregnancy, birth & puerperium	1	-	1
Congenital anomalies	38	21	17
Perinatal conditions	50	32	18
Symptoms, signs & ill-defined conditions	56	29	27
Other diseases	744	404	340
Unintentional Injury	288	219	69
Motor vehicles	138	108	30
Other	150	111	39
Suicide	140	107	33
Homicide & legal intervention	58	45	13
Other external causes	54	36	18

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

Table 2.15-- CATASTROPHIC MORTALITY: 1987 TO 1996

[Includes all accidents, natural disasters, and other events causing five or more deaths.
Complete through December 10, 1996]

Date	Place	Kind of disaster	Deaths
1987: Dec. 23	At sea W. of Molokai	Airplane disappearance	8
1988: June 9	Near Waimanalo, Oahu	2-car auto crash	5
July 9	Near Kawaihae, Hawaii	2-car auto crash	6
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

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii: An Update," *The Hawaiian Journal of History*, Vol. 23 (1989), pp. 217-227; DBEDT file of newspaper accounts.

**Table 2.16-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1970 TO 1995**

Method	1970	1980	1990	1993	1994	1995
All methods	4,197	5,204	7,055	7,570	7,530	7,795
Burial	2,197	2,343	2,798	2,925	2,768	2,813
Cremation	1,509	2,241	3,564	3,997	4,150	4,386
Removal	470	567	656	604	579	558
Entombment	13	44	35	18	13	11
Medical science	3	-	-	21	16	24
Other	-	1	-	-	-	-
Unknown	5	8	2	5	4	3

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

**Table 2.17-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1993 TO 1996**

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1993: June 30	2,339	1,804	224	102	209
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

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

Table 2.18-- CHRONIC CONDITIONS: 1992

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Malignant neoplasms	12,122	10.6
Benign and unspecified neoplasms	6,332	5.6
Thyroid disease	17,793	15.6
Diabetes	25,448	22.3
Mental and nervous condition	17,953	15.8
Heart disease	35,197	30.9
Hypertension	92,182	80.9
Varicose veins	9,709	8.5
Hemorrhoids	14,008	12.3
Bronchitis/emphysema	22,307	19.6
Asthma	53,863	47.3
Hayfever	63,853	56.1
Chronic sinusitis	57,805	50.8
Peptic ulcer	9,137	8.0
Gallbladder	10,256	9.0
Kidney disease	8,887	7.8
Skin condition	44,558	39.1
Arthritis	47,125	41.4
Visual impairment	13,384	11.8
Hearing impairment	50,882	44.7
Impairment of back or spine	72,017	63.2
Gout	14,301	12.6

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

Table 2.19-- ACUTE CONDITIONS: 1992

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	2,722,388	239.0
Infective parasitic diseases	121,871	10.7
Respiratory condition	2,021,680	177.5
Digestive system condition	57,001	5.0
Injuries	119,960	10.5
All other acute conditions	401,876	35.3

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

**Table 2.20-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE
CONDITIONS: 1992**

Type of limitation	Number
Persons with one or more chronic conditions	509,997
No limitation of activity	372,361
Limited, but not in major activity	65,081
Limited in amount or kind of activity	34,698
Unable to carry on major activity	21,245
Not reported	16,612
Restricted activity days in past month 1/	1,946,798
Per person 2/	1.8

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

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

Table 2.21-- SPECIFIED COMMUNICABLE DISEASES: 1991 TO 1995

Disease	1991 1/	1992 1/	1993 1/	1994	1995
Cases:					
AIDS	194	131	373	238	222
Campylobacteriosis	202	357	403	601	699
Fish poisoning 2/	192	59	95	119	129
Gonorrhea	885	686	864	699	565
Hansen's Disease 3/	19	20	17	21	19
Hepatitis A	69	169	69	59	166
Influenza	1,469	135	2,531	1,233	255
Leptospirosis 4/	46	31	24	22	23
Malaria 5/	6	11	7	15	12
Measles (Rubeola)	21	46	20	17	3
Meningitis, all types	78	132	170	152	132
Mumps	31	28	30	19	14
Pneumococcal disease	13	41	73	77	110
Rubella	11	24	28	4	5
Salmonellosis	380	319	337	304	303
Shigella	73	120	98	202	102
Syphilis	10	10	7	4	-
Tuberculosis	201	273	251	247	193
Deaths:					
AIDS	120	118	129	145	130
Campylobacteriosis	-	-	-	-	-
Fish poisoning 2/	-	-	-	-	-
Gonorrhea	-	-	-	-	-
Hansen's Disease 3/	-	-	-	1	-
Hepatitis A	-	1	-	-	-
Influenza	-	1	1	-	1
Leptospirosis 4/	1	-	-	-	-
Malaria 5/	-	-	-	-	-
Measles (Rubeola)	-	-	-	-	-
Meningitis, all types	6	2	1	1	2
Mumps	-	-	-	-	-
Pneumococcal disease	2	1	-	1	2
Rubella	-	-	-	-	-
Salmonellosis	-	-	-	-	1
Shigella	-	-	-	-	-
Syphilis	-	-	-	-	-
Tuberculosis	11	5	5	4	6

Footnotes and source on next page.

Table 2.21-- SPECIFIED COMMUNICABLE DISEASES: 1991 TO 1995 -- Con.

- 1/ Revised figures as of May 30, 1996.
- 2/ Scombroid, ciguatera and hallucinogenic fish poisoning.
- 3/ Excludes reinstated cases.
- 4/ Includes previously unreported cases.
- 5/ Acquired outside the State.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Epidemiology Branch, and AIDS Surveillance Program, records.

Table 2.22-- HEALTH RISK BEHAVIORS FOR PERSONS 18 YEARS AND OLDER, BY PLACE OF RESIDENCE: 1992

[Percent of increased risk for morbidity and mortality]

Risk factor	State	Oahu	Neighbor islands
Seatbelt nonuse	4.2	4.1	4.5
Overweight (20 percent or more)	24.9	24.6	26.3
Hypertension	14.8	14.9	14.6
Sedentary lifestyle	55.5	54.3	59.9
Cigarette smoking	20.1	18.2	27.1
Chronic drinking 1/	5.8	5.4	7.5
Acute drinking 2/	19.1	17.8	24.0
Drinking and driving	3.1	2.9	3.6

1/ Sixty or more drinks during past month.

2/ Five or more drinks on an occasion, one or more times a month.

Source: Hawaii State Department of Health, *Hawaii's Health Risk Behaviors 1992* (January 1995), p.8.

**Table 2.23-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS
AND CARE HOMES, BY TYPE OF FACILITY: 1988 TO 1993**

[Institutions approved through the Certificate of Need Process. Tripler Army Medical Center included through 1992 but excluded thereafter]

Category and year	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
Number of facilities:						
1988	51	22	36	9	531	16
1989	52	22	38	8	515	16
1990	57	24	40	11	501	15
1991	59	24	41	13	494	14
1992	59	24	41	13	490	14
1993	57	23	41	13	486	13
Number of beds:						
1988	6,671	2,855	2,995	821	2,235	490
1989	6,854	2,855	3,191	808	2,184	481
1990	7,401	3,175	3,416	810	2,162	449
1991	7,433	3,169	3,475	789	2,159	450
1992	7,410	3,174	3,497	739	2,175	436
1993	6,890	2,649	3,502	739	2,164	413

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

2/ Five beds or fewer.

3/ Six beds or more.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities, by County* (annual) and records, and Hospital and Medical Facilities Branch, records.

Table 2.24-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1988 TO 1993

[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:				
1988 1/	117,548	2,074	6.4	73.3
1989	91,686	1,722	6.7	73.3
1990	93,511	1,755	6.8	69.4
1991	96,961	1,814	6.8	70.0
1992	98,973	1,837	6.8	71.1
1993	100,290	1,848	6.7	71.1
Long-term care:				
1988 1/	2,746	2,907	376	91.7
1989	2,653	2,993	409	93.5
1990	3,137	3,165	368	93.1
1991	3,181	3,216	369	93.4
1992	3,255	3,343	375	96.2
1993	3,346	3,339	364	95.1

1/ Excludes statistics for Lanai.

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

Table 2.25-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1993

[Facilities recognized by the Hawaii State Health Planning and Development Agency. Excludes Tripler Army Medical Center, which had a bed capacity of 535]

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	57	23	41	13	486	13
Oahu	38	11	25	10	394	10
Hawaii	7	4	7	-	49	-
Kauai	6	3	5	1	20	2
Maui	3	3	2	1	15	-
Molokai	2	1	1	1	8	1
Lanai	1	1	1	-	-	-
NUMBER OF BEDS						
State total	6,890	2,649	3,502	739	2,164	413
Oahu	5,191	2,118	2,359	714	1,803	354
Hawaii	746	252	494	-	193	-
Kauai	397	114	276	7	72	45
Maui	498	151	343	4	62	-
Molokai	44	8	22	14	34	14
Lanai	14	6	8	-	-	-

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

2/ Five beds or fewer.

3/ More than five beds.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County, 1993* (revised edition, January 1995), and Hospital and Medical Facilities Branch, records.

Table 2.26-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1993

[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	100,290	1,848	6.7	71.1
Oahu	75,292	1,491	7.2	71.9
Hawaii	11,422	148	4.7	59.0
Kauai	4,827	65	4.9	56.9
Maui	8,602	142	6.0	96.8
Molokai	137	1	2.2	10.3
Lanai	10	1	1.7	0.8
LONG-TERM CARE				
State total	3,346	3,339	364	95.1
Oahu	2,400	2,212	336	93.9
Hawaii	385	519	492	100.5
Kauai	352	251	260	94.6
Maui	136	334	897	97.4
Molokai	64	16	91	72.5
Lanai	9	7	271	83.5

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County, 1993* (revised edition, January 1995).

**Table 2.27-- SELECTED HEALTH STATISTICS FOR THE UNITED STATES
AND HAWAII: 1991-1993**

Subject	United States	Hawaii	
		Number	Rank 1/
Health Maintenance Organizations, 1993:			
Number	546	5	32
Enrollment (1,000)	46,722	252.7	32
Percent of population	18.5	21.0	12
Preferred provider plans (managed care):			
Number, October 1993	895	3	43
Enrollment, December 1992 (1,000)	50,478	404.4	(NC)
Community hospitals, 1992:			
Occupancy rate (percent)	65.6	82.6	2
Average length of stay (days)	7.1	8.9	6
Cost per patient day (dollars)	820	761	28
Cost per patient stay (dollars)	5,794	6,876	4
Hospital visits per 1,000 population, 1991:			
Admissions	(NC)	107	49
Emergency room visits	(NC)	294	46
Outpatient visits	(NC)	1,190	43
Surgical operations in hospitals, 1992 (1,000)	23,959	71.7	45

NC Not calculated.

1/ Among 50 States.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data 1994* (1995), pp. 44, 48, 98, 99, 128.

**Table 2.28-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1986 TO 1994**

Facilities and year	Persons active, Dec. 31	Admissions	Discharges	Persons served
Hawaii State Hospital:				
1986	238	607	593	831
1987	214	675	699	913
1988	237	712	689	926
1989	220	777	794	1,014
1990	193	738	765	958
1991	159	311	345	504
1992	198	394	355	553
1993	195	446	449	644
1994	199	275	271	470
State-supported outpatient community mental health centers:				
1986	2,389	1,759	2,194	4,583
1987	2,563	2,158	1,984	4,547
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

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

**Table 2.29-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1991 TO 1995**

[Includes children's unit at Leahi Hospital assigned to the Hawaii State Hospital]

Year	Number of beds, June 30	Admissions 1/		Patients in hospital 2/	
		Total	First	Average 1/	June 30
1991	215	354	293	195	165
1992	202	398	324	182	197
1993	202	447	344	182	195
1994	202	273	216	181	199
1995	202	151	112	186	171

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

Table 2.30-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1992 TO 1995

[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	
1992	172	1	114	112	-
1993	172	4	101	82	-
1994	172	-	82	80	-
1995	172	3	77	75	3

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

Table 2.31-- HANSEN'S DISEASE PATIENTS REGISTERED: 1991 TO 1995

Subject	1991	1992	1993	1994	1995
Patients on register, Dec. 31	487	479	460	419	390
At home	397	393	378	342	320
Kalaupapa	86	83	79	74	68
Hale Mohalu at Leahi	4	3	3	3	2
New cases	19	19	17	21	19
Deaths	3	8	10	11	15

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

**Table 2.32-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS
LICENSED IN HAWAII, BY PLACE OF ADDRESS: AUGUST 11, 1994**

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	5,243	1,316	12,368	1,191
Hawaii addresses	2,844	1,012	9,640	694
Hawaii	221	94	884	72
Maui	194	58	986	57
Lanai	1	2	16	-
Molokai	7	4	38	2
Oahu	2,326	815	7,329	532
Kauai	95	39	387	31
Niihau	-	-	-	-
Mainland U.S.	2,307	296	2,507	489
Foreign	92	8	221	8

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-- MARRIAGES AND DIVORCES: 1970 TO 1995

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 3/	Inter-racial 4/
1970	10,599	7,889	2,589	10.2	3.4	25.6	40.7
1971	9,734	8,104	3,691	10.1	4.6	16.7	42.7
1972	9,750	8,482	3,891	10.2	4.7	13.0	41.7
1973	9,776	8,656	4,170	10.2	4.9	11.5	43.7
1974	9,649	8,500	4,111	9.8	4.7	11.9	43.2
1975	9,673	8,440	4,265	9.5	4.8	12.7	43.1
1976	9,769	8,318	4,712	9.2	5.2	14.9	43.2
1977	10,266	8,427	4,601	9.2	5.0	17.9	43.3
1978	10,736	8,650	4,837	9.3	5.2	19.4	44.5
1979	11,678	9,424	5,055	9.9	5.3	19.3	44.6
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	4.6	50.3	45.0

1/ One or both partners residents of Hawaii.

2/ Final decrees only. An interlocutory decree of six months was abolished July 1, 1971.

3/ Both partners nonresidents of Hawaii.

4/ 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.

**Table 2.34-- 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 2.35-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1992 TO 1995**

[Place of occurrence basis]

Subject	1992	1993	1994	1995
MARRIAGES				
Number	17,725	17,252	18,118	18,669
Percent on Oahu	58.0	57.7	53.0	51.1
Percent Hawaii residents:				
Both bride and groom	52.7	52.6	47.8	46.6
One partner only	4.0	3.9	3.6	3.1
Neither bride nor groom	43.3	43.5	48.6	50.3
Median age (years):				
Groom	31	31	31	32
Bride	29	29	29	29
Percent previously married:				
Groom	38.1	36.8	37.6	38.4
Bride	38.5	37.4	38.5	38.7
DIVORCES AND ANNULMENTS				
Number	5,040	4,888	4,993	5,505
Divorces	5,024	4,878	4,981	5,494
Annulments	14	10	11	9
Not reported	2	-	1	2
Percent occurring on Oahu	74.2	72.2	73.4	76.1
Percent Hawaii residents:				
Both partners	76.4	75.5	75.3	75.5
One partner only	23.4	24.3	23.1	23.0
Neither partner	0.2	0.2	0.1	<0.1
Median age (years):				
Husband	35	36	36	36
Wife	33	34	34	34
Percent interracial 1/	39.9	41.8	41.6	41.9
Percent with children under 18 years	52.1	51.8	49.3	50.1
Median years married	6.3	6.4	6.4	6.4

1/ 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 2.36-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1994 AND 1995

Race mixture and type of ceremony	Total		At least one partner Hawaii resident		Both partners nonresidents	
	1994	1995	1994	1995	1994	1995
All marriages	18,118	18,669	9,317	9,277	8,801	9,392
Race of partners:						
Both partners same race 1/	12,738	13,197	5,009	4,960	7,729	8,237
Different	5,380	5,472	4,308	4,317	1,072	1,155
Percent different	29.7	29.3	46.2	46.5	12.2	12.3
Type of ceremony:						
Civil ceremony	4,060	3,847	3,363	3,168	697	679
Religious ceremony	14,057	14,820	5,954	6,108	8,103	8,712
Unknown	1	2	-	1	1	1

1/ Includes marriages with both partners of unknown race.

Source: Hawaii State Department of Health, special tabulations.

Table 2.37-- MARITAL DISSOLUTION: 1980 TO 1993

Subject	1980	1990	1993	Percent		
				1980	1990	1993
Married couples	185,698	210,468	224,000	100.0	100.0	100.0
Marriages ended	6,782	8,292	8,281	3.7	3.9	3.7
By divorce	4,438	5,172	4,878	2.4	2.5	2.2
By death	2,344	3,120	3,403	1.3	1.5	1.5
Husbands	1,678	2,234	2,474	0.9	1.1	1.1
Wives	666	886	929	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; 1993 DBEDT estimate of married couples, based on 1990-93 percent increase in households.

Table 2.38-- HEALTH CARE EXPENDITURES: 1980 AND 1991

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

Type	1980 (million dollars)	1991 (million dollars)	Average annual percent change, 1980-91
Total	655	2,144	11.4
Hospital care	360	1,287	12.3
Physician services	251	719	10.0
Prescription drugs (retail purchases)	44	137	10.9

Source: U.S. Health Care Financing Administration and Office of National Health Statistics, cited in *Statistical Abstract of the United States: 1994*, p. 111.

Table 2.39-- 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.

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: 1996* 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 1993

[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	162,826	80.2	0.3	21.9	0.3
Hawaii	773	86.6	1.9	25.1	2.4
Rank 2/	40	8	...	9	...

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 1993 and 1992," *Current Population Reports, Population Characteristics*, Series P-20-476, May 1994, pp. 1 and 83.

**Table 3.06-- PRIVATE EDUCATIONAL SERVICES (SIC 82),
BY TYPE OF SERVICE: 1994**

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	283	69	9,517	219,218
821	Elementary and secondary schools	105	51	5,398	147,414
822	Colleges and universities	20	6	2,999	55,864
823	Libraries	3	1	33	739
824	Vocational schools	22	2	185	3,709
829	Schools and educ. services, n.e.c.	127	9	902	11,492

Source: U.S. Bureau of the Census, *County Business Patterns 1994, Hawaii*, CBP-94-13 (September 1996), p. 12.

Table 3.07-- LITERACY IN ENGLISH: NOVEMBER 1988 - JANUARY 1989

[Based on results of a test given to a sample of 814 Hawaii residents 18 years and over]

Characteristic	Estimated population 18 and over	Functional level 1/ (percent)		
		1	2	3
State total	796,001	2/ 19	28	53
County of residence:				
Honolulu	623,524	15	26	59
Hawaii	75,783	37	34	29
Maui	63,240	36	34	30
Kauai	33,454	26	32	42
Age:				
18 to 34 years	326,232	13	26	61
35 to 49 years	228,353	14	27	59
50 to 64 years	119,628	25	30	45
65 years and over	121,788	42	30	28
Sex:				
Male	392,747	19	30	52
Female	403,254	20	26	54
Years of school completed:				
Less than 9 years	54,924	77	21	2
9 to 11 years	81,192	54	35	11
12 years or more	659,885	6	21	73

1/ Level 1 refers to "adults who function with difficulty," that is, those who are "functionally illiterate." Level 2 refers to "functional adults." Level 3 includes adults classified as "competent" or "proficient."

2/ Estimated at 153,664.

Source: Omnitrak Research and Marketing Group, Inc., for the Governor's Office of Children and Youth, Governor's Council on Literacy, *Hawaii Statewide Literacy Assessment (HSLA), November 1988-January 1989*, (1989), tables 1, 1a, 2, and 6.

Table 3.08-- 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 3.09-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 1994, AND HIGH SCHOOL GRADUATES, 1993-1994, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

Island	Number of schools, September 1994			Number of teachers, September 1994		
	Total	Public 1/	Private	Total	Public 1/	Private
State total	374	242	132	14,045	11,602	2,443
Hawaii	49	34	15	(NA)	(NA)	196
Maui	38	22	16	(NA)	(NA)	172
Lanai	1	1	-	(NA)	(NA)	-
Molokai	7	5	2	(NA)	(NA)	5
Oahu	258	166	92	(NA)	(NA)	2,021
Kauai	20	13	7	(NA)	(NA)	49
Niihau	1	1	-	(NA)	(NA)	-
Island	Enrollment, September 1994			High school graduates, 1993-1994 school year		
	Total	Public 1/	Private	Total	Public 1/	Private
State total	219,224	183,795	35,429	12,307	9,870	2,437
Hawaii	30,164	27,788	2,376	1,682	1,501	181
Maui	20,313	17,877	2,436	1,051	911	140
Lanai	599	599	-	33	33	-
Molokai	1,847	1,788	59	104	104	-
Oahu	154,557	124,780	29,777	8,771	6,661	2,110
Kauai	11,719	10,938	781	665	659	6
Niihau	25	25	-	1	1	-

NA Not available.

1/ Data exclude UH Lab School, Honolulu (26 teachers, 348 students, and 49 graduates).

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:
1994 AND 1995**

Grade	September 1994			September 1995		
	Total	Public 1/	Private	Total	Public 1/	Private
All grades	219,224	183,795	35,429	(NA)	187,190	(NA)
Nursery	2,874	631	2,243	(NA)	606	(NA)
Kindergarten	17,891	15,251	2,640	(NA)	16,065	(NA)
1	17,618	15,251	2,367	(NA)	15,492	(NA)
2	16,833	14,634	2,199	(NA)	14,882	(NA)
3	16,234	14,165	2,069	(NA)	14,257	(NA)
4	15,588	13,480	2,108	(NA)	13,754	(NA)
5	15,715	13,615	2,100	(NA)	13,181	(NA)
6	15,597	13,258	2,339	(NA)	13,279	(NA)
7	15,749	12,589	3,160	(NA)	12,675	(NA)
8	15,585	12,538	3,047	(NA)	12,491	(NA)
9	17,181	14,305	2,876	(NA)	14,918	(NA)
10	13,816	11,029	2,787	(NA)	12,232	(NA)
11	13,662	11,112	2,550	(NA)	10,592	(NA)
12	12,172	9,753	2,419	(NA)	9,671	(NA)
Specials 2/	12,709	12,184	525	(NA)	13,095	(NA)

NA Not available.

1/ Data exclude UH Lab School (357 students in 1993, 348 in 1994, not available in 1995).

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

Source: Hawaii State Department of Education, records.

**Table 3.12-- PUBLIC SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 1995**

Grade	State total 1/	Hawaii	Maui	Honolulu 1/	Kauai
All grades	187,190	28,188	21,031	126,686	11,198
Nursery	606	105	39	434	22
Kindergarten	16,065	2,189	1,736	11,262	878
1	15,492	2,143	1,726	10,787	836
2	14,882	2,130	1,602	10,301	849
3	14,257	2,009	1,608	9,857	783
4	13,754	1,985	1,592	9,406	771
5	13,181	1,953	1,555	8,968	704
6	13,279	2,016	1,509	9,042	712
7	12,675	2,040	1,532	8,314	789
8	12,491	2,087	1,454	8,175	775
9	14,918	2,386	1,707	9,953	872
10	12,232	1,904	1,345	8,186	797
11	10,592	1,761	1,163	6,939	729
12	9,671	1,531	1,127	6,285	728
Specials 2/	13,095	1,949	1,336	8,777	953

1/ Data exclude UH Lab School.

2/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records.

**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,
 SEPTEMBER 1993 AND 1994, AND PRIVATE HIGH SCHOOL
 GRADUATES, 1992-1993 AND 1993-1994, BY CHURCH AFFILIATION**

Church affiliation	Schools	Teachers 1/	Enrollment 2/	High school graduates 3/
1993				
Total	129	2,324	35,280	2,301
Church-affiliated	97	1,699	27,051	1,708
Roman Catholic	34	635	11,816	606
Other church-affiliated	63	1,064	15,235	1,102
Non-church-affiliated	32	625	8,229	593
1994				
Total	132	2,443	35,429	2,437
Church-affiliated	92	1,696	25,845	1,770
Roman Catholic	34	656	11,786	623
Other church-affiliated	58	1,040	14,059	1,147
Non-church-affiliated	40	747	9,584	667

1/ Excludes U.H. Lab School (26 teachers in both 1993 and 1994).

2/ Excludes U.H. Lab School (357 students in 1993, 348 in 1994).

3/ Excludes U.H. Lab School (44 graduates in 1992-1993, 49 in 1994).

Source: Hawaii State Department of Education, records.

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:
1995 AND 1996**

[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	
	1995	1996	1995	1996
Mathematical	507	510	506	508
Verbal	483	485	504	505

Source: *Honolulu Star-Bulletin*, Aug. 22, 1996, p. A-1.

**Table 3.17-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC
SCHOOL GRADES 3, 6, 8, AND 10: 1995 AND 1996**

[Percent of students taking test]

Subject and level	Norm	Grade 3		Grade 6		Grade 8		Grade 10	
		1995	1996	1995	1996	1995	1996	1995	1996
Reading:									
Below average	23	35	39	23	30	36	36	29	27
Average	54	54	49	58	53	48	46	50	54
Above average	23	11	13	19	17	16	17	21	18
Math:									
Below average	23	24	26	20	22	32	28	28	22
Average	54	51	49	54	54	48	51	50	59
Above average	23	25	25	26	24	21	21	21	19

Source: *Honolulu Star-Bulletin*, November 15, 1995, p. A-8; *The Honolulu Advertiser*, December 11, 1996, p. A-1.

**Table 3.18-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS:
FALL 1986 TO 1996**

[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				
1986	42,682	18,918	12,762	4,438	1,718	1,594	480	
1987	42,747	18,382	12,254	4,400	1,728	1,711	482	
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	
		Community Colleges 3/						
Year	Total	Honolulu	Kapiolani	Leeward	Windward	Hawaii	Kauai	Maui
1986	21,690	4,270	5,207	5,683	1,635	1,695	1,237	1,963
1987	22,172	4,523	5,372	5,723	1,645	1,830	1,164	1,915
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

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: 1986 TO 1996**

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/
1986	66	2,679	837	132	131	244
1987	65	2,601	794	130	137	249
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
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
1986	-	183	98	534	2,097	32
1987	-	201	139	434	2,042	64
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	242	2,008	23
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	-

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: 1994 TO 1996**

Subject	1994	1995	1996
Curricula offered at Manoa Campus, Fall 1/	271	271	277
Bachelor's degree programs	88	88	88
Master's degree programs	87	87	87
Doctoral programs (DrPH, EdD, PhD)	53	53	53
Other programs 1/	43	43	49
Tuition per semester (full-time undergraduate, regular session) (dollars):			
Manoa Campus: Resident	730	767	1,152
Nonresident	2,230	2,364	3,876
Hilo (upper division): Resident	655	688	888
Nonresident	2,010	2,131	3,204
West Oahu: Resident	435	457	696
Nonresident	1,460	1,548	2,868
Community colleges: Resident	240	252	384
Nonresident	1,460	1,548	2,556
Finances, fiscal year ending June 30:			
Current fund revenues (\$1,000)	638,560	661,137	572,750
Current fund expenditures (\$1,000)	618,762	657,624	639,867
Faculty and staff, October	8,393	7,953	7,772
Board of Regents appointees	6,546	6,248	6,052
Full-time	4,315	4,122	4,078
Part-time	2,231	2,126	1,974
Civil Service personnel	1,847	1,705	1,720
Full-time	1,787	1,653	1,667
Part-time	60	52	53

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

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

Table 3.21-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1993 TO 1996

[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

1/ Brigham Young University, Hawaii Campus (in Laie); Chaminade University of Honolulu; Hawaii Pacific University (in Honolulu). Hawaii Loa College, merged with Hawaii Pacific University in 1992, is included with HPU data for all years.

2/ In regular credit programs.

3/ Year ended June 30.

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 1994

Category	New undergraduate students 1/	Freshmen students 2/	
		Total	In 4-year colleges
Students enrolled in State 3/	10,279	5,944	2,877
Students residents of State 4/	10,314	6,943	3,792
Students remaining in State 5/	8,320	5,188	2,177
Migration of students:			
Out of State	1,994	1,755	1,615
Into State	1,959	756	700
Net migration	-35	-999	-915

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 1996*, pp. 204-206.

**Table 3.23-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES:
1989 TO 1992**

[In thousands of dollars. For fiscal years ended September 30]

Institution	1989	1990	1991	1992
All universities and colleges	84,753	71,165	83,720	86,337
University of Hawaii at Manoa	63,215	54,567	62,744	62,121
Other institutions	21,538	16,598	20,976	24,216

Source: National Science Foundation, *Selected Data on Federal Support to Universities and Colleges: Fiscal Year 1992*, NSF 94-312 (1994), tables 6 and 9, and earlier reports in series.

**Table 3.24-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY
SYSTEM: 1990 TO 1995**

Subject	1990	1991	1992	1993	1994	1995
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/	557.05	581.55	597.05	623.55	614.05	514.05
Librarians	162.50	167.50	173.50	179.00	179.00	159.00
All others	394.55	414.05	423.55	444.55	435.05	355.05
Hours open 2/	54	54	54	58	55	53
Collections, June 30 3/ (1,000)	2,392	2,605	2,769	3,114	3,364	3,644
Circulation, year ended June 30 (1,000)	6,225	6,328	6,700	6,992	7,259	7,499

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

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

3/ Data for 1990 and earlier years limited to books; data for 1991 and later years include all media except ephemeral material.

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

**Table 3.25-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM
BY DISTRICTS: 1995**

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30	
Total system	49	514.05	7,499,485	
Oahu	23	287.50	5,027,093	
Hawaii State Library	1	81.00	811,123	
East Oahu Library District	12	109.00	2,516,496	
West Oahu Library District	9	82.00	1,691,954	
Library for the Blind and Physically Handicapped	1	15.50	7,520	
Other islands	26	127.55	2,472,392	
Hawaii Library District	13	58.55	1,228,762	
Kauai Library District	5	28.00	520,024	
Maui Library District 2/	8	41.00	723,606	
Administration/Centralized Processing Center	...	99.00	...	
	Collections, June 30			
District	Books	Periodical subscriptions	Video tapes	Sound recordings 3/
Total system	3,502,155	5,602	33,135	102,705
Oahu	2,221,973	3,620	22,946	69,470
Hawaii State Library	513,862	2,100	3,468	18,752
East Oahu Library District	978,101	882	13,047	32,632
West Oahu Library District	730,010	638	6,431	18,086
Other islands	1,153,964	1,820	8,706	29,885
Hawaii Library District	514,167	687	3,440	10,092
Kauai Library District	266,666	344	3,110	10,907
Maui Library District 2/	373,131	789	2,156	8,886
Library for the Blind and Physically Handicapped 4/	126,218	162	1,483	5/ 3,350

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.

5/ Includes music recordings and cassettes only.

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

Table 3.26-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1994 AND 1995

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1994	1995	1994	1995
All campuses	3,356,562	3,440,872	865,792	928,429
University of Hawaii at Manoa 1/	2,786,852	2,854,225	632,489	658,048
University of Hawaii-West Oahu	25,027	25,687	5,943	6,212
University of Hawaii at Hilo 2/	243,267	247,215	85,346	89,437
Community colleges, total 2/	301,416	313,745	142,014	174,732
Honolulu	54,300	57,700	12,177	13,052
Kapiolani	60,611	64,584	32,056	68,063
Leeward	66,143	69,281	27,162	20,727
Windward	35,049	35,473	14,163	16,315
Kauai	43,922	44,184	18,077	22,017
Maui	41,391	42,523	38,379	34,558

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.

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 quarterly and annual reports titled *Crime in Hawaii*. 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: 1996*, Section 5.

Table 4.01-- CRIME VICTIMIZATION, BY TYPE OF OFFENSE, AGE, SEX, AND COUNTY: 1995

[Based on 967 complete responses to a questionnaire mailed to 1,754 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	45.1	42.6	9.6	Robbery	1.3	28.6
				Attempted robbery	1.2	33.3
County:				Assault	1.0	37.5
Honolulu	46.7	44.7	9.2	Threatened assault	5.2	26.7
Hawaii	37.2	34.7	10.7	Rape	0.4	0.0
Maui	42.9	41.8	7.7	Other sexual assault	0.3	0.0
Kauai	41.9	33.9	11.3	Vehicle theft	6.9	88.7
				Theft from vehicle	22.7	47.4
Sex:				Attempted theft from vehicle	11.5	27.9
Male	43.5	42.4	10.2	Burglary	7.6	55.0
Female	46.7	42.9	9.3	Attempted burglary	8.0	65.0
Age (years):						
16 to 18	55.2	55.2	31.0			
19 to 24	63.3	57.1	16.3			
25 to 34	63.6	60.6	12.9			
35 to 44	44.2	42.4	8.7			
45 to 54	43.5	38.7	10.5			
55 to 64	42.7	41.7	5.2			
65 to 74	30.0	28.9	2.2			
75 and over	19.4	19.4	0.0			

1/ One or more times in 1995.

Source: Hawaii State Department of the Attorney General, Crime Prevention Division, *Crime and Justice in Hawaii, 1996 Hawaii Household Survey Report* (September 1996).

**Table 4.02-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE
POLICE, BY COUNTIES: 1984 TO 1994**

[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. Revised from *Data Book 1993-94*, table 4.1]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1984	57,340	55.8	44,918	4,737	2,157	5,528
1985	55,355	53.2	42,455	5,147	2,146	5,607
1986	60,652	57.7	46,779	5,370	2,428	6,075
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	60.1	51,294	7,279	2,385	7,158
1992	71,258	61.8	53,826	6,940	2,502	7,990
1993	73,935	63.4	56,681	6,919	2,355	7,980
1994	79,190	67.2	61,158	7,162	2,383	8,487

1/ Annual rate per 1,000 resident population, July 1 (see table 1.03).

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 1984-1987, and the number of forcible rapes reported in Honolulu in 1989 were compiled from reports to the Uniform Crime Reporting (UCR) Program.

Table 4.03-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1985 TO 1994

[Revised from *Data Book 1993-94*, table 4.2]

Offense	1985	1986	1987	1988	1989
All Part I offenses 1/	55,355	60,652	63,530	65,665	69,601
Murder	43	51	52	44	53
Manslaughter (negligent) 1/	-	-	-	2	1
Forcible rape 2/	312	325	396	353	353
Robbery	1,041	1,103	1,043	914	908
Aggravated assault	913	1,082	1,364	1,502	1,427
Burglary	12,159	14,184	12,500	13,665	14,879
Larceny - theft	37,345	39,935	43,669	44,859	47,204
Motor vehicle theft	2,981	3,486	3,986	3,927	4,385
Arson 3/	561	486	520	399	391
Offense	1990	1991	1992	1993	1994
All Part I offenses	67,957	68,116	71,258	73,935	79,190
Murder	44	45	42	45	50
Manslaughter (negligent) 1/	2	1	-	1	3
Forcible rape 2/	352	375	440	394	359
Robbery	1,016	986	1,151	1,214	1,221
Aggravated assault	1,605	1,338	1,365	1,408	1,461
Burglary	13,577	14,011	13,006	13,310	14,029
Larceny - theft	46,699	47,195	50,544	51,912	55,260
Motor vehicle theft	4,224	3,814	4,351	5,283	6,383
Arson 3/	438	351	359	368	424

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/ Because Honolulu's method of reporting arson statistics prior to 1988 differed from the method used by other counties, UCR statistics were used as the source of the 1985-1987 arson statistics for Honolulu. The 1991 arson count for Honolulu was also 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:
1984 TO 1994**

[Revised]

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/
1984	57,340	93,849	10,103	61,294	17.6	65.3
1985	55,355	97,170	10,870	63,187	19.6	65.0
1986	60,652	100,283	11,175	62,556	18.4	62.4
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

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 1983-1988 and 1991. All traffic cases excluded for 1989, 1990, 1992 and 1993.

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: 1993 AND 1994**

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/
1993 total	73,935	115,494	11,274	74,477	15.2	64.5
Honolulu	56,681	82,404	7,580	52,790	13.4	64.1
Hawaii	6,919	10,245	1,920	6,358	27.7	62.1
Kauai	2,355	5,139	485	2,255	20.6	43.9
Maui	7,980	17,706	1,289	13,074	16.2	73.8
1994 total	79,190	118,939	12,183	75,841	15.4	63.8
Honolulu	61,158	82,269	7,991	51,553	13.1	62.7
Hawaii	7,162	11,444	2,116	6,361	29.5	55.6
Kauai	2,383	5,118	530	2,214	22.2	43.3
Maui	8,487	20,108	1,546	15,713	18.2	78.1

1/ Includes arson.

2/ Excludes traffic offenses.

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

**Table 4.06-- MARIJUANA CONFISCATED OR DESTROYED BY
AUTHORITIES, BY COUNTIES: 1994**

Subject	State total	Hawaii	Maui	Honolulu	Kauai
Plants, total	559,753	353,099	96,499	14,463	95,692
By police depts.	238,092	122,044	49,056	14,463	52,529
By DLNR	321,661	231,055	47,443	-	43,163
Value, total 1/ (mil. dol.)	671	423	115	17	114
By police depts.	285	146	58	17	63
By DLNR	386	277	57	-	51

1/ Based on a value of \$2,000 per processed plant, and 60 percent of eradicated plants being suitable for processing.

Source: Hawaii State Department of the Attorney General, Resource Coordination Division, July 20, 1995.

**Table 4.07-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I
OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE
AND OAHU: 1993 AND 1994**

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
1993						
All Part I offenses	73,935	56,681	11,274	7,580	15.2	13.4
Murder	45	31	33	20	73.3	64.5
Manslaughter (neg.)	1	-	1	-	100.0	...
Rape	394	286	172	130	43.7	45.5
Robbery	1,214	1,085	281	227	23.1	20.9
Aggravated assault	1,408	1,099	606	422	43.0	38.4
Burglary	13,310	9,296	1,079	556	8.1	6.0
Larceny	51,912	40,148	8,291	5,666	16.0	14.1
Motor vehicle theft	5,283	4,460	769	535	14.6	12.0
Arson	368	276	42	24	11.4	8.7
1994						
All Part I offenses	79,190	61,158	12,183	7,991	15.4	13.1
Murder	50	35	34	21	68.0	60.0
Manslaughter (neg.)	3	2	2	1	66.7	50.0
Rape	359	266	214	165	59.6	62.0
Robbery	1,221	1,058	291	226	23.8	21.4
Aggravated assault	1,461	1,169	720	548	49.3	46.9
Burglary	14,029	10,018	1,422	641	10.1	6.4
Larceny	55,260	42,552	8,624	5,719	15.6	13.4
Motor vehicle theft	6,383	5,727	826	639	12.9	11.2
Arson	424	331	50	31	11.8	9.4

1/ Includes offenses committed in prior years.

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

Table 4.08-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, 1993 AND 1994, AND BY COUNTIES, 1994

Subject	1993: State total	1994, by counties				
		State total	Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES						
Total	12,661	13,043	9,535	1,824	1,033	651
Juveniles	4,765	4,666	3,159	814	401	292
Male	3,344	3,098	2,107	534	256	201
Female	1,421	1,568	1,052	280	145	91
Adults	7,896	8,377	6,376	1,010	632	359
Male	5,997	6,404	4,894	737	503	270
Female	1,899	1,973	1,482	273	129	89
PART II OFFENSES (EXCEPT TRAFFIC)						
Total	51,173	55,958	41,332	4,978	5,619	4,029
Juveniles	14,484	15,984	11,848	1,630	974	1,532
Male	8,421	9,373	6,914	963	576	920
Female	6,063	6,611	4,934	667	398	612
Adults	36,689	39,974	29,484	3,348	4,645	2,497
Male	30,030	32,879	24,254	2,748	3,904	1,973
Female	6,659	7,095	5,230	600	741	524

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

Table 4.09-- CHILD ABUSE AND NEGLECT REPORTS: 1986 TO 1994

Subject	1986	1987	1988	1989	1990	1991	1992	1993	1994
Reports	4,900	4,741	3,893	4,054	4,407	4,365	4,568	4,753	5,186
Confirmed	2,629	2,555	2,315	2,386	2,392	2,318	2,485	2,394	2,334

Source: Hawaii State Department of Human Services, Central Registry of Reported Child Abuse and Neglect, records.

Table 4.10-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1984 TO 1994

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
1984	12,327.9	9,110.0	73.9	26,576.6	1,861.3	7.0
1985	10,376.8	7,683.9	74.0	24,114.3	2,003.5	8.3
1986	11,491.6	7,857.3	68.4	28,236.2	1,931.2	6.8
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

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.

Table 4.11-- VALUE OF PROPERTY STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, 1993 AND 1994, AND BY COUNTIES, 1994

Subject	1993: State total	1994, by counties				
		State total	Honolulu	Hawaii	Maui	Kauai
Value of property stolen (1,000)	63,128.2	68,372.2	54,727.5	3,846.0	7,736.3	2,062.4
Motor vehicles	10,604.6	12,130.1	9,057.0	613.4	1,957.8	501.9
Other property	52,523.6	56,242.1	45,670.5	3,232.7	5,778.5	1,560.5
Value of stolen property recovered 1/ (\$1,000)	10,661.5	12,638.6	9,335.3	718.6	2,292.2	292.5
Motor vehicles	7,703.6	9,283.5	6,836.6	483.4	1,707.6	256.0
Other property	2,957.9	3,355.1	2,498.7	235.2	584.6	36.5
Percent of value recovered	16.9	18.5	17.1	18.7	29.6	14.2
Motor vehicles	72.6	76.5	75.5	78.8	87.2	51.0
Other property	5.6	6.0	5.5	7.3	10.1	2.3

1/ See previous table, footnote 1.

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

**Table 4.12-- CRIME RATES FOR THE UNITED STATES AND HAWAII:
1993 AND 1994**

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

Type of offense	U.S. rate		Hawaii rate		Hawaii rank 1/	
	1993	1994	1993	1994	1993	1994
All index offenses 2/	5,484.4	5,374.4	6,310.8	6,684.6	7	4
Violent crime	746.8	716.0	262.6	262.3	44	44
Property crime	4,737.6	4,658.3	6,048.3	6,422.2	4	4

1/ Out of 50 States and D. C.

2/ 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 4.13-- AUTHORIZED POLICE PERSONNEL, BY COUNTIES:
DECEMBER 1994**

Year and status	State total	Honolulu	Hawaii	Kauai	Maui
Total	3,440	2,376	467	183	414
Sworn, active	2,569	1,789	327	141	312
Sworn, reserve	133	100	20	13	-
Not sworn	738	487	120	29	102

Source: County police departments, records.

Table 4.14-- STATE AND COUNTY GOVERNMENT EMPLOYMENT AND EXPENDITURES FOR CRIMINAL JUSTICE ACTIVITIES, FOR THE UNITED STATES AND HAWAII: 1992

Geographic area	Full-time equivalent employment, October			Expenditures, fiscal year 2/	
	Total 1/	Per 10,000 population 3/		Total (million dollars)	Per capita 3/ (dollars)
		Police protection	Correction		
U.S.	1,248,277	28.0	20.9	79,502	312
Hawaii	5,462	29.7	17.5	407	352
Rank 4/	38	8	26	34	9

1/ For police protection and correction.

2/ For police protection, correction, judicial, and legal functions.

3/ Based on estimated population, July 1.

4/ Among the 50 states.

Source: Data from U.S. Bureau of the Census, cited in *Statistical Abstract of the United States: 1995*, p. 210.

**Table 4.15-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:
1994 TO 1996**

[As of June 30]

Subject	1994	1995	1996
Federal judges and magistrates: 1/			
U.S. Bankruptcy Court	1	1	1
U.S. District Court	12	11	10
State justices and judges: 2/			
Supreme Court	5	5	5
Intermediate Court of Appeals	4	4	4
Circuit Courts 3/	28	29	29
Assigned to Family Court	1	2	2
District Courts 4/	35	35	35
Assigned to Family Court	13	13	13
Land Court	(5/)	(5/)	(5/)
Tax Appeal Court	(5/)	(5/)	(5/)
Attorneys licensed in Hawaii 6/	5,350	5,514	5,717
Active	3,964	4,026	4,063
Inactive	1,386	1,488	1,634

1/ Full-time and part-time. Excludes visiting judges and magistrates. In addition, one judge of the U.S. Court of Appeals maintains an office in Honolulu.

2/ Authorized full-time positions.

3/ 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.

4/ Includes judges assigned to the Family Courts, a division of the Circuit Courts. There are four District Courts, one in each of the four judicial circuits, convened in 22 locations.

5/ Caseload assigned to Circuit Court judges.

6/ Effective November 1, 1989, the number of licensed attorneys includes both active and inactive members of the Hawaii State Bar. Data for all years include judges. The 1996 data are as of August 29.

Source: Office of the Clerk, U.S. District Court, records; Office of the Administrative Director of the Courts, State Judiciary, records; Hawaii State Bar, records.

**Table 4.16-- UNITED STATES DISTRICT COURT CASES:
1991 TO 1994**

[Data for 1991, 1992 and 1993 are revised]

Subject	1991 1/	1992 2/	1993 2/	1994 2/
Civil cases:				
Commenced (filings)	765	858	952	1,003
Terminated	802	1,465	949	963
Pending, end of period	1,601	988	977	1,017
Criminal cases: 3/				
Commenced (filings)	1,821	1,658	1,978	2,556
Terminated	1,667	1,359	1,669	2,906
Pending, end of period 4/	1,176	741	1,242	892
Bankruptcy:				
Commenced (filings), total	1,014	1,376	1,486	1,566
Business 5/	6/ 75	139	174	171
Nonbusiness	6/ 889	1,237	1,312	1,395
Terminated	1,003	1,506	1,284	1,753
Pending, end of period	1,351	1,214	1,413	1,226

1/ Year ended June 30.

2/ Year ended September 30.

3/ Excludes transfers.

4/ Excludes defendants who are fugitives more than one year from case filing.

5/ Business filings for 1991 may be understated because of improper classification of cases in the automated docketing system.

6/ Unrevised data, which no longer sum to the revised total.

Source: Administrative Office of the United States Courts, *Judicial Business of the United States Courts*, Appendix I (annual).

**Table 4.17-- UNITED STATES BANKRUPTCY COURT CASES FILED
UNDER CHAPTER 7 AND CHAPTER 13 OF THE BANKRUPTCY
CODE: 1986 TO 1996**

[Only cases on the caseload as of 1/31/97 were included in the table. The category of a case is based upon chapter designation as of 1/31/97. Therefore, the chapter under which a case is placed in this table may differ from the chapter under which it was originally filed]

Year	Chapter 7 1/			Chapter 13 2/		
	Total	Business	Personal	Total	Business	Personal
1986	683	165	518	62	1	61
1987	864	141	723	66	5	61
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

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 4.18-- STATE JUDICIARY TERMINATIONS: 1990 TO 1995

[Years ended June 30]

Court and type of case	1990	1991	1992	1993	1994	1995
Supreme Court 1/ Civil cases	2,170 199	2,350 179	2,409 184	2,649 126	2,939 277	3,166 371
Criminal cases	266	333	233	95	87	225
Other proceedings	1,705	1,838	1,992	2,428	2,575	2,570
Intermediate Court of Appeals 2/ Civil cases	186 32	196 35	249 41	188 31	230 34	189 43
Criminal cases	56	54	97	89	75	64
Other proceedings	98	107	111	68	121	82
Circuit Courts proper Civil cases	15,644 6,418	14,061 6,421	16,152 7,095	14,724 7,368	13,161 5,389	14,209 5,873
Criminal cases	3,567	2,936	3,610	3,665	4,164	5,874
Part I offenses	1,211	1,044	1,433	1,370	1,442	1,599
Part II offenses	2,356	1,892	2,177	2,295	2,722	4,275
Other proceedings	5,659	4,704	5,447	3,691	3,608	2,462
Family Courts Civil cases	48,438 20,128	39,342 12,977	47,661 12,497	51,015 12,161	47,419 12,617	56,629 13,430
Criminal cases	3,027	3,373	5,274	4,269	2,926	7,363
Other proceedings	25,283	22,992	29,890	34,585	31,876	35,836
District Courts Civil cases	897,864 21,968	974,031 17,872	869,581 29,314	666,042 24,103	599,046 22,202	529,357 23,005
Traffic cases	824,692	903,331	790,361	595,178	536,532	460,381
Other violations	10,984	11,811	11,349	7,728	5,659	5,150
Criminal cases	40,220	41,017	38,557	39,033	34,653	40,821
Part I offenses	5,778	5,770	5,849	5,894	5,139	5,771
Part II offenses	34,442	35,247	32,708	33,139	29,514	35,050

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 139 in 1990, 123 in 1991, 253 in 1992, 311 in 1993, 294 in 1994, and 219 in 1995.

2/ Data exclude cases transferred back to the Supreme Court: 2 in 1992, 1 in 1994, and 38 in 1995.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records.

**Table 4.19-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1993 TO 1995**

[Years ended June 30]

Court and type of action	1993	1994	1995
Supreme Court, total	3,243	3,370	3,378
Primary cases	916	904	940
Appeals	838	822	859
Original proceedings	78	82	81
Supplemental proceedings	2,327	2,466	2,438
Intermediate Court of Appeals, total	370	405	296
Primary cases	311	295	220
Appeals	311	295	220
Supplemental proceedings	59	110	76
Circuit Courts Proper, total	16,692	15,105	15,802
Primary proceedings	16,692	15,105	15,802
Civil actions	7,359	6,401	7,573
Probate proceedings	1,602	1,175	1,243
Guardianship proceedings	486	466	461
Miscellaneous proceedings	1,682	2,475	1,811
Criminal actions	5,563	4,588	4,714
Part I offenses	1,601	1,719	1,817
Part II offenses	3,962	2,869	2,897
Family Courts, total	55,689	53,677	58,729
Primary proceedings and referrals	46,208	45,224	48,700
Marital actions and proceedings	6,461	6,216	6,582
Uniform reciprocal enforcement of support	738	656	621
Adoption proceedings	567	458	438
Parental proceedings	1,897	2,329	2,358
Miscellaneous proceedings	4,907	4,477	5,256
Criminal actions	5,353	5,153	5,500
Adults' referrals	6,437	6,713	8,772
Children's referrals	19,848	19,222	19,173
Supplemental proceedings	9,481	8,453	10,029

Continued on next page.

**Table 4.19-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1993 TO 1995 -- Con.**

Court and type of action	1993	1994	1995
District Court, total	723,588	658,343	554,365
Civil	24,279	23,392	25,450
Regular civil	19,175	17,834	19,750
Small claims	5,104	5,558	5,700
Traffic	647,343	589,466	478,688
Moving - arrest and citation	142,700	129,563	92,075
Non-moving	120,979	111,609	71,642
Parking	383,664	348,294	314,971
Other violations	10,389	7,038	5,961
Criminal actions	41,577	38,447	44,266
Part I offenses	6,562	5,831	5,973
Part II offenses	35,015	32,616	38,293

Source: *The Judiciary, State of Hawaii, Annual Report*, for 1993, 1994 and 1995.

**Table 4.20-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:
ANNUAL AVERAGES, 1986 TO 1996**

[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
1986	2,009	1,331	240	348	...	78	12
1987	2,094	1,429	202	374	...	79	10
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

1/ As of 1996, includes nine facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers, Kulani Correctional Facility, Special Needs 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/ Count based on facility count, not on assigned count. Also, 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.

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

**Table 4.21-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED
FELON POPULATION: 1986 TO 1996**

[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	
1986	30.4	29.4	33.3	148.9	41.5
1987	27.0	31.0	45.9	115.6	40.3
1988	29.0	29.0	46.9	115.9	39.4
1989	30.1	28.7	43.9	132.6	43.9
1990	30.2	30.7	45.1	122.6	42.8
1991	32.1	33.6	44.6	140.5	40.9
1992	31.9	34.6	41.6	128.5	38.7
1993	32.3	34.1	40.2	119.5	36.7
1994	31.4	34.0	45.2	129.3	41.2
1995	32.3	34.4	46.1	110.0	38.9
1996	33.4	33.9	39.5	105.0	34.0

1/ For sentenced felon population on June 30.

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

**Table 4.22-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:
1990 TO 1993**

[Years ended June 30]

Item	1990	1991	1992	1993
Number of parolees, June 30 1/	1,416	1,479	1,334	1,649
Parolees in Hawaii	945	1,014	1,009	1,100
Parolees outside Hawaii	208	196	145	187
In institution	52	72	67	49
Whereabouts unknown (cumulative)	211	197	206	182
Minimum imprisonment terms fixed	1,611	1,425	1,683	1,819
Number of persons for whom minimum terms fixed	926	793	1,066	1,217
Persons considered for parole	805	888	791	1,059
Paroles tentatively granted	547	579	516	657
Paroles denied/deferred	318	309	275	402
Parole violation hearings	345	368	381	323
Parole revocations	230	247	252	232
Continued on parole/deferred	115	121	129	91
Pardon investigations	26	29	25	27
Persons pardoned	19	21	19	8
Persons whose paroles were suspended because their whereabouts unknown	108	98	121	105
Discharges from parole	160	144	224	175
Full parole term before discharge	114	95	82	61
Early discharge approved	43	47	133	99
Deceased	1	2	9	15
Administrative discharge 2/	2	-	-	-

1/ In addition, provided courtesy supervision to 46 interstate cases as of June 30, 1990.

2/ Persons convicted prior to 1970, age 65 or older and classified absconder or suspended.

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*, 2nd edition, published by the University of Hawaii Press in 1983. National data are reported in the *Statistical Abstract of the United States: 1996*, 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 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: 1995**

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

Source: GTE Hawaiian Telephone Company, *Oahu Telephone Book April 1995-1996*, p. 38;
consulates; airlines.

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, 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 total	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 DBEDT.

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: 1994

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, Division of Water Resource Management, records; "Tall Falls," *The Honolulu Advertiser*, June 25, 1995, pp. A17 and A20.

Table 5.13-- MAJOR STREAMS, BY ISLANDS: 1994

Island	Feature or stream	Length or average discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge 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, Division of Water Resource Management, records.

Table 5.14-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1994

Island and lake	Type	Elevation (feet)	Area 1/ (acres)	Maximum depth (feet)
Hawaii:				
Green Lake	Lake	3	2	20
Lake Waiau 2/	Lake	13,020	2	10
Waiakea Pond	Tidal pond	(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
Kaelepulu 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, Division of 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
The State	...	...	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
The State	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 1995

[Complete through December 31, 1995. 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]

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	867	ER	940	12.5	176.7
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. 4	4.3	455	ER	940	35.1	119.6
1973: May 5	-	<1	ER	1,000-980	0.3	1.2
Nov. 10	-	30	ER	980-870	1.0	2.7
Dec. 12	0.1	203	ER	940	8.1	28.7
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	<1.0	3.0
1983: Jan. 3 2/	3.3	4,745	ER	780-650	94.6	1,300

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

2/ Still in progress, December 31, 1995. As of that time, there had been 53 separate episodes. These had destroyed 181 housing units and added 540 acres 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-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER:
1975 TO 1995**

[Complete to July 23, 1995]

Date and time (HST)	Location	Magnitude (Richter scale)
1975: Jan. 2, 3:27 AM	Near Pahala, Hawaii	5.0
Nov. 29, 3:35 AM	Puna, Hawaii	5.7
Nov. 29, 4:47 AM	Puna, Hawaii	7.2
1976: Feb. 20, 7:51 PM	Between Maui and Hawaii	5.1
1977: Jan. 22, 12:36 PM	100 miles S. of Kauai	5.1
Apr. 20, 6:49 PM	Hamakua, Hawaii	5.0
June 5, 11:42 PM	Puna, Hawaii	5.1
1979: Mar. 29, 11:06 PM	40 miles S.W. of Oahu	5.5
Sept. 21, 9:59 PM	Puna, Hawaii	5.5
1981: Mar. 5, 4:09 AM	Molokai area	5.3
Nov. 10, 3:02 AM	Kilauea, Hawaii	5.3
1982: Jan. 21, 11:52 AM	Mauna Loa, Hawaii	5.5
Jan. 21, 12:29 PM	Mauna Loa, Hawaii	5.5
May 14, 6:26 AM	Off Kawaihae, Hawaii	5.0
1983: Mar. 20, 5:18 PM	Off Kalapana, Hawaii	5.0
Sept. 9, 6:30 AM	Off Kalapana, Hawaii	5.4
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: Apr. 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
1988: March 24, 2:30 PM	30 miles S. of Kahoolawe	5.0
March 27, 5:33 PM	30 miles S. of Kahoolawe	5.5
June 7, 12:49 AM	S. flank of Kilauea	5.0
July 3, 7:38 PM	Near Pahala	5.3
July 22, 10:29 AM	Near French Frigate Shoals	5.0
1989: June 25, 5:27 PM	Kalapana area	6.1
Dec. 27, 11:13 PM	Kilauea East Rift Zone	5.1
1990: Aug. 8, 4:06 PM	Kilauea East Rift Zone	5.4
1991: May 7, 10:21 PM	13 miles W. of Kailua-Kona	5.3
1994: Feb. 1, 12:01 AM	Offshore, 12 miles S. of Kilauea	5.2

Source: Hawaii Institute of Geophysics, records; Hawaiian Volcano Observatory Summaries; U.S. Geological Survey, National Earthquake Information Service. Data provided by Paul Okubo, Hawaiian Volcano Observatory, July 24, 1995.

**Table 5.19-- EARTHQUAKES WITH HONOLULU INTENSITIES OF
V OR GREATER: 1859 TO 1995**

[Complete to July 23, 1995]

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, as updated by Paul Okubo, Hawaiian Volcano Observatory, July 24, 1995.

**Table 5.20-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:
1946 TO 1995**

[Complete to July 23, 1995]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

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; Hawaiian Volcano Observatory, information provided July 24, 1995.

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, Division of Water Resource Management, records.

Table 5.22-- FRESH WATER USE, BY TYPE, BY ISLANDS: 1990

[Million gallons per day]

Use	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai	Niihau
Total	1,443.74	192.69	516.59	2.90	10.97	350.56	369.97	0.06
Ground water	556.71	92.21	99.04	2.90	3.74	313.29	45.47	0.06
Domestic	134.45	18.36	19.32	0.84	0.79	86.02	9.09	0.03
Agricultural	195.42	9.31	41.80	1.96	2.36	120.67	19.29	0.03
Industrial	29.18	3.95	1.85	-	-	22.90	0.48	-
Thermoelectric	95.72	57.13	26.96	-	-	0.65	10.98	-
Commercial	101.94	3.46	9.11	0.10	0.59	83.05	5.63	-
Surface water	887.03	100.48	417.55	-	7.23	37.27	324.50	-
Domestic	1.70	0.51	0.80	-	0.12	-	0.27	-
Agricultural	598.17	13.52	316.10	-	7.11	37.27	224.17	-
Industrial	22.84	16.50	-	-	-	-	6.34	-
Thermoelectric	0.05	-	0.05	-	-	-	-	-
Commercial	0.60	-	0.60	-	-	-	-	-
Hydroelectric	263.67	69.95	100.00	-	-	-	93.72	-

Source: Data compiled by the U.S. Geological Survey and provided by the Hawaii State Department of Land and Natural Resources, Division of Water Resource Management, May 18, 1994.

**Table 5.23-- WATER SERVICES AND CONSUMPTION, FOR COUNTY
WATERWORKS: 1994 TO 1996**

Geographic area	Number of services, June 30			Consumption (million gallons) 1/		
	1994	1995	1996	1994	1995	1996
State total	222,569	226,998	229,989	73,732	74,990	75,389
City and County of Honolulu	147,368	150,247	152,184	50,407	51,004	51,343
Honolulu 2/	60,850	61,025	61,091	25,653	25,469	25,376
Rest of Oahu	86,518	89,222	91,093	24,754	25,535	25,967
Hawaii County	32,381	32,828	33,094	7,999	8,378	8,363
Kauai County	15,799	16,463	16,793	4,149	4,114	4,206
Maui County	27,021	27,460	27,918	11,177	11,494	11,477
Maui	25,531	25,960	26,409	10,822	11,150	11,138
Molokai	1,490	1,500	1,509	355	344	339

1/ Year ended June 30. The 1995 Oahu data have been revised.

2/ Maunaloa to Moanalua.

Source: Data compiled by Hawaii State Department of Business, Economic Development & Tourism from Honolulu Board of Water Supply, Hawaii County Department of Water Supply, Kauai Department of Water, and Maui Department of Water Supply.

**Table 5.24-- STATE RANKING IN ECONOMIC AND ENVIRONMENTAL
HEALTH INDICATORS: 1994**

Type of indicators	Number of indicators	Final scores		Hawaii rank 1/
		Median state	Hawaii	
Economic health	20	506	252	1
Environmental health	20	525	360	4

1/ Among the 50 States.

Source: Institute for Southern Studies, "Gold and Green," *Southern Exposure*, Fall 1994, cited in release dated October 12, 1994.

**Table 5.25-- HAZARDOUS WASTE SITES ON THE NATIONAL PRIORITY LIST:
1991 TO 1995**

[Includes both proposed and final sites]

Subject	1991	1992	1993	1994	1995
Number of sites	2	2	3	4	1/ 4
Rank (among the 50 states)	47	47	47	46	45

1/ The national 50-State total was 1,270 sites in 1995.

Source: EPA data cited in *Statistical Abstract of the United States* for 1992 (p. 215), 1993 (p. 228), 1994 (p. 235), 1995 (p. 237), and 1996 (p. 238).

**Table 5.26-- 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 5.27-- WATER QUALITY AT PUBLIC BEACHES, BY ISLANDS:
1994 AND 1995**

Island	Number of locations	Number of samples	Enterococci density 1/			
			Lowest 2/	Highest 3/	Number over 7	Mean 4/
1994						
State total	165	2,575	1.0	298.9	30	3.9
Hawaii	43	390	1.0	168.2	8	3.4
Hilo Shoreline	20	197	1.4	168.2	7	5.2
Kona Shoreline	23	193	1.0	7.6	1	2.2
Maui	37	432	1.0	19.2	1	1.8
Lanai	2	4	1.4	16.7	1	4.9
Molokai	2	4	5.5	11.7	1	8.0
Oahu	53	1,437	1.0	298.9	12	5.1
Kauai	28	308	1.1	151.8	7	4.4
1995						
State total	170	2,460	1.0	351.7	38	3.8
Hawaii	37	313	1.0	90.0	6	3.0
Hilo Shoreline	18	212	1.1	90.0	3	3.3
Kona Shoreline	19	101	1.0	80.0	3	2.5
Maui	48	516	1.0	27.0	3	1.9
Lanai	2	4	1.0	9.5	1	3.1
Molokai	2	4	2.6	32.0	1	9.2
Oahu	53	1,282	1.0	351.7	13	5.0
Kauai	28	341	1.2	177.4	8	5.1

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 1994 was that reported at Kaneohe Bay-North (Oahu), Hukilau Hotel Shoreline and Wailuku Breakwater (Maui), and Mauna Kea Beach Hotel-Outfall and Mauna Kea Hotel Beach (Hawaii). In 1995, the lowest average value was that reported for a number of beaches on four islands.

3/ The highest average value in both 1994 and 1995 was that reported for the Ala Wai Canal at the McCully Street Bridge on Oahu.

4/ Not weighted by number of samples.

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

**Table 5.28-- WATER QUALITY AT SELECTED PUBLIC BEACHES:
1994 AND 1995**

Island and beach	Number of samples		Enterococci density 1/	
	1994	1995	1994	1995
Hawaii:				
Hapuna Beach	7	9	1.1	1.4
Kahaluu Beach	13	5	2.9	3.4
Kealakekua Bay (curio stand)	3	5	2.2	1.1
Hilo Bay (Mooheau Park)	-	-	...	...
Spencer Beach Park	6	5	2.0	5.1
Maui:				
Kapalua (Fleming) Beach (north)	12	12	2.1	1.1
Kihei (north)	12	12	1.1	2.1
Makena Beach	12	12	1.5	1.8
Seven Pools	11	9	1.1	1.0
Sheraton Kaanapali (shoreline)	12	12	1.3	1.0
Lanai:				
Hulopoe Bay	2	2	1.4	1.0
Molokai:				
Kaunakakai Harbor	2	2	5.5	2.6
Oahu:				
Ala Moana Park (center)	21	12	2.1	4.0
Ewa Beach Park	38	20	2.3	1.6
Haleiwa Beach	23	22	4.6	4.0
Hanauma Bay	41	39	3.8	3.5
Kailua Beach Park	40	22	5.2	6.7
Kuhio Beach	40	42	12.2	8.5
Makaha Beach	38	26	1.7	1.5
Waimea Beach	36	39	6.9	3.9
Kauai:				
Anini Park Pavilion	12	12	2.3	3.3
Kalapaki Beach (middle)	12	12	13.0	13.8
Kekaha (Oomano Pt.)	9	12	1.3	2.3
Poipu Beach Pavilion	9	12	1.1	1.8
West of Lydgate Park (wading pool)	12	14	5.1	5.1

1/ See previous table, footnote 1.

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

**Table 5.29-- REFUSE AND SEWAGE STATISTICS FOR OAHU:
1984 TO 1994**

[Fiscal years]

Year	Tons of municipal solid waste delivered 1/			Sewage treated 2/ (millions of gallons)
	Total	City and County refuse vehicles	Other vehicles	
1984	611,386	297,215	314,171	38,283
1985	615,574	272,905	342,669	37,817
1986	681,874	375,847	306,027	37,608
1987	678,392	380,810	297,582	38,199
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

Year	Sewage pumped 2/ (millions of gallons)	Miles of sewers 2/	City and County pump stations	City and County treatment plants
1984	48,320	1,691	51	18
1985	49,361	1,711	51	17
1986	48,559	1,736	55	17
1987	49,542	1,752	57	17
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

1/ Excludes small landfill controlled by armed forces.

2/ Data limited to system maintained by the City and County of Honolulu, Department of Wastewater Management.

Source: City and County of Honolulu, Department of Public Works, Refuse Collection and Disposal Division, and Department of Wastewater Management, records.

Table 5.30-- LITTER ALONG OAHU HIGHWAYS: 1979 TO 1993

Measure	1979	1981	1985	1988	1993
Visible litter items per mile	1,381	1,672	1,038	892	521
Visible beer/soft drink containers per mile	144	80	49	26	28
Indiscriminate dumps per 1,000 miles of driving	8.2	15.7	19.6	14.1	12.6
Abandoned vehicles per 1,000 miles of driving	4.9	23.6	57.4	6.8	2.1

Source: Daniel B. Syrek, *Hawaii Litter: 1993* (Sacramento: The Institute for Applied Research, for the Hawaii State Department of Health, Litter Control Office, August 1993).

Table 5.31-- AIR QUALITY IN DOWNTOWN HONOLULU: 1985 TO 1995

[Annual arithmetic means, in micrograms per cubic meter, for total suspended particulates and sulfur oxides. Sampling is conducted about 46 feet above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii]

Year	Particulates	Sulfur oxides	Year	Particulates	Sulfur oxides
1985	24	<5	1992	28	<5
1986	25	<5	1993	21	<5
1987	26	<5	1994	21	<5
1988	26	<5	1995	20	<5
1989	30	<5	Standards 1/	-	80
1990	30	<5			
1991	30	<5			

1/ Federal standards for total suspended particulates have been dropped and PM₁₀ standards have been adopted.

Source: Hawaii State Department of Health, Clean Air Branch, data supplied July 1996.

Table 5.32-- AIR QUALITY AT SPECIFIED LOCATIONS: 1995

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

Sampling station	PM ₁₀ 1/			Sulfur dioxide		
	Annual range		Arithmetic average	Annual range		Arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Downtown Honolulu	2	37	14	0	22	3
Liliha	5	45	16	...	...	...
Pearl City	0	56	14	...	...	...
Kapolei	10	78	24	0	21	2
Makaiwa	...	...	...	0	15	3
West Beach	1	46	16	0	16	2
Waimanalo	8	29	16	...	...	...
Kauai:						
Lihue	8	37	17	...	...	...

1/ Particulates data for all locations except Downtown Honolulu and Liliha from PM₁₀ samplers (measuring inhalable particulates of less than 10 micrograms).

Source: Hawaii State Department of Health, Clean Air Branch, data supplied July 1996.

**Table 5.33-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT
MAUNA LOA: ANNUAL MEAN VALUES, 1958 TO 1994**

[Parts per million]

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

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 1992-1994).

Table 5.34-- 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 5.34-- 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)
		Coolest 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 5.35-- 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	70.0
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
Relative humidity (percent):				
8 A.M.	80	75	72	78
2 P.M.	68	58	55	67
Wind speed (m.p.h.):				
Mean	7.2	12.8	11.3	12.4
Peak gust	55	54	51	115
Percent of possible sunshine	40	67	70	57
Mean number of days:				
Clear	35.5	130.6	90.4	56.1
Partly cloudy	131.5	145.1	180.2	183.5
Cloudy	198.2	89.5	94.6	125.6
Precipitation .01 inch or more	278.1	100.2	97.6	200.4
Thunderstorms	9.8	4.1	6.6	7.7
Temperature maximum 90° and above	0.8	26.3	36.7	0.2

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, 1995* for Hilo, Kahului, Honolulu, and Lihue.

Table 5.36-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F)			Extreme temperature (°F)		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
January	80.1	65.6	72.9	87	53	3.55	14.74	0.18	6.72
February	80.5	65.4	73.0	88	53	2.21	13.68	0.06	6.88
March	81.6	67.2	74.4	88	55	2.20	20.79	0.01	17.07
April	82.8	68.7	75.8	89	57	1.54	8.92	0.01	4.21
May	84.7	70.3	77.5	93	60	1.13	7.23	0.05	3.44
June	86.5	72.2	79.4	92	65	0.50	2.46	T	2.28
July	87.5	73.5	80.5	94	66	0.59	2.33	0.03	2.20
August	88.7	74.2	81.4	93	67	0.44	3.08	T	2.35
September	88.5	73.5	81.0	95	66	0.78	2.74	0.05	1.40
October	86.9	72.3	79.6	94	61	2.28	11.15	0.11	7.57
November	84.1	70.3	77.2	93	57	3.00	14.72	0.03	9.15
December	81.2	67.0	74.1	89	54	3.80	17.29	0.06	8.25
Annual	84.4	70.0	77.2	95	53	22.02	20.79	T	17.07

Continued on next page.

Table 5.36-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent)		Wind (miles/hour)		Percent of possible sunshine	Mean sky cover, sunrise to sunset 2/	Mean number of days		
	8 A.M.	2 P.M.	Mean speed	Fastest obs. 1/			Clear	Cloudy	Precip. .01 inch or more
January	81	61	9.5	32	65	5.4	9.5	8.5	9.4
February	79	59	10.1	35	67	5.5	8.1	7.8	9.2
March	73	57	11.3	30	71	5.8	7.5	9.4	8.8
April	70	55	11.8	31	70	6.1	5.7	9.8	8.9
May	67	53	11.8	30	71	5.9	6.6	9.0	7.2
June	66	52	12.6	26	73	5.5	6.4	6.3	5.7
July	67	51	13.1	28	76	5.3	7.5	5.3	7.3
August	68	52	12.9	28	77	5.2	8.1	5.9	6.2
September	69	52	11.2	38	77	5.2	8.1	5.9	7.0
October	70	55	10.5	25	70	5.6	7.5	8.4	8.7
November	75	58	10.7	46	63	5.7	7.2	9.1	9.0
December	79	60	10.4	33	62	5.5	8.2	9.0	10.2
Annual	72	55	11.3	46	70	5.6	90.4	94.6	97.6

T Trace amount.

1/ Fastest observation, 2 minutes, during period of record.

2/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1995.*

Table 5.37-- AVERAGE TEMPERATURE, PERCENT OF POSSIBLE SUNSHINE, AND PRECIPITATION, FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1950 TO 1995

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

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, 1950-1995).

Table 5.38-- AVERAGE DAILY TEMPERATURE AND DAYS WITH MAXIMUM OF 90° OR HIGHER; FOR HONOLULU INTERNATIONAL AIRPORT: 1971 TO 1995

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

Source: National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual report, 1971-1995).

**Table 5.39-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT:
ANNUALLY, 1985 TO 1995**

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1985	76.9	71.4	81.9	54	93	17.38
1986	78.3	72.6	82.9	56	94	13.93
1987	77.9	71.2	82.9	55	94	23.53
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

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		
1985	72	55	10.6	46	69	87
1986	74	55	10.1	41	77	88
1987	70	54	9.9	41	73	99
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

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 5.40-- 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 5.41-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY,
1985 TO 1995**

[In inches]

Year	Hawaii				Maui		
	Hilo Airport	Waimea 1/	Kona Village	Naalehu	Kahului Airport	Kihei	Lahaina
1985	112.96	16.58	8.60	48.74	20.00	13.86	13.48
1986	171.03	34.67	12.41	64.55	18.39	7.25	7.38
1987	142.41	19.43	10.24	49.13	24.31	14.03	19.72
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
Year	Oahu				Kauai		
	Waikiki	University of Hawaii	Nuuanu Res. 4	Kane-ohe 2/	Koloa	Lihue Airport	Princeville
1985	25.61	42.19	101.20	(NA)	48.70	28.91	55.22
1986	22.39	32.39	120.60	77.66	64.64	27.99	90.28
1987	27.56	46.52	134.29	77.79	72.53	42.95	94.61
1988	24.50	(NA)	124.42	81.10	63.23	43.06	77.10
1989	(NA)	39.53	129.50	88.20	87.81	56.77	116.65
1990	26.15	40.66	137.81	131.69	73.27	39.37	86.44
1991	26.10	42.83	115.02	90.59	71.30	41.63	82.01
1992	(NA)	35.10	118.58	(NA)	52.53	50.17	(NA)
1993	16.92	24.14	81.62	63.55	52.98	22.27	48.02
1994	20.16	33.68	125.48	77.34	60.73	32.99	72.15
1995	12.25	20.98	99.26	67.78	56.76	46.57	86.94

NA Not available.

1/ Lalamilo Field Office.

2/ Hawaii State Hospital (Kaneohe Mauka). The August 1990 value is for a comparable station (Pali Golf Course).

Source: U.S. Department of Commerce, 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 5.42-- MAJOR HURRICANES: 1950 TO 1995

[Complete to February 14, 1995]

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 Frig. 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, data provided February 14, 1995.

**Table 5.43-- 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), pages 14, 22, 56, and 74; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data provided February 14, 1995.

Table 5.44-- 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 5.45-- 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 5.46-- "LAHAINA" (SHADOWLESS) NOONS FOR SELECTED LOCATIONS:
1997 TO 1999**

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

Location	Lahaina Noon	
	May	July
Honolulu:		
1997	May 26	July 15
1998	27	16
1999	27	16
Time	12:28 PM	12:37 PM
Kahului:		
1997	May 24	July 18
1998	24	19
1999	24	19
Time	12:22 PM	12:31 PM
Lihue:		
1997	May 31	July 11
1998	31	11
1999	31	11
Time	12:23 PM	12:31 PM
Hilo:		
1997	May 18	July 24
1998	18	24
1999	19	24
Time	12:17 PM	12:27 PM

Source: Bishop Museum Planetarium, records.

**Table 5.47-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE
HONOLULU AREA: 1991 TO 1994**

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

Species	1991	1992	1993	1994
All species:				
Species	46	48	45	49
Individual birds	17,864	18,779	22,598	20,112
Endemic species: 1/				
'Apapane	158	57	145	153
Hawaiian Coot	15	10	81	64
Hawaiian Stilt	99	77	137	388
Oahu 'Amakihi	66	79	136	118
Indigenous species: 2/				
Great Frigatebird	30	50	126	33
Red-footed Booby	472	287	916	1,640
Alien species: 3/				
Cattle Egret	486	202	258	235
Common Myna	2,536	2,698	2,725	2,527
Common Waxbill	290	323	559	856
House Sparrow	954	776	672	392
Japanese White-eye	658	697	931	913
Java Sparrow	2,724	2,702	3,216	2,053
Red-vented Bulbul	1,125	1,309	1,487	2,302
Rock Dove	263	299	327	79
Spotted Dove	1,228	1,513	1,379	1,259
Zebra (Barred) Dove	3,592	4,112	5,627	3,506
Visitor species: 4/				
Pacific Golden-Plover	1,037	1,199	1,332	1,201
Ruddy Turnstone	147	245	357	422

1/ Birds peculiar to Hawaii, and found nowhere else.

2/ Native to Hawaii, but also found elsewhere.

3/ Formerly termed "introduced." Includes accidental escapes from captivity.

4/ Formerly termed "migratory." Includes stragglers and seasonal migrants.

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

**Table 5.48-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE
HONOLULU AREA, BY TYPE OF SPECIES: 1993 AND 1994**

[See headnote and footnotes to the preceding table]

Type of species	Number of species		Number of individuals	
	Dec. 19, 1993	Dec. 18, 1994	Dec. 19, 1993	Dec. 18, 1994
All species	45	49	22,598	20,112
Endemic	6	7	513	801
Indigenous	8	7	1,143	1,721
Alien	22	29	19,114	15,936
Visitor	9	6	1,828	1,654

Source: Hawaii Audubon Society, records.

**Table 5.49-- TREES ALONG STREETS OR IN PARKS UNDER THE
JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1991 TO 1996**

[As of June 30]

Location	1991	1992	1993	1994 2/	1995	1996
Along City and County streets and highways 1/	125,236	127,056	130,458	131,817	132,286	134,270
In City and County parks	98,599	98,685	99,025	99,412	100,377	101,063

1/ Excludes Federal, State, and private thoroughfares.

2/ Revised.

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

Table 5.50-- ESTIMATED NUMBER OF SPECIES IN HAWAII: 1995

[Excludes viruses and bacteria]

Category	Species
Total in Hawaii and surrounding waters	21,383
Endemic to Hawaii	8,759
Nonindigenous protists, fungi, plants, and animals	4,532
Terrestrial	15,000
Found in fresh water	300
Marine-inhabiting	5,500

Source: Lucius G. Eldredge and Scott E. Miller, "How many species are there in Hawaii?", *Bishop Museum Occasional Papers*, No. 41, March 1, 1995, pp. 3-18.

**Table 5.51-- 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 Department 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: 1996*.

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:
1989 AND 1994**

Subject	June 1989: Oahu total	June 1994		
		Oahu total	Honolulu district	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	375,455	375,146	54,124	321,022
Residential	29,219	31,098	9,798	21,300
Industrial	11,865	9,058	3,788	5,270
Commercial	4,404	4,205	1,523	2,683
Hotel	301	319	132	187
Agriculture	74,229	70,066	300	69,766
Usable vacant	38,218	38,587	2,532	36,056
Other	217,218	212,812	36,052	185,761
STRUCTURES BY YEAR BUILT 1/				
All structures	151,105	162,363	65,069	97,294
Before 1930	7,668	8,446	6,029	2,417
1930 to 1939	9,296	8,537	5,486	3,051
1940 to 1949.	15,548	14,478	8,357	6,121
1950 to 1959	30,314	29,516	14,189	15,327
1960 to 1969	41,366	40,846	15,420	25,426
1970 to 1979	28,210	28,323	8,145	20,178
1980 to 1989	18,703	20,244	5,245	14,999
1990 and later	-	11,973	2,198	9,775
DWELLING UNITS BY TYPE 1/				
All dwelling units	263,203	280,887	150,183	130,704
Single family and duplex	139,904	149,203	57,756	91,447
Low density multi-family	13,592	42,821	17,836	24,985
High density multi-family	109,707	88,863	74,591	14,272

1/ Data exclude structures on military bases.

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

**Table 6.03-- ESTIMATED ACREAGE OF LAND USE DISTRICTS:
1964 TO 1997**

[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

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, 1996

[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	191,941	1,974,994	1,935,526	9,927
Hawaii	2,573,400	52,813	1,305,706	1,214,230	651
Maui	465,800	20,836	194,836	246,370	3,758
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,228	38,197	46,678	2,397
Molokai	165,800	2,509	49,768	111,657	1,866
Oahu	386,188	98,221	156,618	131,349	-
Kauai	353,900	14,334	198,769	139,542	1,255
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 and Economic Development.

Table 6.06-- LAND PARCELS, BY COUNTIES: 1991 TO 1996

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1991	431,271	227,449	52,362	126,497	24,963
1992	438,388	231,893	53,414	127,444	25,637
1993	446,276	236,138	55,379	128,543	26,216
1994	452,568	240,652	56,108	128,954	26,854
1995	459,646	245,257	57,044	129,708	27,637
1996	467,966	250,320	57,992	131,060	28,594

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 6.07-- CEMETERIES, CHURCHES, HOSPITALS, AND SCHOOLS,
BY COUNTIES: 1996**

[Privately-owned parcels exempt from real property taxes]

Category	State total	Honolulu	Maui	Hawaii	Kauai
Cemeteries	111	48	4	50	9
Churches	1,448	814	220	283	131
Hospitals	77	63	10	1	3
Schools	147	100	7	38	2

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1995-1996 Tax Year, State of Hawaii* (July 1996).

**Table 6.08-- LAND OWNED IN FEE SIMPLE BY SELECTED LARGE
LANDOWNERS: 1965 TO 1995**

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

Landowner	1964-1965	1992	1993	1994	1995
Seven large landowners	1,203,487	978,163	974,606	966,541	995,574
Percent of total land area 1/	29.3	23.8	23.7	23.5	24.2
Bernice P. Bishop Estate 2/	369,700	336,525	336,372	336,270	3/ 367,509
Richard S. Smart (Parker Ranch)	185,610	138,000	140,000	140,000	140,000
Dole Food Company, Inc.	4/ 154,759	128,032	122,435	121,982	121,982
Samuel M. Damon Estate	143,842	121,608	121,608	121,608	121,608
Alexander and Baldwin, Inc.	122,788	93,000	94,300	92,900	90,800
C. Brewer and Company, Ltd.	145,147	87,465	5/ 86,891	6/ 81,997	6/ 81,997
James Campbell Estate	81,641	73,533	73,000	71,784	71,678

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

2/ As of July 1.

3/ Includes part of former Hamakua Sugar Co.

4/ Figure for 1964-1965 refers to Castle & Cooke, Inc., including Dole Company (88,792 acres), Castle & Cooke (45,422), and Kohala Sugar Company (20,546).

5/ As of June 27, 1993.

6/ Excludes 4,126 acres transferred to C. Brewer Homes, Inc.

Source: Robert H. Horwitz and Judith B. Finn, *Public Land Policy in Hawaii: Major Landowners* (Legislative Reference Bureau, Report No. 3, 1967), pp. 17-18; Department of Business, Economic Development & Tourism annual survey of major landowners.

Table 6.09-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1992 TO 1994

Subject	Sept. 30, 1992	Sept. 30, 1993	Sept. 30, 1994
OWNED			
Number of installations	310	310	317
Land area, total (acres)	640,179.0	650,185.9	688,129.5
Percent of State area	15.6	1/ 15.8	1/ 16.8
Urban	14,401.8	23,679.7	21,412.5
Rural	625,777.2	626,506.2	666,717.0
Number of buildings	16,190	16,131	16,336
Floor area of bldgs. (1,000 sq. ft.)	76,868	76,294	77,457
Cost, total (\$1,000) 2/	2,972,378	3,226,317	3,397,196
Land	96,527	117,709	90,674
Buildings	1,948,140	2,061,209	2,222,696
Structures and facilities	927,711	1,047,399	1,083,826
Predominant usage of land (acres):			
Agriculture and grazing	-	-	-
Forest and wildlife	271,237.0	271,237.0	337,342.0
Parks and historic sites	245,343.6	245,343.6	220,526.7
Power development and distribution	-	-	-
Military, excluding airfields	108,791.0	112,056.8	111,014.8
Airfields	6,423.3	9,166.0	6,794.9
Harbor and port facilities	0.8	2.9	2.9
Reclamation and irrigation	-	-	-
Office building locations	64.2	62.4	62.4
Flood control and navigation	7,674.0	1,907.2	1,907.2
Vacant	1.5	1.5	1.5
Institutional	-	-	-
Housing	87.4	87.4	87.4
Storage	6.8	778.2	778.2
Industrial	42.9	9,037.4	9,037.1
Research and development	30.3	30.3	274.2
Misc. land	476.2	475.2	300.2
LEASED			
Number of leases	266	240	557
Land area, total (acres)	8,765.9	8,016.3	15,176.0
Urban	505.3	102.6	638.3
Rural	8,260.6	7,913.7	14,537.7
Number of building locations	222	213	515
Floor area of buildings (sq. ft.)	737,559	726,154	979,725
Annual rental (\$1,000)	7,752	8,920	9,805

Footnote and source on next page.

Table 6.09-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1992 TO 1994 -- Con.

1/ The U.S. percentage was 29.8. The Hawaii percentage ranked 16th 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 6.10-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE,
LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1996**

[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/	194,935	114,270	29,865	25,384	6,721	18,696
In homestead use	40,452	27,238	447	11,005	959	803
Homestead leases 2/	6,350	1,771	575	811	2,760	433
Residential	5,014	1,031	509	388	2,702	384
Agricultural	1,038	470	66	397	58	47
Pastoral	298	270	-	26	-	2
Applicant waiting list 2/	28,641	10,908	5,653	1,615	7,078	3,387
Residential	15,680	4,781	2,712	713	5,911	1,563
Agricultural	11,218	5,010	2,622	771	1,167	1,648
Pastoral	1,743	1,117	319	131	-	176

1/ Data based on latest figures from the trust resolution project. Acreages are rounded to the nearest acre and include 7,939 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.

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 16,000. Data are subject to audit.

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

**Table 6.11-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY,
BY COUNTIES: JANUARY 10, 1995**

[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	1,409.8	72.3	980.2	155.4	201.9
Public lands	431.1	19.5	327.5	38.1	46.0
General lease 1/	358.1	10.4	295.5	39.5	12.7
Revocable permit 2/	163.7	3.9	70.1	37.4	52.3
Unencumbered lands 3/	94.0	13.2	67.1	3.2	10.5
Lands set aside to other government agencies	768.4	42.6	536.5	96.6	92.7
Executive order	269.3	17.7	200.1	26.1	20.4
Governor's proclamation	517.2	29.2	340.3	72.7	75.0
Dept. of Hawaiian Home Lands	191.6	4.8	107.8	19.0	60.0
University of Hawaii	1.7	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/ Long-term leases. Mostly agricultural and pasture land. Includes land covered by water licenses not set aside to other government agencies.

2/ Month-to-month leases. Mostly agricultural and pasture land. Includes land licenses.

3/ 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: 1996*.

**Table 7.01-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND
TRANSIT STATUS: 1987 TO 1996**

Direction and status	1987	1988	1989	1990	1991
All directions	7,324,280	7,894,680	8,236,250	8,507,330	8,272,760
Landing	6,248,550	6,715,600	7,149,700	7,453,550	7,286,140
Intransit	1,075,730	1,179,080	1,086,550	1,053,780	986,620
Westbound 1/	5,214,520	5,443,980	5,734,910	5,692,950	5,444,070
Landing	4,617,230	4,793,580	5,115,410	5,127,690	4,913,650
Intransit	597,290	650,400	619,500	565,260	530,420
Eastbound 2/	2,109,760	2,450,700	2,501,340	2,814,380	2,828,690
Landing	1,631,320	1,922,020	2,034,290	2,325,860	2,372,490
Intransit	478,440	528,680	467,050	488,520	456,200
Direction and status	1992	1993	1994	1995	1996
All directions	8,405,740	7,878,950	7,909,250	7,957,220	8,049,980
Landing	7,266,350	6,945,630	7,263,820	7,466,710	7,648,880
Intransit	1,139,390	933,320	645,430	490,510	401,100
Westbound 1/	5,295,770	5,039,640	5,197,640	5,056,770	5,078,740
Landing	4,664,350	4,520,430	4,772,380	4,725,150	4,801,570
Intransit	631,420	519,210	425,260	331,620	277,170
Eastbound 2/	3,109,970	2,839,310	2,711,610	2,900,450	2,971,240
Landing	2,602,000	2,425,200	2,491,440	2,741,560	2,847,310
Intransit	507,970	414,110	220,170	158,890	123,930

1/ Arriving from North America.

2/ Arriving from Asia or Oceania.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.02-- PASSENGER STATUS OF PARTIES AND PASSENGERS
ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL: 1992 TO 1994**

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/						
1992, total	4,401,170	3,415,940	501,080	(NA)	455,220	28,930
Westbound	2,523,020	1,888,450	205,040	(NA)	404,050	25,480
Eastbound	1,878,150	1,527,490	296,040	(NA)	51,170	3,450
1993, total	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Westbound	(NA)	(NA)	(NA)	(NA)	453,230	25,040
Eastbound	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1994, total	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Westbound	(NA)	(NA)	(NA)	(NA)	467,430	21,960
Eastbound	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
PASSENGERS						
1992, total	8,405,740	5,699,600	814,280	1,139,390	706,370	46,070
Westbound	5,295,770	3,606,940	373,180	631,420	642,410	41,790
Eastbound	3,109,970	2,092,860	441,100	507,970	63,960	4,280
1993, total	7,878,950	5,456,550	667,680	933,320	779,350	42,050
Westbound	5,039,640	3,461,650	302,870	519,210	716,100	39,810
Eastbound	2,839,310	1,994,900	364,810	414,110	63,250	2,240
1994, total	7,909,250	5,732,600	697,700	645,430	792,450	41,070
Westbound	5,197,640	3,740,380	257,440	425,260	738,540	36,020
Eastbound	2,711,610	1,992,220	440,260	220,170	53,910	5,050

NA Not available.

1/ Not surveyed for intransit passengers.

Source: Hawaii Visitors Bureau, Market Research Department, records.

**Table 7.03-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS:
1965 TO 1996**

[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	1/ 6,629,180	3,933,110	1/ 2,696,070	2/ 158,070	2/ 113,040	2/ 45,030
1996	1/ 6,823,130	1/ 3,991,640	1/ 2,831,490	2/ 158,870	2/ 114,160	2/ 44,710

1/ Preliminary.

2/ Preliminary. The figures for average number of visitors present differ from figures in table 7.06.

The figures in table 7.06 are based upon preliminary data by island.

Source: Hawaii Visitors & Convention Bureau, *Annual Research Report* (annual) and records.

**Table 7.04-- CITIZENSHIP OF OVERNIGHT AND LONGER VISITORS TO
HAWAII: 1995 AND 1996**

Country of citizenship	1995			1996 (preliminary)		
	Total	West-bound	East-bound	Total	West-bound	East-bound
All visitors	6,629,180	3,933,110	2,696,070	6,823,130	3,991,640	2,831,490
United States 1/	3,582,030	3,213,520	368,510	3,656,430	3,266,440	389,990
Canada	295,610	246,090	49,520	329,320	276,520	52,800
Asia	2,291,370	164,790	2,126,580	2,416,530	157,130	2,259,400
Japan	1,998,860	78,920	1,919,940	2,089,760	76,770	2,012,990
Taiwan	62,760	9,240	53,520	77,320	7,850	69,470
Korea	104,550	23,460	81,090	121,920	16,700	105,220
Hong Kong	23,190	7,030	16,160	23,960	6,360	17,600
China	21,200	10,820	10,380	27,070	15,480	11,590
Philippines	20,840	16,120	4,720	16,430	11,450	4,980
Singapore	17,320	2,690	14,630	14,620	1,470	13,150
Indonesia	19,220	8,570	10,650	19,090	10,310	8,780
Other Asia	23,430	7,940	15,490	26,360	10,740	15,620
Oceania	147,860	67,410	80,450	129,270	60,870	68,400
Australia	92,310	49,120	43,190	85,030	43,390	41,640
New Zealand	37,130	15,910	21,220	32,900	15,400	17,500
Other Oceania	18,420	2,380	16,040	11,340	2,080	9,260
Europe	271,370	212,230	59,140	259,560	207,640	51,920
United Kingdom	73,220	51,260	21,960	76,290	52,870	23,420
Germany	89,670	72,760	16,910	85,820	73,590	12,230
Other Europe	108,480	88,210	20,270	97,450	81,180	16,270
Other foreign countries	40,940	29,070	11,870	32,020	23,040	8,980

1/ Excludes Hawaii. Includes remaining 49 states, D.C., and U.S. territories and possessions.
Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.05-- VISITOR DAYS, BY DIRECTION OF TRAVEL:
1991 TO 1996**

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 1/	57,385,930	41,252,210	16,133,720
1996 1/	58,146,650	41,783,810	16,362,840

1/ Preliminary.

Source: Hawaii Visitors & Convention Bureau, *1996 Preliminary Research Report*, March 5, 1997.

**Table 7.06-- AVERAGE VISITOR CENSUS, BY COUNTIES AND ISLANDS:
1995 AND 1996**

[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	1995 (preliminary)			1996 (preliminary)		
	Total	West-bound	East-bound	Total	West-bound	East-bound
State total 1/	158,960	113,930	45,030	166,790	118,980	47,810
Oahu	82,110	43,910	38,200	85,510	46,340	39,170
Hawaii County	18,900	16,950	1,950	20,860	17,620	3,240
Kauai County	14,550	13,780	770	15,530	14,490	1,040
Maui County	43,390	39,290	4,100	44,880	40,520	4,360
Lanai	1,710	1,680	30	1,940	1,900	40
Maui	40,350	36,320	4,030	41,420	37,130	4,290
Molokai	1,330	1,290	40	1,520	1,490	30

1/ Differs from figures presented in Table 7.03. The figures presented in the current table are based upon preliminary data by island.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.07-- VISITOR ARRIVALS, WESTBOUND AND OTHER, BY AREAS
VISITED: 1995 AND 1996**

[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/	1995			1996		
	Total 2/	West-bound	East-bound 2/	Total 2/	West-bound 2/	East-bound 2/
State total 3/	6,589,130	3,933,110	2,656,020	6,823,130	3,991,640	2,831,490
Oahu	4,833,310	2,328,140	2,505,170	4,981,820	2,350,110	2,631,710
Kauai	914,950	789,640	125,310	969,140	825,110	144,030
Maui County 3/	2,306,780	1,855,740	451,040	2,327,220	1,824,700	502,520
Maui	2,248,080	1,801,130	446,950	2,265,460	1,766,840	498,620
Molokai	85,850	76,470	9,380	77,790	72,770	5,020
Lanai	93,120	87,210	5,910	95,450	91,060	4,390
Hawaii County 3/	1,083,730	850,800	232,930	1,227,840	880,180	347,660
Hilo side	359,690	275,670	84,020	388,280	276,420	111,860
Kona side	917,610	744,650	172,960	1,031,550	769,710	261,840
One island only	4,632,610	2,583,790	2,048,820	4,728,200	2,641,290	2,086,910
Oahu only	3,174,450	1,237,400	1,937,050	3,197,240	1,263,050	1,934,190

1/ Westbound data based largely on intended visits, as reported upon arrival in State. Beginning in 1994, eastbound data reflect actual visits.

2/ Preliminary.

3/ 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, *Market Research Flash*, March 5, 1997.

Table 7.08-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS, BY DIRECTION OF TRAVEL: 1993 AND 1994

Subject	Total	Westbound	Eastbound
1993			
Residence (percent):			
United States	55.2	79.3	17.2
Pacific and Mountain States	31.5	47.1	6.6
California	20.7	30.9	4.5
Males per 100 females	(NA)	(NA)	(NA)
Median age (years)	(NA)	(NA)	(NA)
High-status occupations 1/ (percent)	36.9	42.9	28.1
Persons per party	1.81	1.86	1.74
Arriving June-August (percent)	26.6	25.9	27.7
Repeat visitors 2/ (percent)	55.5	62.0	45.9
Pleasure trip (percent)	96.1	76.3	74.6
In hotel only	54.5	52.5	69.2
Destined beyond Hawaii (percent)	10.9	8.0	15.5
1994			
Residence (percent):			
United States	55.8	81.8	13.1
Pacific and Mountain States	32.2	48.4	5.6
California	21.4	32.1	3.9
Males per 100 females	(NA)	111.9	(NA)
Median age (years)	(NA)	40.4	(NA)
High-status occupations 1/ (percent)	(NA)	(NA)	(NA)
Persons per party	1.84	1.90	1.75
Arriving June-August (percent)	27.1	26.9	27.4
Repeat visitors 2/ (percent)	55.8	62.3	45.2
Pleasure trip (percent)	82.7	78.3	89.9
In hotel only	65.8	56.0	81.9
Destined beyond Hawaii (percent)	10.9	6.4	18.1

NA Not available.

1/ Senior management, middle management, and professional as a percent of all visitor party heads.

2/ Party heads.

Source: Hawaii Visitors Bureau, records.

Table 7.09-- WESTBOUND VISITORS BY AREA OF RESIDENCE: 1995 AND 1996

[Limited to visitors staying overnight or longer. Includes both visitors destined to and beyond Hawaii]

Residence	1995	1996 1/
Pacific	1,608,710	1,623,810
Alaska	31,200	31,700
California	1,219,340	1,249,250
Oregon	110,240	111,490
Washington	247,930	231,410
Mountain	291,400	311,850
West North Central	172,390	167,150
West South Central	170,920	178,500
East North Central	334,320	336,800
East South Central	67,930	67,470
New England	90,460	93,210
Middle Atlantic	213,090	207,670
South Atlantic	256,060	270,830

1/ Preliminary.

Source: Hawaii Visitors & Convention Bureau, *1996 Preliminary Research Report*, March 5, 1997.

Table 7.10-- TRIP CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL: 1995 AND 1996

[Limited to visitors staying overnight or longer. Includes both visitors destined to and beyond Hawaii]

Subject	Westbound		Eastbound	
	1995	1996 1/	1995 1/	1996 1/
All visitors 2/	3,933,110	3,991,640	2,656,020	2,831,490
Purpose of visit: 2/				
Pleasure	2,814,970	2,873,790	2,202,120	2,350,610
Honeymoon	252,930	257,700	253,930	327,830
Meetings, conventions, incentive 2/	366,420	341,750	59,240	82,750
Convention	245,470	217,640	28,100	30,810
Corporate meeting	69,920	69,850	12,530	20,100
Incentive	58,170	58,930	19,020	32,540
Other business	171,320	170,860	27,430	16,720
Visit friends or relatives	343,970	344,400	46,310	32,410
Government or military	55,480	53,380	13,550	6,820
Attend school	10,900	10,760	14,210	6,050
Traveler method:				
Tour group	410,350	403,920	1,837,500	2,081,480
Non-group	3,522,220	3,587,730	818,510	750,040
Package	1,496,610	1,480,840	2,119,510	2,485,060
Non-package	2,436,510	2,510,800	536,500	346,440
True independent	2,355,150	2,428,480	493,080	307,090
Accommodations:				
Hotel	2,446,950	2,479,680	2,297,590	2,490,520
Hotel only	2,174,300	2,215,870	2,275,390	2,465,880
Condo	1,020,550	1,018,940	236,200	286,850
Condo only	836,230	840,240	222,180	268,680
Friends, relatives	448,930	454,930	61,950	34,270
Cruise ship	67,030	60,480	1,980	2,290
Other accommodations	115,350	161,920	31,540	23,360

1/ Preliminary.

2/ Because of multiple responses, detail may add to more than the indicated total.

Source: Hawaii Visitors & Convention Bureau, *1996 Preliminary Research Report*, March 5, 1997.

**Table 7.11-- CHARACTERISTICS OF VISITOR PARTY HEADS,
BY DIRECTION OF TRAVEL: 1993**

[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	3,380,100	2,023,940	1,356,160
Occupation:			
Senior management, executive	348,600	232,820	115,780
Middle management	325,590	206,830	118,760
Sales, marketing	311,700	192,840	118,860
Clerical, administration	291,290	98,030	193,260
Professional	573,610	427,720	145,890
Technical, trade	213,340	121,800	91,540
Labor	125,220	25,820	99,400
Farming/Fishing	17,060	11,610	5,450
Homemaker	150,060	53,540	96,520
Military service	39,870	23,670	16,200
Military dependent	5,360	2,890	2,470
Student	222,280	102,480	119,800
Self-employed	229,980	146,580	83,400
Retired	295,030	259,280	35,750
Other non-employed	47,790	18,960	28,830
Other employed	183,270	99,050	84,220
Trips to Hawaii:			
First trip	1,502,780	769,100	733,680
Second trip	655,150	374,430	280,720
Third trip	320,380	202,390	117,990
Fourth trip and over	901,790	678,020	223,770
Persons in party:			
1 person	1,239,500	808,510	430,990
2 persons	1,406,100	930,960	475,140
3 persons	256,390	120,860	135,530
4 persons	262,960	105,120	157,840
5 persons or more	215,150	58,490	156,660

Source: Hawaii Visitors Bureau, records.

Table 7.12-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY DIRECTION OF TRAVEL: 1993 AND 1994

Length of stay	1993			1994		
	Total	West-bound	East-bound	Total	West-bound	East-bound
All visitors	6,124,230	3,764,520	2,359,710	6,430,300	3,997,820	2,432,480
1 to 6 days	2,752,590	998,930	1,753,660	2,747,350	959,480	1,787,870
7 to 12 days	2,454,920	1,943,800	511,120	2,694,670	2,166,820	527,850
13 to 30 days	810,990	734,030	76,960	880,870	783,570	97,300
31 to 365 days	105,740	87,770	17,970	107,410	87,950	19,460
Median (days)	6.95	7.94	5.37	7.04	8.01	5.44
Mean (days)	8.87	10.48	6.29	9.04	10.52	6.60

Source: Hawaii Visitors Bureau, records.

**Table 7.13-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES:
1990 TO 1995**

Subject	1990	1991	1992	1993	1994	1995
Arrivals (1,000)	1,440	1,385	1,637	1,592	1,756	1,999
Average stay (days)	5.9	5.9	5.7	6.1	6.1	1/ 6.1
Expenditures (mil. dol.)	2,500	2,797	3,237	3,026	3,657	1/ 4,340

1/ Preliminary.

Source: Hawaii Visitors Bureau, records.

Table 7.14-- FAMILY INCOME, EDUCATION, TRIP CHARACTERISTICS, AND SATISFACTION OF MAINLANDERS VISITING HAWAII: 1990 TO 1993

Subject	1990	1991	1992	1993		
Sample size	6,001	5,651	1,443	1,153		
Family income before taxes (percent)	100.0	100.0	100.0	100.0		
Under \$25,000	5.0	2.7	(NA)	5.6		
\$25,000 to \$49,999	32.9	22.6	(NA)	23.7		
\$50,000 to \$74,999	27.9	27.6	(NA)	24.0		
\$75,000 to \$99,999	}	47.1	(NA)	{		
\$100,000 to \$149,999					34.2	13.3
\$150,000 and over					7.2	
Not reported 1/	...	...	...	9.8
Median income (dollars)	56,100	72,300	64,500	67,115		
Mean income (dollars)	72,800	84,700	77,800	79,712		
Education (percent):						
Associate degree	...	...	7	9
Bachelor's or higher 2/	60	61	59	56		
Using travel agent (percent)	79.8	74.0	(NA)	79.8		
Islands visited (percent):						
Oahu	64.0	63.6	(NA)	67.3		
Kauai	39.9	38.7	(NA)	18.5		
Maui	48.3	47.0	(NA)	59.5		
Hawaii	30.1	32.3	(NA)	32.8		
Overall satisfaction (percent):						
Excellent	54	60	56	55		
Above average	35	32	34	36		
Average or below average	11	8	10	8		

NA Not available.

1/ Not reported separately before 1993.

2/ Before 1992 refers to percent reported as "college graduates."

Source: Hawaii Visitors Bureau, *1990 Visitor Satisfaction Report* (1991), *1992 Westbound Visitor Satisfaction Report* (1993), and unpublished data.

Table 7.15-- MEETINGS AND CONVENTIONS: 1989 TO 1994

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue (\$1,000)
1989	754	259,399	121,533	343,965
1990	743	201,534	100,717	295,952
1991	548	177,036	86,597	220,410
1992	389	169,980	84,990	223,810
1993	372	135,938	62,790	169,453
1994	344	133,356	61,590	166,234

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 7.16-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1993 AND 1994

Island	Number of meetings held		Estimated attendance	
	1993	1994	1993	1994
State total	372	344	135,938	133,356
Hawaii:				
Hilo	1	2	130	335
Kona	62	63	19,854	20,772
Maui	153	144	37,389	39,114
Lanai	12	12	40	2,820
Molokai	-	-	-	-
Oahu	141	109	75,820	61,090
Kauai	14	14	2,705	9,225

Source: Hawaii Visitors Bureau, Meetings, Conventions & Incentives Department.

Table 7.17-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1996

[Dollars. Unweighted averages for Mainlanders before 1988 and for Japanese before 1990]

Year	Mainlanders	Japanese	Year	Mainlanders	Japanese
1931-32 1/	17.50	(NA)	1988	121.44	350
1951	28.00	(NA)	1989	126.57	322
1960-61	32.00	(NA)	1990	136.30	294
1965-66 1/	37.23	(NA)	1991	140.54	344
1974	46.20	123	1992	117.14	345
1977	54.62	147	1993	116.15	307
1980	71.24	185	1994	133.79	341
1983	85.88	227	1995 2/	132.73	356
1986	95.40	299	1996 2/	137.62	294
1987	102.49	324			

NA Not available.

1/ Oahu only.

2/ Preliminary.

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, *Market Research Flash*, May 14, 1997 and records.

Table 7.18-- AVERAGE EXPENDITURE PER VISITOR DAY IN CONSTANT DOLLARS, FOR VISITORS FROM THE MAINLAND: 1931 TO 1996

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	1989	124.0	102
1951	26.0	108	1990	130.7	104
1960-61	29.8	107	1991	136.2	103
1965-66 2/	32.0	116	1992	140.3	83
1974	49.3	94	1993	144.5	80
1977	60.6	90	1994	148.2	90
1980	82.4	86	1995	152.4	87
1983	99.6	86	1996	156.9	88
1986	109.6	87			

1/ In constant (1982-84) dollars.

2/ Oahu only.

Source: Preceding table; U.S. Bureau of Labor Statistics, *CPI Detailed Report*, January 1997, pp. 89-90.

Table 7.19-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM THE MAINLAND AND JAPAN, BY EXPENDITURE TYPE: 1995 AND 1996

[In dollars. Excludes transpacific travel costs]

Expenditure type	Visitors from Mainland		Visitors from Japan	
	1995	1996 1/	1995 1/	1996 1/
All items	132.73	137.62	356.15	293.52
Food and beverage	30.39	30.75	45.43	41.68
Restaurants	20.61	20.49	25.24	27.36
Dinner shows	3.16	3.86	5.29	3.41
Dinner or lunch cruise	0.99	1.15	6.11	4.99
Nightclubs, bars	2.20	1.86	1.04	0.69
Groceries	3.43	3.39	7.75	5.23
Entertainment	6.84	7.64	10.28	10.93
Attractions	2.57	3.14	3.78	5.16
Sports, recreation	3.76	4.04	6.01	5.51
Other entertainment	0.51	0.46	0.49	0.26
Transportation	17.69	20.47	18.25	12.84
Ground transportation	0.93	0.70	2.63	1.51
Rental vehicles	7.99	8.62	2.56	1.15
Interisland travel	4.00	4.88	5.66	5.24
Gasoline	0.84	1.01	0.15	0.06
Parking	0.58	0.54	0.21	0.04
Sightseeing tours	3.35	4.72	7.04	4.84
Clothing	8.49	8.05	34.13	29.63
Other fashion 2/	5.84	6.01	79.79	69.51
Agriculture	1.67	1.76	5.21	4.50
Communication	0.77	0.66	1.09	0.59
Personal service	1.32	1.35	2.97	1.99
Lodging	49.07	49.87	89.94	80.14
Souvenirs	3.98	4.53	17.30	11.37
All other	4.96	4.77	8.25	7.75
Adjustment 3/	1.71	1.76	43.51	22.59
Duty-free	-	-	22.32	19.10
Not duty-free	132.73	137.62	333.83	274.42

1/ Preliminary.

2/ Jewelry, cosmetics, leather goods, etc.

3/ Visitors estimate of amount excluded from listed categories and unaccounted expenditures.

Source: Hawaii Visitors & Convention Bureau, *Market Research Flash*, May 14, 1997.

**Table 7.20-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM
MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS:
1993 AND 1994**

[Dollars]

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1993	1994	1993	1994
All visitors	116.15	133.79	306.54	340.88
Islands:				
Oahu	106.90	120.52	309.27	342.27
Neighbor Islands	127.36	146.25	276.26	318.82
Group tour status:				
Organized group tour	150.18	133.27	314.17	350.84
Individually arranged	114.70	132.27	288.59	277.06
Arrived on package tour:				
Yes	125.58	128.84	317.60	350.26
No	111.75	135.56	254.23	219.35
Accommodations:				
Hotel only	123.09	138.21	318.32	348.37
Condo only	98.41	106.85	256.79	218.08
Guests of friends and relatives	107.22	*115.30	(NA)	(NA)
Other	121.36	112.90	(NA)	(NA)
Length of stay:				
1 to 6 days	120.14	150.17	336.79	371.05
7 to 12 days	118.43	134.37	288.14	291.82
13 days or longer	101.14	119.20	187.44	*202.35
Previous visits:				
First trip	127.83	131.78	337.86	385.02
Repeat visitors	111.23	132.56	273.69	306.17

Continued on next page.

**Table 7.20-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM
MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS:
1993 AND 1994 - Con.**

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1993	1994	1993	1994
Party size:				
1 person	137.00	141.40	365.81	341.76
2 persons	131.32	140.98	350.36	393.50
3 persons	98.33	113.03	289.48	248.80
4 persons or more	89.50	97.09	244.62	257.74
Purpose of trip:				
Pleasure	116.35	132.26	293.60	336.65
Business: Meetings, conventions, incentive	181.40	157.33	*553.88	*483.40
Other business	121.59	*177.62	*291.03	*476.13
Time of year:				
First quarter	115.13	129.18	336.89	293.82
Second quarter	115.04	128.02	289.45	339.14
Third quarter	114.22	126.38	304.10	331.50
Fourth quarter	120.39	146.73	288.34	377.67
Children in party:				
Yes	85.15	99.16	209.98	231.84
No	132.48	141.63	338.24	363.36
On honeymoon:				
Yes	159.75	156.83	*564.26	462.22
No	113.50	130.43	299.13	316.42

* Sample under 25; subject to considerable sampling variation.

NA Not available.

Source: Hawaii Visitors Bureau, *Visitor Expenditures, 1993* (1994), and records.

Table 7.21-- ESTIMATED VISITOR EXPENDITURES: 1951 TO 1996

[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 2/	10,576	1,011.4
1964	205	1980	2,875	1996		
1965	225	1981	3,200			
1966	280	1982	3,700			

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.

2/ Preliminary.

Source: Hawaii Visitors Bureau, *1986 Annual Research Report*, p. 1; *1994 Annual Research Report*, p. 47; *Market Research Flash*, May 14, 1997; and records.

**Table 7.22-- VISITOR EXPENDITURES, BY COUNTRY OF RESIDENCE:
1985 TO 1996**

[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 1/ 1996	11,587,684	10,576,250	4,744,909	4,340,311	1,491,030	1,011,434

1/ Preliminary.

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; and *Market Research Flash*, May 14, 1997.

Table 7.23-- VISITOR EXPENDITURES, BY DIRECTION OF TRAVEL AND ISLANDS: 1992 TO 1996

[In thousands of dollars]

Direction of travel and island	1992	1993	1994	1995 2/	1996
Total	9,558,880	8,677,585	10,603,172	11,587,684	
Direction of travel:					
Westbound	5,577,260	5,120,468	6,253,033	6,499,424	
Eastbound	3,981,620	3,557,117	4,350,139	5,088,260	
Island:					
Oahu	5,525,217	4,870,071	6,107,237	(NA)	
Maui	2,221,593	2,126,709	2,531,596	(NA)	
Kauai	573,500	547,702	637,734	(NA)	
Hawaii	1,102,131	1,012,636	1,185,845	(NA)	
Molokai	78,917	68,227	68,334	(NA)	
Lanai	57,522	52,240	72,426	(NA)	

NA Not available.

1/ Unrevised estimates. The State totals were later revised (to \$9,738 million for 1990 and \$10,634 million for 1991) but estimates by islands were not corrected.

2/ Preliminary.

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, *Market Research Flash*, May 14, 1997; and records.

**Table 7.24-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES:
1985 TO 1995**

[In millions of dollars]

Year	Total	Visitors 1/	Overseas airlines 2/
1985	5,436.6	5,243.6	193
1986	6,296.1	6,103.8	192
1987	7,128.9	6,867.6	261
1988	8,813.8	8,528.1	286
1989	9,613.4	9,281.8	332
1990	10,109.2	9,738.6	371
1991	11,039.5	10,633.8	406
1992	10,020.1	9,558.9	461
1993	9,125.1	8,677.6	448
1994	11,035.7	10,603.2	433
1995 3/	11,485.5	11,037.9	448

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*, First Quarter 1996, p. 6.

Table 7.25-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1985 TO 1995

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	6,723.5	4,068.2	732.8	168.8
1993	9,125.1	6,122.9	3,704.8	669.6	163.0
1994	11,035.7	7,405.0	4,480.5	838.5	161.6
1995 3/	11,485.5	7,706.8	4,663.1	888.2	160.2

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*, First Quarter 1996, p. 7.

Table 7.26-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES: 1980 TO 1995

Year	Implicit price deflator 1/ (1982=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	88.9	47.28	211.08	41.00	81.0	89.8	83.0
1981	95.8	49.73	296.09	51.00	88.5	94.5	91.7
1982	100.0	51.78	328.10	48.00	95.5	98.4	97.2
1983	104.4	54.78	353.14	49.95	100.1	101.4	99.3
1984	108.9	59.25	353.14	49.95	104.5	100.2	103.5
1985	115.9	68.84	364.00	44.95	108.6	99.6	106.8
1986	120.8	73.20	364.00	46.95	111.4	99.8	109.4
1987	127.1	80.09	486.00	48.95	115.6	102.5	114.9
1988	135.4	87.94	494.00	48.95	121.0	106.8	121.7
1989	145.2	95.83	524.00	44.95	122.2	104.3	128.7
1990	155.9	102.10	560.00	54.95	128.0	107.0	138.1
1991	158.9	101.89	642.00	65.95	133.6	110.5	148.0
1992	161.2	105.59	400.00	69.95	137.8	114.2	155.1
1993	163.8	103.26	566.00	74.00	141.9	116.5	160.1
1994	165.5	105.46	566.00	74.00	146.4	118.7	164.5
1995	(NA)	110.27	596.00	74.00	149.2	117.5	168.1

NA Not available.

1/ For visitor and crew expenditures. From DBED, *Hawaii Gross State Product Accounts: 1958-1988* (June 1989), table 1-5, and records.

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*, 1980-1995.

4/ Regular fare, including taxes, as of July 1, by Hawaiian Airlines. From chronology in *Data Book*, 1984-1995.

5/ Honolulu CPI for all urban consumers, from U.S. Bureau of Labor Statistics.

Source: See above footnotes.

**Table 7.27-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES:
1991 TO 1996**

[In dollars. Years ended June 30]

Year	Income					Expenditures
	Total	State appropriations 1/	Private subscriptions	Advertising co-op 2/	Other 3/	
1991	23,314,843	21,187,561	1,891,791	(NA)	235,491	23,111,254
1992	18,397,713	16,381,210	1,848,301	(NA)	168,202	18,369,166
1993	18,236,219	16,231,593	1,896,613	(NA)	108,013	18,115,618
1994	24,795,443	22,638,211	2,056,916	(NA)	100,316	24,848,553
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

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.

Source: KPMG Peat Marwick LLP, *Hawaii Visitors Bureau, Financial Statements and Schedules* (annual); *Hawaii Visitors and Convention Bureau, Financial Statements and Schedules June 30, 1996 and 1995*.

**Table 7.28-- RETURNING RESIDENTS AND AVERAGE NUMBER ABSENT,
BY DIRECTION OF TRAVEL: 1990 TO 1996**

Year	Number returning			Average number absent		
	Total	Westbound	Eastbound	Total	Westbound	Eastbound
1990	444,200	378,640	65,560	17,970	14,400	3,570
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 1/	795,531	755,941	39,590	50,562	47,862	2,700
1996 1/	786,920	760,700	26,220	51,692	49,840	1,851

1/ Preliminary.

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

**Table 7.29-- CHARACTERISTICS OF HAWAII RESIDENTS RETURNING
FROM OUT-OF-STATE TRIPS, BY DIRECTION OF TRAVEL: 1992**

Subject	Total	Westbound	Eastbound
All returning residents	706,400	642,440	63,960
Purpose of trip:			
Pleasure	(NA)	302,000	(NA)
Meetings, conventions, incentive	(NA)	73,350	(NA)
Other business	(NA)	52,580	(NA)
Visit friends or relatives	(NA)	171,150	(NA)
Government or military	(NA)	42,740	(NA)
Attend school	(NA)	17,230	(NA)
Age:			
Under 10 years	(NA)	49,270	(NA)
10 to 19 years	(NA)	46,890	(NA)
20 to 29 years	(NA)	110,340	(NA)
30 to 39 years	(NA)	133,830	(NA)
40 to 49 years	(NA)	132,190	(NA)
50 to 59 years	(NA)	78,110	(NA)
60 years and over	(NA)	91,810	(NA)
Median (years)	(NA)	38.6	(NA)
Sex:			
Males	364,500	325,530	38,970
Females	341,900	316,910	24,990
Males per 100 females	106.6	102.7	155.9
Persons per party	1.56	1.59	1.25
Days absent:			
Median	10.5	10.1	15.0
Mean	19.2	18.8	23.6
Average number absent	37,080	32,960	4,120

NA Not available.

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

**Table 7.30-- PASSPORTS ISSUED BY THE HONOLULU PASSPORT AGENCY:
1992 TO 1995**

[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, and the Republic of the Marshall Islands]

Mailing address	1992	1993	1994	1995
Issued by Honolulu Office	43,709	55,696	58,527	60,149
Mailed to Hawaii addresses	30,975	38,870	40,047	41,638
Mailed outside the State	12,734	16,826	18,480	18,511

Source: U.S. Department of State, Honolulu Passport Agency, records.

Table 7.31-- PERFORMING ARTS, FOR OAHU: 1994-1995 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	250	1,519	965,053
Brigham Young University - Hawaii Campus	18	32	18,320
Diamond Head Theatre	12	147	41,723
Hawaii Pacific University (Hawaii Loa Campus)	2	28	1,975
Honolulu Department of Auditoriums, total	100	407	603,463
Dance	24	175	193,064
Classical concerts	29	49	42,859
Operas	4	20	34,313
Pop/rock shows	22	27	117,220
Stage shows	10	84	113,503
Other	11	52	102,504
Honolulu Theatre for Youth	9	431	139,193
Leeward Community College	74	178	77,167
Manoa Valley Theatre	8	158	19,696
U.S. Army Community Theatre	4	36	16,602
University of Hawaii at Manoa	23	102	46,914

Source: Hawaii State Department of Business, Economic Development & Tourism mail and telephone survey.

**Table 7.32-- SYMPHONY ORCHESTRA ACTIVITIES: 1985-1986 TO
1995-1996**

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
HONOLULU SYMPHONY ORCHESTRA				
1985-1986	80	137	208,370	3,053,257
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

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.

Source: Honolulu Symphony Society, records; Hawaii Symphony Orchestra, records.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1993 TO 1995**

[Calendar year data unless otherwise specified]

Island and cultural attraction	1993	1994	1995
OAHU			
Bernice P. Bishop Museum 1/	541,771	517,947	475,360
Byodo-In Temple	116,985	119,638	98,496
The Contemporary Museum	45,363	34,165	27,565
Damien Museum and Archives	12,000	13,096	13,551
Diamond Head State Monument 1/	60,000	66,000	(NA)
Foster Botanical Garden	65,000	66,500	65,242
Fred Ohrt Water Museum 1/	7,043	6,673	6,165
Halawa Shaft 1/	6,097	9,032	11,010
Halawa Xeriscape Garden 1/	10,563	13,425	12,474
Harold L. Lyon Arboretum	29,000	29,000	29,000
Hawaii Children's Museum 2/	50,000	16,362	-
Hawaii Maritime Center	79,824	74,106	(NA)
Hawaii Nature Center	1/ 48,000	1/ 39,000	44,511
Honolulu Academy of Arts 3/	235,260	260,162	277,771
The Honolulu Advertiser Gallery	29,300	28,000	20,000
Honolulu Zoo	742,000	755,860	715,014
Ho'omaluhia Botanical Garden	70,000	73,934	83,318
Iolani Palace State Monument 1/	71,000	74,000	71,190
Judiciary History Center	32,395	36,541	41,369
Mission Houses Museum	30,090	28,364	29,478
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center) 4/	137,479	144,667	119,331
National Memorial Cemetery of the Pacific	(NA)	(NA)	(NA)
Pacific Aerospace Museum	51,154	45,610	58,630
Paradise Park 5/	180,319	-	-
Polynesian Cultural Center	871,645	942,459	938,547
Puu o Mahuka Heiau State Monument 1/	2,000	2,000	(NA)
Queen Emma Summer Palace	29,790	27,836	32,324
Royal Mausoleum State Monument 1/	91,000	115,000	(NA)
Sea Life Park Hawaii	635,880	596,675	550,500
Senator Fong's Plantation and Gardens	92,524	99,518	93,704
Tropic Lightning Museum	8,531	9,208	9,524
Ulu Po Heiau State Monument 1/	3,000	2,000	(NA)
U.S. Army Museum, Ft. DeRussy	115,540	88,816	98,061
U.S.S. Arizona Memorial	(NA)	1,534,649	1,468,298
Visiting either Memorial or Visitor Center	1,460,149	1,462,391	1,381,181
Aboard non-landing tour boats	(NA)	72,258	87,117

Continued on next page.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1993 TO 1995 - Con.**

Island and cultural attraction	1993	1994	1995
OAHU - con.			
U.S.S. Bowfin Submarine Museum	185,380	174,503	172,105
University of Hawaii Art Gallery	55,000	50,000	50,000
Wahiawa Botanical Garden	30,000	31,599	14,448
Waikiki Aquarium 6/	123,791	120,885	421,306
Waimea Falls Park	470,215	433,497	420,000
Waipahu Cultural Garden Park	17,270	92,000	72,000
HAWAII			
Astronaut Ellison S. Onizuka Space Center	(NA)	20,775	17,452
Hawaii Tropical Botanical Garden	56,646	56,038	55,271
Greenwell Store Museum	5,000	6,000	6,000
Hawaii Volcanoes National Park 7/	2,494,908	2,498,785	2,476,710
Hulihee Palace	26,064	22,927	8/ 16,978
Kealahou Bay State Historical Park 1/	221,000	218,000	(NA)
Lapakahi State Historical Park 1/	155,000	336,000	(NA)
Lava Tree State Monument 1/	143,000	143,000	(NA)
Lyman House Memorial Museum	19,463	16,076	15,800
Panaewa Rainforest Zoo	80,390	71,606	75,563
Parker Ranch Historic Homes	15,255	16,117	14,778
Parker Ranch Visitor Center	17,226	17,121	14,690
Volcano Art Center 9/	100,100	90,000	75,000
Wailoa Center 1/	23,000	21,000	38,000
MAUI			
Alexander & Baldwin Sugar Museum	30,879	30,830	29,831
Halekii-Pihana Heiaus State Monument 1/	8,000	7,000	6,433
Hana Cultural Center	9,640	11,100	14,052
Hawaii Nature Center	(NA)	10,000	11,400
Iao Valley State Monument 1/	573,000	449,000	624,200
Kula Botanical Gardens	19,940	22,500	23,030
Lahaina Restoration Foundation	201,120	225,570	208,530
Baldwin Missionary Home Museum	50,420	57,020	53,600
Brig <i>Carthaginian</i>	59,800	72,400	65,160
Hale Pa'ahao (Old Lahaina Prison)	32,000	33,500	31,800
Hale Pa'i Printing House	4,900	5,050	8,430
Wo Hing Temple Museum	54,000	57,600	49,540
Maui Historical Society Bailey House Museum	(NA)	10,594	13,511
Maui Tropical Plantation	373,600	322,786	307,774

Continued on next page.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1993 TO 1995 - Con.**

Island and cultural attraction	1993	1994	1995
MAUI - con.			
Maui Zoological & Botanical Gardens 10/ Whale Center of the Pacific	56,000 409,086	62,000 400,000	60,000 504,061
KAUAI			
Grove Farm Homestead 11/ Ho'opulapula Haraguchi Rice Mill 12/ Kauai Museum	- - 15,696	2,709 - 27,255	3,007 - 23,565
Kilauea National Wildlife Refuge 13/ Kokee Natural History Museum	- 86,950	80,000 105,813	(NA) 115,813
National Tropical Botanical Garden 14/ Russian Fort Elizabeth State Historical Park 15/ Waioli Mission House 16/	(NA) 155,000 150	- 75,000 1,112	8,439 (NA) -
MOLOKAI			
Kalaupapa Settlement Molokai Ranch Wildlife Conservation Park Molokai Museum & Cultural Center (R. W. Meyer Sugar Mill)	6,486 2,155 3,905	4,047 1,903 4,060	6,729 1,891 (NA)

NA Not available.

1/ Years ended June 30.

2/ Closed May 1994. Will reopen as Children's Discovery Center.

3/ Includes Academy Theater (46,838 in 1993, 52,014 in 1994, and 49,378 in 1995).

4/ Different method of counting in 1995.

5/ Closed January 1, 1994.

6/ Years ended June 30. Closed for major renovation, October 19, 1992 to May 1, 1994.

7/ Kilauea Visitor Center and Jagger Museum are included in the total attendance at Hawaii Volcanoes National Park.

8/ Closed for repairs 3-1/2 months in 1995.

9/ Due to the federal shutdown, the Volcano Art Center Gallery was closed Nov. 16-19 (4 days) and Dec. 20-31 (12 days) in 1995.

10/ Closed permanently December 31, 1995.

11/ Closed September 11, 1992 to January 1994.

12/ Closed September 11, 1992 to 1996 due to reconstruction from Hurricane Iniki.

13/ Closed September 11, 1992 to May 12, 1994.

14/ The National Tropical Botanical Garden re-opened tours in April 1995.

15/ Years ended June 30. Attendance estimates reflect heavy use of restrooms by tour bus passengers.

16/ Closed September 11, 1992 to September 1993.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual mail and telephone survey of attractions.

Table 7.34-- NATIONAL PARKS: 1985 TO 1995

Year and area	Acreage, Dec. 31 1/			Visits
	Total	Federal	Non-federal	
1985	247,349	235,243	12,106	4,029,929
1986	247,349	235,565	11,784	4,736,281
1987	247,349	235,565	11,784	5,225,641
1988	247,349	235,624	11,725	5,198,428
1989	247,349	235,624	11,725	5,558,227
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
AREAS: 1995				
Hawaii Volcanoes National Park	207,643	207,643	-	2,476,710
Haleakala National Park	27,350	27,350	-	1,623,684
Pu'uhoonua o Honaunau National Historical Park	181	181	-	436,654
Kaloko-Honokohau National Historical Park	1,161	616	545	49,634
Pu'ukohola Heiau National Historic Site	100	60	40	236,051
U.S.S. Arizona Memorial 2/	12	12	-	1,391,191
Kalaupapa National Historical Park	10,902	23	10,879	(NA)

NA Not available.

1/ Data exclude the Olaa 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.

Source: U.S. Department of the Interior, National Park Service, Pacific Island System Support Office, records.

Table 7.35-- STATE PARKS AND HISTORIC SITES: 1984 TO 1994

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1984	74	24,751	979.1	19,406
1985	74	24,799	882.1	19,908
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
ISLANDS: 1993 1/				
Hawaii	18	1,373.5	275.2	7,160
Maui	9	330.8	37.9	2,284
Molokai	1	233.7	10.0	34
Oahu	31	9,090.8	318.5	2,094
Kauai	11	13,750.3	131.1	3,540
ISLANDS: 1994				
Hawaii	18	1,375.3	275.2	7,271
Maui	9	330.8	37.9	1,931
Molokai	1	233.7	10.0	36
Oahu	31	9,090.8	318.5	2,103
Kauai	10	13,759.8	130.6	2,919

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 7.36-- MAJOR STATE PARKS: 1993 AND 1994

[Parks having at least 700,000 recreation visits or 1,000 acres]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1993 1/			
Old Kona Airport State Rec. Area	103.7	20.4	1,418
Hapuna Beach State Rec. Area	61.8	21.5	1,362
Wailua River State Park	1,087.1	37.4	1,349
Wailuku River State Park	16.3	3.5	1,119
Akaka Falls State Park	65.4	6.0	890
Haena State Park	65.7	2.0	750
Waimea Canyon State Park	1,866.4	10.0	483
Kokee State Park	4,345.0	55.0	421
Kahana Valley State Park	5,256.5	26.0	84
Sacred Falls State Park	1,373.9	10.0	55
Na Pali Coast State Park	6,175.0	4.0	47
1994			
Hapuna Beach State Recreation Area	63.6	21.5	1,399
Old Kona Airport State Recreation Area	103.7	20.4	1,397
Wailua River State Park	1,096.6	37.4	1,144
Wailuku River State Park	16.3	3.5	1,077
Akaka Falls State Park	65.4	6.0	832
Wailoa River State Recreation Area	131.9	97.7	736
Waimea Canyon State Park	1,866.4	10.0	345
Kokee State Park	4,345.0	55.0	304
Kahana Valley State Park	5,256.5	26.0	88
Na Pali Coast State Park	6,175.0	4.0	80
Sacred Falls State Park	1,373.9	10.0	56

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 7.37-- ZOOS: 1992 TO 1995

Subject and zoo	1992	1993	1994	1995
Species: 1/				
Honolulu Zoo	265	264	276	289
Maui Zoological & Botanical Gardens 2/	23	30	32	32
Molokai Ranch Wildlife Conservation Park	11	11	9	(NA)
Panaewa Rainforest Zoo (Hilo)	57	52	54	54
Individuals: 1/				
Honolulu Zoo	1,171	1,252	1,369	1,353
Maui Zoological & Botanical Gardens 2/	88	109	114	119
Molokai Ranch Wildlife Conservation Park	632	680	682	(NA)
Panaewa Rainforest Zoo (Hilo)	169	144	156	182
Attendance:				
Honolulu Zoo	704,424	742,000	755,860	715,046
Maui Zoological & Botanical Gardens 2/	46,000	56,000	62,000	60,000
Molokai Ranch Wildlife Conservation Park 3/	3,894	2,155	1,903	1,891
Panaewa Rainforest Zoo (Hilo)	84,234	80,390	71,606	75,563

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.

Source: Data obtained by Hawaii State Department of Business, Economic Development & Tourism from Molokai Ranch Wildlife Conservation Park and the parks and recreation departments of the City and County of Honolulu and Counties of Hawaii and Maui.

Table 7.38-- AQUATIC COLLECTIONS: 1995

[For annual attendance, 1993-1995, see table 7.33]

Phylum or class	Sea Life Park, Dec. 31		Waikiki Aquarium, June 30	
	Species	Individuals	Species	Individuals
Total	251	7,112	359	1,846
Fishes	145	3,000	193	630
Reptiles	3	27	1	1
Mammals	1/ 6	1/ 68	3	3
Invertebrates	95	4,000	162	1,212
Birds	2	17	-	-

1/ Plus 2 hybrid dolphin/whales.

Source: Sea Life Park, records; Waikiki Aquarium, records.

**Table 7.39-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS:
DECEMBER 31, 1995**

Island	Total sites	Listed Hawaii Register only	Listed National Register only	Listed both Hawaii and National Register	Eligible for National Register 1/
State total	595	242	109	209	35
Hawaii	116	50	23	38	5
Maui	58	35	4	18	1
Kahoolawe	1	-	1	-	-
Lanai	2	-	-	2	-
Molokai	93	41	10	40	2
Oahu	246	80	67	77	22
Kauai	79	36	4	34	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-- COUNTY PARKS, BY ISLANDS: 1993 TO 1995

[As of December 31]

Island	Number			Acreage		
	1993	1994	1995	1993	1994	1995
State totals 1/	596	615	622	9,091	9,099	9,362
Hawaii 1/	133	134	135	1,309	1,332	1,361
Maui	100	118	118	1,105	1,122	1,231
Lanai	4	4	4	15	15	15
Molokai	13	13	13	73	73	73
Oahu	286	286	291	6,053	6,021	6,146
Kauai	60	60	61	536	536	536

1/ Revised.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from data provided by County parks and recreation departments.

Table 7.41-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1995

Beach park	Estimated attendance 1/	Rescues	Drownings	Surfing accidents
All parks	16,507,359	922	5	193
Ala Moana	1,353,530	56	-	4
Waikiki	6,951,083	133	2	56
Hanauma	1,722,851	148	1	8
Sandy	403,995	114	-	41
Makapuu	276,896	24	-	3
Bellows	83,317	7	-	-
Kailua	616,513	10	1	1
Kualoa	217,086	7	-	1
Waimanalo	199,534	22	-	6
Sunset	552,496	19	-	8
Ehukai	933,645	31	-	20
Ke Waena	174,424	10	-	5
Waimea	700,593	100	1	14
Alii	239,492	30	-	6
Nanakuli	461,711	50	-	3
Mali	387,839	22	-	-
Pokai Bay	545,803	26	-	-
Makaha	458,578	70	-	11
Keauwaula	227,973	43	-	6

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, Department of Parks and Recreation, Water Safety Division, records.

Table 7.42-- 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 7.43-- COUNTY TENNIS FACILITIES: 1994 AND 1995

[As of December 31]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Locations:							
1994	89	20	11	1	1	47	9
1995	88	20	11	1	1	46	9
Courts:							
1994	290	44	39	2	2	1/ 181	22
1995	286	44	39	2	2	1/ 177	22

1/ 122 lighted.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the County parks and recreation departments.

Table 7.44-- GOLF COURSES, BY NUMBER OF HOLES, OWNERSHIP, AND ISLANDS: EARLY 1996

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

1/ 1995 data for private courses.

Source: Compiled by Hawaii State Department of Business, Economic Development & Tourism from county departments of parks and recreation.

Table 7.45-- GOLF ROUNDS AND EXPENDITURES BY RESIDENTS AND VISITORS: 1994

Subject	All golfers	Residents	Visitors
Rounds played (millions)	4.8	3.7	1.1
Expenditures (million dollars)	327	205	122

Source: Coopers & Lybrand survey cited in *The Honolulu Advertiser*, March 27, 1995, pp. C1, C2.

**Table 7.46-- COUNTY GOLF COURSES AND CAMPING PERMITS,
FOR OAHU: 1990 TO 1995**

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

1/ By the City and County of Honolulu.

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

Table 7.47-- HAWAIIAN OPEN SCORES AND PURSES: 1991 TO 1996

[The Hawaiian Open is held at the Waialae Country Club golf course.
Distance is 6,975 yards; par is 72/288]

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

Source: *The Honolulu Advertiser*, February 11, 1996, p. C11, and February 19, 1996, p. D1.

**Table 7.48-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND
REFUGES, BY ISLANDS: OCTOBER 30, 1996**

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	58	1,020.8	18	520.5	9	80.6
Hawaii	27	748.4	1	32.7	4	79.5
Maui	8	91.4	3	0.7	1	0.1
Lanai	1	35.6	-	-	-	-
Molokai	1	20.0	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 7.49-- FISHING AND HUNTING LICENSES ISSUED: 1991 TO 1996

[Years ended June 30]

Type of license	1991	1992	1993	1994	1995	1996
Freshwater fishing	9,250	12,588	11,072	9,612	7,740	6,557
Hunting	10,529	10,685	10,683	1/ 11,073	10,863	10,969

1/ Revised.

Source: Hawaii State Department of Land and Natural Resources, Division of Conservation and Resources Enforcement and Division of Forestry and Wildlife, records.

**Table 7.50-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND
WINNING TIMES: 1991 TO 1996**

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

NA Not available.

Source: Honolulu Marathon Association, records; *Honolulu Star-Bulletin*, December 8, 1994, p. B-4, and December 13, 1994, p. D-3; *The Honolulu Advertiser*, December 12, 1994, pp. C1, C2, C3; *Honolulu Star-Bulletin*, December 11, 1995, p. C-1; Honolulu Marathon Records & Statistics, at <http://www.lava.net:80/~marathon/recstat.html>.

**Table 7.51-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP
PARTICIPANTS, FINISHERS, AND WINNING TIMES: 1991 TO 1996**

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

Source: Ironman Triathlon World Championship, records; October 7, 1995 race from JTL Timing Systems Hawaii at http://www.ilhawaii.net/~m_gleaf/results/ironman/95/overall.html; and October 26, 1996 race from JTL Timing Systems Hawaii at http://www.ilhawaii.net/~m_gleaf/results/ironman/96/overall.html.

**Table 7.52-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES
AND WINNING TIMES: 1985 TO 1995**

[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

Source: *The Honolulu Advertiser*, July 4, 1985, July 19, 1985, and July 10, 1989; *Honolulu Star-Bulletin*, July 13, 1993; Transpac Honolulu Committee, records; Hawaii State Department of Business, Economic Development & Tourism (DBEDT), Business Development Marketing Division, records; DBEDT Tourism Office, records.

Table 7.53-- WATER EVENTS AND PARTICIPATION, BY COUNTIES: 1994

County	Events	Event days	Participants	Participating craft
State total	484	819	112,106	8,415
Hawaii	76	138	23,269	1,572
Maui	72	120	13,931	739
Honolulu	302	514	67,477	5,566
Kauai	34	47	7,429	538

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, "Marine/Ocean Water Events Summary Report, January 1, 1994 to December 31, 1994."

**Table 7.54-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:
1991-1992 TO 1996-1997 SEASONS**

Bowl	1991- 1992	1992- 1993	1993- 1994	1994- 1995	1995- 1996	1996- 1997
Aloha Bowl	19,245	21,709	23,645	20,092	20,780	19,467
Hula Bowl	18,383	19,952	25,726	17,074	14,933	14,725
Pro Bowl	46,471	48,237	47,560	45,828	47,066	47,205

Source: Aloha Stadium, records.

**Table 7.55-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF
HAWAII AT MANOA: 1993-1994 TO 1995-1996**

[Includes only games played against four-year collegiate teams]

Sports	Games played 1/				Home games	
	Total	Won	Lost	Tied	Home dates	Attendance
1993-1994:						
Baseball	56	28	28	-	43	188,710
Basketball (men's)	33	18	15	-	16	92,166
Basketball (women's)	30	25	5	-	19	15,598
Football	12	6	6	-	8	326,454
Volleyball (men's)	28	14	14	-	12	8,305
Volleyball (women's)	30	19	11	-	19	30,506
1994-1995:						
Baseball	54	30	24	-	38	92,047
Basketball (men's)	29	16	13	-	17	143,763
Basketball (women's)	26	6	20	-	16	13,747
Football	12	3	8	1	8	306,989
Volleyball (men's)	23	18	5	-	23	45,916
Volleyball (women's)	30	25	5	-	18	72,652
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

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 7.56-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:
1993-1994 AND 1994-1995 SEASONS**

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
1993-1994:				
Baseball	Boys	424	73,500	383,500
Basketball	Boys and girls	1,056	141,000	628,000
Football	Boys	308	446,000	1,120,000
1994-1995:				
Baseball	Boys	456	76,500	400,500
Basketball	Boys and girls	1,116	144,500	635,000
Football	Boys	308	452,000	1,150,000

1/ Junior varsity and varsity games, based on published schedules from public school leagues. Data exclude pre-season and post-season games.

2/ Data on expenditures reflect figures from the general and school trust funds.

Source: Hawaii State Department of Education, Office of Instructional Services, records.

Table 7.57-- PROFESSIONAL BOXING: 1990 TO 1995

Year	Number of promoters	Number of shows	Paid attendance	Gross receipts (dollars)
1990	3	8	9,246	172,900
1991	4	8	6,431	179,987
1992 1/	2	1	300	4,500
1993	1	1	472	12,385
1994	3	6	8,022	191,150
1995	2	4	2,636	48,280

1/ Attendance and receipts are estimates.

Source: Hawaii State Department of Commerce and Consumer Affairs, Boxing Commission, records.

REVISED

Table 7.58-- DOG LICENSES ISSUED, BY ISLANDS: 1990 TO 1996

[Dogs are licensed on a biennial basis]

Year	State total	Hawaii	Maui 1/	Lanai	Molokai	Oahu	Kauai
1990	26,620	3,081	2,688	7	148	20,000	696
1991	26,325	3,992	2,370	17	60	19,000	886
1992	25,145	3,794	3,262	10	89	17,479	511
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

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 and 1996 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 and 1996).

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: 1996*, 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:
1984 TO 1996**

Subject	1984	1986	1988	1990	1992	1994	1996
Persons of voting age 1/ (1,000)	751	776	804	841	866	900	882
Percent casting votes for--							
Presidential electors	44.7	(X)	44.0	(X)	43.1	(X)	40.8
U.S. Representatives	36.7	42.7	42.3	40.5	41.4	39.3	40.0

X Not applicable.

1/ Resident population 18 years and over, including armed forces stationed in Hawaii. November estimates. Figures differs from the annual age estimates produced by the Federal-State Cooperative Program for Population Estimates and displayed in Table 1.24 of the present *Data Book*.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age, for States: November 1988," *Current Population Reports*, Series P-25, No. 1019, January 1988, "Projections of the Voting-Age Population, for States: November 1990," *Current Population Reports*, Series P-25, No. 1059, April 1990, and "Projections of the Voting-Age Population, Population for States: November 1992," *Current Population Reports*, Series P-25, No. 1085, April 1992, pp. 6 and 12; *Statistical Abstract of the United States: 1993*, p. 285; U.S. Bureau of the Census, "Projections of the Voting-Age Population, for States: November 1994," *Current Population Reports*, P25-1117, May 1994, pp. 9 and 18; *Statistical Abstract of the United States: 1996*, p. 288; U.S. Bureau of the Census, "Projections of the Voting-Age Population for States for the November 1996 Election" (microfiche, 1996).

**Table 8.03-- REPORTED VOTING AND REGISTRATION, BY SEX:
NOVEMBER 1994**

[Civilian noninstitutional population of voting age]

Sex	All persons (1,000)	Total registered			Total voted		
		Number (1,000)	Percent	Standard error	Number (1,000)	Percent	Standard error
Both sexes	833	429	1/ 51.5	1.78	383	2/ 46.0	1.78
Male	383	197	51.5	2.63	181	47.3	2.62
Female	450	232	51.5	2.42	202	44.8	2.41

1/ The U.S. percentage was 62.0. Hawaii ranked 49th among the 50 States.

2/ The U.S. percentage was 44.6. Hawaii ranked 26th among the 50 States.

Source: U.S. Bureau of the Census, reported voting and registration, November 1994 detailed work tables, table 4 (unpublished).

Table 8.04-- POPULATION OF VOTING AGE, ELIGIBLE VOTERS, REGISTERED VOTERS, AND VOTES CAST: NOVEMBER 1994

Subject	Number
Population 18 years and over (1,000)	900
Less: Nonresident armed forces and dependents (1,000)	74
Aliens and other ineligible adult civilians (1,000)	66
Eligible to vote (1,000)	760
Registered voters (1,000)	489
Percent of persons eligible	64.3
Votes cast (1,000)	377
Percent of persons eligible	49.6

Source: U.S. Bureau of the Census estimate of population 18 and over; Hawaii Department of Business, Economic Development & Tourism, Statistics Branch estimates of ineligible adult civilians; Office of the Lieutenant Governor, 1994 election results.

**Table 8.05-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND
GENERAL ELECTIONS: 1976 TO 1996**

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	70.7
1988: Sept. 17 1/	419,441	199,643	220,225	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	251,582	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
General elections:					
1976: Nov. 2	363,045	180,265	182,780	309,025	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	79.0
1982: Nov. 2	405,005	195,259	209,746	325,459	80.4
1984: Nov. 6	418,904	200,424	218,480	349,253	83.4
1986: Nov. 4	419,794	200,233	219,561	344,416	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

1/ Distribution by sex as of September 1, 1988, 16 days before the election.

Source: Office of Elections, *Result of Votes Cast, Primary and General Elections*, and records.

**Table 8.06-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND
GENERAL ELECTIONS, BY COUNTIES: 1996**

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total	531,892	257,616	274,276	275,548	51.8
Hawaii	69,530	33,445	36,085	38,648	55.6
Maui	55,819	27,211	28,608	20,461	36.7
Honolulu	377,287	182,726	194,561	199,195	52.8
Kauai	29,256	14,234	15,022	17,238	58.9
Overseas	-	-	-	6	-
GENERAL ELECTION					
State total	544,916	264,084	280,832	370,230	67.9
Hawaii	71,270	34,293	36,977	50,464	70.8
Maui	57,091	27,856	29,235	36,169	63.4
Honolulu	386,546	187,317	199,229	261,705	67.7
Kauai	30,009	14,618	15,391	21,816	72.7
Overseas	-	-	-	76	-

Source: Office of Elections, records.

**Table 8.07-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, SEPTEMBER 21, 1996**

Office, party, and candidate	Votes	Office, party, and candidate	Votes
U.S. HOUSE, DISTRICT 1		CITY & COUNTY OF HONOLULU MAYOR	
Democrat:		Nonpartisan:	
Abercrombie, N.	65,732	Harris, J.	94,846
Thompson, R.	25,905	Morgado, A.	56,241
Republican:		Fasi, F.	38,744
Swindle, O.	29,887	Hong, L.	1,502
Nonpartisan:		Bellows, B.	674
Duering, M.	635	Hirayasu, C.	513
Natural Law:		CITY & COUNTY OF HONOLULU PROSECUTING ATTORNEY	
Bedworth, N.	458	Nonpartisan:	
U.S. HOUSE, DISTRICT 2		Arakawa, D.	86,744
Democrat:		Carlisle, P.	59,096
Mink, P.	64,371	Yoshida, R.	41,805
Bunda, R.	33,886	COUNTY OF HAWAII MAYOR	
Kauhi, H.	4,071	Democrat:	
Bourgoin, D.	2,288	Yamashiro, S.	12,907
Collins, C.	2,069	Inouye, L.	9,619
Republican:		Isbell, V.	8,090
Pico, T.	7,887	Takahashi, K.	866
Bollinger, F.	4,705	Manning, V.	315
Casey, P.	2,470	Republican:	
Deluze, J.	1,627	Rath, J.	3,121
Nonpartisan:		Wright, G.	753
Crabbe, N.	832	Hawaii Green:	
Glazier, S.	261	Bonk, K.	824
Libertarian:		Nonpartisan:	
Keefe, J.	742	Adler, J.	235
Natural Law:		Libertarian:	
Toulon, A.	234	Anderson, A.	166

Source: Office of Elections, *1996 Primary and Special Election Statewide Summary Reports*.

**Table 8.08-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTIONS:
1986 TO 1996**

Year	Total votes cast	Democratic	Republican	Other parties	Nonpartisan	Invalid or blank
1986	281,352	235,559	44,304	-	1,023	466
1988	275,653	221,349	50,923	563	1,340	1,478
1990	275,333	221,829	48,570	974	3,858	1,203
1992	251,576	194,945	49,379	4,290	1,815	1,147
1994	309,700	212,270	58,316	2,960	2,045	1,714
1996	271,705	209,942	54,461	3,233	2,415	1,654

Source: Office of Elections, *Results of Votes Cast, Primary Elections, 1986-1996*, and records.

**Table 8.09-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTION,
BY COUNTIES: SEPTEMBER 21, 1996**

Party	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
Total votes cast	271,705	38,648	20,461	1/ 195,358	17,238
Democratic	209,942	32,379	15,545	146,450	15,568
Hawaii Green	1,173	901	208	61	3
Libertarian	1,227	267	195	708	57
Natural Law	833	30	30	756	17
Republican	54,461	4,351	4,219	44,563	1,328
Nonpartisan	2,415	585	121	1,584	125
Invalid	1,654	135	143	1,236	140

1/ Includes count of overseas ballots.

Source: Office of Elections, *Results of Votes Cast, Primary Election 1996*, and records.

**Table 8.10-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES
CAST, BY ISLANDS: NOVEMBER 5, 1996**

Island	Number of precincts	Registered voters	Votes cast	Percent voting
State total	328	544,916	370,230	67.9
Hawaii	56	71,270	50,464	70.8
Maui	36	52,437	33,014	62.9
Lanai	1	1,356	874	64.5
Molokai: Molokai District	4	3,210	2,213	68.9
Kalawao District	1	88	68	77.3
Oahu 1/	212	386,546	261,705	67.7
Kauai	17	29,891	21,727	72.7
Niihau	1	118	89	75.4

1/ Includes the Northwestern Hawaiian Islands as part of the 51st Representative District. Includes count of overseas ballots.

Source: Office of Elections, records.

Table 8.11-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 5, 1996

Age	Both sexes	Male	Female
All ages	544,916	264,084	280,832
18 or 19 years	10,233	4,804	5,429
20 to 29 years	86,655	41,322	45,333
30 to 39 years	110,293	52,967	57,326
40 to 49 years	122,105	59,523	62,582
50 to 64 years	112,396	54,870	57,526
65 years and over	103,226	50,598	52,628
Not reported	8	-	8

Source: Office of Elections, records.

**Table 8.12-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1986 TO 1996**

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	376,768	Akaka, D.	256,189	Hustace, M.	86,320	14,393
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
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

Continued on next page.

**Table 8.12-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1986 TO 1996 -- 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/)
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	254,780	-	-	-	-	6/ 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: Office of Elections, *Results of Votes Cast, General Elections, 1986-1996*, and records.

**Table 8.13-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, NOVEMBER 5, 1996**

Office, candidate and party 1/	County of Hawaii	County of Maui	City and County of Honolulu 2/	County of Kauai
U.S. HOUSE, DISTRICT 1				
Abercrombie, N. (D)	-	-	86,732	-
Swindle, O. (R)	-	-	80,053	-
Dueling, M. (N)	-	-	4,126	-
Bedworth, N. (NL)	-	-	1,295	-
U.S. HOUSE, DISTRICT 2				
Mink, P. (D)	29,248	22,074	44,185	13,671
Pico, T. (R)	14,057	9,526	28,061	4,085
Crabbe, N. (N)	1,770	1,081	4,241	631
Keefe, J. (L)	2,008	774	1,643	344
Toulon, A. (NL)	859	658	1,145	902
CITY & COUNTY OF HONOLULU, MAYOR				
Harris, J.	-	-	146,034	-
Morgado, A.	-	-	108,746	-
CITY & COUNTY OF HONOLULU, PROSECUTING ATTORNEY				
Carlisle, P.	-	-	132,576	-
Arakawa, D.	-	-	120,239	-
COUNTY OF HAWAII, MAYOR				
Yamashiro, S. (D)	19,807	-	-	-
Bonk, K. (G)	16,659	-	-	-
Rath, J. (R)	11,724	-	-	-
Anderson, A. (L)	393	-	-	-
Adler, J. (N)	391	-	-	-

1/ D, Democrat; G, Hawaii Green; L, Libertarian; N, Nonpartisan; NL, Natural Law; R, Republican.

2/ Includes counts of overseas ballots.

Source: Office of Elections, *1996 General Election County Summary Reports*.

**Table 8.14-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD
OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES:
NOVEMBER 5, 1996**

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total	87,298	40,136	47,162	52,102	59.7
Hawaii	13,928	6,260	7,668	8,944	64.2
Maui	9,668	4,461	5,207	5,632	58.3
Honolulu	58,965	27,176	31,789	34,300	58.2
Kauai	4,737	2,239	2,498	3,226	68.1

Source: Office of Elections, records.

Table 8.15-- CAMPAIGN EXPENDITURES: 1992 ELECTIONS

[Dollars. Table excludes national races. No report covering the 1994 elections has been published]

Election and office	All candidates	Democrats	Republicans	All others
Total	10,621,835	7,121,201	3,258,744	241,890
Election:				
Primary	5,541,266	4,452,337	1,027,952	60,978
General	4,357,777	2,065,221	2,126,734	165,821
Supplemental	722,792	603,643	104,058	15,091
Office:				
State Senator	1,695,057	1,371,720	307,166	16,171
State Representative	2,704,456	2,219,566	459,120	25,770
Mayor	4,600,915	2,286,098	2,281,408	33,408
Council member	1,477,081	1,243,817	211,050	22,214
Board of Education	43,935	-	-	43,935
Office of Haw'n Affairs	100,392	-	-	100,392

Source: Hawaii State Campaign Spending Commission, *Commission's Report of Campaign Receipts and Expenditures for the 1992 Elections*, p. 3.

**Table 8.16-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU:
1983 TO 1995**

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

Source: Neighborhood Commission, City and County of Honolulu, records.

**Table 8.17-- 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: Office of Elections, records.

Table 8.18-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1995 AND 1997

[As of January]

County	Total seats	Democrats		Republicans		Hawaii Green		Nonpartisan	
		1995	1997	1995	1997	1995	1997	1995	1997
All counties	34	17	16	7	7	1	-	9	9
Hawaii	9	4	5	4	4	1	-	-	-
Maui	9	7	6	2	3	-	-	-	-
Honolulu	9	-	-	-	-	-	-	9	9
Kauai	7	6	5	1	2	-	-	-	-

Source: Office of Elections, records.

Table 8.19-- LENGTH OF LEGISLATIVE SESSIONS: 1991 TO 1996

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	-

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 Sept. 20.

3/ Combined length for First Special Session (5 days) and Second Special Session (2 days).

Source: Legislative Reference Bureau, records.

**Table 8.20-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
1994 TO 1996**

Action	1994: Regular	1995			1996: Regular
		Regular	First Special	Second Special	
House bills:					
Carried over from previous year	1,908	-	-	-	2,179
Introduced	1,592	2,354	22	-	1,793
Passed 1/	211	175	20	-	200
Vetoed	7	39	-	-	17
Became law 2/	204	136	20	-	179
Senate bills:					
Carried over from previous year	1,795	-	-	-	1,799
Introduced	1,330	1,951	15	-	1,271
Passed 1/	92	152	15	-	145
Vetoed	9	44	1	-	10
Became law 3/	79	107	14	-	136
House resolutions:					
Offered	426	340	2	-	337
Adopted	144	138	2	-	112
House concurrent resolutions:					
Offered	490	342	-	-	345
Adopted	59	54	-	-	29
Senate resolutions:					
Offered	246	266	3	1	238
Adopted	116	118	3	1	71
Senate concurrent resolutions:					
Offered	290	309	-	-	289
Adopted	38	52	-	-	23

1/ Includes bills for constitution amendments: H.B. 2692, H.B. 3657, S.B. 2182, S.B. 2294, S.B. 2513, and S.B. 2515 in 1994, and H.B. 4142, S.B. 2211, and S.B. 3019 in 1996.

2/ The 1996 total includes H.B. 2800, which includes vetoed items.

3/ The 1996 total includes S.B. 659, which became law without the Governor's signature.

Source: Legislative Reference Bureau, records.

Section 9

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and county governments in Hawaii.

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 U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and 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: 1996*, Sections 9 and 10.

**Table 9.01-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1980 TO 1995**

[Thousands of dollars]

Year	All levels	Federal 1/	State and counties 2/		
			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	3,432,966	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	(NA)	4,461,739	(NA)	(NA)	(NA)

NA Not available.

1/ Fiscal years ended September 30.

2/ Fiscal years ended June 30.

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* and *1995*.

Table 9.02-- FEDERAL TAX COLLECTIONS, BY SOURCE: 1984 TO 1995

[In thousands of dollars. For fiscal year ended September 30]

Source	1984	1993	1994	1995
Federal collections	1,980,468	4,489,142	4,613,644	4,461,739
Corporate income and excess profits	180,576	339,372	389,484	371,960
Indiv. income and employment	1,744,863	4,009,669	4,060,861	3,968,349
Income tax not withheld & SECA 1/	304,221	879,235	873,167	834,124
Income tax withheld & FICA 2/	1,424,787	3,109,314	3,165,905	3,113,111
Railroad retirement	33	-	2	4
Unemployment insurance	15,822	21,120	21,787	21,110
Estate	20,373	71,433	85,516	55,593
Gift	1,046	5,517	6,995	4,817
Excise	33,610	63,151	70,788	61,020

1/ SECA Self employment insurance contributions.

2/ 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* and *1995*.

**Table 9.03-- STATE AND COUNTY TAX COLLECTIONS, BY
SOURCE: 1984 TO 1994**

[In thousands of dollars. For fiscal years ended June 30]

Source	1984	1992	1993	1994
Total State and county tax collections	1,674,816	3,432,986	3,544,211	3,732,906
State collections	1,331,551	2,772,322	2,829,710	2,991,811
General excise and use	639,630	1,295,431	1,303,584	1,332,891
Transient accommodations 2/	-	79,982	80,317	76,527
Fuel	54,909	128,275	130,450	135,918
Environmental response (FY94)	-	-	-	1,470
Liquor	-209	41,492	39,349	38,997
Tobacco	19,949	27,384	32,239	32,658
Insurance	26,606	60,382	66,869	63,726
Public service companies	59,559	82,255	86,229	92,292
Banks and other financial institutions	547	23,987	23,783	29,434
Corporate income 3/	36,431	43,781	29,344	38,995
Indiv. income, net income 4/	403,076	906,982	922,912	962,543
Inheritance and estate	6,652	16,416	11,771	28,120
Real property	(L)	-	-	-
Conveyance	1,797	4,020	3,760	7,665
Rental vehicle surcharge	-	6,482	20,914	20,366
Hospital and nursing home 5/	-	-	-	26,718
Licenses, permits, and others	6,307	10,733	12,558	14,913
Unemployment compensation	76,297	44,719	65,633	88,578
Other sources	-	-	-	-
County collections	343,265	660,662	714,501	741,096
Real property	289,114	556,460	603,821	624,815
Liquor licenses and fees	3,077	4,160	4,439	4,461
Utility franchise	16,967	20,938	21,194	25,181
Motor vehicle weight 6/	25,582	63,637	63,046	62,623
Licenses, permits, and others	8,526	15,466	22,000	24,015

L 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; less than \$1,000 in state collections for fiscal year 1981.

1/ Includes withholding, FICA, and individual income taxes.

2/ Effective January 1, 1987.

3/ Includes payments of estimated taxes less refunds.

4/ Includes withheld and estimated taxes less refunds.

5/ Hospital tax repealed in 1994.

6/ Includes State motor vehicle weight tax.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual), table 13.

**Table 9.04-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON
OAHU: 1972 TO 1992**

[In dollars. For underlying assumptions, see source]

Subject	1972	1990	1992
Total tax burden	5,862	25,817	30,156
Federal income	2,441	10,425	12,167
State income	837	4,073	5,097
Social Security	774	4,433	5,170
General excise	329	1,494	1,692
Real property	421	979	1,259
Employment 1/	670	3,764	4,033
Specific excise 2/	103	204	221
Automobile	287	445	517
Gross family income	18,952	73,888	84,760
After taxes	13,090	48,071	54,604

1/ Unemployment compensation, temporary disability insurance, and workers' compensation.

2/ Alcohol, tobacco, telephone, and bicycle.

Source: Tax Foundation of Hawaii, *The Tax Burden of the Arnie Aloha Family* (November 1973, September 1991, and March 1994).

Table 9.05-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF FOUR, BY INCOME LEVEL, FOR HONOLULU AND 51 MAJOR CITIES: 1994

Gross family income level	Honolulu		51-city median 1/	
	Taxes (dollars)	Percent of income	Taxes (dollars)	Percent of income
\$25,000	1,977	7.9	1,990	8.0
\$50,000	4,542	9.1	4,380	8.8
\$75,000	7,696	10.3	7,420	9.9
\$100,000	10,456	10.5	9,723	9.7

1/ Largest city in each state, including D.C.

Source: *Statistical Abstract of the United States: 1996*, p. 311.

Table 9.06-- STATE REVENUE RECEIPTS: 1993 AND 1994

[In thousands of dollars. Years ended June 30]

Source of revenues	1993: All funds	1994		
		All funds	General fund	Special funds
Total 1/	4,943,597	5,141,218	2,991,039	2,150,179
Tax revenues	2,727,431	3,000,067	2,745,887	254,180
General excise	1,298,134	1,330,239	1,329,739	500
Specific excises 2/	355,960	469,964	337,255	132,709
Individual income	923,372	969,108	969,108	-
Corporate income	27,201	36,840	36,840	-
Transient accommodations	4,192	3,895	3,895	-
Unemployment compensation	62,687	85,174	-	85,174
Other taxes, licenses, permits 3/	55,885	104,847	69,050	35,797
Fines, forfeits, and escheats	18,556	2,141,151	245,152	1,895,999
Federal grants-in-aid	906,283	17,407	15,343	2,064
Revenues from other agencies	23,676	938,322	10,913	927,409
Rents, royalties, land income 4/	93,644	33,440	9,038	24,402
Earnings: general departments	447,078	122,203	6,259	115,944
Earnings: auxiliary enter.	48,354	460,681	114,974	345,707
Earnings: public service enter.	394,990	52,415	-	52,415
Interest earned	182,828	230,326	-	230,326
Miscellaneous	100,757	152,172	55,991	96,181

1/ Excludes transfers and repayments except as shown.

2/ Includes public service companies, tobacco, liquor, insurance, vehicle registration and weight, and fuel taxes.

3/ Includes franchise, inheritance and estate, and conveyance taxes.

4/ Includes investment and unallocable interest income.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1995*, table 12.

Table 9.06-- STATE REVENUE RECEIPTS: 1993 AND 1994

[In thousands of dollars. Years ended June 30]

Source of revenues	1993	1994		
	All funds	All funds	General fund	Special funds
Total 1/	4,943,597	5,141,218	2,991,039	2,150,179
Tax revenues	2,727,431	3,000,067	2,745,887	254,180
General excise	1,298,134	3,000,067	2,745,887	254,180
Specific excises 2/	355,960	1,330,239	1,329,739	500
Individual income	923,372	469,964	337,255	132,709
Corporate income	27,201	969,108	969,108	-
Transient accommodations	4,192	36,840	36,840	-
Unemployment compensation	62,687	3,895	3,895	-
Other taxes, licenses, permits 3/	55,885	85,174	-	85,174
Fines, forfeits, and escheats	18,556	17,407	15,343	2,064
Federal grants-in-aid	906,283	938,322	10,913	927,409
Revenues from other agencies	23,676	33,440	9,038	24,402
Rents, royalties, land income 4/	93,644	122,203	6,259	115,944
Earnings: general departments	447,078	460,681	114,974	345,707
Earnings: auxiliary enter.	48,354	52,415	-	52,415
Earnings: public service enter.	394,990	230,326	-	230,326
Interest earned	182,828	152,172	55,991	96,181
Miscellaneous	100,757	134,185	32,634	101,551

1/ Excludes transfers and repayments except as shown.

2/ Includes public service companies, tobacco, liquor, insurance, vehicle registration and weight, and fuel taxes.

3/ Includes franchise, inheritance and estate, and conveyance taxes.

4/ Includes investment and unallocable interest income.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1995*, table 12.

**Table 9.07-- STATE OPERATING EXPENDITURES, BY FUNCTION:
1984 TO 1994**

[In thousands of dollars. For 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	1984	1993	1994
Total	2,150,467	5,354,055	5,636,091
General government: Control	46,029	112,319	113,666
Staff	82,102	335,287	366,848
Public safety: Police and fire	1,682	7,818	11,218
Other protection	71,662	169,237	176,163
Highways	49,041	109,089	125,105
Natural resources	17,172	43,042	42,560
Health and sanitation	72,631	193,085	186,710
Hospitals and institutions	114,557	282,110	331,924
Public welfare	328,400	777,641	831,575
Education: Higher	269,796	543,873	542,443
Public education	405,228	804,471	843,958
Libraries and other	21,233	51,098	46,352
Recreation	13,827	42,256	37,985
Utilities and other enterprises	76,990	312,462	286,438
Debt service 1/	213,293	436,795	460,258
Retirement and pension	126,006	219,055	275,168
Employees' health and hosp. insurance 2/	24,856	744	622
Unemployment compensation	78,278	236,598	243,985
Grants-in-aid to counties	18,173	1,725	2,375
Urban redevelopment and housing	84,412	108,174	142,609
Miscellaneous	25,111	117,342	112,760
Cash capital improvements	9,987	449,834	455,369

1/ Debt service on revenue bonds reimbursable from highway funds included under Highways; from airport and harbor funds under Utilities; from Sand Island receipts, land revolving trust, and Veterans' home loan funds under Miscellaneous.

2/ Reclassified into general government in fiscal 1984.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual), table 35.

**Table 9.08-- COUNTY OPERATING REVENUES, BY SOURCE, AND
EXPENDITURES, BY OBJECT: 1984 TO 1994**

[In thousands of dollars. For years ended June 30]

Subject	1984	1993	1994
OPERATING REVENUES 1/			
Total	564,434	1,216,295	1,309,286
Real property taxes	289,114	603,821	624,815
Other taxes	53,621	104,619	109,484
Licenses, fees, and fines	14,801	31,132	33,581
Departmental earnings 2/	67,562	169,609	201,048
State grants	24,617	98,300	100,070
Federal grants	92,073	125,040	129,216
Other sources	22,645	83,773	110,038
OPERATING EXPENDITURES 3/			
Total	561,830	1,197,883	1,302,988
General government: Control Staff	7,985 60,584	14,542 151,532	13,522 154,435
Public safety: Police and fire Other protection	120,659 23,294	236,371 37,907	237,778 38,485
Highways	27,601	43,458	43,378
Health and sanitation	46,172	131,851	128,494
Hospitals and institutions	93	-	-
Public welfare	9,213	35,907	41,121
Public schools	597	572	672
Recreation	39,085	76,602	77,406
Interest	21,552	79,641	87,386
Bond redemption	19,317	51,390	101,806
Pension and retirement	45,432	82,566	102,439
Salary adjustment	13	47	378
Economic and urban development 4/	21,568	25,358	27,926
Mass transit 5/	38,522	83,290	84,031
Miscellaneous	22,854	88,819	94,804
Cash capital improvements	57,291	58,029	68,926

1/ Excludes loan, bond, revolving, trust funds, and Board of Water Supply revenues.

2/ Includes rentals, interest, and other earnings.

3/ All funds expended by the county with the exception of certain bond, revolving, loan, and enterprise funds.

4/ Includes expenditures from redevelopment grants.

5/ Includes transfers to the bus transportation fund which are not reported as part of operating expenditures.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1995*, tables 24-27 and 36-39.

**Table 9.09-- COUNTY OPERATING REVENUES, BY SOURCE, AND
EXPENDITURES, BY OBJECT, BY COUNTIES: 1994**

[In thousands of dollars. For year ended June 30]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 1/				
Total	895,841	149,610	150,543	113,292
Real property taxes	427,534	79,327	89,537	28,417
Other taxes	81,993	11,333	10,667	5,490
Licenses, fees, and fines	25,748	4,435	2,389	1,009
Departmental earnings 2/	161,707	25,150	7,122	7,069
State grants	37,836	21,345	24,221	1,668
Federal grants	56,139	6,293	13,019	53,764
Other sources	104,884	1,728	2,552	875
OPERATING EXPENDITURES 3/				
Total	873,833	166,190	143,359	119,606
General government: Control	6,963	2,496	2,356	1,707
Staff	83,181	9,573	13,532	48,149
Public safety: Police and fire	158,210	27,620	40,397	11,551
Other protection	20,574	5,015	10,186	2,710
Highways	26,413	8,270	4,766	3,930
Health and sanitation	101,093	14,105	9,781	3,515
Public welfare	-	14,316	11,233	15,572
Public schools	-	258	290	123
Recreation	55,149	9,336	9,587	3,333
Interest	72,324	5,729	6,459	2,874
Bond redemption	87,225	6,468	4,923	3,190
Pension and retirement	70,860	11,442	14,024	6,113
Salary adjustment	-	-	-	378
Economic and urban development 4/	27,926	-	-	-
Mass transit 5/	82,943	-	1,088	-
Miscellaneous	63,266	12,306	11,543	7,689
Cash capital improvements	17,705	39,256	3,193	8,772

1/ Excludes loan, bond, revolving, trust funds, and Board of Water Supply revenues.

2/ Includes rentals, interest, and other earnings.

3/ All funds expended by the county with the exception of certain bond, revolving, loan, and enterprise funds.

4/ Includes expenditures from redevelopment grants.

5/ Includes transfers to the bus transportation fund which are not reported as part of operating expenditures.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1995*, tables 24-27 and 36-39.

**Table 9.10-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME
REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX
YEARS 1980 TO 1993**

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

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, 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 1992 AND 1993

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 (dollars)
1992					
All returns	569,334	18,398,690	483,020	2,471,607	5,117
Under \$15,000 2/	200,387	1,010,132	118,577	72,491	611
\$15,000 under \$30,000	153,208	3,344,521	149,489	297,950	1,993
\$30,000 under \$50,000	106,659	4,163,518	106,077	465,223	4,386
\$50,000 under \$75,000	65,433	3,968,807	65,276	499,288	7,649
\$75,000 under \$100,000	24,732	2,108,212	24,707	314,028	12,710
\$100,000 under \$200,000	14,712	1,910,698	14,697	357,333	24,313
\$200,000 or more	4,203	1,892,802	4,197	465,295	110,864
Median income	23,252	...	...	...	...
1993					
All returns	556,041	18,519,252	479,444	2,506,998	5,229
Under \$15,000 2/	184,798	948,179	113,021	69,046	616
\$15,000 under \$30,000	152,040	3,322,243	147,951	289,107	1,954
\$30,000 under \$50,000	107,290	4,189,701	106,698	460,957	4,320
\$50,000 under \$75,000	66,296	4,025,136	66,192	498,066	7,525
\$75,000 under \$100,000	25,859	2,204,034	25,842	321,993	12,460
\$100,000 under \$200,000	15,679	2,027,984	15,664	375,179	24
\$200,000 or more	4,079	1,801,975	4,076	492,650	120,866
Median income	24,197	...	...	...	...

1/ Filed in following year.

2/ Includes returns with adjusted gross deficit.

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin*, Fall 1994, p. 148, and *Spring 1995*, p. 132.

**Table 9.12-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX
RETURNS: TAX YEARS 1992 AND 1993**

Subject	Number of returns		Amount (\$1,000)	
	1992	1993	1992	1993
All returns and adjusted gross income (AGI)	569,334	556,041	18,398,690	18,519,252
Salaries and wages	477,557	474,647	14,174,357	14,397,486
Interest income	400,625	385,896	755,517	579,216
Dividends	119,955	124,184	325,698	335,762
Net capital gain (less loss)	57,262	60,976	547,399	629,945
Taxable pensions and annuities	89,556	87,875	1,186,795	1,217,301
Unemployment compensation	35,275	39,622	113,268	152,246
Itemized deductions	173,584	175,575	3,000,693	2,963,834
Taxable income	474,145	469,695	12,121,549	12,126,956
Tax liability	483,020	479,444	2,471,607	2,506,996
Earned income credit	37,486	39,586	31,185	35,792

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin, Fall 1994*, p. 148, and *Spring 1995*, p. 132.

Table 9.13-- INTERNAL REVENUE SERVICE OPERATIONS: 1991 TO 1995

Subject	1991	1992	1993	1994	1995
Internal revenue collections (\$1,000)	4,570,534	4,542,943	4,489,142	4,613,645	4,461,739
Individual income and employment taxes	3,972,434	4,003,114	4,009,669	4,060,861	3,968,349
Total number of returns filed	988,225	1,000,625	1,018,633	1,005,219	994,156
Individual income tax	550,180	563,865	658,089	554,871	553,326
Total number of returns filed electronically	(NA)	(NA)	(NA)	(NA)	(NA)
Individual income tax	19,589	30,902	31,741	35,013	29,077
Number of returns examined	3,027	3,627	3,930	3,216	4,171
Individual	1,980	2,283	2,667	2,543	3,660
Additional tax and penalties recommended after examination (\$1,000)	56,294	59,773	88,674	111,540	42,295
Individual	11,310	19,975	17,938	29,933	23,379
Costs incurred (\$1,000)	13,392	14,079	14,758	12,594	12,566

Source: Internal Revenue Service, *Annual Report, 1991, 1992, and 1993*, and the Internal Revenue Service *Data Book, 1993-94 and 1995*.

**Table 9.14-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1982 TO 1994**

Year income was received	Number of resident returns	Adjusted gross income 1/ (\$1,000)	Net 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

1/ Exclusive of losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals* (annual), and records.

Table 9.15-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1993, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (dollars)	Net taxable income (dollars)	Tax liability (dollars)
All resident returns	532,533	15,307,959,724	11,178,222,810	884,047,902
Taxable resident returns	428,834	15,097,652,503	11,178,222,810	884,047,902
Under \$5,000	36,623	115,387,172	44,981,219	1,231,700
\$5,000, under \$10,000	51,448	381,744,456	216,015,052	9,635,191
\$10,000, under \$20,000	88,055	1,323,142,840	934,884,596	58,138,710
\$20,000, under \$30,000	76,657	1,879,363,395	1,424,071,604	102,167,597
\$30,000, under \$40,000	46,985	1,632,393,261	1,229,506,323	93,912,728
\$40,000, under \$50,000	36,799	1,649,812,849	1,215,418,720	94,477,848
\$50,000, under \$75,000	53,882	3,250,765,191	2,364,746,162	191,246,398
\$75,000, under \$100,000	21,787	1,854,349,711	1,363,090,268	116,041,625
\$100,000, under \$150,000	10,643	1,253,815,403	955,494,001	84,683,019
\$150,000, under \$200,000	2,843	482,874,272	377,267,018	34,141,339
\$200,000 and over	3,112	1,274,003,953	1,052,747,847	98,371,747
Nontaxable resident returns	103,699	210,307,221	...	...
Loss	4,379	(97,180,668)	...	...
Under \$5,000	88,645	90,414,216	...	...
\$5,000, under \$10,000	6,980	49,118,638	...	...
\$10,000 and over	3,695	70,774,367	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, 1993*, table 1.

Table 9.16-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1994, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (dollars)	Net taxable income (dollars)	Tax liability (dollars)
All resident returns	545,715	15,951,730,499	11,317,977,964	923,601,137
Taxable resident returns	431,300	15,718,798,650	11,317,977,964	923,601,137
Under \$5,000	32,210	100,855,556	40,510,699	1,025,179
\$5,000, under \$10,000	48,189	357,862,925	202,989,105	9,103,960
\$10,000, under \$20,000	89,759	1,333,159,107	942,232,004	58,579,098
\$20,000, under \$30,000	78,679	1,937,613,149	1,469,126,499	106,002,986
\$30,000, under \$40,000	49,992	1,735,880,600	1,304,791,881	99,601,390
\$40,000, under \$50,000	35,712	1,587,486,017	1,155,941,553	90,333,474
\$50,000, under \$75,000	55,168	3,335,212,078	2,422,434,521	195,697,041
\$75,000, under \$100,000	22,446	1,913,490,135	1,391,810,143	118,524,287
\$100,000, under \$150,000	12,781	1,502,960,598	1,126,682,538	100,253,303
\$150,000, under \$200,000	2,782	476,367,977	369,395,244	33,482,143
\$200,000 and over	3,582	1,437,910,508	1,192,063,777	110,998,276
Nontaxable resident returns	114,415	232,931,849	...	...
Loss	5,895	(142,524,488)	...	...
Under \$5,000	96,154	92,954,068	...	...
\$5,000, under \$10,000	7,568	51,926,854	...	...
\$10,000 and over	4,798	88,050,927	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, 1994*, table 1.

**Table 9.17-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE
INCOME TAX RETURNS, BY TYPE OF RETURN, 1982 TO 1994, AND BY
COUNTIES, 1993 AND 1994**

[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	14,461	25,265	46,778	19,861
COUNTIES: 1993						
Honolulu	18,949	42,390	12,291	24,804	48,324	17,414
Maui	20,149	38,574	14,424	24,020	42,973	18,348
Hawaii	14,399	29,737	8,543	21,651	37,923	15,567
Kauai	17,232	33,233	10,927	22,202	37,820	15,786
COUNTIES: 1994						
Honolulu	19,709	42,768	12,593	26,460	50,213	20,536
Maui	19,386	37,286	13,835	23,719	42,638	19,293
Hawaii	13,313	30,933	7,383	22,075	37,791	16,566
Kauai	17,508	30,574	12,603	22,926	39,953	19,861

1/ Including single, married filing separately, and qualifying widows and widowers.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals* (annual).

**Table 9.18-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:
1995 AND 1996**

[In thousands of dollars. Data are on a cash basis accounting]

Source of revenue	Tax base		Tax collections	
	1995	1996	1995	1996
All sources	45,577,029	48,337,123	1,386,684	1,469,766
Sources taxed at 4 percent	31,614,089	33,703,303	1,264,564	1,348,132
Retailing	15,050,113	16,091,429	602,005	643,657
Services	5,351,079	5,618,027	214,043	224,721
Contracting	3,133,510	3,285,106	125,340	131,404
Theater, amusement, radio	233,843	246,232	9,354	9,849
Interest	209,127	208,969	8,365	8,359
Commissions	587,611	676,243	23,504	27,050
Hotel rentals	1,776,527	2,057,800	71,061	82,312
All other rentals	3,776,265	3,801,655	151,051	152,066
Use (4 percent)	461,210	478,411	18,448	19,136
All others (4 percent)	1,034,804	1,239,433	41,392	49,577
Sources taxed at other rates 1/	13,962,940	14,633,820	67,331	70,745
Insurance solicitors	709,607	692,623	1,064	1,039
Sugar processing	32,868	14,490	164	72
Pineapple canning	6,603	5,126	33	25
Producing	457,538	479,009	2,288	2,395
Manufacturing	614,771	622,889	3,074	3,114
Wholesaling	7,808,103	8,153,155	39,041	40,766
Services (intermediary)	264,193	292,250	1,321	1,461
Use (1/2 percent)	4,069,256	4,374,280	20,346	21,871
Unallocated net collections	-	-	54,789	50,889

1/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

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 BASE, RATE, AND COLLECTIONS:
1994 TO 1996**

Subject	1994	1995	1996
Cigarettes:			
Tax base (number sold) 1/	1,114,165,900	1,156,122,400	1,194,538,600
Tax rate (dollars per cigarette) 2/	0.03	0.03	0.03
Tax collections (dollars)	33,424,978	34,683,672	35,836,158
Other tobacco products:			
Tax base (wholesale value, in dollars) 1/	7,007,482	6,912,930	4,512,828
Tax rate (percent of wholesale value) 2/	40	40	40
Tax collections (dollars)	2,802,993	2,765,172	1,805,131

1/ Tax base is calculated as tax collections divided by the tax rate.

2/ As set by Act 220, SLH 1993, effective July 1, 1993. Before that date, all tobacco products were 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) and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.20-- LIQUOR TAX COLLECTIONS: 1989 TO 1996

[In thousands of dollars]

Year	Total	Year	Total
1989	41,501	1993	38,286
1990	42,094	1994	38,753
1991	40,125	1995	37,486
1992	40,983	1996	38,624

Source: Hawaii State Department of Taxation, "Liquor Tax Collections and Permits" (semi-annual release).

**Table 9.21-- REAL PROPERTY TAX VALUATIONS: ANNUALLY,
1985 TO 1996**

[Thousands of dollars. As of January 1. Government parcels assessed at \$1, 1985-1987,
and at 100 percent thereafter]

Year	Assessor's gross valuation 1/			Valuation for tax rate purposes
	Total	Land	Improvement	
1985	51,231,020	25,507,708	25,723,312	43,581,421
1986	52,814,463	26,442,872	26,371,591	45,222,885
1987	54,655,038	27,396,477	27,258,561	46,629,959
1988	67,628,063	36,730,370	30,897,693	50,219,249
1989	76,926,745	42,778,927	34,147,818	57,526,564
1990	99,942,540	61,554,968	38,387,572	71,080,524
1991	132,952,299	88,359,248	44,593,051	95,943,417
1992 1/	130,733,131	84,299,686	46,433,445	111,593,106
1993 1/	136,239,310	87,785,946	48,453,364	115,954,097
1994 1/	137,202,083	86,552,575	50,649,508	116,389,670
1995 1/	136,153,769	84,102,966	52,050,803	115,115,001
1996 1/	135,073,354	82,035,301	53,038,053	114,303,125

1/ Values shown for gross valuation exclude nontaxable properties (\$38,021,091,000 in 1992).

Source: Honolulu Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions* (annual).

**Table 9.22-- REAL PROPERTY TAX VALUATIONS FOR THE STATE,
1993 TO 1996, AND BY COUNTIES, 1996**

[In thousands of dollars]

Subject: State	1993	1994	1995	1996
Assessor's gross valuation 1/ Land	136,239,310 87,785,946	137,202,083 86,552,575	136,153,769 84,102,916	135,073,354 82,035,301
Improvement	48,453,364	50,649,508	52,050,803	53,038,053
Exemptions 1/	17,065,762	18,028,152	18,089,945	18,447,003
Assessor's net taxable valuation	119,173,548	119,173,931	118,063,824	116,626,351
Half of valuation on appeal	3,219,451	2,784,261	2,948,823	2,323,222
Number of appeals	6,073	7,753	8,658	6,172
Valuation for tax rate purposes	115,954,097	116,389,670	115,115,001	114,303,125
Land	78,643,050	77,591,215	75,496,496	74,076,214
Improvement	37,311,047	38,798,455	39,618,505	40,226,911
Amount to be raised by taxation 2/	632,442	620,751	605,004	593,983
Subject: 1996	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/ Land	101,039,709 63,707,960	15,270,102 8,025,956	12,361,649 6,673,504	6,401,894 3,627,881
Improvement	37,331,749	7,244,146	5,688,145	2,774,013
Exemptions 1/	14,054,455	1,561,084	1,968,821	862,643
Assessor's net taxable valuation	86,985,250	13,709,018	10,392,828	5,539,251
Half of valuation on appeal	1,874,212	234,881	113,588	100,541
Number of appeals	4,453	425	825	469
Valuation for tax rate purposes	85,111,038	13,474,137	10,279,240	5,438,710
Land	57,271,947	7,462,605	6,076,804	3,264,858
Improvement	27,839,091	6,011,532	4,202,436	2,173,852
Amount to be raised by taxation 2/	404,249	72,955	85,186	31,593

1/ Data exclude nontaxable properties.

2/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1995-1996 Tax Year, State of Hawaii* (July 1996), and earlier reports.

**Table 9.23-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE:
1995 AND 1996**

Type of exemption	1995		1996	
	Number	Amount 1/ (\$1,000)	Number	Amount 1/ (\$1,000)
All exemptions	218,062	39,776,382	223,644	39,229,169
Federal government	458	4,630,299	469	4,429,864
State government	7,307	11,597,953	7,524	10,784,678
County government	3,153	4,386,444	3,594	4,489,490
Government leases - Total	(NA)	(NA)	148	66,044
Government leases - Portion	296	300,848	108	21,310
Hawaiian Homes Commission 2/	1,234	228,776	1,665	271,244
Hawaiian Homes Land - Basic 2/	631	57,482	617	62,925
Hawaiian Homes Land - Multiple 2/	285	31,867	298	36,793
Hawaiian Homes Land - Total land 2/	2,407	452,172	2,619	514,710
Hawaiian Homes Land - Vacant land 2/	137	608	136	745
Hawaiian Homes - 7 Year 2/	248	47,687	282	57,930
Homes - fee (Basic)	89,459	3,569,934	91,884	3,780,593
Homes - fee (Multiple)	77,494	7,522,614	79,883	7,770,239
Homes - lease (Basic)	8,113	324,012	7,225	292,289
Homes - lease (Multiple)	5,924	577,962	5,670	551,522
Additional Home Exemption	1,531	57,780	1,539	59,312
Blind	456	12,088	476	12,514
Deaf	141	3,916	144	3,943
Leprosy	11	283	9	237
Totally Disabled	5,757	161,326	5,884	165,587
Totally Disabled Veterans	479	132,098	491	133,627
Cemeteries	110	40,019	111	42,524
Charitable organizations	846	959,078	888	1,019,167
Churches	1,431	1,375,304	1,448	1,379,457
Civil - Condemnation	70	124,048	58	19,913
Credit Unions	58	65,559	62	67,708
Crop Shelters	54	3,205	56	3,698
Foreign Consulates	10	22,922	10	22,924
Forest Reserve	7	4,119	7	4,119
Historic Residential Properties	67	53,533	71	55,779
Hospitals	81	504,873	77	546,976
Landscaping, Open-Space	53	27,209	50	22,010
Low-moderate income housing	1,100	870,165	1,257	936,834
Public utilities	794	816,240	790	786,881
Roadways and waterways	5,668	16,368	5,848	12,078
Schools	145	779,979	147	784,187

Continued on next page.

**Table 9.23-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE:
1995 AND 1996 - Con.**

Type of exemption	1995		1996	
	Number	Amount 1/ (\$1,000)	Number	Amount 1/ (\$1,000)
Setbacks	6	1,451	4	383
Slaughterhouse	1	807	2	2,605
Taro	(NA)	(NA)	53	27
Miscellaneous	45	15,354	44	16,303

NA Not available.

1/ Includes government parcels at actual value and exemptions on federal leases, if any.

2/ In 1995 edition, Hawaiian Homes Commission and Hawaiian Homes Land (basic, multiple, total land, 7-year, and vacant land).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1996-1997 Tax Year, State of Hawaii* (July 1996) and earlier reports.

**Table 9.24-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES:
1996**

[In thousands of dollars]

Land use class	Gross valuation, January 1, 1996 1/			Amounts to be raised by taxation, fiscal 1996-97
	Total	Land	Improvement	
All classes	135,073,354	82,035,301	53,038,053	593,983
Improved residential 2/	55,534,396	40,054,111	15,480,285	163,897
Apartment	26,986,282	10,221,213	16,765,069	95,702
Commercial	15,037,226	9,010,599	6,026,627	110,134
Industrial	7,565,951	5,314,982	2,250,969	59,446
Agricultural	5,162,313	3,675,581	1,486,732	41,385
Conservation	1,217,272	1,068,437	148,835	9,023
Hotel/resort	9,772,018	4,496,559	5,275,459	85,180
Unimproved residential 2/	2,454,660	2,188,419	266,241	9,501
Homeowner 3/	7,765,151	3,841,456	3,923,695	19,185
Single family 4/	1,771,084	1,189,145	581,939	7,360
Homestead 4/	1,807,001	974,799	832,202	4,191

1/ Excludes nontaxable properties.

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, 1996-1997 Tax Year, State of Hawaii* (July 1996).

Table 9.25-- MAJOR REAL PROPERTY TAXPAYERS, FOR THE CITY AND COUNTY OF HONOLULU: 1994

Taxpayer	Original debit 1/ (\$1,000)	Land area (acres)	Gross assessed value 2/ (\$1,000)
Top 20 real property taxpayers	101,540	68,285	15,741,002
Bishop Estate	22,954	24,696	5,480,905
Queen's Medical Center et al	9,918	2,205	1,327,597
Kyo-Ya Co., Ltd.	6,729	14	700,137
Hilton Hawaiian Village Jt. Vent.	6,662	19	691,108
James Campbell Trust Estate	5,879	17,435	869,498
Samuel M. Damon Trust Estate	5,862	3,973	707,074
Liliuokalani Trust	5,615	36	832,064
Dole Food Co.	3,529	17,106	548,987

1/ As of July 1, 1994.

2/ Land and improvements. As of January 1, 1994.

Source: City and County of Honolulu, Real Property Assessment Division, Administration/Technical Branch, records.

**Table 9.26-- RESIDENTIAL PROPERTY TAX RATES IN HONOLULU AND
51 MAJOR CITIES: 1991 TO 1994**

Subject	Effective tax rate per \$100 1/		
	1991	1992	1994
Median city 2/	1.47	1.49	1.60
Honolulu	0.37	0.30	0.33
Rank	51	51	51

1/ Adjusted to 100-percent assessment level. The Honolulu level in 1994 was 93.4 percent.

2/ Largest city in each state, including D.C.

Source: Data from D.C. Department of Finance and Revenue cited in *Statistical Abstract of the United States* for 1993 (p. 316), 1995 (p. 313), and 1996 (p. 311).

**Table 9.27-- REAL PROPERTY TAX RATES, BY COUNTIES:
1996**

[Dollars per \$1,000 net taxable value]

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential	3.12	4.75	8.50	1/ 4.93
Unimproved residential	3.92	4.75	10.00	(NA)
Apartment	3.52	4.75	10.00	7.99
Hotel/resort	9.64	8.00	10.00	7.99
Commercial	8.51	6.50	10.00	7.99
Industrial	8.51	6.50	10.00	7.99
Agricultural	9.00	4.75	10.00	7.39
Conservation	9.00	4.75	10.00	7.89
Homeowner	(NA)	3.50	4.45	(NA)
Homestead	(NA)	(NA)	(NA)	4.04
Improvement:				
Improved residential	3.92	4.75	8.50	1/ 3.94
Unimproved residential	3.92	4.75	8.50	(NA)
Apartment	3.52	4.75	8.50	7.59
Hotel/resort	9.64	8.00	8.50	7.59
Commercial	8.51	6.50	8.50	7.59
Industrial	8.51	6.50	8.50	7.59
Agricultural	9.00	4.75	8.50	3.94
Conservation	9.00	4.75	8.50	3.94
Homeowner	(NA)	3.50	4.45	(NA)
Homestead	(NA)	(NA)	(NA)	3.18

NA Not available.

1/ Single family residential.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1996-1997 Tax Year, State of Hawaii* (July 1996).

Table 9.28-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1996

[Millions of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Amount	Fiscal year	Amount	Fiscal year	Amount
1968	848	1978	2,507	1988	4,957
1969	988	1979	2,659	1989	5,422
1970	964	1980	3,151	1990	5,461
1971	1,075	1981	3,811	1991	6,162
1972	1,173	1982	3,505	1992	6,497
1973	1,435	1983	4,054	1993	7,052
1974	1,644	1984	4,232	1994	7,603
1975	2,060	1985	4,568	1995	7,529
1976	2,162	1986	4,643	1996	8,016
1977	2,066	1987	4,759		

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), *Federal Outlays in Hawaii* (annual report, 1968-1976) and *Geographic Distribution of Federal Funds in Hawaii* (annual report, 1977-1980); U.S. Bureau of the Census, *Federal Expenditures by State* (annual report, 1981-1996), and <http://www.census.gov/prod/2/gov/fes96.pdf>.

**Table 9.29-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES:
FISCAL YEARS 1991 TO 1996**

[Millions of dollars. For fiscal years ended September 30]

Type of expenditure	1991	1992	1993	1994	1995	1996
All categories	6,162	6,497	7,052	7,603	7,529	8,016
Grants to State and local governments	739	839	984	1,088	1,162	1,126
Salaries and wages	2,318	2,369	2,385	2,498	2,310	2,409
Direct payments for individuals	2,216	2,456	2,732	2,898	3,111	3,238
Procurement	761	695	743	905	777	1,027
Other direct expenditure	128	138	208	213	169	217
Department of Defense	2,936	2,893	2,928	3,196	2,899	3,259
Other federal agencies	3,226	3,604	4,123	4,407	4,631	4,758

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1996 (FES/96*, April 1997) tables 1 and 10, corresponding data in earlier reports, and <http://www.census.gov/prod/2/gov/fes96.pdf>.

Table 9.30-- PER CAPITA FEDERAL EXPENDITURES IN THE UNITED STATES AND HAWAII, BY TYPES: FISCAL YEARS 1995 AND 1996

[For fiscal years ended September 30]

Category	Per capita federal expenditures			
	United States (dollars)	Hawaii (dollars)	Hawaii as percent of U.S.	Hawaii rank 1/
1995				
All categories	5,160.55	6,386.29	123.8	5
Grants to State and local governments	866.47	985.19	113.7	15
Salaries and wages	636.41	1,949.47	306.3	2
Direct payments for individuals	2,714.26	2,638.61	97.2	31
Procurement	765.31	659.26	86.1	20
Other direct expenditure	178.10	143.76	80.7	32
Department of Defense	857.56	2,458.54	286.7	2
All other Federal agencies	4,302.99	3,927.75	91.3	39
1996				
All categories	5,179.84	6,770.65	130.7	5
Grants to State and local governments	845.47	950.77	112.5	15
Salaries and wages	630.66	2,034.27	322.6	2
Direct payments for individuals	2,784.05	2,734.41	98.2	27
Procurement	745.15	867.73	116.5	11
Other direct expenditure	174.52	183.46	105.1	19
Department of Defense	863.14	2,752.30	318.9	2
All other Federal agencies	4,316.71	4,018.34	93.1	36

1/ Out of 50 States. Including the District of Columbia, Hawaii ranked sixth for the all-categories total.

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1995* (September 1996), and *1996* (April 1997), tables 8, 10, and 12; <http://www.census.gov/prod/2/gov/fes96.pdf>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 9.31-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN
HAWAII, BY COUNTIES: FISCAL YEARS 1995 AND 1996**

[Millions of dollars. Fiscal years ending September 30]

County	All agencies	Department of Defense	All other agencies
1995			
State total 1/	7,450.0	2,900.6	4,549.3
City and County of Honolulu	5,934.5	2,776.7	3,157.7
Hawaii County	498.7	32.8	465.9
Kauai County	243.9	55.9	188.0
Maui County	357.2	35.2	322.0
State undistributed	415.7	0.0	415.7
1996			
State total 1/	7,990.3	3,258.1	4,732.1
City and County of Honolulu	6,347.6	3,100.0	3,247.6
Hawaii County	575.1	41.1	534.0
Kauai County	258.4	63.0	195.4
Maui County	375.8	54.1	321.7
State undistributed	433.4	0.0	433.4

1/ Figures differ somewhat from those in tables 9.28 and 9.29, because of the treatment of Federal grants to State and local governments. In those tables, figures represented actual expenditures; in this table, Federal grants generally represent obligations and include payments to State and local governments, and grants to nongovernmental recipients (see source, pp. vii and viii).

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report, Fiscal Year 1995: County Areas* (June 1996), pp.14-15 and *Fiscal Year 1996* (April 1997) pp.14-15.

**Table 9.32-- PUBLIC BONDED DEBT OF STATE AND COUNTY
GOVERNMENTS: 1980 TO 1994**

[In millions of dollars. As of December 31]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0
1983	2,545.4	2,235.8	219.5	19.0	52.1	19.0
1984	2,715.7	2,391.5	221.0	33.5	50.9	18.8
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

1/ Outstanding state and county bonds, both general obligation and revenue bonds.
Source: Tax Foundation of Hawaii, *Government in Hawaii*, table 52 (annual).

Table 9.33-- STATE GENERAL OBLIGATION BOND DEBT: 1990 TO 1995

[In dollars. As of June 30]

Year	Debt	Year	Debt
1990	2,026,100,383	1993	2,767,691,114
1991	2,274,846,114	1994	2,872,487,644
1992	2,328,546,114	1995	2,934,964,789

Source: Hawaii State Department of Accounting and General Services, records.

Table 9.34-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 1994

[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 3/	111,850	3/ 31,250	65,000	15,600	26,731	61,082
1995	3/ 111,400	3/ 31,050	63,950	16,450	(NA)	60,687
1996	110,150	31,250	62,250	62,250	(NA)	(NA)

NA Not available.

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.

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 9.35-- STATE CIVIL SERVICE: 1992 TO 1994

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions]

Subject	1992	1993	1994
Civil service employees, June 30	22,920	24,267	26,731
Department of Education	5,495	5,767	6,460
Department of Health	5,353	5,357	6,560
Department of Human Services	1,911	2,037	2,284
Department of Transportation	2,201	2,335	2,408
University of Hawaii	1,662	1,826	1,859
All others	6,298	6,945	7,160
Separations	2,074	1,975	1,819
Promotions	902	1,015	1,148
Transfers, demotions, and returns after promotions	958	979	848
Classification and related actions 1/	13,828	12,278	10,579
Applications received 2/	35,364	30,112	29,654
Applicants screened 2/	35,491	29,655	26,365
Applicants placed on eligible list 2/	12,982	11,007	9,046
Vacancies filled by competitive and noncompetitive actions	3,589	2,639	2,446
Grievances filed	321	221	280

1/ Starting in 1994, excludes certain delegated actions.

2/ Beginning in 1993, certain classes were totally delegated to the department.

Source: Hawaii State Department of Human Resources Development, records.

**Table 9.36-- STATE AND LOCAL EMPLOYMENT AND PAYROLLS:
1982 TO 1995**

[October data]

Subject	1982	1987	1991	1992	1993	1994	1995
Full-time and part-time employment	59,164	63,102	74,821	76,982	(NA)	(NA)	(NA)
State	46,574	49,945	60,311	61,786	(NA)	(NA)	(NA)
Local	12,590	13,157	14,510	15,196	(NA)	(NA)	(NA)
Full-time equivalent employment	49,457	54,506	64,390	64,539	66,125	67,487	65,458
State	37,742	41,185	50,758	50,657	51,787	53,109	51,371
Local	11,715	12,321	13,632	13,882	14,338	14,378	14,087
Full-time equivalent employment per 10,000 population	498	503	567	556	567	573	555
Percent of U.S. rate	106	101	108	106	109	107	104
State	380	390	447	437	442	451	436
Local	118	114	120	120	123	122	120
Payrolls (\$1,000)	82,544	103,886	159,078	172,235	177,668	17,881	175,297
State	62,490	77,939	122,319	130,808	136,626	136,824	133,366
Local	20,054	25,947	36,758	41,427	41,042	42,057	41,931
Average earnings of full-time employees (dollars)	1,662	1,955	2,533	2,661	(NA)	(NA)	(NA)
Percent of U.S. rate	105	94	102	102	(NA)	(NA)	(NA)
State	1,645	1,897	2,474	2,554	(NA)	(NA)	(NA)
Local	1,716	2,139	2,734	3,031	(NA)	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *Public Employment* (annual report), and <http://www.census.gov/ftp/pub/govs/apes/...txt>, and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 9.37-- EMPLOYMENT, BY TYPE, IN THE HAWAII STATE EXECUTIVE
BRANCH: 1995**

Type of employment	Total	Department of Education	Other departments
AS OF MARCH 31			
Civil service and exempt 1/	47,052	19,125	27,927
Full time	42,894	17,041	25,853
Part time	4,158	2,084	2,074
Full-time equivalent	44,145	18,106	26,039
Paid casual employees 2/	19,588	13,889	5,699
AS OF DECEMBER 31 3/			
Civil service and exempt 1/	44,993	18,617	26,376
Full time	40,450	16,664	23,786
Part time	4,543	1,953	2,590
Full-time equivalent	42,724	17,671	25,053
Paid casual employees 2/	17,297	12,125	5,172

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.

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 is currently on the payroll.

3/ Technical correction, February 9, 1996.

Source: Hawaii Department of Human Resources Development, *Hawaii State Government Workforce Profile 1995* (February, 1996), p. 7.

Table 9.38-- STATE AND COUNTY GOVERNMENT WORKER UNIONS: 1995

[In units and dollars]

Bargaining unit	Union	Job category	Number of members (as of 12/95)	Current annual pay: minimum	Current annual pay: maximum
		Total	53,431	15,456	93,601
1	UPW	Blue-collar nonsupervisors	8,917	19,000	35,724
2	HGEA	Blue-collar supervisors	828	21,540	50,736
3	HGEA	White-collar nonsupervisors	11,874	15,456	77,100
4	UPW	White-collar supervisors	605	15,456	77,100
5	HSTA	Hawaii State Teachers Assn.	11,707	23,656	50,606
6	HGEA	Educational officers	748	41,358	93,601
7	UHPA	University of Hawaii faculty	3,229	28,226	84,645
8	HGEA	Administration & professional technicians	1,254	22,825	84,711
9	HGEA	Registered professional nurses	1,262	29,952	64,260
10	UPW	Institutional health & corrections workers	2,496	17,556	44,232
11	HFFA	Firefighters	1,605	25,668	60,732
12	SHOPO	Police officers	2,421	27,240	67,980
13	HGEA	Professional & scientific workers	6,485	21,996	80,256
1, 4, & 10	UPW	Subtotal	9,522	15,456	77,100
2, 3, 6, 8, 9, & 13	HGEA	Subtotal	21,197	15,456	93,601

Source: *The Honolulu Advertiser*, "Status of State Labor Contract Talks," January 5, 1997, p. A1; Hawaii Labor Relations Board; Hawaii Department of Human Resources Development; and unions.

**Table 9.39-- SALARIES OF SELECTED GOVERNMENT OFFICIALS:
1976 TO 1996**

[Annual rates, in dollars, as of January 1]

Government official	1976	1990	1994	1995	1996
Governor	50,000	94,780	94,780	94,780	94,780
Lieutenant Governor	45,000	90,041	90,041	90,041	90,041
Mayor, Honolulu	44,903	84,725	100,000	100,000	100,000
Mayor, Hawaii	43,644	63,792	76,848	76,848	76,848
Mayor, Maui	36,070	80,000	87,098	87,098	87,098
Mayor, Kauai	34,000	58,500	69,969	73,118	73,118
Chief Justice, Supreme Court	47,500	94,780	94,780	94,780	94,780
Associate Justice, Supreme Court	45,000	78,500	93,780	93,780	93,780
President, University of Hawaii	45,000	95,000	150,000	153,000	156,060

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.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, land controlled by the Department of Defense (DOD), military housing, and expenditures by the armed forces. Additional information appears in sections 1, 2, 12, and 23.

The Hawaii State Department of Business, Economic Development & Tourism (DBEDT) has compiled periodic reports on military personnel and dependents since 1959. Other published sources include reports of the U.S. Department of Defense, U.S. Bureau of the Census, Administrator of Veterans Affairs, and the Hawaii State Department of Labor and Industrial Relations and 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-1988, for example, the number of armed forces in Hawaii was reported as 45,843 by DOD, 56,815 by the Bureau of the Census, and 64,053 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: 1996* 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 preservice 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; 1970-1994 from U.S. Department of Defense, Defense Manpower Data Center, records.

**Table 10.02-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES:
1980 TO 1996**

[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	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	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

1/ Ship crews living ashore are included with the total ashore.

Source: Hawaii State Department of Business, Economic Development & Tourism (DBEDT), annual survey of local commanding officers. Air Force and Marine Corps data for 1993 partly estimated. For 1980-96, DBEDT, *Military Personnel and Dependents in Hawaii*, 1995 and 1996 (forthcoming).

**Table 10.03-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES,
BY SERVICE AND ISLAND: JULY 1, 1995 AND 1996**

[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. As of July 1]

Island and service	Personnel and dependents	Military personnel				Living aboard ship	Dependents in Hawaii	Military families
		Ashore and afloat	Living ashore					
			In hsg. units	In barracks				
1995								
State total	92,490	45,971	30,139	13,700	2,132	46,519	21,700	
By island:								
Oahu	91,974	45,700	29,891	13,677	2,132	46,274	21,593	
Hawaii	59	41	41	-	-	18	7	
Maui	48	25	25	-	-	23	15	
Kauai	409	205	182	23	-	204	85	
By service:								
Air Force	11,589	4,684	4,128	556	-	6,905	3,075	
Army	36,958	18,448	12,744	5,704	-	18,510	8,152	
Coast Guard	3,060	1,500	1,324	100	76	1,560	700	
Marine Corps	11,212	6,198	2,039	4,159	-	5,014	2,252	
Navy	29,671	15,141	9,904	3,181	2,056	14,530	7,521	
1996								
State total	98,356	43,019	27,890	12,567	2,562	55,337	24,667	
By island:								
Oahu	97,867	42,811	27,711	12,538	2,562	55,056	24,531	
Hawaii	105	42	42	-	-	63	30	
Maui	77	29	29	-	-	48	19	
Kauai	307	137	108	29	-	170	87	
By service:								
Air Force	11,303	4,801	4,059	742	-	6,502	3,136	
Army	37,504	15,827	10,894	4,933	-	21,677	8,965	
Coast Guard	3,174	1,429	1,224	76	129	1,745	748	
Marine Corps	11,091	5,876	2,197	3,679	-	5,215	2,849	
Navy	35,284	15,086	9,516	3,137	2,433	20,198	8,969	

Source: Hawaii State Department of Business, Economic Development & Tourism, *Military Personnel and Dependents in Hawaii, 1995 and 1996* (forthcoming).

**Table 10.04-- DEPARTMENT OF DEFENSE PERSONNEL AND
DEPENDENTS: 1989 TO 1996**

[As of September 30. Excludes Coast Guard]

Year	Active-duty shore-based military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel 3/
1989	45,935	54,724	20,246
1990	41,887	51,727	19,857
1991	44,092	50,006	18,978
1992	44,864	47,671	17,893
1993	42,958	45,612	17,341
1994	42,161	39,989	4/ 17,038
1995	38,172	58,788	17,179
1996	36,392	57,786	16,824

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.

4/ Revised.

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 <http://web1.whs.osd.mil/mmid/mo1/fy96>.

**Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND
DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1995 AND 1996**

Category	All services	Army	Navy	Air Force	Marine Corps
1995					
Total	96,960	43,433	31,224	11,091	11,212
Military personnel 1/ Dependents 2/	38,172 58,788	16,672 26,761	10,738 20,486	4,564 6,527	6,198 5,014
1996					
Total	94,178	42,993	29,169	10,941	11,075
Military personnel 1/ Dependents 2/	36,392 57,786	15,225 27,768	10,643 18,526	4,571 6,370	5,953 5,122

1/ Active duty. Data exclude personnel afloat or temporary shore-based. Approximately 5,600 Navy military personnel in an "afloat" status have Hawaii as their operating location.

2/ Dependents of active-duty military personnel.

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, 1995* and at <http://web1.whs.osd.mil/mmid/m02/m02city.htm>, *September 30, 1996* and at <http://web1.whs.osd.mil/military/309A996.htm> and <http://web1.whs.osd.mil/mmid/m01/fy96/sms41ar.htm>.

Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1994

Installation or geographic area	Total DOD	Military personnel 1/	Civilian personnel 2/
State total	59,199	42,161	17,038
Aiea	523	311	212
Barbers Point NAS	3,085	2,671	414
Camp H. M. Smith	730	705	25
Ford Island	121	101	20
Fort Shafter	3,013	1,189	1,824
Hickam AFB	4,805	3,515	1,290
Honolulu	604	322	282
Kaneohe	6,720	6,187	533
Kauai Island	272	115	157
Kunia	600	551	49
Lualualei	425	175	250
Pearl City 3/	-	-	-
Pearl Harbor	15,710	6,942	8,768
Schofield Barracks	17,219	16,248	971
Tripler Army Medical Center	3,052	1,890	1,162
Wahiawa	597	482	115
Wheeler AFB	1,073	628	445
Other	650	129	521

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.

3/ Included for comparability. Pearl City is not listed in the FY94 report but it is listed in the FY95.

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, 1994* and at <http://web1.whs.osd.mil/mmid/m02/m02city.htm>.

Table 10.07-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1995

Installation or geographic area	Total DOD	Military personnel 1/	Civilian personnel 2/
State total	54,071	36,892	17,179
Aiea	706	490	216
Barbers Point NAS	1,433	1,048	385
Camp H. M. Smith	752	723	29
Ford Island	225	214	11
Fort Shafter	3,043	1,365	1,678
Hickam AFB	4,801	3,597	1,204
Honolulu	758	283	475
Kaneohe	6,021	5,511	510
Kauai	271	117	154
Kunia	634	581	53
Lualualei	405	157	248
Pearl City	116	2	114
Pearl Harbor	15,059	6,446	8,613
Schofield Barracks	12,416	11,218	1,198
Tripler Army Medical Center	2,919	1,641	1,278
Wahiawa	591	467	124
Wheeler AFB/Army Field	3,364	2,941	423
Other	557	91	466

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, *Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1995* and at <http://web1.whs.osd.mil/diorhome.htm>.

Table 10.08-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SELECTED LOCATIONS: SEPTEMBER 30, 1996

Installation or geographic area	Total DOD	Military personnel 1/	Civilian personnel 2/
State total	51,238	34,414	16,824
Aiea	766	544	222
Barbers Point NAS	1,316	927	389
Camp H. M. Smith	(3/)	(3/)	(3/)
Ford Island	(3/)	(3/)	(3/)
Fort Shafter	2,878	1,120	1,758
Hickam AFB	4,898	3,733	1,165
Honolulu	(3/)	(3/)	(3/)
Kaneohe	5,916	5,329	587
Kauai Island	(3/)	(3/)	(3/)
Kunia	808	751	57
Lualualei	(3/)	(3/)	(3/)
Pearl City	(3/)	(3/)	(3/)
Pearl Harbor	14,256	6,240	8,016
Schofield Barracks	11,332	10,014	1,318
Tripler Army Medical Center	2,807	1,482	1,325
Wahiawa	(3/)	(3/)	(3/)
Wheeler AFB	2,995	2,607	388
Others not available separately 3/	3,266	1,667	1,599

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.

3/ Personnel at all facilities will be available in the 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, 1996*, forthcoming.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports at <http://web1.whs.osd.mil/mmids/103/96hi.htm>.

Table 10.09-- NATIONAL GUARD STRENGTH: 1990 TO 1996

[Actual strength as of late June for 1990-1995, late November for 1996]

Service	1990	1991	1992	1993	1994	1995	1996
Total	5,711	5,632	5,628	5,632	5,611	5,668	5,415
Air National Guard	2,124	2,078	2,128	2,241	2,131	2,310	2,386
Army National Guard	3,587	3,554	3,500	3,391	3,480	3,358	3,029

Source: Hawaii State Department of Defense, records.

**Table 10.10-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND
NAVY: ANNUAL AVERAGES, 1990 TO 1996**

Service	1990	1991	1992	1993	1994	1995	1996
Total	19,350	18,850	18,100	17,450	16,850	16,750	16,800
Air Force	2,300	2,250	2,200	2,150	2,000	2,100	2,050
Army	5,600	5,400	4,800	4,600	4,600	4,450	4,950
Navy	11,450	11,200	11,100	10,700	10,250	10,200	9,800

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book*, May 1997, p. 11; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.11--ACTIVE-DUTY RECRUITMENT IN HAWAII AND THE PACIFIC,
BY BRANCH OF SERVICE: 1992 TO 1996**

[By fiscal year]

Branch of Service	1992	1993	1994	1995	1996
Air Force 1/	(NA)	(NA)	(NA)	265	362
Army 2/	254	278	323	379	403
Marine Corps	(NA)	(NA)	(NA)	53	80
Navy: Hawaii	117	119	128	159	200
Navy: Guam	43	50	73	82	126

NA Not available.

1/ Total includes Hawaii, Alaska, Guam, American Samoa, and other Pacific islands, Americans in Asia.

2/ Total includes Hawaii, Guam, American Samoa, and other Pacific islands, Americans in Asia.

Source: *Honolulu Star Bulletin*, January 2, 1997, pp. A-1 and 11.

**Table 10.12-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM:
1993 TO 1996**

[In thousands of dollars. Fiscal years ended September 30. Net value of Department of Defense prime contracts over \$25,000]

Procurement program 1/	1993 2/	1994	1995	1996
Total	631,020	803,297	673,640	928,480
Airframes and spares	-	-	-	39
Aircraft engines and spares	-	-	-	89
Other aircraft equipment	164	-	34	67
Missile and space systems	6,592	7,975	20,452	6,088
Ships	11,615	22,049	23,789	18,140
Electronics and communication equipment	24,888	25,855	26,485	30,838
Petroleum	56,939	26,056	34,574	33,633
Containers and hauling equipment	-	-	1,039	-
Textiles, clothing, and equipage	-	-	75	124
Building supplies	559	811	747	584
Subsistence	15,322	13,121	11,544	8,436
Production equipment	30	26	-	-
Construction	272,165	484,046	318,231	513,290
Medical and dental supplies and equipment	1,091	1,876	1,245	6,255
Photographic supplies and equipment	79	39	45	-
All other supplies and equipment	21,153	23,891	34,841	55,974
Services	220,423	197,551	200,537	253,294

1/ Procurement programs with no expenditures for the 1993-96 period are: Combat vehicles, Non-combat vehicles, Weapons, Ammunition, Other fuels and lubricants, and Transportation.

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.
DEPARTMENT 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**

Geographic area	All services	Air Force	Army	Coast Guard	Marine Corps	Navy
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

Source: Hawaii State Department of Business, Economic Development & Tourism, *Statistical Report 230, Housing Unit Estimates for Hawaii, 1980-1995* (September 1996).

**Table 10.15-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:
1970 TO 1994**

Veteran status	Civilian males		All civilians 1/		
	1970	1980	1980	1990	1994
Civilians 16 and over	223,573	316,651	665,036	801,517	(NA)
Veterans	89,098	98,633	103,774	119,256	116,000
War Veteran	75,026	82,230	85,322	87,301	86,000
Persian Gulf War	-	-	-	-	5,000
Vietnam era	20,548	36,441	38,136	41,860	42,000
Korean conflict	20,006	21,860	22,351	22,362	21,000
World War II	34,486	31,170	32,156	32,551	28,000
World War I	2,501	824	854	132	(Z)
Peacetime veterans only	14,072	16,403	18,452	31,955	30,000
Nonveterans	134,475	218,018	561,262	682,261	(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; and 1990 Census of Population tapes tabulated by Hawaii State Data Center; *Statistical Abstract of the United States: 1996*, p. 362.

**Table 10.16-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1994 AND 1995**

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
1994				
Department of Defense	13,408	12,144	17,981	1,481
Army	5,426	4,846	6,522	1,346
Navy	3,747	3,407	5,286	1,552
Marine Corps	910	817	1,391	1,703
Air Force	3,325	3,074	4,781	1,555
Coast Guard 3/	245	232	417	1,797
1995				
Department of Defense	13,778	12,459	18,659	1,498
Army	5,568	4,952	6,741	1,361
Navy	3,851	3,504	5,526	1,577
Marine Corps	918	817	1,413	1,729
Air Force	3,441	3,186	4,979	1,563
	13,778	12,459	18,659	1,498
Addendum 3/:				
Department of Transportation 3/	251	240	442	1,842
Coast Guard 3/	251	240	442	1,842

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 1994 DOD Statistical Report on the Military Retirement System* (1995), p. 20 and *ibid: FY 1994* (1996).

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: 1996* presents comparable national data.

Table 11.01-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES: 1986 TO 1996, MONTHLY AVERAGES

[Years ended June 30]

Year	Financial assistance programs 1/		Average monthly financial assistance payments 2/ (dollars)		Service cases 3/	Medical payments: recipients 4/
	Cases	Recipients	Per case	Per recipient		
1986	21,119	56,140	368.25	138.67	7,186	12,710
1987	19,531	50,954	367.00	140.86	7,402	13,858
1988	18,394	48,108	414.00	158.00	7,217	13,731
1989	18,851	49,389	473.00	181.00	6,108	16,829
1990	19,891	51,696	505.00	195.00	5,846	18,773
1991	20,772	53,327	524.00	204.00	(NA)	18,744
1992	23,217	59,206	542.00	213.00	(NA)	20,532
1993	26,295	66,263	557.00	221.00	10,218	22,680
1994	30,236	74,711	566.00	229.00	14,509	25,518
1995	32,966	80,947	565.88	230.46	(NA)	(NA)
1996	33,232	81,774	554.37	225.29	(NA)	(NA)

NA Not available.

1/ Old age assistance, aid to the blind, aid to disabled, aid to families with dependent children (AFDC), AFDC unemployed parents, AFDC foster care, and general assistance, excluding SSI recipients.

2/ Gross obligation basis.

3/ Social services include adoption, alcohol and drug, chore, daycare, employment, family planning, foster care, health, homemaker, family adjustment, protection, and residential rehabilitation type of services.

4/ Ineligible for money assistance, receiving medical assistance only.

Source: Hawaii State Department of Human Services, DHS Obligations Report, HMSA MR65 report; and Social Services printout.

Table 11.02-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES, BY COUNTIES: 1995 AND 1996, MONTHLY AVERAGES

[Years ended June 30]

Year	Financial assistance programs 1/		Average monthly financial assistance payments 2/ (dollars)	
	Cases	Recipients	Per case	Per recipient
1995				
Hawaii	7,038	17,759	583.97	231.43
Maui	2,395	6,120	573.13	224.29
Honolulu	22,242	53,710	558.37	231.23
Kauai	1,291	3,358	583.15	224.19
1996				
Hawaii	6,989	17,869	576.67	225.55
Maui	2,431	6,319	572.54	220.26
Honolulu	22,491	54,070	544.11	226.33
Kauai	1,321	3,516	577.51	216.98

1/ Old age assistance, aid to the blind, aid to disabled, aid to families with dependent children (AFDC) AFDC unemployed parents, AFDC foster care, and general assistance, excluding SSI recipients.

2/ Gross obligation basis.

Source: Hawaii State Department of Human Services, DHS Obligations Report.

Table 11.03-- SELECTED SOCIAL WELFARE EXPENDITURES: 1984 TO 1994

[Thousands of dollars. Years ended June 30. Covers expenditures by the Hawaii State Department of Human Services in selected categories]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Admin- istration	Medical payments 1/	Money payments	Social service costs
1984	335,986	148,902	187,084	35,482	185,730	107,508	7,266
1985	294,406	127,052	167,354	33,604	145,559	103,611	11,632
1986	328,804	147,865	180,939	41,637	175,887	98,738	12,541
1987	314,025	141,185	172,840	37,899	172,966	91,909	11,251
1988	341,573	150,412	191,161	35,445	196,270	98,294	11,564
1989	375,992	169,142	206,850	39,315	207,059	114,620	14,998
1990	433,862	198,515	235,347	49,350	235,901	134,350	14,261
1991	485,240	210,593	274,647	52,813	267,295	145,199	19,933
1992	573,466	259,382	314,084	36,121	353,089	162,316	21,940
1993	822,778	300,983	521,795	42,330	547,539	183,785	49,124
1994	731,006	298,946	432,060	41,040	427,528	211,705	50,733

1/ These amounts are for benefits provided to both the Medicaid only recipients and financial assistance recipients under the major programs. Effective 1990, medical payments' administrative costs are included in total administration costs.

Source: Hawaii State Department of Human Services, DHS Fiscal Accounting records.

**Table 11.04-- FINANCIAL ASSISTANCE PAYMENTS AND CASES:
1993 AND 1994**

[Years ended June 30]

Program	Total yearly payments (\$1,000)		Cases (monthly average)		Average monthly payment (dollars)	
	1993	1994	1993	1994	1993	1994
All programs	247,059	280,837	41,266	46,133	499	507
Old age assistance 1/	22,600	25,404	6,315	6,967	298	309
Aid to the blind 1/	742	721	171	161	362	371
Aid to disabled 1/	46,106	48,903	9,222	9,966	417	412
Aid to families with dependent children 2/	138,515	158,373	17,875	19,921	646	662
Child welfare foster care	5,255	5,551	887	941	494	492
General assistance	33,841	41,885	6,796	8,177	415	427

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent.

Source: Hawaii State Department of Human Services, DHS Obligations FY report; Social Security Bulletin, tables 2.A8 and 2.A9; DHS Foster Care and PW5 Service for Kids report.

Table 11.05-- FOOD STAMP PROGRAM: 1993 TO 1996

[Years ended June 30]

Subject	1993	1994	1995	1996
Households, total participating (monthly averages)	42,175	48,142	53,855	58,028
Receiving food stamps and financial assistance	23,581	27,139	30,037	30,238
Receiving only food stamps	18,585	21,003	23,818	27,790
Persons, total participating (monthly averages)	99,571	111,409	122,121	129,430
Receiving food stamps and financial assistance	66,074	74,511	81,680	82,735
Receiving only food stamps	33,498	36,898	40,441	46,695
Value of food stamps given to recipients (\$1,000)	126,789	147,149	171,642	191,797

Source: Hawaii State Department of Human Services, HAWI Food Stamp Program Monthly Summary.

**Table 11.06-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE,
RACE, AND SEX: 1994 AND 1995**

[December data. Based on 10-percent samples]

Age, race, and sex	1994	1995
Total	161,840	166,020
Age:		
17 years or under	9,870	10,270
18 to 64 years	27,290	27,980
65 to 69 years	37,730	37,160
70 to 74 years	36,480	37,370
75 years or older	50,470	53,240
Race:		
White	41,790	42,310
Black	2,290	2,930
Other	116,490	119,530
Beneficiaries other than children:		
Men	67,210	68,470
Women	82,380	84,910

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1995 and 1996, table 5.J5 in each.

Table 11.07-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT: 1994 AND 1995

[December data. Based on 10-percent samples]

Type of benefit	Number of OASDI beneficiaries		Amount of monthly benefits (\$1,000)	
	1994	1995	1994	1995
Total	161,840	166,020	101,506	107,600
Retirement program:				
Retired workers	113,240	116,050	1/ 77,737	2/ 82,250
Spouses	10,730	10,810	3,534	3,690
Children	2,980	2,710	866	820
Survivor program:				
Widows, widowers, and parents	15,610	16,860	9,608	10,090
Children	6,110	6,360	2,921	3,080
Disability program:				
Disabled workers	9,380	10,040	6,186	6,930
Spouses	630	820	107	100
Children	3,160	3,570	547	640
Age 65 and over	124,680	127,770	82,558	87,291
Men	55,490	56,680	42,183	44,450
Women	69,190	71,090	40,375	42,840

1/ Average monthly benefit was \$686.50; median was \$687.50.

2/ Average monthly benefit was \$708.80; median was \$710.00.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1995 and 1996, tables 5.J2, 5.J3, 5.J4, 5.J6.

**Table 11.08-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT
STATUS, BY COUNTIES: 1994 AND 1995**

[December data]

Year and county	Number of OASDI beneficiaries		Amount of monthly benefits (\$1,000)	
	Total	Age 65 and over	Total	Age 65 and over
1994				
State total 1/	162,463	124,813	101,717	82,720
Hawaii	22,835	16,365	14,145	10,964
Honolulu	114,850	89,825	71,869	59,177
Kalawao	105	90	61	54
Kauai	8,805	6,765	5,514	4,507
Maui	15,660	11,635	9,995	7,930
Unknown	210	120	121	77
1995				
State total 1/	166,089	127,698	107,660	87,455
Hawaii	23,587	16,805	15,097	11,615
Honolulu	117,397	91,930	76,094	62,631
Kalawao	10	10	3	3
Kauai	9,032	6,955	5,854	4,771
Maui	16,056	12,000	10,606	8,436
Unknown	7	5	5	6

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 1994 and 1995, tables 4 and 5.

**Table 11.09-- SOCIAL SECURITY BENEFICIARIES AND BENEFITS PAID:
1990 TO 1995**

Year	Number of beneficiaries, December	Monthly benefits, December (\$1,000)	Annual benefits paid (million dollars)
1990	148,522	79,859	893
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

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement, 1996*, tables 5.J1, 5.J2, and 5.J4, and corresponding data in earlier reports.

**Table 11.10-- MEDICARE BENEFICIARIES ENROLLED AND BENEFIT
PAYMENTS: 1994 AND 1995**

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments 1/ (\$1,000)	
	1994	1995	1994	1995	1994	1995
Hospital and/or medical insurance	145,429	149,475	134,840	138,305	531,779	580,455
Hospital insurance	143,882	148,272	133,293	137,102	-	-
Supplementary medical insurance	136,123	139,606	126,679	129,754	-	-
Hospital and medical insurance (both)	134,576	138,403	125,132	128,551	-	-

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 11.11-- 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 11.12-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM:
1990 TO 1995**

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)
1990	53,509	20,495	3,854,809	244,568	826	2,067,028
1991	55,604	21,199	4,127,366	274,849	875	2,297,960
1992	57,401	21,787	4,551,348	284,194	933	2,446,107
1993	59,518	22,387	4,987,341	309,245	987	2,274,981
1994	61,082	22,905	5,416,206	331,393	1,039	2,875,676
1995	60,687	25,360	5,599,698	408,206	1,121	2,896,684

1/ State and county employees. Includes former vested employees but excludes all pensioners.

2/ Book value.

3/ Year ended June 30. Data on total benefits paid exclude the employers' share of social security contributions.

Source: Employees' Retirement System of the State of Hawaii, *Comprehensive Annual Financial Report*, and records.

Table 11.13-- 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 11.14-- FOUNDATIONS: SEPTEMBER 1992

Subject	Limited to Hawaii	Not limited to Hawaii	Unclassified
Number of foundations	106	1	44
Assets:			
Number reporting	105	1	43
Amount (\$1,000)	496,060	1,312	12,559
Total giving:			
Number reporting	105	1	43
Amount (\$1,000)	24,786	50	812

Source: The Foundation Center, Foundations Directory, September 1992.

Table 11.15-- UNEMPLOYMENT INSURANCE: 1986 TO 1996

[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				
1986	447,667	8,900	37	347.06	56,391	140.16	14.3
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	46	492.94	144,741	235.48	14.8
1993	542,333	13,227	55	503.02	165,877	246.31	17.6
1994	540,015	15,228	44	514.13	193,878	258.72	17.4
1995	535,640	15,219	48	518.88	208,316	262.21	16.0
1996	(NA)	15,351	41	(NA)	200,050	261.07	17.8

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book, 1997*; *Labor Force Data Book* (annual); and records.

Table 11.16-- CHILD DAY CARE SERVICES (SIC 835) WITH PAYROLL, BY FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA: 1987, 1992 AND 1994

[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
1994						
State total	161		(NA)		1,614	
Oahu	120		(NA)		1,329	
Neighbor Islands	41		(NA)		285	

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 1994, Hawaii*, CBP-94-13 (September 1996), tables 1b and 2.

**Table 11.17-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS:
1993 AND 1994**

[Thousands of dollars]

Year and island	Total revenues	Contributions	Total outlays	Agency allocation
1993				
Total reported	19,167	17,837	18,634	14,655
Aloha United Way (Oahu)	15,989	14,686	15,400	12,208
Hawaii Island United Way	1,248	1,229	1,228	900
United Way of Kauai.	800	796	702	542
Maui United Way	1,086	1,082	1,259	971
Friendly Isle United Way (Molokai)	44	44	45	34
1994				
Total reported	18,899	17,290	17,695	13,787
Aloha United Way (Oahu)	15,662	14,106	14,452	11,450
Hawaii Island United Way	1,275	1,250	1,219	900
United Way of Kauai	625	614	696	521
Maui United Way	1,282	1,273	1,288	888
Friendly Isle United Way (Molokai)	55	47	40	28

Source: Aloha United Way, *Annual Reports*; Hawaii Island United Way, Inc., *Financial Statements* and records; Friendly Isle United Way, records; United Way of Kauai, records; Maui United Way, records.

Table 11.18-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE AND HONOLULU METROPOLITAN STATISTICAL AREA: 1992 TO 1997

Area, authority, and year of publication	Number of areas ranked	Hawaii or Honolulu rank
State:		
Morgan Quitno, 1992	50	6
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
Honolulu MSA:		
<i>Money</i> , 1992	300	7
<i>Money</i> , 1993	300	124
<i>Money</i> , 1994	300	155
<i>Money</i> , 1995	300	102
<i>Money</i> , 1996	300	88

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 1996 and earlier issues.

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: 1996*.

REVISED 3/19/98

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, 1993 AND 1994

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
1993				
Civilian noninstitutional population	854	405	449	46
Civilian labor force	583	305	277	19
Percent of population	68.2	75.4	61.8	41.7
Employment	558	292	266	17
Percent of population	65.4	72.0	59.4	36.0
Unemployment	25	14	11	3
Rate 1/	4.2	4.5	3.9	13.9
Not in civilian labor force	271	100	172	27
1994				
Civilian noninstitutional population	856	402	453	55
Civilian labor force	583	298	284	26
Percent of population	68.1	74.1	62.8	47.3
Employment	547	277	270	22
Percent of population	64.0	68.9	59.6	39.3
Unemployment	35	21	14	4
Rate 1/	6.1	7.1	5.0	16.9
Not in civilian labor force	273	104	169	29

1/ Percent of civilian labor force. The 1994 error ranges for these rates, at the 90-percent confidence level, are: both sexes, 5.4-6.8; men, 6.0-8.1; women, 4.1-5.9; 16-19, 12.2-21.6.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1993* (Bulletin 2446, Sept. 1994), p. 40, and *Geographic Profile of Employment and Unemployment, 1994* (Bulletin 2469, Dec. 1995), p. 39.

**Table 12.05-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, BY RACE
AND HISPANIC ORIGIN: 1994**

Race or origin 1/	Both sexes	Female
All races	583,000	276,000
White	189,400	87,400
Asian or Pacific Islander	374,950	179,850
Japanese	145,300	89,350
Filipino	95,650	47,100
Hawaiian	66,300	31,200
Chinese	38,650	18,200
Korean	12,750	6,900
Other Asian or Pacific Islander	16,300	7,150
Black	7,450	3,700
American Indian, Eskimo, Aleut	2,800	1,400
Other race	8,400	3,650
Minority group	393,600	188,600
Hispanic (all races)	35,550	16,650

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 12.06-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:
ANNUAL AVERAGES, 1980 TO 1996**

Year	Civilian labor force	Civilian employment	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	3.2
1989	525,000	511,000	13,000	2.6
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	577,100	543,250	33,850	5.9
1996	590,900	553,200	37,700	6.4

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 12.07-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1986 TO 1996**

[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							
1986	368,700	51,300	23,400	48,600	1,050	45,050	2,500
1987	383,400	54,050	24,900	51,600	1,000	48,050	2,600
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	418,850	64,200	28,400	65,900	1,600	61,300	2,950
1996	427,350	66,850	29,000	67,700	1,650	62,950	3,100
CIVILIAN EMPLOYMENT							
1986	352,500	47,500	22,000	46,050	900	42,950	2,150
1987	369,850	50,950	23,850	49,350	850	46,250	2,250
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	399,400	57,650	25,150	61,050	1,550	56,900	2,650
1996	404,750	60,200	25,500	62,750	1,550	58,600	2,600

Continued on next page.

Table 12.07-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1986 TO 1996 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1986	16,200	3,850	1,400	2,550	100	2,100	350
1987	13,550	3,100	1,100	2,250	150	1,800	300
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	19,250	6,550	3,250	4,800	100	4,400	350
1996	22,600	6,650	3,500	4,950	100	4,350	500
PERCENT UNEMPLOYED							
1986	4.4	7.5	5.9	5.3	11.5	4.7	13.4
1987	3.5	5.8	4.3	4.4	14.9	3.7	12.2
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	5.4	7.2	11.4
1996	5.3	9.9	12.1	7.3	5.8	6.9	15.9

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 12.08-- CHARACTERISTICS OF THE INSURED UNEMPLOYED:
ANNUAL AVERAGES, 1995**

[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:		Fin., ins., real estate	4.7
Under 22 years	2.5	Services	24.2
22 to 24 years	5.2	Hotel	6.0
25 to 34 years	28.6	Others	6.3
35 to 44 years	30.2	Occupation:	
45 to 54 years	20.4	Prof., tech., mgr.	20.0
55 to 64 years	10.1	Clerical, sales	18.2
65 years and over	3.0	Services	12.0
Sex:		Farm, fish., forest	3.7
Male	65.4	Processing	0.7
Female	34.6	Machine trades	1.7
Industry:		Bench work	0.9
Government	3.8	Structural work	33.3
Agriculture	4.6	Miscellaneous	6.9
Construction	29.7	Not available	2.6
Manufacturing	4.1	Duration:	
Trans., commun., util.	6.1	1 to 4 weeks	33.0
Wholesale, retail trade	16.5	5 to 14 weeks	38.6
		15 weeks and over	28.4

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 1995*.

Table 12.09-- WAGE AND SALARY JOBCOUNT, NON-AGRICULTURE AND AGRICULTURE, BY COUNTIES: ANNUAL AVERAGES, 1980 TO 1996

[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 excluded]

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	488,050	380,800	40,650	22,200	44,400
1989	515,100	397,900	44,950	24,350	47,900
1990	537,950	412,950	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	49,600	24,450	55,850
1996	536,700	405,950	50,450	24,250	56,050

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 12.10-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES,
1991 TO 1996**

[Data rounded to nearest 50. Totals may not add due to rounding or residual categories]

Industry	1991	1992	1993	1994	1995	1996
Nonagriculture, wage and salary	539,150	542,800	538,900	536,200	532,850	529,300
Construction, mining	33,550	31,550	32,350	29,200	26,300	23,450
Manufacturing	20,450	19,700	19,150	17,750	17,000	16,600
Durable goods	4,450	4,250	4,100	4,100	3,550	3,450
Nondurable goods	16,000	15,450	15,050	13,650	13,400	13,150
Food processing 1/	8,750	8,350	7,850	6,700	6,350	6,250
Sugar	2,350	2,200	2,050	(NS)	(NS)	(NS)
Pineapple	1,350	1,200	900	(NS)	(NS)	(NS)
Other	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Textile, apparel 2/	2,100	2,100	2,250	2,250	2,200	2,100
Printing, publishing	3,650	3,500	3,500	3,350	3,300	3,200
Other nondurable goods	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Transp., commun., utilities	43,300	43,250	41,300	41,800	40,700	40,950
Transportation 3/	32,850	32,900	31,350	31,900	30,700	30,900
Communication	7,350	6,900	6,400	6,250	6,250	6,350
Utilities	3,100	3,400	3,550	3,650	3,750	3,700
Trade	136,450	135,750	133,000	133,300	135,800	135,250
Wholesale	22,750	22,500	21,950	21,550	21,550	21,450
Retail	113,700	113,250	111,100	111,750	114,250	113,800
Finance, insur., real estate	37,400	37,950	38,950	38,400	37,150	36,800
Services and miscellaneous	159,100	163,550	162,550	163,900	164,500	166,100
Hotels	40,800	40,950	38,000	38,000	37,750	38,450
Other services, misc.	118,300	122,600	124,550	125,900	126,750	127,650
Government	108,900	111,100	111,600	111,850	111,400	110,150
Federal	33,850	33,250	31,800	31,250	31,050	31,250
Air Force	2,250	2,200	2,150	2,000	2,100	2,050
Army	5,400	4,800	4,600	4,600	4,450	4,950
Navy	11,200	11,100	10,700	10,250	10,200	9,800
Other	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
State	60,250	62,600	64,250	65,000	63,950	62,250
Local 3/	14,750	15,250	15,500	15,600	16,450	16,650
Agriculture, wage and salary	9,550	9,300	8,550	8,000	7,300	7,400
Sugar	2,950	2,850	2,500	(NS)	(NS)	(NS)
Pineapple	1,700	1,450	1,350	(NS)	(NS)	(NS)
Other	4,850	5,000	4,700	(NS)	(NS)	(NS)
Labor disputes	-	-	(Z)	(Z)	(Z)	-

Footnotes and source on next page.

**Table 12.10-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES,
1991 TO 1996 -- Con.**

NS Not shown separately.

Z Fewer than 50.

1/ Data beginning with 1994 are not directly comparable with data for earlier years.

2/ Data for 1993 and 1994 are not directly comparable with data for earlier years.

3/ 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 12.11-- 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 12.12-- JOBCOUNT BY INDUSTRY, BY COUNTIES:
ANNUAL AVERAGES, 1996**

[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	529,300	403,900	47,900	23,400	54,100
Construction, mining	23,450	17,750	2,350	1,200	2,150
Manufacturing	16,600	12,750	1,650	500	1,750
Durable goods	3,450	2,950	200	(Z)	250
Nondurable goods	13,150	9,750	1,450	450	1,500
Food processing	6,250	3,750	1,050	250	1,200
Textile, apparel	2,100	2,000	(NS)	(NS)	(NS)
Printing, publishing	3,200	2,600	200	150	200
Other nondurable goods	(NS)	(NS)	(NS)	(NS)	(NS)
Transp., commun., utilities	40,950	33,100	2,600	1,550	3,650
Transportation	30,900	25,200	1,700	1,150	2,850
Communication	6,350	5,300	400	400	450
Utilities	3,700	2,600	500	200	400
Trade	135,250	101,300	12,550	6,600	14,800
Wholesale	21,450	18,000	1,650	500	1,350
Retail	113,800	83,300	10,900	6,150	13,450
Finance, insur., real estate	36,800	29,800	2,600	1,450	2,900
Services and miscellaneous	166,100	120,500	16,100	8,100	21,350
Hotels	38,450	18,150	6,000	3,450	10,900
Other services, misc.	127,650	102,350	10,100	4,650	10,450
Government	110,150	88,650	10,100	400	7,450
Federal	31,250	29,450	900	400	500
Air Force, Army, Navy	16,800	16,450	100	200	(NS)
Other	(NS)	(NS)	(NS)	(NS)	(NS)
State	62,250	47,700	7,000	2,550	4,950
Local	16,650	11,450	2,150	1,050	1,950
Agriculture, wage and salary	7,400	2,050	2,550	850	1,950
Labor disputes	-	-	-	-	-

NS Not shown separately.

Z Fewer than 50.

Source: Hawaii State Department of Labor and Industrial Relations Internet site <http://www.hawaii.gov/workforce/ces.htm#jci>.

Table 12.13-- 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 12.14-- 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 12.15-- CIVILIAN EMPLOYMENT, FULL- AND PART-TIME:
ANNUAL AVERAGES, 1994**

[Thousands]

Year, sex, and age	Full- and part-time	Full-time	Part-time		
			Total	Voluntary	Economic reasons
Total	547	446	101	86	15
Male	277	245	32	26	6
Female	270	202	68	58	10
16 to 19 years (both sexes)	22	5	16	15	1

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1994* (Bulletin 2469, Dec. 1995), table 13.

**Table 12.16-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX:
ANNUAL AVERAGES, 1994**

Occupation	Both sexes	Men	Women
All occupations (number in thousands)	547	277	270
Percent	100.0	100.0	100.0
Managerial and professional specialty:			
Executive, administrative, and managerial	14.6	17.5	11.7
Professional specialty	13.5	10.4	16.6
Technical, sales, and administrative support:			
Technicians and related support	2.9	2.7	3.1
Sales	13.0	10.8	15.3
Administrative support, including clerical	15.2	5.8	24.8
Service occupations	18.4	16.1	20.7
Precision production, craft, and repair	9.4	16.8	1.7
Operators, fabricators, and laborers:			
Machine operators, assemblers, and inspectors	1.8	2.1	1.4
Transportation and material moving	3.8	6.3	1.2
Handlers, equipment cleaners, helpers, and laborers	3.6	5.5	1.7
Farming, forestry, and fishing	3.8	5.9	1.7

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1994* (Bulletin 2469, Dec. 1995), table 15.

**Table 12.17-- MULTIPLE JOBHOLDER LEVELS AND RATES:
MAY 1991 AND ANNUAL AVERAGES FOR 1994**

Subject	May 1991	1994 annual average
Employed, 16 years and over (1,000)	(NA)	554,000
Multiple jobholders (1,000)	52,000	48,000
Percent with multiple jobs	9.9	1/ 8.7
Rank (50 States and D.C.)	7	9

NA Not available.

1/ The U.S. percentage was 6.0.

Source: Unpublished data from Current Population Survey microdata, supplied by U.S. Bureau of Labor Statistics and Hawaii State Department of Labor and Industrial Relations.

**Table 12.18-- 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 12.19-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES: 1985 TO 1995**

Year	Number of reporting units, December 1/	Average employment	Wages and salaries	
			Total (\$1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1985	21,945	434,400	7,530,505	17,335
1986	24,510	446,756	8,072,318	18,069
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	26,738
1995	30,479	535,750	14,456,304	26,983
EXCLUDING GOVERNMENT				
1990	27,271	432,910	9,625,759	22,235
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
PRIVATE NON-AGRICULTURAL				
1990	26,647	420,717	9,386,430	22,311
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

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 12.20-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES, BY COUNTIES: 1995**

County	Number of employers, December	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	30,479	535,750	14,456,304	26,983
City and County of Honolulu	21,313	406,486	11,361,254	27,950
Hawaii County	3,745	48,875	1,146,656	23,461
Kauai County	1,735	24,494	587,939	24,003
Maui County	3,692	55,895	1,360,454	24,339
EXCLUDING GOVERNMENT				
State total	30,473	428,058	11,099,619	25,930
City and County of Honolulu	21,310	319,923	8,668,589	27,096
Hawaii County	3,742	39,086	838,331	21,448
Kauai County	1,732	20,455	460,974	22,536
Maui County	3,689	48,594	1,131,725	23,289

Source: Hawaii State Department of Labor and Industrial Relations, *1995 Employment and Payrolls in Hawaii* (October 1996).

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**Table 12.21-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1995**

Industry	Number of reporting units, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
All industries	30,479	535,750	14,456,304	26,983
Government	6	107,692	3,356,685	31,169
Federal	1	31,478	1,045,585	33,216
State	1	59,795	1,737,589	29,059
County	4	16,419	573,511	34,930
Private	30,473	428,058	11,099,619	25,930
Agriculture, forestry, fisheries 1/	699	10,330	234,143	22,666
Mining	10	357	18,156	50,857
Construction	2,636	25,942	1,081,601	41,693
Manufacturing 1/	972	16,950	494,319	29,163
Food processing 1/	226	6,370	155,940	24,480
Other manufacturing	746	10,580	338,380	31,983
Transportation	1,303	30,695	897,440	29,237
Communications	138	6,256	257,399	41,144
Utilities	90	3,767	197,146	52,335
Wholesale trade	2,476	21,615	671,424	31,063
Retail trade	7,213	114,404	1,900,858	16,615
Eating and drinking places	2,482	46,978	603,087	12,838
Other retail trade	4,731	67,426	1,297,771	19,247
Finance, insurance, real estate	3,919	37,041	1,168,336	31,542
Services	10,787	160,374	4,170,695	26,006
Hotels, rooming houses, etc.	321	37,747	887,936	23,523
Health services	2,318	33,876	1,254,139	37,021
Other services	8,148	88,751	2,028,620	22,857
Nonclassifiable establishments	230	327	8,102	24,775

1/ Separate data for sugar and pineapple are no longer available.

Source: Hawaii State Department of Labor and Industrial Relations, *1995 Employment and Payrolls in Hawaii* (October 1996).

Table 12.22-- 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 1995

[Including government]

Year	Current dollars	1982-1984 dollars 1/	Year	Current dollars	1982-1984 dollars 1/
1969	6,876	17,452	1983	16,115	16,229
1970	7,424	17,889	1984	16,714	16,149
1971	7,677	17,771	1985	17,335	16,231
1972	7,989	17,913	1986	18,069	16,516
1973	8,479	18,195	1987	19,060	16,588
1974	9,087	17,645	1988	20,454	16,807
1975	9,767	17,348	1989	21,635	16,810
1976	10,347	17,508	1990	23,156	16,768
1977	10,903	17,557	1991	24,116	16,295
1978	11,630	17,384	1992	25,532	16,462
1979	12,429	16,728	1993	26,544	16,580
1980	13,548	16,323	1994	26,738	16,254
1981	14,471	15,781	1995	26,983	16,052
1982	15,367	15,810			

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu.

Source: Computed by DBEDT, data from 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 12.23-- 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: 1985 AND 1995**

Class of worker	1985: current dollars	1995		Percent change, 1985-1995	
		Current dollars	1985 dollars 1/	Current dollars	1985 dollars 1/
All classes	17,335	26,983	17,143	55.7	-1.1
Federal	26,761	33,216	21,103	24.1	-21.1
State	19,093	29,059	18,462	52.2	-3.3
County	20,144	34,930	22,192	73.4	10.2
Private	16,070	25,930	16,474	61.4	2.5

1/ The all-items consumer price index (CPI-U) for Honolulu increased 57.4 percent from 1985 to 1995.

Source: Computed by DBEDT, data from Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual), and Bureau of Labor Statistics.

**Table 12.24-- NONGOVERNMENTAL REPORTING UNITS AND
EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1995**

[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	30,473	16,185	6,171	4,072	2,599	850	596
Employment	431,791	29,802	40,748	54,869	78,552	58,357	169,463

Source: Hawaii State Department of Labor and Industrial Relations, *1995 Employment and Payrolls in Hawaii* (October 1996), p. 27.

**Table 12.25-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE:
1985 TO 1995**

[For earlier years, 1975-1984, see *Data Book 1987*, table 386]

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
1985	17,329	16,064	90.3	84.7	31	40
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

1/ Among 50 States and D.C. Excluding D.C., Hawaii ranked 15th for all workers and 20th for private workers in 1995.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages* (annual report).

**Table 12.26-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES:
ANNUAL AVERAGES, 1991 TO 1996**

Subject	1991	1992	1993	1994	1995	1996
Average weekly earnings (dollars)						
Construction and mining	803.32	792.06	864.88	898.18	922.27	938.78
Manufacturing	453.32	464.40	476.80	468.03	480.75	487.30
Food and kindred products	392.20	399.34	420.21	414.63	382.69	423.71
Communication and utilities	714.60	788.00	826.10	838.27	845.04	864.84
Trade 1/	306.24	262.84	275.40	284.45	288.76	293.48
Wholesale trade	417.20	437.31	441.60	461.23	469.94	446.31
Retail trade	269.70	229.86	245.10	252.54	257.50	267.04
Eating, drinking places	...	...	183.51	184.94	184.06	185.67
Banking & credit agencies	373.46	387.39	397.17	406.15	414.32	412.91
Hotels	333.00	351.42	367.73	386.46	406.90	411.40
Average weekly hours						
Construction and mining	38.0	36.4	37.9	37.3	36.7	36.5
Manufacturing	39.8	40.0	39.8	38.3	37.5	38.1
Food and kindred products	40.6	41.0	41.4	40.1	35.9	37.2
Communication and utilities	43.1	44.9	44.2	42.9	42.0	41.8
Trade 1/	33.0	29.8	30.0	30.1	30.3	30.1
Wholesale trade	39.1	38.7	38.3	38.5	38.3	37.1
Retail trade	31.0	28.1	28.5	28.6	28.9	28.9
Eating, drinking places	...	...	24.9	25.3	25.6	25.4
Banking & credit agencies	38.7	38.7	38.3	38.1	37.7	39.4
Hotels	33.4	33.5	33.4	33.9	34.6	34.0
Average hourly earnings (dollars)						
Construction and mining	21.14	21.76	22.82	24.08	25.13	25.72
Manufacturing	11.39	11.61	11.98	12.22	12.82	12.79
Food and kindred products	9.66	9.74	10.15	10.34	10.66	11.39
Communication and utilities	16.58	17.55	18.69	19.54	20.12	20.69
Trade 1/	9.28	8.82	9.18	9.45	9.53	9.75
Wholesale trade	10.67	11.30	11.53	11.98	12.27	12.03
Retail trade	8.70	8.18	8.60	8.83	8.91	9.24
Eating, drinking places	...	...	7.37	7.31	7.19	7.31
Banking & credit agencies	9.65	10.01	10.37	10.66	10.99	10.48
Hotels	9.97	10.49	11.01	11.40	11.76	12.10

1/ Excludes eating and drinking establishments before 1992.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book, May 1996*, pp. 15-17, and Internet site <http://www.hawaii.gov/workforce/ces.htm#h&e>.

Table 12.27-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1992 TO 1996

[In dollars]

Job classification 1/	1992	1993	1994	1995	1996
ANNUAL RATES					
Clerk, entry level	15,588	16,407	17,170	17,794	17,774
Cashier	20,592	22,010	21,616	23,420	23,307
Secretary	24,072	25,016	25,907	26,636	26,846
Switchboard operator	19,596	21,303	22,110	22,870	23,150
Bookkeeper, full-charge	24,660	27,552	28,710	29,827	30,431
Engineering drafting technician	30,924	30,768	32,654	32,193	35,960
Hospital attendant	19,800	20,280	21,350	21,949	22,401
Staff nurse	44,280	47,196	48,995	50,827	52,560
HOURLY RATES					
Housekeeper	8.943	9.394	9.85	10.10	10.45
Cook, general	10.928	9.977	11.90	12.94	12.50
Wait help	5.075	5.254	5.45	5.63	5.89
Laborer, light	8.483	8.732	8.96	9.01	9.12
Carpenter, maintenance	14.061	14.859	15.30	15.29	15.64
Electrician, maintenance	15.587	16.145	17.20	17.55	17.51
Automotive mechanic	13.567	14.688	15.22	15.27	15.97
Truck driver (trailer)	10.590	11.642	12.27	12.30	13.40

1/ The 16 job titles listed in this table are meant to be only illustrative of the 92 reported in the full report; see the source for full information.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (annual).

Table 12.28-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1996

[In dollars]

Job classification 1/	State average	Kauai	Oahu	Maui County	Hawaii County
ANNUAL RATES					
Clerk, entry level	17,774	17,344	17,800	17,438	17,442
Cashier	23,307	...	23,742	22,980	19,051
Secretary	26,846	26,613	26,942	26,196	25,551
Switchboard operator	23,150	...	23,198	...	...
Bookkeeper, full-charge	30,431	...	30,381	...	28,758
Engineering drafting technician	35,960	...	...	...	...
Hospital attendant	22,401	...	22,422	...	...
Staff nurse	52,560	...	52,785	...	...
HOURLY RATES					
Housekeeper	10.45	...	10.56	9.43	...
Cook, general	12.50	...	12.71	13.62	...
Wait help	5.89	...	6.08	...	...
Laborer, light	9.12	...	8.99	...	...
Carpenter, maintenance	15.64	...	15.72	...	...
Electrician, maintenance	17.51	...	20.20	15.56	...
Automotive mechanic	15.97	...	16.43	15.54	15.06
Truck driver (trailer)	13.40	...	14.35	...	...

1/ See preceding table, footnote 1.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (Special Publication No. 246, September 1996).

Table 12.29-- WAGE RATES FOR SPECIFIED JOB TITLES: 1996

[In dollars. Data are shown for only a few of the more than 1,000 job titles listed in the source, primarily to suggest the type of information and occupational detail available there]

Job title	Hourly wage range	
	Minimum	Maximum
Accountant	10.82	20.88
Cannery warehouse worker	6.35	7.35
Clerk, data entry	9.34	10.99
Engineer, civil	13.00	17.90
Host/hostess	8.59	11.90
Laborer, general	8.84	10.04
Nurse, licensed practical	12.16	17.75
Programmer, junior	16.58	20.32
Receptionist	11.02	15.12
Secretary	10.34	18.60

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, *Selected Wage Information for Hawaii* (December 1996).

Table 12.30-- 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 12.31-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1995

[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	1995 4/	5.25

1/ At inception of minimum wage law, April 1, 1942.

2/ January 1.

3/ April 1.

4/ Current minimum as of September 6, 1995.

Source: Hawaii State Department of Labor and Industrial Relations, records; Act 264, S.L.H. 1991.

**Table 12.32-- WEEKLY HOURS OF WORK, FOR CIVILIANS AT WORK:
ANNUAL AVERAGES, 1983 TO 1993**

Year	All civilians at work	Full-time schedules 1/	Year	All civilians at work	Full-time schedules 1/
1983	37.9	43.2	1989	39.4	46.0
1984	37.8	43.5	1990	39.4	46.8
1985	38.2	44.4	1991	39.2	47.2
1986	38.3	44.3	1992	38.6	48.6
1987	37.6	44.1	1993	39.5	47.2
1988	39.0	44.6			

1/ Refers to persons who worked 35 hours or more during the survey week.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment* (annual).

Table 12.33-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1949 TO 1996

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	4,219	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				
1973	5,255	6,116	116				

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, 1997*, p. 15, and records.

**Table 12.34-- NONFATAL OCCUPATIONAL INJURIES AND ILLNESSES,
PRIVATE SECTOR: 1993 AND 1994**

[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	
	1993	1994	1993	1994
Recordable cases	34,300	30,200	33,300	29,300
Per 100 full-time workers	9.9	8.7	9.6	8.5
Lost workday cases	18,400	17,000	18,000	16,500
Per 100 full-time workers	5.3	4.9	5.2	4.8
Nonfatal cases without lost workdays	15,900	13,200	15,400	12,800

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, *1994 Occupational Injuries and Illnesses Survey*, p. 4.

**Table 12.35-- WORK INJURIES, DEATHS, TIME LOST AND
COMPENSATION COSTS: 1990 TO 1995**

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

Source: Hawaii State Department of Labor and Industrial Relations, *Workers' Compensation Data Book* (annual).

Table 12.36-- UNION MEMBERSHIP AND EARNINGS, 1983, 1988, AND 1993, AND BY SECTOR, 1993

Subject	1983	1988	1993		
			Total	Private sector workers	Public sector workers
Sample size	2,045	1,842	1,727	1,326	401
Employment (1,000)	385.4	441.5	490.7	375.5	115.2
Percent union members	29.2	30.5	1/ 28.1	19.4	56.3
Percent covered by collective bargaining agreement	32.4	32.9	2/ 31.3	23.0	58.4
Mean earnings (1993 dollars):					
Weekly	469	517	3/ 522	501	590
Hourly	11.96	13.03	13.39	12.91	14.98
Union workers:					
Employment (1,000)	112.6	134.5	137.8	72.9	64.9
Mean earnings (1993 dollars):					
Weekly	592	587	607	596	619
Hourly	14.68	14.71	15.15	15.22	15.08
Nonunion workers:					
Employment (1,000)	272.9	307.1	352.9	302.6	50.3
Mean earnings (1993 dollars):					
Weekly	418	487	488	478	551
Hourly	10.85	12.29	12.71	12.35	14.84

1/ The U.S. percentage was 15.8. Hawaii ranked 2nd among the 50 states.

2/ The U.S. percentage was 17.7. Hawaii ranked 1st among the 50 states.

3/ The U.S. mean was \$483. Hawaii ranked 9th among the 50 states.

Source: Barry T. Hirsch and David A. Macpherson, *Union Membership and Earnings Data Book 1993: Compilations from the Current Population Survey* (Washington, D.C.: The Bureau of National Affairs, Inc., 1994), tables 8a, 8b, and 8c.

Table 12.37-- LABOR UNION MEMBERSHIP: 1983 AND 1995

Subject	1983	1995
Union members (1,000)	112.6	117.1
Workers covered by unions (1,000)	124.9	124.1
Percent of workers		
Union members	29.2	24.6
Covered by unions	32.4	26.1
Private manufacturing sector union members	35.6	11.0

Source: The Bureau of National Affairs, cited in *Statistical Abstract of the United States: 1996*, p. 437.

Table 12.38-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1994

Subject	Total	AFL-CIO affiliated	Independent
Unions and associations Membership 1/	71 166,424	60 144,508	11 21,916

1/ Data exclude 4 unions and associations (one of which was the United Public Workers) not reporting membership. The largest memberships were those reported by the HGEA (39,018), ILWU (28,000), and Hotel Employees & Restaurant Employees (12,000).

Source: Hawaii State Department of Labor and Industrial Relations, *Directory of Labor Organizations & Affiliates, 1994*.

**Table 12.39-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE
BARGAINING UNITS, BY EMPLOYING JURISDICTION: 1993 TO 1995**

[As of December 31]

Employing jurisdiction	1993	1994	1995
Total	54,306	56,660	53,431
State of Hawaii	23,243	26,225	22,810
City and County of Honolulu	8,535	8,127	8,127
County of Hawaii	1,691	1,704	1,716
County of Maui	1,609	1,560	1,519
County of Kauai	881	879	881
Dept. of Education	12,184	11,976	12,455
Judiciary	1,459	1,504	1,440
University of Hawaii	4,704	4,685	4,483

Source: Hawaii Labor Relations Board, *HLLRB Informational Bulletin*, No. 33, April 4, 1996, and earlier issues.

Table 12.40-- COLLECTIVE BARGAINING AGREEMENTS: 1987 TO 1997

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				

1/ For earlier years, 1964-1986, see source.

Source: Industrial Relations Center, University of Hawaii at Manoa, *Duration of Collective Bargaining Agreements in Hawaii, 1997* (January 1997), p. 1.

Table 12.41-- WORK STOPPAGES: 1989 TO 1994

[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

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, records.

**Table 12.42-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS:
1984 TO 1994**

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)

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 income 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, 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: 1996*, Section 14.

**Table 13.01-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1974 TO 1995**

[In millions of dollars]

Year	Value of production		Defense expenditures 2/	Visitor expenditures 3/
	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	3,054.9	5,244
1986	361.9	238.4	3,031.4	6,104
1987	335.9	251.4	3,023.6	6,868
1988	324.0	247.0	3,145.6	8,528
1989	322.0	241.9	3,269.3	9,282
1990	328.9	215.9	3,335.8	9,739
1991	270.7	224.6	3,649.9	10,634
1992	237.6	197.7	3,833.9	9,559
1993	251.9	140.6	3,709.5	8,678
1994	247.9	134.1	3,796.3	10,603
1995	200.2	135.0	3,676.4	4/ 11,588

1/ Excludes government sugar support payments.

2/ The 1985-1994 estimates have been revised.

3/ 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.

4/ Preliminary.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records; 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 AND PER CAPITA GROSS STATE PRODUCT: 1966 TO 1996

[For 1958-1965 data, see *Data Book 1991*, table 373]

Year	Gross state product		Per capita gross state product 1/	
	Millions of current dollars	Millions of 1982 dollars	Current dollars	1982 dollars
1966	2,771.4	7,083.5	3,902	9,973
1967	2,990.0	7,329.4	4,138	10,144
1968	3,344.5	7,932.5	4,553	10,800
1969	3,952.3	8,905.6	5,268	11,871
1970	4,414.0	9,324.6	5,721	12,085
1971	4,773.8	9,806.5	5,955	12,234
1972	5,305.4	10,464.5	6,405	12,634
1973	6,009.3	10,982.4	7,056	12,896
1974	6,901.7	10,948.5	7,951	12,613
1975	7,411.3	11,596.6	8,363	13,086
1976	7,933.4	11,746.4	8,774	12,991
1977	8,597.4	12,103.3	9,362	13,180
1978	9,627.6	12,482.9	10,334	13,399
1979	10,906.4	12,972.1	11,441	13,608
1980	12,225.7	13,690.5	12,623	14,136
1981	13,078.3	14,022.5	13,370	14,335
1982	13,691.0	13,691.0	13,776	13,776
1983	14,811.8	14,210.1	14,626	14,032
1984	15,826.5	14,637.3	15,397	14,240
1985	17,139.7	15,344.4	16,485	14,758
1986	18,483.0	16,170.6	17,573	15,374
1987	20,027.3	16,759.3	18,754	15,694
1988	22,324.0	17,745.7	20,674	16,434
1989	24,574.7	18,589.0	22,451	16,982
1990	27,033.6	19,227.3	24,297	17,281
1991	28,614.4	19,150.4	25,330	16,953
1992	30,259.6	19,322.8	26,363	16,835
1993	31,171.9	19,400.1	26,873	16,725
1994	31,965.3	19,400.1	27,259	16,544
1995	32,723.7	19,497.1	27,751	16,534
1996	33,509.1	19,665.0	28,308	16,613

1/ Based on Hawaii resident population.

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), table 1-6, as revised and updated (as in *Hawaii's Economy*, Second Quarter 1995, and *Quarterly Statistical Report*, June 1997, forthcoming).

**Table 13.03-- GROSS STATE (DOMESTIC) PRODUCT, 1977 TO 1994,
AND BY INDUSTRY, 1993 AND 1994**

[Data for 1977-92 are revised]

Year	Millions of current dollars	Millions of chained (1992) dollars	Year	Millions of current dollars	Millions of chained (1992) dollars
1977	9,400	(NA)	1986	22,039	27,406
1978	10,537	(NA)	1987	23,337	28,156
1979	11,988	(NA)	1988	25,823	30,153
1980	13,420	(NA)	1989	28,860	32,438
1981	14,541	(NA)	1990	32,488	34,891
1982	15,512	23,887	1991	33,883	34,904
1983	16,995	24,876	1992	34,987	34,987
1984	18,547	25,567	1993	36,258	35,156
1985	20,052	26,282	1994	36,718	34,748
Industry	Millions of current dollars		Percent		
	1993	1994	1993	1994	
Total, all industries	36,258	36,718	100.0	100.0	
Farms	284	282	0.8	0.8	
Agric. services, forestry, fisheries	197	198	0.5	0.5	
Mining	31	26	0.1	0.1	
Construction	2,270	2,151	6.3	5.9	
Manufacturing	1,089	1,128	3.0	3.1	
Transportation, communication, utilities	3,493	3,475	9.6	9.5	
Wholesale trade	1,372	1,414	3.8	3.9	
Retail trade	3,942	4,063	10.9	11.1	
Finance, insurance, real estate	8,590	8,584	23.7	23.4	
Services	7,314	7,586	20.2	20.7	
Hotels	1,745	1,787	4.8	4.9	
Health services	1,758	1,865	4.8	5.1	
Other services	3,811	3,934	10.5	10.7	
Federal government	4,364	4,368	12.1	11.9	
Civilian	1,696	1,745	4.7	4.8	
Military	2,668	2,623	7.4	7.1	
State and local government	3,314	3,442	9.1	9.4	

NA Not available.

Source: U.S. Bureau of Economic Analysis, "Comprehensive Revision of Gross State Product By Industry, 1977-1994," *Survey of Current Business*, June 1997, pp. 15-41; and BEA diskettes tabulated by Hawaii State Department of Business, Economic Development & Tourism.

REVISED 11/20/97

Table 13.04-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1969 TO 1996

[Data for 1969-95 have been revised. Data for 1996 are preliminary]

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1969	3,330	2,824	4,482	3,801	116.9	115.4
1970	3,811	3,254	4,995	4,265	122.7	120.4
1971	4,106	3,563	5,188	4,501	120.1	118.5
1972	4,513	3,860	5,516	4,718	117.6	116.1
1973	5,006	4,295	5,947	5,102	114.3	112.4
1974	5,727	4,940	6,674	5,756	117.8	117.0
1975	6,155	5,431	7,034	6,207	115.6	115.8
1976	6,693	5,858	7,500	6,565	112.4	112.5
1977	7,250	6,303	7,917	6,883	108.3	108.2
1978	8,044	6,949	8,660	7,482	106.0	105.5
1979	9,133	7,868	9,613	8,281	105.8	105.5
1980	10,514	9,074	10,860	9,372	108.3	108.2
1981	11,304	9,740	11,556	9,558	104.0	104.3
1982	11,997	10,554	12,072	10,620	103.3	105.2
1983	13,207	11,592	13,040	11,445	105.6	106.3
1984	14,066	12,448	13,683	12,109	101.0	102.0
1985	15,036	13,174	14,461	12,669	100.4	100.8
1986	16,106	14,110	15,312	13,414	101.1	101.4
1987	17,336	14,963	16,231	14,010	101.8	101.3
1988	19,195	16,517	17,773	15,293	104.5	103.0
1989	21,048	17,812	19,229	16,273	106.1	103.5
1990	23,741	20,193	21,333	18,144	111.4	109.0
1991	24,996	21,392	22,128	18,937	112.7	110.3
1992	26,311	22,662	22,923	19,744	111.4	109.5
1993	27,505	23,735	23,712	20,462	111.7	108.5
1994	28,304	24,516	24,137	20,907	109.5	108.7
1995	29,184	25,403	24,749	21,543	106.7	106.8
1996	29,782	25,776	25,159	21,776	103.8	103.8

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Commerce News BEA 96-31 and STAT-USA.GOV at <http://www.stat-usa.gov/BEN/bea/regional/persinc.ann-st/pci9095.ann>, dated September 24, 1996; BEA 97-15 and [.../pci91-96.ann](http://www.stat-usa.gov/BEN/bea/regional/persinc.ann-st/pci91-96.ann), dated April 28, 1997; *Survey of Current Business*, May 1997; and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

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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 (DBEDT), *Population and Economic Projections for the State of Hawaii to 2020, DBEDT 2020 Series*, May 1997.

Table 13.06-- PERSONAL INCOME BY MAJOR SOURCES: 1990 TO 1996

[In millions of dollars. Data for 1990-95 have been revised. Data for 1996 are preliminary]

Item	1990	1991	1992	1993	1994	1995	1996
LABOR AND PROPRIETORS INCOME (EARNINGS)							
By type	17,833	18,912	20,164	20,679	20,972	21,128	21,258
Wage and salary disbursements	14,524	15,398	16,416	16,638	16,763	16,769	16,941
Other labor income	1,451	1,632	1,767	1,889	1,964	1,999	1,975
Proprietors income	1,859	1,883	1,981	2,153	2,244	3,129	2,341
Farm	33	18	5	17	-8	2	0
Nonfarm	1,826	1,865	1,976	2,136	2,245	2,357	2,341
By industry	17,833	18,912	20,164	20,679	20,972	21,128	21,258
Farm	219	202	192	194	182	161	152
Nonfarm	17,614	18,711	19,973	20,486	20,790	20,968	21,106
Private	13,103	13,900	14,800	15,216	15,439	15,661	15,839
Government and government enterprises	4,511	4,811	5,173	5,270	5,352	5,307	5,268
Federal, civilian	1,111	1,120	1,192	1,212	1,250	1,218	1,249
Federal, military	1,440	1,540	1,619	1,573	1,532	1,508	1,503
State and local	1,960	2,151	2,362	2,484	2,570	2,581	2,515
State	1,476	1,629	1,785	1,883	1,943	1,948	(NA)
Local	484	522	577	601	627	633	(NA)
DERIVATION OF PERSONAL INCOME							
Labor and proprietors income	17,833	18,912	20,164	20,679	20,972	21,128	21,258
Less: Personal contributions for social insurance	1,144	1,229	1,298	1,323	1,365	1,380	1,379
Net labor and proprietors income 1/	16,689	17,683	18,867	19,357	19,607	19,749	19,879
Plus: Dividends, interest, and rent	3,918	4,084	3,802	4,172	4,405	4,664	4,815
Plus: Transfer payments	3,134	3,230	3,642	3,976	4,292	4,771	5,087
Total personal income	23,741	24,996	26,311	27,505	28,304	29,184	29,782

NA Not available.

1/ There is no residence adjustment for Hawaii.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Commerce News BEA 96-31 and STAT-USA.GOV at <http://www.stat-usa.gov/BEN/bea/regional/persinc.ann-st/pci9095.ann>, dated September 24, 1996; BEA 97-15 and [.../pci91-96.ann](http://www.stat-usa.gov/BEN/bea/regional/persinc.ann-st/pci91-96.ann), dated April 28, 1997; *Survey of Current Business*, May 1997; and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 13.07-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY
COUNTIES: 1983 TO 1994**

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
TOTAL (MIL. DOL.)						
1983	13,116.6	10,626.6	2,490.0	1,069.2	467.6	953.2
1984	13,969.0	11,379.8	2,589.1	1,105.1	478.9	1,005.1
1985	14,910.3	12,134.4	2,775.9	1,167.2	516.6	1,092.1
1986	16,054.8	12,977.0	3,077.8	1,292.7	566.8	1,218.3
1987	17,182.3	13,891.4	3,290.9	1,377.9	605.8	1,307.2
1988	18,923.5	15,205.0	3,718.6	1,507.4	732.0	1,479.2
1989	20,956.8	16,731.5	4,225.4	1,705.3	835.1	1,685.0
1990	23,266.3	18,448.3	4,818.0	1,948.2	929.0	1,940.8
1991	24,544.6	19,364.9	5,179.8	2,098.0	1,010.4	2,071.4
1992	26,095.4	20,909.9	5,185.5	2,232.3	656.6	2,296.7
1993	27,456.9	21,548.9	5,908.0	2,339.5	1,112.1	2,456.4
1994	28,320.3	22,145.4	6,174.9	2,411.6	1,180.5	2,582.9
PER CAPITA (DOLLARS)						
1983	12,951	13,497	11,018	10,478	10,911	11,837
1984	13,588	14,341	11,065	10,410	10,903	11,908
1985	14,339	15,170	11,566	10,782	11,461	12,613
1986	15,263	16,072	12,562	11,760	12,335	13,755
1987	16,087	17,040	13,008	12,177	12,733	14,194
1988	17,522	18,523	14,358	13,066	15,004	15,577
1989	19,146	20,195	15,885	14,448	16,674	17,197
1990	20,906	22,009	17,539	16,039	17,992	19,103
1991	21,648	22,802	18,203	16,632	18,969	19,699
1992	22,632	24,285	17,757	17,168	12,121	21,300
1993	23,558	24,868	19,759	17,573	20,178	22,177
1994	24,030	25,328	20,298	17,798	21,198	22,852

Source: U.S. Department of Commerce, Bureau of Economic Analysis, on STAT-USA.GOV at <http://www.stat-usa.gov/BEN/bea2/regional/persinc/ann-loc/hi.cty>, release June 4, 1996.

**Table 13.08-- PER CAPITA PERSONAL INCOME FOR THE
UNITED STATES AND HAWAII: 1969 TO 1996**

Year	United States		Hawaii			
	In dollars	Percent change	In dollars	Percent change	Rank 1/	Percent of the U.S. average
1969	3,813	...	4,482	...	6	117.5
1970	4,047	6.1	4,995	11.4	3	123.4
1971	4,294	6.1	5,188	3.9	3	120.8
1972	4,659	8.5	5,516	6.3	5	118.4
1973	5,168	10.9	5,947	7.8	7	115.1
1974	5,628	8.9	6,674	12.2	3	118.6
1975	6,045	7.4	7,034	5.4	3	116.4
1976	6,629	9.7	7,500	6.6	7	113.1
1977	7,267	9.6	7,917	5.6	8	108.9
1978	8,117	11.7	8,660	9.4	12	106.7
1979	9,017	11.1	9,613	11.0	12	106.6
1980	9,940	10.2	10,860	13.0	10	109.3
1981	11,009	10.8	11,556	6.4	14	105.0
1982	11,583	5.2	12,072	4.5	14	104.2
1983	12,223	5.5	13,040	8.0	12	106.7
1984	13,332	9.1	13,683	4.9	16	102.6
1985	14,155	6.2	14,461	5.7	16	102.2
1986	14,906	5.3	15,312	5.9	17	102.7
1987	15,638	4.9	16,231	6.0	15	103.8
1988	16,610	6.2	17,773	9.5	13	107.0
1989	17,690	6.5	19,229	8.2	11	108.7
1990	19,142	8.2	21,333	10.9	7	111.4
1991	19,638	2.6	22,128	3.7	7	112.7
1992	20,582	4.8	22,923	3.6	7	111.4
1993	21,223	3.1	23,712	3.4	7	111.7
1994	22,045	3.9	24,137	1.8	7	109.5
1995	23,196	5.2	24,749	2.5	9	106.7
1996	24,231	4.5	25,159	1.7	11	103.8

1/ Among the 50 States; District of Columbia is excluded from this ranking.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, "State Annual Summary Tables 1969-96 U.S. and All Regions," diskette dated April 28, 1997, and tabulations by 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 (1995)
DOLLARS: 1985 TO 1995**

[As of December 31]

Year	Median income (1995 dollars)	Standard error	Rank (50 states and D.C.)	Year	Median income (1995 dollars)	Standard error	Rank (50 states and D.C.)
1985	41,019	2,048	5	1991	41,676	1,824	4
1986	40,329	1,677	9	1992	45,745	1,559	1
1987	46,984	1,441	1	1993	44,994	1,855	2
1988	42,543	1,909	7	1994	43,453	2,492	3
1989	43,059	1,632	7	1995	42,851	1,292	3
1990	45,383	1,649	3				

Source: U.S. Bureau of the Census, *Current Population Reports*, Series P60, and <http://www.CENSUS.GOV/hhes/income/histinc/h08.prn>.

Table 13.11-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1975 AND 1980 TO 1994

[In dollars. Based on small samples and subject to considerable sampling variation. From surveys made in March or April of following year]

Year	Households	Families	Unrelated individuals with income 1/	Persons with income 1/	
				Male	Female
1975	15,991	17,770	6,180	9,489	4,082
1980	21,666	24,813	8,663	13,533	6,917
1981	22,434	27,499	10,073	13,635	7,069
1982	23,582	27,840	11,406	13,582	8,133
1983	26,805	29,742	12,735	14,903	7,941
1984	28,877	32,831	12,873	16,147	8,548
1985	28,961	32,611	15,357	15,865	9,987
1986	29,003	34,665	14,906	18,889	9,998
1987	34,398	39,038	14,876	19,872	10,765
1988 2/	33,024	39,609	14,376	18,375	8,983
1989	35,035	(NA)	(NA)	(NA)	(NA)
1990	38,921	(NA)	(NA)	(NA)	(NA)
1991	37,194	(NA)	(NA)	(NA)	(NA)
1992	42,113	(NA)	(NA)	(NA)	(NA)
1993	42,662	(NA)	(NA)	(NA)	(NA)
1994	42,255	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ 14 years old and over for 1975, and 15 years old and over thereafter. Data exclude persons in military group quarters.

2/ Revision in income imputation procedures.

Source: U.S. Bureau of the Census, *Current Population Reports, Consumer Income*, Series P-60, No. 108 (November 1977), p. 145; *Current Population Reports, Consumer Income*, Series P-60, No. 113 (July 1978), pp. 175-177; *Current Population Survey* (March), annual, 1981 to 1989, machine-readable file, tabulated by Hawaii State Data Center; *Current Population Reports, Consumer Income*, Series P-60, No. 184 (September 1993), table B-1 and B-20, and Series P60-188 (February 1995), tables B and A-1; Release CB9-185 (October 5, 1995).

Table 13.12-- 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 13.13-- INCOME OF HOUSEHOLDS AND FAMILIES: 1989 AND 1993

[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	1989	1993
Total	356,748	398,834	266,439	303,767
Less than \$5,000	13,393	9,548	5,411	5,147
\$5,000 to \$9,999	18,011	16,394	8,763	5,807
\$10,000 to \$14,999	21,657	20,378	13,306	12,255
\$15,000 to \$24,999	53,305	52,230	36,267	41,668
\$25,000 to \$34,999	52,186	62,051	38,048	34,741
\$35,000 to \$49,999	68,063	67,356	53,675	52,834
\$50,000 to \$74,999	73,616	98,013	62,526	86,333
\$75,000 to \$99,999	31,076	42,095	26,985	37,195
\$100,000 to \$149,999	17,640	24,514	14,901	22,849
\$150,000 or more	7,801	6,255	6,557	4,939
Median income (dollars)	38,829	42,662	43,176	49,797

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).

**Table 13.14-- MEDIAN INCOME FOR FOUR-PERSON FAMILIES:
FISCAL YEAR 1996**

[Estimated by U.S. Bureau of the Census from the 1990 Census of Population, 1993 BEA estimates of per capita personal income, and the March 1994 CPS]

Area	Amount
United States	\$45,161
Hawaii	\$54,856
Rank (50 States and D.C.)	4

Source: U.S. Dept. of Health and Human Services, Office of Community Services, "State Median Income Estimates for Four-Person Families (FY1996); Notice of the Fiscal Year (FY) 1996 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," *Federal Register*, March 30, 1995.

**Table 13.15-- 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 13.16-- POVERTY STATUS OF PERSONS: 1969, 1975, AND
1979 TO 1995**

[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	1985	109,000	10.7
1975	67,000	7.9	1986	109,000	10.7
1979	91,618	9.9	1987	95,000	8.8
1989	88,408	8.3	1988	117,000	11.1
			1989	122,000	11.3
CPS: 1/			1990	121,000	11.0
1980	81,000	8.5	1991	90,000	7.7
1981	108,000	11.3	1992	129,000	11.0
1982	132,000	13.2	1993	91,000	8.0
1983	135,000	13.4	1994	97,000	8.7
1984	92,000	9.3	1995 2/	(NA)	10.3

NA Not available.

1/ Current Population Survey. Based on small samples and subject to considerable sampling variation.

2/ Standard error in 1995 was 1.68 for the poverty rate. For the entire United States in 1995, the poverty rate was 13.8 percent. Hawaii was the fourteenth lowest State in poverty rate in 1995.

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, and No. 194 (Sept. 1996), tables A and B; Release CB95-185 (October 5, 1995); *Statistical Abstract of the United States: 1995* (p. 482) and *1996* (p. 474).

**Table 13.17-- 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 13.17-- 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 13.18-- POVERTY INCOME GUIDELINES: 1993 TO 1996

[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	Effective Feb. 12, 1993	Effective Feb. 10, 1994	Effective Feb. 9, 1995	Effective Mar. 4, 1996
1	8,040	8,470	8,610	8,910
2	10,860	11,320	11,550	11,920
3	13,680	14,170	14,490	14,930
4	16,500	17,020	17,430	1/ 17,940
5	19,320	19,870	20,370	20,950
6	22,140	22,720	23,310	23,960
7	24,960	25,570	26,250	26,970
8	27,780	28,420	29,190	2/ 29,980

1/ Corresponding levels for four-person families elsewhere in the United States were \$15,600 on the Mainland and \$19,500 in Alaska.

2/ For larger families, add \$3,010 for each additional member.

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, and March 4, 1996.

Table 13.19-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR OAHU: 1990-91 TO 1993-94

[Annual averages for two-year periods]

Item	1990-91	1991-92	1992-93	1993-94
Average annual expenditures	36,394	37,273	38,997	43,214
Food	5,634	6,333	7,104	6,815
Food at home	3,163	3,455	3,889	3,899
Cereals and bakery products	451	519	582	606
Meats, poultry, fish, and eggs	875	946	1,151	1,144
Dairy products	270	278	294	294
Fruits and vegetables	611	693	781	751
Other food at home	955	1,019	1,080	1,105
Food away from home	2,471	2,878	3,215	2,916
Alcoholic beverages	470	449	503	417
Housing	11,196	11,863	12,261	14,301
Shelter	7,432	8,080	8,352	9,957
Owned dwellings	3,744	3,775	4,163	5,399
Rented dwellings	3,369	4,000	3,837	3,896
Other lodging	319	305	351	662
Utilities, fuels, and public services	1,272	1,448	1,673	1,835
Household operations	552	509	430	532
Housekeeping supplies	488	514	483	489
Housefurnishings and equipment	1,451	1,313	1,324	1,489
Apparel and services	1,728	2,166	2,086	1,712
Transportation	6,052	5,628	5,490	2,259
Vehicle purchases (net outlay)	2,523	2,061	1,809	2,259
Gasoline and motor oil	852	759	819	937
Other vehicle expenses	1,818	1,972	2,083	2,246
Public transportation	859	837	780	942
Health care	1,623	1,557	1,661	1,910
Entertainment	1,618	1,534	1,652	1,870
Personal care products and services	498	515	496	528
Reading	209	204	203	233
Education	693	573	1,043	1,428
Tobacco products and smoking supplies	181	228	282	257
Miscellaneous	1,854	1,837	1,109	1,324
Cash contributions	1,179	1,139	1,029	1,253
Personal insurance and pensions	3,459	3,245	4,078	4,781
Life and other personal insurance	581	446	424	594
Pensions and Social Security	2,878	2,799	3,654	4,187

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Table 13.19-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR OAHU: 1990-91 TO 1993-94 -- Con.

Item	1990-91	1991-92	1992-93	1993-94
Consumer unit characteristics:				
Number of consumer units (thousands)	242,000	266,000	265,000	257,000
Income before taxes (dollars)	41,499	42,156	46,404	52,064
Age of reference person	49.0	48.8	48.2	49.3
No. of persons in consumer unit	2.8	2.6	2.7	2.8
No. of children under 18 in consumer unit	0.7	(NA)	(NA)	0.7
No. of persons 65 and over in consumer unit	0.4	(NA)	(NA)	0.4
No. of earners	1.5	1.4	1.6	1.7
No. of vehicles	1.6	1.5	1.6	1.7
Percent homeowner	49	44	47	52

NA Not available.

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Selected Western Metropolitan Statistical Areas: Average Annual Expenditures, Characteristics, and Sources of Income Consumer Units* (annual).

Table 13.20-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR THE WESTERN UNITED STATES (INCLUDING OAHU): 1993-94

[Annual averages for two-year periods]

Item	Western United States	Los Angeles	San Francisco	San Diego	Portland	Seattle	Anchorage	Oahu	Oahu rank within western US
Average annual expenditures	34,867	35,490	41,440	34,396	33,579	35,216	40,940	43,214	1
Food	4,662	4,731	5,349	4,330	4,292	4,446	5,527	6,815	1
Food at home	2,923	2,878	3,184	2,564	2,752	2,791	3,618	3,899	1
Cereals and bakery products	455	438	518	394	444	449	565	606	1
Meats, poultry, fish, and eggs	711	749	736	563	635	633	891	1,144	1
Dairy products	319	314	330	320	302	327	344	294	8
Fruits and vegetables	484	521	579	472	444	469	644	751	1
Other food at home	954	856	1,021	814	928	913	1,173	1,105	2
Food away from home	1,739	1,854	2,165	1,766	1,540	1,655	1,908	2,916	1
Alcoholic beverages	321	314	408	483	339	462	589	417	4
Housing	11,460	12,961	14,457	12,335	11,375	11,514	13,130	14,301	2
Shelter	7,070	8,552	9,434	8,480	6,982	7,039	8,309	9,957	1
Owned dwellings	4,196	4,790	5,623	4,782	4,308	4,753	4,671	5,399	2
Rented dwellings	2,441	3,338	3,183	3,342	2,234	1,903	3,188	3,896	1
Other lodging	433	424	628	357	441	383	450	662	1
Utilities, fuels, and public services	1,961	1,978	2,043	1,753	1,860	1,732	2,288	1,835	6
Household operations	566	691	669	579	639	497	517	532	6
Housekeeping supplies	434	465	423	400	456	493	369	489	2
Housefurnishings and equipment	1,430	1,276	1,889	1,123	1,437	1,753	1,646	1,489	4
Apparel and services	1,721	2,045	1,741	1,638	1,696	1,619	2,080	1,712	5
Transportation	6,330	5,825	6,779	6,098	6,314	6,319	6,320	2,259	8
Vehicle purchases (net outlay)	2,603	2,019	2,621	1,960	3,003	2,573	2,085	2,259	5
Gasoline and motor oil	1,066	1,081	1,091	1,071	981	1,034	1,007	937	8

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Table 13.20-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR THE WESTERN UNITED STATES (INCLUDING OAHU): 1993-94 -- Con.

Item	Western United States	Los Angeles	San Francisco	San Diego	Portland	Seattle	Anchorage	Oahu	Oahu rank within western US
Transportation - con.:									
Other vehicle expenses	2,230	2,354	2,447	2,595	1,847	2,228	2,395	2,246	5
Public transportation	431	371	619	470	482	481	833	942	1
Health care	1,734	1,450	1,663	1,486	1,540	1,537	1,921	1,910	2
Entertainment	1,886	1,669	2,125	1,834	1,778	2,301	3,360	1,870	5
Personal care products and services	433	527	509	341	384	356	433	528	1
Reading	186	146	236	197	231	198	230	233	2
Education	489	556	567	386	284	499	415	1,428	1
Tobacco products and smoking supplies	209	197	212	216	269	211	245	257	2
Miscellaneous	892	925	1,110	629	785	1,012	994	1,324	1
Cash contributions	990	844	1,329	958	702	799	1,455	1,253	3
Personal insurance and pensions	3,553	3,298	4,955	3,465	3,591	3,946	4,242	4,781	2
Life and other personal insurance	375	216	785	370	291	246	610	594	3
Pensions and Social Security	3,178	3,082	4,169	3,095	3,300	3,700	3,632	4,187	1
Consumer unit characteristics:									
Number of consumer units (thousands)	20,966	5,066	2,336	855	735	1,183	105	257	7
Income before taxes (dollars)	39,929	42,292	47,997	39,294	37,887	43,870	49,621	52,064	1
Age of reference person	46.6	47.5	46.5	46.6	45.3	44.3	41.6	49.3	1
No. of persons in consumer unit	2.7	2.7	2.6	2.4	2.4	2.5	2.6	2.8	1
No. of children under 18 in consumer unit	0.8	0.8	0.6	0.6	0.7	0.7	0.7	0.7	3
No. of persons 65 and over in consumer unit	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.4	1
No. of earners	1.4	0.8	1.5	1.3	1.4	1.4	1.6	1.7	1
No. of vehicles	2.2	1.8	2.0	1.8	2.2	2.3	2.3	1.7	8
Percent homeowner	59	52	56	52	58	62	55	52	8

Source: U.S. Dept. of Labor, Bureau of Labor Statistics, *Selected Western Metropolitan Statistical Areas: Average Annual Expenditures, Characteristics, and Sources of Income Consumer Units 1993-94*.

Table 13.21-- TOP WEALTHHOLDERS: 1962 TO 1989

[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

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, and Spring 1993, pp. 105-121.

**Table 13.22-- TOTAL AND SELECTED ASSETS, DEBTS AND MORTGAGES,
AND NET WORTH OF TOP WEALTHHOLDERS: 1989**

[Top wealthholders are defined for this table as persons with net worth under \$10,000,000
and gross assets of \$600,000 or more]

Subject	Number of persons	Amount (millions of dollars)
Total assets 1/	22,300	28,393
Debts and mortgages	18,300	2,447
Net worth	22,300	25,947
Total assets by type:		
Real estate	19,100	11,713
Corporate stock	14,800	8,707
Cash	22,200	2,194
Bonds	7,900	1,542

1/ For the U.S., top wealthholders numbered 3,380,300. Hawaii ranked 32rd among the 50 States. In top wealthholders per 10,000 residents, ratios were 204 for Hawaii and 137 for the entire nation.

Source: U.S. Internal Revenue Service, "Personal Wealth, 1989," *SOI Bulletin*, Spring 1993, pp. 105-121, table 7.

Table 13.23-- (NET) WORTH OF RICHEST RESIDENTS: 1988 TO 1996

Name	Residence	Age (years)	Net worth (million dollars)	Primary sources
1988				
Anthony, Barbara Cox	Honolulu	65	2,250	Inheritance (Cox Enterprises)
Weinberg, Harry	Honolulu, Baltimore	80	850	Real estate, securities
Campbell family	Hawaii, other locations	...	650	Real estate
Goldman family	Honolulu, NYC, Colorado, Oklahoma	...	400	Inheritance, real estate
Kelley family	Honolulu	...	500	Hotels
Smart, Richard P.K.	Honolulu, Waimea	75	275	Inheritance, ranching
Hemmeter, Christopher B.	Kahala Beach	49	225	Real estate
1989				
Anthony, Barbara Cox	Honolulu	66	2,500	Inheritance (Cox Enterprises)
Weinberg, Harry	Honolulu, Baltimore	81	800	Real estate, securities
Campbell family	Hawaii, other locations	...	650	Real estate
Duke, Doris	Honolulu, NJ, RI	76	850	Inheritance
Kelley family	Honolulu	...	580	Hotels
Smart, Richard P.K.	Honolulu, Waimea	76	310	Inheritance, ranching
1990				
Anthony, Barbara Cox	Honolulu	67	2,600	Inheritance (Cox Enterprises)
Weinberg, Harry	Honolulu, Baltimore	82	950	Real estate, securities
Campbell family	Hawaii, other locations	...	700	Real estate
Duke, Doris	Honolulu, NJ, RI	77	750	Inheritance
Kelley family	Honolulu	...	500	Hotels
Smart, Richard P.K.	Honolulu, Waimea	77	325	Inheritance, ranching
1991				
Anthony, Barbara Cox	Honolulu	68	2,000	Inheritance (Cox Enterprises)
Ward family	Hawaii	...	500	(NS)
Campbell family	Hawaii, other locations	...	675	Real estate
Duke, Doris	Honolulu, NJ, RI	78	750	Inheritance
Kelley family	Honolulu	...	400	Hotels
Smart, Richard P.K.	Honolulu, Waimea	78	300	Inheritance, ranching

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Table 13.23-- (NET) WORTH OF RICHEST RESIDENTS: 1988 TO 1996 -- Con.

Name	Residence	Age (years)	Net worth (million dollars)	Primary sources
1992				
Anthony, Barbara Cox	Honolulu	69	2,100	Inheritance (Cox Enterprises)
Campbell family	Hawaii, other locations	...	700	Real estate
Duke, Doris	Honolulu, NJ, RI	79	750	Inheritance
Kelley family	Honolulu	...	400	Hotels
Smart, Richard P.K.	Honolulu, Waimea	79	265	Inheritance, ranching
1993				
Anthony, Barbara Cox	Honolulu	70	2,400	Inheritance (Cox Enterprises)
Campbell family	Hawaii, other locations	...	700	Real estate
Duke, Doris	Honolulu, NJ, RI	80	750	Inheritance
Kelley family	Honolulu	...	430	Hotels
Schuler, James K.	Honolulu	55	345	Real estate
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 1/	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

NS Not specified.

1/ Sisters Barbara and Anne Cox Chambers, of Atlanta, share a fortune worth more than \$8 billion; members of the Forbes 400 since 1982.

Source: "The Forbes Four Hundred," *Forbes*, October 27, 1986, pp. 106-312; October 26, 1987, pp 106-333; October 24, 1988, pp. 142-347; October 23, 1989, pp. 145-358; October 22, 1990, pp 116-327; October 21, 1991, pp. 145-317; October 19, 1992, pp. 90-270; October 18, 1993, pp. 110-313; October 17, 1994, pp. 100-348; October 16, 1995, pp 106-368; October 14, 1996, pp. 100-356.

Section 14

PRICES

This section presents indexes of consumer prices for Honolulu, the implicit price deflator for gross state product, and comparisons of Honolulu living costs with those in other urban areas. 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 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 Bureau of Labor Statistics for Honolulu and the Mainland were discontinued after 1981. Unofficial 1982-1995 estimates by the Bank of Hawaii have recently been discontinued. A comparison of prices in Hawaii and Washington, D.C., compiled for the U.S. Office of Personnel Management as a basis for cost of living adjustments for Federal employees, was most recently published for 1990. 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: 1996*, 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 1995**

[1982 = 100 and 1987 = 100]

Year	Deflator 1982 = 100	Deflator 1987 = 100	Year	Deflator 1982 = 100	Deflator 1987 = 100
1958	34.1	28.5	1977	71.0	59.4
1959	33.9	28.4	1978	77.1	64.5
1960	34.4	28.8	1979	84.1	70.4
1961	35.9	30.1	1980	89.3	74.7
1962	35.9	30.1	1981	93.3	78.0
1963	37.5	31.4	1982	100.0	83.7
1964	37.3	31.2	1983	104.2	87.2
1965	37.7	31.5	1984	108.1	90.5
1966	39.1	32.7	1985	111.7	93.5
1967	40.8	34.1	1986	114.3	95.6
1968	42.2	35.3	1987	119.5	100.0
1969	44.4	37.1	1988	125.8	105.3
1970	47.3	39.6	1989	132.2	110.6
1971	48.7	40.7	1990	140.6	117.7
1972	50.7	42.4	1991	149.4	125.0
1973	54.7	45.8	1992	156.6	131.0
1974	63.0	52.8	1993	160.7	134.5
1975	63.9	53.5	1994	164.8	137.8
1976	67.5	56.5	1995	167.8	140.5

Source: Hawaii State Department of Business and Economic Development, *Hawaii Gross State Product Accounts: 1958-1988* (June 1989), tables 1-A and 1-5, and records.

Table 14.02-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR U.S. AND HONOLULU: ANNUAL AVERAGES, 1940 TO 1996

[1982-1984 average = 100. Excludes rent before 1963]

Year	Honolulu		U.S.	
	CPI-U	CPI-W	CPI-U	CPI-W
1940	14.7	14.5	14.0	14.1
1941	15.5	15.3	14.7	14.8
1942	17.6	17.4	16.3	16.4
1943	18.9	18.7	17.3	17.4
1944	19.2	19.0	17.6	17.7
1945	19.7	19.5	18.0	18.1
1946	21.0	20.8	19.5	19.6
1947	24.4	24.1	22.3	22.5
1948	25.7	25.4	24.1	24.2
1949	25.2	24.9	23.8	24.0
1950	24.3	24.0	24.1	24.2
1951	25.7	25.4	26.0	26.1
1952	26.5	26.2	26.5	26.7
1953	26.7	26.4	26.7	26.9
1954	26.9	26.6	26.9	27.0
1955	27.3	27.0	26.8	26.9
1956	27.7	27.4	27.2	27.3
1957	28.6	28.3	28.1	28.3
1958	30.0	29.6	28.9	29.1
1959	30.5	30.1	29.1	29.3
1960	31.3	30.9	29.6	29.8
1961	32.1	31.7	29.9	30.1
1962	32.8	32.4	30.2	30.4
1963	33.5	33.1	30.6	30.8
1964	33.7	33.3	31.0	31.2
1965	34.4	33.9	31.5	31.7
1966	35.3	34.8	32.4	32.6
1967	36.3	35.8	33.4	33.6
1968	37.7	37.2	34.8	35.0
1969	39.4	38.8	36.7	36.9

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Table 14.02-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR U.S. AND HONOLULU: ANNUAL AVERAGES, 1940 TO 1996 -- Con.

Year	Honolulu		U.S.	
	CPI-U	CPI-W	CPI-U	CPI-W
1970	41.5	40.9	38.8	39.0
1971	43.2	42.6	40.5	40.7
1972	44.6	44.0	41.8	42.1
1973	46.6	45.9	44.4	44.7
1974	51.5	50.8	49.3	49.6
1975	56.3	55.5	53.8	54.1
1976	59.1	58.3	56.9	57.2
1977	62.1	61.2	60.6	60.9
1978	66.9	65.9	65.2	35.6
1979	74.3	73.2	72.6	73.1
1980	83.0	81.9	82.4	82.9
1981	91.7	90.5	90.9	91.4
1982	97.2	96.0	96.5	96.9
1983	99.3	99.8	99.6	99.8
1984	103.5	104.3	103.9	103.3
1985	106.8	107.9	107.6	106.9
1986	109.4	110.3	109.6	108.6
1987	114.9	115.9	113.6	112.5
1988	121.7	122.8	118.3	117.0
1989	128.7	129.7	124.0	122.6
1990	138.1	138.9	130.7	129.0
1991	148.0	148.9	136.2	134.3
1992	155.1	155.9	140.3	138.2
1993	160.1	160.7	144.5	142.1
1994	164.5	164.7	148.2	145.6
1995	168.1	168.4	152.4	149.8
1996	170.7	171.0	156.9	154.1

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. 1987-1996: U. S. Department of Labor, Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI; BLS FAXSTAT 9225, August 13, 1996; and for 1995-96, BLS FAXSTAT Codes 2265 and 9225; and <http://stats.bls.gov/special.requests/sanfrancisco/cpihono.txt> (February 19, 1997). For the U.S., <http://stats.bls.gov/cgi-bin/surveymost> (March 19, 1997).

**Table 14.03-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY
TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1996**

[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

Source: U.S. Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI, FAXSTAT 9225, February 19, 1997.

**Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS
(CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE
GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1991 TO 1996**

[Unless otherwise specified, 1982-1984 average=100]

Group	1991	1992	1993	1994	1995	1996
All items	148.0	155.1	160.1	164.5	168.1	170.7
Food and beverages	145.9	148.5	152.9	153.4	156.8	156.6
Food	145.9	148.3	152.7	153.2	157.0	156.6
Food at home	152.8	155.0	158.0	157.8	162.1	159.5
Cereals and bakery products	159.5	163.3	166.0	163.5	168.4	170.8
Meats, poultry, fish, and eggs	154.5	157.3	154.5	137.9	136.0	135.6
Meats, poultry, and fish	155.5	159.1	156.0	138.1	135.8	135.1
Dairy products	125.6	128.2	130.3	132.4	133.8	139.4
Fruits and vegetables	175.8	172.9	181.0	192.3	201.2	194.9
Other foods at home	138.2	143.2	150.6	164.0	173.4	165.1
Food away from home	133.6	137.8	141.9	146.4	149.2	150.8
Alcoholic beverages	144.4	151.1	155.0	155.8	152.3	156.2
Housing	152.8	161.7	166.5	171.6	174.7	176.8
Shelter	169.3	179.6	183.5	188.7	191.7	193.5
Renters' costs 1/	174.6	185.2	190.4	195.6	197.9	200.3
Rent, residential	165.5	175.8	181.4	185.9	187.0	187.3
Other renters' costs	191.0	201.9	203.1	212.0	220.9	235.3
Homeowners' costs 1/	175.1	185.8	188.9	194.6	197.8	199.3
Owners' equivalent rent 1/	176.0	186.8	189.9	195.6	198.9	200.4
Fuel and other utilities	101.3	106.1	117.5	121.3	128.4	133.8
Fuels	85.6	90.0	102.6	101.9	111.6	115.9
Gas (piped) and electricity	84.9	89.4	101.8	101.1	110.8	115.2
Electricity	83.2	88.0	101.6	101.0	111.1	114.5
Utility (piped) gas	99.0	98.8	96.8	94.2	98.9	114.7
Household furnishings and operation	130.7	137.3	140.0	145.6	146.0	146.4
Apparel and upkeep	110.5	114.2	116.5	118.7	117.5	118.5
Apparel commodities	107.8	111.1	113.2	115.3	114.0	115.0
Men's and boys' apparel	126.7	131.8	135.8	149.8	152.1	149.0
Women's and girls' apparel	98.3	100.5	103.8	95.9	94.6	95.2
Footwear	102.5	104.7	98.0	98.2	94.4	96.8
Transportation	139.3	147.4	150.5	156.4	162.4	167.0
Private transportation	141.0	149.8	152.1	156.7	162.8	168.2
Motor fuel	113.2	117.5	121.3	123.1	125.5	131.9
Gasoline	115.1	119.6	124.1	126.0	128.4	134.9
Unleaded, regular	(NA)	(NA)	(NA)	(NA)	(NA)	141.4
Unleaded midgrade 2/	(NA)	(NA)	(NA)	(NA)	(NA)	105.9
Unleaded, premium	(NA)	(NA)	(NA)	(NA)	(NA)	123.8
Public transportation	125.0	128.3	137.1	152.5	158.4	156.0

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, 1991 TO 1996 -- Con.**

Group	1991	1992	1993	1994	1995	1996
Medical care	171.3	182.6	197.4	206.0	209.8	215.0
Entertainment	134.3	136.3	138.3	142.3	144.2	147.8
Other goods and services	175.7	189.0	200.1	209.6	216.8	226.5
Personal care	144.8	153.3	158.6	162.9	165.8	169.4
All items	148.0	155.1	160.1	164.5	168.1	170.7
Commodities	134.9	138.5	141.4	142.9	145.1	146.3
Food and beverages	145.9	148.5	152.9	153.4	156.8	156.6
Commodities less food and beverages	126.1	130.5	132.1	134.5	135.8	138.1
Nondurables less food and beverages	127.4	133.2	136.8	138.6	139.6	142.2
Durables	124.4	126.5	124.9	128.2	130.0	131.8
Services	159.6	169.9	176.6	183.5	188.3	192.1
Medical care services	173.1	183.6	199.1	208.0	211.7	216.7
Special indexes:						
All items less shelter	139.6	145.6	150.9	155.0	158.9	161.8
All items less medical care	146.6	153.5	158.0	162.2	165.8	168.3
All items less energy	152.7	160.2	164.9	169.7	173.1	175.5
Energy	100.2	104.6	112.6	113.2	119.0	124.4
All items less food and energy						180.5
Commodities less food	127.0	131.4	133.2	135.5	136.6	138.9
Nondurables less food	128.6	134.3	138.0	139.8	140.3	143.0
Nondurables	137.7	141.6	145.7	146.8	149.1	150.1
Services less rent of shelter 1/	150.3	160.9	171.0	179.9	186.8	192.9
Services less medical care	158.1	168.3	174.4	181.1	186.0	189.7

1/ Indexes on a December 1982=100.

2/ Indexes on a December 1993=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 1995-96, BLS FAXSTAT Codes 2265 and 9225; and <http://stats.bls.gov/special.requests/sanfrancisco/cpihono.txt>, February 19, 1997.

Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1995

[Percent of all items]

Group	CPI-U 1/	CPI-W 2/
EXPENDITURE CATEGORY		
All items	100.000	100.000
Food and beverages	19.317	20.301
Food	18.021	18.754
Food at home	11.793	11.786
Cereals and bakery products	1.524	1.743
Meats, poultry, fish, and eggs	3.223	3.486
Meats, poultry, and fish	3.001	3.203
Dairy products	.874	.839
Fruits and vegetables	3.258	2.983
Other foods at home	2.914	2.735
Food away from home	6.228	6.967
Alcoholic beverages	1.296	1.548
Housing	43.149	40.262
Shelter	32.523	30.047
Renters' costs	9.473	9.560
Rent, residential	7.999	8.552
Other renters' costs	1.474	1.008
Homeowners' costs	22.806	20.299
Owners' equivalent rent	22.631	20.176
Fuel and other utilities	4.684	5.022
Fuels	2.286	2.414
Fuel oil, and other household fuel	.023	.028
Fuel oil	.001	.005
Other household fuel commodities	.021	.023
Gas (piped) and electricity	2.263	2.386
Electricity	2.091	2.136
Utility (piped) gas	.172	.250
Household furnishings and operation	5.942	5.194
Apparel and upkeep	4.296	4.544
Apparel commodities	3.970	4.204
Men's and boys' apparel	1.285	1.443
Women's and girls' apparel	1.453	1.506
Footwear	.452	.508

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Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1995 -- Con.

Group	CPI-U 1/	CPI-W 2/
EXPENDITURE CATEGORY -- Con.		
Transportation	16.534	18.612
Private transportation	14.879	17.287
Motor fuel	2.844	3.481
Public transportation	1.655	1.325
Medical care	5.833	5.693
Entertainment	4.030	3.917
Other goods and services	6.840	6.670
Personal care	1.281	1.402
COMMODITY AND SERVICE GROUP		
All items	100.000	100.000
Commodities	39.740	42.929
Food and beverages	19.317	20.301
Commodities less food and beverages	20.423	22.628
Nondurables less food and beverages	13.025	14.393
Durables	7.398	8.235
Services	60.260	57.071
Medical care services	4.813	4.643
Special indexes:		
All items less shelter	67.477	69.953
All items less medical care	94.167	94.307
All items less energy	94.871	94.105
All items less food and energy	76.850	75.352
Energy	5.129	5.895
Commodities less food	21.719	24.176
Nondurables less food	14.321	15.940
Nondurables	32.342	34.694
Services less rent of shelter	28.167	27.347
Services less medical care services	55.447	52.428

1/ Consumer price index for all urban consumers.

2/ Consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, *Relative Importance of Components in the Consumer Price Index, 1995, Bulletin 2476*, February 1996 (pg. 17).

Table 14.06-- EXPENDITURES ON A CHILD FROM BIRTH TO AGE 18: 1993

[In dollars. Data pertain to husband-wife families living in urban areas in the Western States]

Family income level	Income range	Expenditures on a child	
		18-year total	Annual average
Lower income level	<32,100	107,040	5,947
Middle income level	32,100 - 54,400	142,680	7,927
Higher income level	>54,400	201,570	11,198

Source: U.S. Department of Agriculture, *Family Economics Review*, Vol. 7, No. 3, 1994, p.14.

**Table 14.07-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON
FAMILY ON OAHU: 1971 TO 1995**

Year	Dollars	Percent of urban U.S.	Year	Dollars	Percent of urban U.S.
1971	13,108	119.5	1984	35,484	124.4
1972	13,617	119.0	1985	36,926	122.7
1973	14,937	118.3	1986	38,437	123.2
1974	17,019	118.8	1987	41,790	126.7
1975	18,107	117.0	1988	44,414	129.2
1976	19,036	117.2	1989	47,950	130.7
1977	20,883	122.1	1990	52,139	134.1
1978	23,099	124.0	1991	55,009	136.3
1979	25,799	125.7	1992	57,345	138.8
1980	28,488	123.1	1993 1/	59,129	138.7
1981	31,893	125.5	1994 1/	59,412	135.6
1982	33,403	124.5	1995 1/	60,689	135.1
1983	33,890	124.3			

1/ Preliminary.

Source: U.S. Bureau of Labor Statistics, annual releases for 1971-81; 1982-95 estimates by Paul Brewbaker, Bank of Hawaii Economics Department.

Note: Updates of this series have been discontinued by the Bank of Hawaii.

Table 14.08-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY IN THE UNITED STATES AND ON OAHU: 1981 AND 1995

[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 1995 values 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	Urban United States (dollars)		Oahu (dollars)		Oahu as percent of urban U.S.	
	1981	1995	1981	1995	1981	1995
Total budget	25,409	44,922	31,893	60,689	125.5	135.1
Consumption	18,242	32,022	21,530	40,059	118.0	125.1
Food	5,843	9,315	7,626	13,150	130.5	141.2
Food at home	4,866	7,658	6,649	11,492	136.6	150.1
Food away from home	977	1,657	977	1,659	100.0	100.1
Housing	5,547	9,603	6,493	12,195	117.1	127.0
Homeowner shelter costs	4,886	8,915	5,467	10,837	111.9	121.6
Renter shelter costs	2,732	5,168	3,991	7,257	146.1	140.4
Housefurnishings and operations	1,199	1,625	1,395	2,253	116.3	138.7
Transportation	2,372	3,625	2,421	4,004	102.1	110.4
Clothing	1,333	1,846	1,432	1,803	107.4	97.7
Personal care	508	831	590	1,113	116.1	133.8
Medical care	1,443	3,821	1,590	4,085	110.2	106.9
Other family consumption 1/	1,196	2,980	1,378	3,711	115.2	124.5
Other items 2/	1,021	1,721	1,137	2,086	113.6	121.2
Social Security payments	1,703	3,483	2,049	4,554	120.3	130.8
Personal income taxes 3/	4,443	7,422	7,177	13,600	161.5	183.3

1/ Reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

2/ Includes gifts and contributions, life insurance, and occupational expenses.

3/ 1995 values based on 1992 data.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release USDL: 82-139, April 16, 1981); 1995 estimates by Paul H. Brewbaker, Economics Department, Bank of Hawaii, in "Hawaii's Cost of Living in 1990: Urban Four-Person Family Budgets at an Intermediate Standard of Living" (1991), as updated to 1995.

Note: Updates of this series have been discontinued by the Bank of Hawaii.

Table 14.09-- COST OF LIVING INDEX FOR HILO: 1990 AND 1991

[Hilo living costs as a percent of average costs in 308 participating urban areas]

Component	Weight (percent)		Index	
	2nd qtr. 1990	4th qtr. 1991 1/	2nd qtr. 1990	4th qtr. 1991 1/
Composite index	100	100	132.5	136.7
Grocery items	17	13	140.7	153.5
Housing	22	28	162.3	172.3
Utilities	11	9	102.0	101.2
Transportation	13	10	127.2	136.7
Health care	7	5	110.7	123.5
Miscellaneous goods and services	30	35	124.6	117.2

1/ Most recent quarter surveyed. Hilo discontinued its participation in this survey after the fourth quarter of 1991.

Source: American Chamber of Commerce Researchers Association (ACCRA), *Cost of Living Index* (quarterly), provided by Institute for Business and Economic Studies, University of Hawaii at Hilo.

Table 14.10-- COMPARATIVE LIVING COSTS FOR HONOLULU AND OTHER METROPOLITAN AREAS: MARCH-APRIL 1995

[Based on a survey of 400 metropolitan areas. Data exclude housing, transportation, and personal income taxes]

Rank	Metropolitan area	Index 1/
1	New York, N.Y. (Manhattan only) 2/	132.1
2	Honolulu, Hawaii 2/	120.5
3	Washington, D.C.	113.0
4	Anchorage, Alaska	108.0
5	Los Angeles, California	108.0
...	U.S. median	100.0
400	Billings, Montana	91.6

1/ Percent of U.S. median.

2/ For the entire New York MSA, the index was lower than that of Honolulu.

Source: Runzheimer International, cited in *Honolulu Star-Bulletin*, November 14, 1995, p. B-1, and *The Honolulu Advertiser*, November 15, 1995, p. D1.

**Table 14.11-- INDEXES OF EXECUTIVE LIVING COSTS IN SELECTED
MAJOR CITIES WORLDWIDE: MARCH 1992**

[Honolulu = 100]

City	General index	City	General index
Honolulu	100	San Francisco	109
Chicago	111	Seattle	93
Hong Kong	135	Singapore	117
Los Angeles	109	Sydney	117
Manila	75	Taipei	153
New York	124	Tokyo	211

Source: Business International, *Business International Cost of Living* (London, 1992), report for Hawaii State Department of Business, Economic Development & Tourism.

Table 14.12-- COMPARATIVE PRICES OF SELECTED GOODS AND SERVICES, FOR HONOLULU AND TEN OTHER CITIES: 1995

[Dollars]

Item	Honolulu	11 cities 1/		
		Median	Lowest	Highest
Fast food (1 meal)	4.33	4.84	2.69	7.20
Cigarettes (carton)	19.88	24.65	12.13	36.56
Beer (6-pack)	4.87	5.02	2.63	13.31
Men's jeans	31.63	63.73	31.63	112.51
Woman's blouse	32.66	47.88	32.28	139.26
Aspirin (100)	7.82	7.82	1.78	36.57
Taxi (airport to downtown)	19.69	16.05	1.68	39.86

1/ Frankfurt, Hong Kong, Honolulu, London, Los Angeles, Mexico City, Paris, Singapore, Sydney, Tokyo, and Toronto.

Source: Runzheimer International, cited in *The Honolulu Advertiser*, July 29, 1995, p. A3.

Table 14.13-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C., BY COUNTIES: 1990-1993

Allowance category 1/	City and Co. of Honolulu	Kauai County	Maui County	Hawaii County
INDEXES 2/				
"Part 1" methodology:				
Local pricing	120.39	116.08	119.58	104.86
Exchange and commissary	115.00	...	...	...
"Part 2" methodology:				
Local pricing	119.45	114.90	118.31	104.36
Exchange and commissary	114.34	...	...	...
ALLOWANCE RATES 3/				
Local retail	22.5	17.5	20.0	15.0
Commissary, exchange	12.5	17.5	...	...

1/ Based on access to military commissary and exchange facilities. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, exchange," to Federal employees who have unlimited access to and who use military commissary and exchange facilities.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in June-September 1990. Indexes were calculated by two different methods.

3/ Authorized allowance rate, expressed as a percentage differential, effective February 15, 1990 and reaffirmed January 8, 1993.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances," *Federal Personnel Manual System*, FPM Letter 591-51 (1990), "Cost-of-Living Allowances and Post Differentials (Nonforeign Areas); Advance Notice of Proposed Rulemaking; Proposed Rule," *Federal Register*, Vol. 56 No. 38, Part II, February 26, 1991, pp. 7902-7986, at pp. 7902-7903; and "Cost-of-Living Allowances and Post Differentials (Nonforeign Areas); Final Rule," *Federal Register*, Vol. 57, No. 237, December 9, 1992, pp. 58123-58124.

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: 1996*.

**Table 15.01-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES:
1985 TO 1995**

[Includes main offices; 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
1985	10	179	8	163	4	7	66	201
1986	10	181	8	163	3	6	66	204
1987	10	185	7	148	3	6	64	199
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
TYPE OF CHARTER: 1995								
Federal	1	12	4	136	-	-	-	-
State	5	178	2	23	1	3	40	164
ISLANDS: 1995								
Hawaii	5	24	5	18	1	1	10	20
Maui	5	21	6	16	1	1	10	15
Lanai	1	1	1	1	-	-	-	-
Molokai	1	1	1	1	-	-	1	1
Oahu	6	129	6	114	1	1	36	117
Kauai	3	14	5	9	-	-	9	11
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: 1994**

SIC code	Major group	Establishments	Employment
	Total	3,897	39,811
60	Depository institutions	599	12,608
602	Commercial banks	310	8,872
603	Savings institutions	121	1,784
61	Nondepository institutions	240	1,991
62	Security and commodity brokers	87	844
63	Insurance carriers	151	4,412
64	Insurance agents, brokers and service	347	2,880
65	Real estate	2,345	16,181
67	Holding and other investment offices	117	732
-	Administrative and auxiliary	11	163

Source: U.S. Bureau of the Census, *County Business Patterns 1994, Hawaii*, CBP-94-13 (September 1996), 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:
1984 TO 1994**

[In millions of dollars. As of December 31]

Year	Deposits			Debits to bank demand deposits 1/	Loans	
	All financial institutions	Bank demand deposits 1/			All financial institutions	Banks 1/
		Private	Other			
1984	12,626.5	1,825.3	5,358.6	91,805.8	10,426.8	4,698.1
1985	12,911.7	1,469.3	6,763.3	95,870.4	9,953.5	5,098.0
1986	13,172.7	2,001.3	7,471.9	109,927.9	9,731.6	5,861.3
1987	14,795.6	1,981.7	8,414.7	121,926.3	10,859.2	6,330.4
1988	18,639.7	2,166.7	9,356.5	130,612.3	14,059.2	7,766.6
1989	21,358.5	2,026.5	11,649.1	172,698.3	16,655.7	9,704.2
1990	23,606.7	2,150.0	12,987.1	217,639.4	18,824.3	11,206.3
1991	23,815.2	2,050.0	12,795.4	239,886.5	21,052.7	11,620.0
1992	23,527.1	2,200.3	11,712.4	(NA)	21,920.6	12,729.3
1993	22,343.9	2,361.5	10,580.4	(NA)	22,604.4	12,095.8
1994	22,044.3	2,111.8	10,488.5	(NA)	25,484.6	12,907.1

NA Not available.

1/ Interbank and public demand deposits included in "other." Out-of-State branches of Hawaii banks are included.

Source: Bank of Hawaii, *Hawaii's Economy, April 1996* (1996), p. 43.

Table 15.05-- CHARACTERISTICS OF STATE-CHARTERED FINANCIAL INSTITUTIONS, BY TYPES: 1993 TO 1995

[Includes out-of-State branches and facilities. As of December 31]

Subject	1993	1994	1995
BANKS			
Number of banks	6	5	5
Number of branches and facilities	193	193	199
Assets (million dollars)	19,891.4	19,856.8	20,259.4
Deposits (million dollars)	12,940.4	12,600.3	13,148.8
SAVINGS AND LOAN ASSOCIATIONS			
Number of associations	2	2	2
Number of branches and facilities	21	23	23
Assets (million dollars)	764.1	961.2	1,024.8
Withdrawable shares (million dollars)	486.8	539.8	619.2
TRUST COMPANIES			
Number of companies	4	1	1
Number of branches and facilities	3	2	3
Assets (million dollars)	81.6	125.3	86.2
FINANCIAL SERVICES LOAN COMPANIES			
Number of companies	44	41	41
Number of branches	119	132	127
Assets (million dollars)	3,263.6	3,350.3	3,578.5

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, *Comparative Statements of Condition* (semi-annual).

Table 15.06-- CHARACTERISTICS OF BANKS: JUNE 30, 1995

[Preliminary data, covering 15 banks with 8,270 employees]

Subject	Million dollars	Subject	Percent of loans
ASSETS AND LIABILITIES		ASSET QUALITY OF LARGE COMMERCIAL BANKS	
Assets	22,237		
Loans	14,511	Loan loss reserve	1.74
Investment securities	4,717	Net chargeoffs	0.24
Liabilities	20,354	Past due and non-accrual	2.65
Deposits	13,892	Real estate	2.62
Other borrowings	3,547	Commercial	3.19
Equity capital	1,883	Consumer	2.74
Loan loss reserve	252	Agricultural	22.48
Loan commitments	8,093		

Source: Federal Reserve Bank of San Francisco, *FRBSF Weekly Letter*, October 27, 1995.

Table 15.07-- CREDIT UNIONS: 1990 TO 1995

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1990	130	2,505,708,932	2,238,607,674	498,486
1991	127	3,028,281,689	2,705,392,480	527,235
1992	124	3,450,420,974	3,104,578,070	540,758
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

Source: Hawaii Credit Union League, records.

**Table 15.08-- INSURANCE BUSINESS TRANSACTED IN HAWAII:
1990 TO 1995**

[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)
1990	821	1,753,979	1,018,866	3,155,926
1991	829	1,927,638	1,094,837	3,156,730
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	923	2,307,514	1,274,272	3,592,679

1/ Excludes bank balances.

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:
1990 TO 1995**

[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 (\$1,000)	Losses, claims, and benefits paid (\$1,000)
1990	470	7,465,820	37,060,249	355,515	309,405
1991	468	3,982,037	39,067,088	371,188	307,872
1992	468	5,181,487	48,994,610	382,367	285,158
1993	468	9,044,931	51,739,074	401,726	330,975
1994	486	9,448,181	56,757,181	418,684	188,704
1995	490	7,844,654	56,572,022	504,683	457,824

1/ Includes insurance revived, increased, or transferred.

2/ Excludes annuities.

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: 1994

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	2,219,018,462	1,169,000,873
Life 1/ Fraternal	414,469,346 4,214,492	186,360,640 2,343,823
Fire, marine, casualty, and miscellaneous:		
Accident and health	157,889,255	81,611,592
Fire	31,977,818	21,609,211
Allied lines	18,140,003	19,367,175
Multiple peril crop	-	-
Farmowners multiple peril	388,428	8,891
Homeowners multiple peril	103,887,072	29,723,657
Commercial multiple peril (fire & allied lines)	46,253,468	74,194,327
Commercial multiple peril (liability portion)	41,792,820	15,265,851
Mortgage guaranty	7,057,624	326,031
Ocean marine	5,088,819	2,796,658
Inland marine	32,425,641	19,910,442
Financial guaranty	2,447,928	-
Medical malpractice	18,996,048	20,262,179
Earthquake	721,765	14,230
Workers' compensation	361,974,619	242,395,193
Other liability	112,452,599	36,862,374
Products liability	10,600,931	1,725,662
Private passenger auto no-fault	138,659,893	91,189,109
Other private passenger auto liability	289,750,073	172,861,663
Commercial auto no-fault	15,434,487	8,333,460
Other commercial auto liability	66,366,790	48,954,270
Private passenger auto physical damage	128,646,069	58,500,399
Commercial auto physical damage	20,966,242	7,883,725
Aircraft	7,773,013	4,373,054
Fidelity	5,042,717	1,059,241
Surety	23,628,209	2,923,421
Glass	97,818	17,004
Burglary and theft	353,757	42,316
Boiler and machinery	2,461,321	1,640,746
Credit	1,723,819	497,567
Title	39,002,766	2,337,461
All other	10,802,343	9,505,280
Surplus lines	97,530,469	4,104,221

1/ Excludes annuities.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1995*, p. 6.

Table 15.11-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1995

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	2,307,513,628	1,274,272,275
Life 1/	500,469,384	455,010,534
Fraternal	4,213,973	2,813,764
Fire, marine, casualty, and miscellaneous:		
Accident and health	163,022,600	88,287,453
Fire	32,264,858	3,650,471
Allied lines	20,313,415	636,690
Multiple peril crop	372,637	-
Farmowners multiple peril	284,136	13,741
Homeowners multiple peril	122,847,760	23,716,396
Commercial multiple peril (fire & allied lines)	57,978,627	17,926,854
Commercial multiple peril (liability portion)	46,773,559	15,372,748
Mortgage guaranty	8,163,320	475,624
Ocean marine	6,388,900	4,418,962
Inland marine	26,325,768	14,458,833
Financial guaranty	2,086,128	-
Medical malpractice	20,444,088	10,391,463
Earthquake	1,056,495	-
Workers' compensation	326,092,777	217,981,592
Other liability	109,711,118	29,967,883
Products liability	12,456,797	2,074,044
Private passenger auto no-fault	142,429,170	83,771,514
Other private passenger auto liability	293,227,858	160,747,445
Commercial auto no-fault	8,167,295	7,663,843
Other commercial auto liability	70,748,898	44,503,153
Private passenger auto physical damage	135,776,055	61,132,250
Commercial auto physical damage	18,045,145	7,836,163
Aircraft	10,380,633	1,329,269
Fidelity	5,354,691	5,562,177
Surety	18,512,785	574,292
Glass	87,344	6,098
Burglary and theft	412,018	39,698
Boiler and machinery	2,856,880	1,772,530
Credit	2,298,058	786,885
Title	28,901,868	3,682,821
All other	12,490,725	5,510,406
Surplus lines	96,557,865	2,156,679

1/ Excludes annuities.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1996*, p. 8.

**Table 15.12-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY
LOCATION OF HOME OFFICE: 1994**

[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	899	17	864	18
Life incl. Fraternal Benefit Societies	486	5	473	8
Other than life	413	12	391	10
Financial condition, Dec. 31:				
Assets	2,366,633.9	1,662.2	2,335,902.6	29,069.1
Liabilities exc. capital and surplus	2,108,003.3	1,115.1	2,081,414.1	25,474.1
Policyholders' surplus incl. capital	258,630.5	547.1	254,488.5	3,595.0
Capital	6,162.8	43.1	6,061.4	58.3
Net gain or loss	-5,110.0	-7.5	-5,035.9	-66.6
Hawaii business:				
Direct premiums written	2,361.0	560.2	1,748.6	52.2
Claims and benefits paid	1,538.0	338.6	1,156.6	42.7
Investments in Hawaii, Dec. 31	4,127.8	192.3	3,913.9	21.6
Mortgage loans (principal indebtedness)	631.8	112.4	519.4	0.02
Collateral loans (amount loaned)	17.6	7.2	10.4	-
State and county bonds 4/	1,144.0	27.3	1,113.6	3.1
Utilities stocks and bonds 4/	265.9	0.3	259.4	6.1
Industrial and misc. stocks and bonds 4/	2,047.4	37.1	1,997.8	12.4
Real estate 5/	21.2	7.9	13.3	-
Balances in Hawaii banks	41.5	37.3	4.1	0.07

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, 1995*, pp. 11-43.

**Table 15.13-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY
LOCATION OF HOME OFFICE: 1995**

[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	923	19	890	14
Life incl. Fraternal Benefit Societies	490	6	477	7
Other than life	433	13	413	7
Financial condition, Dec. 31:				
Assets	2,610,515.3	1,251.5	2,580,110.7	29,153.2
Liabilities exc. capital and surplus	2,309,113.3	913.1	2,282,498.3	25,701.8
Policyholders' surplus incl. capital	301,402.1	338.4	297,612.4	3,451.4
Capital	6,428.5	38.9	6,363.6	26.0
Net gain or loss	1,689.5	17.8	1,664.9	6.8
Hawaii business:				
Direct premiums written	2,484.3	543.1	1,869.0	72.2
Claims and benefits paid	1,462.5	272.3	1,153.0	37.1
Investments in Hawaii, Dec. 31	3,592.7	179.8	3,404.8	8.0
Mortgage loans (principal indebtedness)	666.8	122.5	544.3	0.02
Collateral loans (amount loaned)	20.0	6.9	13.1	-
State and county bonds 4/	1,093.8	10.0	1,081.7	2.1
Utilities stocks and bonds 4/	314.1	0.4	308.3	5.4
Industrial and misc. stocks and bonds 4/	1,455.3	24.3	1,430.4	0.5
Real estate 5/	42.7	15.8	27.0	-
Balances in Hawaii banks	173.5	42.5	131.0	-

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, 1996*, pp. 15-49.

Table 15.14-- PERCENT OF PERSONS NOT COVERED BY HEALTH INSURANCE: 1991 TO 1995

[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	1991	1992	1993	1994	1995
Percent not covered 1/	7.1	6.1	11.1	9.2	8.9
Standard error	1.0	0.9	1.2	1.1	1.1
Rank 2/	1	1	7	4	5

1/ The 1995 U.S. percentage was 15.4.

2/ Among 50 states, with lowest percentage ranking 1.

Source: U.S. Bureau of the Census, "Money Income of Households, Families, and Persons in the United States: 1992," *Current Population Reports, Consumer Income*, Series P-60, No. 184, September 1993, table E; Release CB94-159 (October 6, 1994); Release CB95-185 (October 5, 1995); and "Health Insurance Coverage: 1995," *Current Population Reports, Household Economic Studies*, P60-195 (Sept. 1996), table 1.

Table 15.15-- HEALTH PLANS: 1992 TO 1995

Subject	1992	1993	1994	1995
Hawaii Medical Service Association: 1/ Persons covered, Dec. 31 2/ Membership dues 3/ (\$1,000)	623,074 847,195	623,726 924,048	754,264 1,092,903	749,600 1,209,241
Queen's Island Care: Persons covered, Dec. 31 2/ Membership dues 3/ (\$1,000)	21,753 27,719	16,662 24,976	15,438 20,281	13,393 21,513
Kaiser Foundation Health Plan: Persons covered: 2/ Annual average Dec. 31 Membership dues 3/ (\$1,000)	188,141 189,414 225,538	190,225 190,680 254,226	189,070 186,996 276,028	185,643 186,066 286,370
Commercial carrier premiums for accident and health insurance (\$1,000)	146,972	153,222	157,889	(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.

Source: Data provided by Hawaii Medical Service Association, Queen's Island Care, and Kaiser Foundation Health Plan, Inc.; *Report of the Insurance Commissioner* (annual).

Table 15.16-- AVERAGE EXPENDITURES AND PREMIUMS FOR PERSONAL AUTOMOBILE INSURANCE, FOR THE UNITED STATES AND HAWAII: 1989 TO 1993

Year	Average expenditures 1/			Combined average premiums 2/		
	United States (dollars)	Hawaii		United States (dollars)	Hawaii	
		Average (dollars)	Rank 3/		Average (dollars)	Rank 3/
1989	551.95	673.36	7	635.58	784.18	8
1990	571.69	747.90	7	658.83	862.15	6
1991	596.91	874.25	2	686.79	999.01	1
1992	616.18	974.39	1	711.97	1,099.65	2
1993	637.72	953.08	2	730.39	1,078.32	2

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.

Source: National Association of Insurance Commissioners, *State Average Expenditures and Premiums for Personal Automobile Insurance in 1993* (January 1995), tables 2 and 3.

**Table 15.17-- FIRES, FIRE DEATHS, AND FIRE LOSSES, BY COUNTIES:
1992 TO 1996**

[Years ended June 30]

Subject and year	State total	Honolulu	Hawaii	Kauai	Maui
Number of fires:					
1992	4,919	2,948	1,111	361	499
1993	6,379	4,939	710	302	428
1994	5,823	4,478	555	318	472
1995	4,919	3,409	597	316	597
1996	4,134	2,818	561	194	561
Fire deaths:					
1992	8	6	2	-	-
1993	4	2	2	-	-
1994	-	-	-	-	-
1995	4	-	4	-	-
1996	9	3	5	1	-
Fire losses (\$1,000):					
1992	21,158	10,078	3,892	1,454	5,734
1993	19,320	12,992	3,203	865	2,260
1994	17,279	10,488	2,527	1,210	3,054
1995	29,552	18,665	6,424	1,315	3,098
1996	23,613	14,993	4,311	1,622	2,687

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 15.18-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS:
1984 TO 1994**

[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	
1984	318,635	1,192,429	4,824,535	25,093	13,588	5,225	
1985	331,196	1,268,106	5,271,750	25,742	14,058	5,261	
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	
	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
1984	3,167	1,990	709	313	52	34	15
1985	3,181	2,084	734	314	58	37	15
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

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 15.19-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
COUNTIES: 1993 AND 1994**

[Excludes government employees and self-employed persons]

Year and county	Number of establishments 1/	Number of employees 2/	Payroll (\$1,000)	
			First quarter	Annual
1993				
State total	30,157	435,907	2,480,288	10,552,017
Hawaii	3,672	40,134	194,532	813,542
Honolulu	21,255	329,567	1,958,732	8,340,854
Kauai	1,721	19,137	92,640	406,699
Maui	3,502	46,992	233,860	989,340
Statewide	7	77	524	1,582
1994				
State total	29,995	425,987	2,538,482	10,551,036
Hawaii	3,634	39,095	198,786	812,824
Honolulu	21,063	322,378	2,003,798	8,337,439
Kauai	1,719	(D)	(D)	(D)
Maui	3,578	46,502	244,847	1,021,842
Statewide	1	(D)	(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, 1994, Hawaii*, CBP-94-13 (September 1996), p. 19, table 1e.

REVISED 11/20/97

**Table 15.19-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
COUNTIES: 1993 AND 1994**

[Excludes government employees and self-employed persons]

Year and county	Number of establishments 1/	Number of employees 2/	Payroll (\$1,000)	
			First quarter	Annual
1993				
State total	30,157	435,907	2,480,288	10,552,017
Hawaii	3,672	40,134	194,532	813,542
Honolulu	21,255	329,567	1,958,732	8,340,854
Kauai	1,721	19,137	92,640	406,699
Maui	3,502	46,992	233,860	989,340
Statewide	7	77	524	1,582
1994				
State total	29,995	425,987	2,538,482	10,551,036
Hawaii	3,634	39,095	198,786	812,824
Honolulu	21,063	322,378	2,003,798	8,337,439
Kauai	1,719	(D)	(D)	(D)
Maui	3,578	46,502	244,847	1,021,892
Statewide	1	(D)	(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, 1994, Hawaii*, CBP-94-13 (September 1996), p. 19, table 1e.

**Table 15.20-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
MAJOR INDUSTRY GROUP: 1994**

[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	29,995	425,987	10,551,036
Agricultural services, forestry, fishing	345	2,821	59,688
Mining	8	221	9,924
Construction	2,527	27,819	1,071,611
Manufacturing 3/	983	18,313	508,504
Food and kindred products	206	7,328	170,843
Apparel and other textile products	141	1,829	33,170
Printing and publishing	191	3,402	107,898
Transportation and public utilities	1,532	41,135	1,286,486
Wholesale trade	2,216	22,417	658,632
Retail trade 3/	7,978	108,806	1,743,388
Food stores	898	14,355	236,970
Eating and drinking places	2,633	44,753	555,091
Finance, insurance, real estate	3,897	39,811	1,178,984
Services 3/	10,359	164,446	4,029,694
Hotels and other lodging places	285	36,386	778,957
Health services	2,411	38,249	1,274,911
Unclassified establishments	150	198	4,125

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 1994, Hawaii*, CBP-94-13 (September 1996), table 1a, pp. 1-2.

Table 15.21-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1993 AND 1994

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments		Number of employees		Annual payroll (\$1,000)	
	1993	1994	1993	1994	1993	1994
Total	30,157	29,995	435,907	425,987	10,552,017	10,551,036
1 to 4	15,456	15,548	28,342	28,578	785,664	794,534
5 to 9	6,383	6,326	42,127	41,828	911,630	938,940
10 to 19	4,113	4,088	55,307	55,181	1,237,834	1,257,704
20 to 49	2,704	2,602	81,657	78,603	1,808,574	1,805,761
50 to 99	907	876	61,175	59,195	1,402,980	1,416,835
100 to 249	428	389	63,301	57,255	1,588,159	1,506,885
250 to 499	99	94	35,260	31,937	872,455	764,617
500 to 999	40	47	27,827	32,877	718,719	829,601
1,000 or more	1/ 27	2/ 25	40,911	40,533	1,226,002	1,236,159

1/ 1,000-1,499 employees, 17 establishments; 1,500-2,499 employees, 9 establishments; 2,500-4,999 employees, 1 establishment.

2/ 1,000-1,499 employees, 15 establishments; 1,500-2,499 employees, 8 establishments; 2,500-4,999 employees, 2 establishments.

Source: U.S. Bureau of the Census, *County Business Patterns 1993, Hawaii*, CBP-93-13 (August 1995), pp. 3, 14, and 18, and *County Business Patterns 1994, Hawaii*, CBP-94-13 (September 1996), pp. 3, 14, and 18.

**Table 15.22-- CHARACTERISTICS OF BUSINESS AND PROFESSIONAL
FIRMS, BY COUNTIES: 1995**

Characteristic	State total	Honolulu	Maui	Kauai	Hawaii
All businesses	35,449	25,353	3,859	2,271	3,966
Business type, total 1/	22,740	16,104	2,525	1,419	2,698
Corporation	15,545	11,376	1,702	787	1,685
Partnership	1,050	709	118	91	132
Proprietorship	6,145	4,019	705	541	881
Employees, total 1/	23,518	17,046	2,417	1,482	2,578
1 to 4	12,107	8,402	1,342	912	1,453
5 to 9	4,579	3,385	451	251	494
10 to 19	2,852	2,147	273	145	288
20 to 49	2,339	1,817	196	101	225
50 to 99	885	689	88	45	63
100 to 199	411	331	36	16	28
200 to 499	203	159	18	9	17
500 to 999	69	48	9	3	9
1,000 and over	73	68	4	-	1
Sales volume, total 1/	17,317	12,748	1,625	1,013	1,936
Under \$500,000	11,262	8,150	987	698	1,431
\$500,000 to \$999,999	2,428	1,807	244	139	239
\$1.0 to \$4.9 million	2,287	1,712	261	128	186
\$5.0 to \$9.9 million	504	396	58	17	33
\$10.0 to \$24.9 million	414	328	48	18	20
\$25.0 million and over	422	355	27	13	27
Year established, total 1/	24,291	18,193	2,235	1,314	2,554
1820 to 1849	25	13	4	2	6
1850 to 1899	161	111	15	13	22
1900 to 1949	1,571	1,126	134	90	221
1950 to 1959	1,451	1,169	89	59	134
1960 to 1969	2,949	2,346	220	113	270
1970 to 1979	6,742	4,995	739	288	721
1980 to 1989	8,850	6,520	768	600	965
1990 and later	2,542	1,913	266	149	215

1/ Distributions exclude non-responding firms and those for which item (typically sales volume) was not applicable.

Source: CD Systems Corp., *Hawaii Business Directory 1995* (July 1995), pp. ix, xi, xxxiii.

**Table 15.23-- REGISTERED CORPORATIONS AND PARTNERSHIPS:
1993 TO 1996**

[Excludes eleemosynary corporations]

Subject	1993	1994	1995	1996
Domestic (Hawaii) corporations:				
Formed 1/	3,193	3,444	3,746	3,860
Dissolved or merged 2/	2,606	2,553	2,665	2,734
On record, June 30 3/	34,430	35,240	36,384	37,488
Foreign (non-Hawaii) corporations:				
Qualified 1/	734	772	815	830
Withdrawn, merged, or cancelled 2/	301	326	344	366
On record, June 30 3/	6,314	6,564	6,814	7,033
Partnerships:				
Registered 1/	1,297	1,208	1,402	1,432
Dissolved or cancelled 2/	1,314	1,259	1,179	1,149
On record, June 30 3/	8,239	8,108	8,245	8,379

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 changes, reflecting inaccuracy in manual tabulation.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, records.

Table 15.24-- BUSINESS CLIMATE INDEXES: 1992 TO 1996

Index	1992	1993	1994	1995		1996	
				Index	Rank	Index	Rank
Economic performance	A	A	A	A	3	B	14
Business vitality	F	F	F	F	50	F	50
Development capacity	B	B	B	B	15	C	21

Source: The Corporation for Enterprise Development, *The 1996 Development Report Card for the States* (10th ed., 1996), pp. 15, 17, 19, 58.

**Table 15.25-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS,
AND PROPRIETORSHIPS: 1987, 1989, AND 1992**

[Money amounts in millions of dollars]

Subject	1987	1989	1992 1/
CORPORATIONS 2/			
Number of corporations	19,493	20,776	23,777
Taxable	9,404	9,969	9,724
Nontaxable	10,089	10,807	13,322
Business receipts	26,583	33,383	40,540.6
Taxable corporations	17,753	20,435	21,963.1
Nontaxable corporations	8,830	12,948	18,577.5
Taxable income, excluding net losses 3/	1,114.3	1,614.1	1,370.0
PARTNERSHIPS			
Number of partnerships	6,752	6,274	5,855
With net profit	3,697	3,853	3,279
With net loss	3,055	2,421	2,252
Number of partners	146,170	219,388	193,063
Business receipts	3,510.2	4,089.7	6,306.3
Businesses with net profit	2,800.5	3,272.9	4,656.4
Businesses with net loss	709.7	816.8	1,649.9
Net profit reported	906.0	1,425.9	1,133.8
Net loss reported	548.5	578.9	1,155.5
PROPRIETORSHIPS			
Number of proprietorships	61,733	65,561	75,054
With net profit	46,870	49,716	51,260
With net loss	14,863	15,845	20,127
Business receipts	1,767.7	2,078.2	2,396.8
Businesses with net profit	1,584.4	1,857.5	2,071.4
Businesses with net loss	183.3	220.7	531.5
Net profit reported	444.2	635.1	659.5
Net loss reported	66.4	60.2	96.3

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 15.26-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: 1995

[Data may include sales and employment on the Mainland or abroad]

Rank in sales	Company	Year founded 1/	Sales (million dollars)	Employees
1	Dole Food Co. Inc.	1851	3,804	43,000
2	Hawaiian Electric Industries Inc.	1891/1983	1,296	3,384
3	Hawaii Medical Service Assn. (HMSA)	1938	1,209	1,700
4	BHP Hawaii Inc.	1904/1993	1,104	1,000
5	Bancorp Hawaii Inc.	1897/1971	1,043	4,391
6	Alexander & Baldwin Inc.	1870/1900	1,020	3,076
7	DFS Hawaii	1962	700	1,800
8	First Hawaiian Inc.	1858/1974	655	3,000
9	GTE Hawaiian Tel.	1883	612	3,300
10	Chevron USA Products Co. (Hawaii Region)	1904	600	192

1/ 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.

Source: "Hawaii Business Top 250," *Hawaii Business*, August 1996, p. 63.

**Table 15.27-- NET INCOME OR LOSS AND TOTAL REVENUES OF
SELECTED COMPANIES: 1994 AND 1995**

[Based on 1995 ranks for reporting companies]

Company	Net income or loss (\$1,000)		Sales (\$1,000,000)	
	1994	1995	1994	1995
Largest net incomes:				
Bancorp Hawaii Inc.	117,740	121,800	941.4	1,043.1
Hawaiian Electric Industries Inc.	73,030	77,493	1,188.5	1,295.9
First Hawaiian Inc.	72,511	77,005	562.4	654.8
Largest net losses:				
Maui Land & Pineapple Co., Inc.	(3,909)	(1,559)	125.9	125.6
Hawaiian Airlines, Inc.	163,238	(5,506)	306.0	346.9

Source: "Hawaii Business Top 250," *Hawaii Business*, August 1996, p. 48.

**Table 15.28-- 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 15.29-- 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 15.30-- 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 15.31-- BUSINESS FAILURES, BY INDUSTRY SECTOR: 1991 TO 1994

Industry sector	1991	1992	1993	1994 1/
Firms, all sectors	74	290	306	258
Agriculture, forestry, fishing	1	2	3	6
Mining	-	-	-	-
Construction	4	15	26	25
Manufacturing	5	17	12	8
Transportation, public utilities	4	20	18	19
Wholesale trade	7	15	20	14
Retail trade	16	58	59	44
Finance, insurance, real estate	4	17	11	13
Services	13	37	59	53
Unclassifiable	20	109	98	76

1/ 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: 1996*, Section 18.

Table 16.01-- COMMUNICATION AND RELATED ESTABLISHMENTS: 1994

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
27	Printing and publishing	191	482	Telegraph & other	4
271	Newspapers	27	483	Radio, TV broadcast	53
272	Periodicals	27	484	Cable, other pay TV	15
273	Books	11	489	Commun. services, n.e.c.	8
274	Miscell. publishing	10	5942	Book stores	63
48	Communication	209	731	Advertising	75
481	Telephone	127	7311	Advertising agencies	66

Source: U.S. Bureau of the Census, *County Business Patterns 1994, Hawaii*, CBP-94-13 (September 1996), table 1b.

**Table 16.02-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS:
SEPTEMBER 13, 1996**

Island	Total	Post offices			Stations	
		1st class	2nd class	3rd class	Classified 1/	Contract 2/
State total	133	36	24	12	35	26
Hawaii	34	8	12	5	2	7
Maui	13	9	1	-	2	1
Lanai	1	-	1	-	-	-
Molokai	5	1	-	4	-	-
Oahu	61	13	3	1	28	16
Kauai	19	5	7	2	3	2
Niihau 3/	-	-	-	-	-	-

1/ Staffed by career postal employees.

2/ Operated under a contractual agreement between the Postal Service and an individual contractor.

3/ Niihau is served by the Makaweli Post Office on Kauai.

Source: U.S. Postal Service, Honolulu District, records.

Table 16.03-- POSTAL SERVICE: 1991 TO 1996

[Years ended September 30]

Subject	1991	1992	1993	1994	1995	1996
Post offices, September 30	74	73	72	72	72	72
Stations, September 30 1/	70	70	73	73	73	61
Gross postal receipts (\$1,000)	151,429	158,134	161,493	163,984	171,867	172,686
Pieces of mail 2/ (millions)	473	478	504	518	539	530

1/ Includes both classified and contract stations (see preceding table).

2/ Originating in Hawaii. Excludes mail originating elsewhere.

Source: U.S. Postal Service, Honolulu District, records.

**Table 16.04-- TELEPHONE ACCESS LINES, BY ISLANDS AND TYPE:
1985 TO 1995**

[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]

Definition 1/ and year	All access lines	By island		By type		
		Oahu	Other islands	Residence	Business	Other types
Old definition:						
1985	479,253	352,674	126,579	342,296	111,792	25,165
1986	493,079	362,083	130,996	350,790	118,002	24,287
1987	520,057	380,227	139,830	363,951	128,197	27,909
1988	530,022	395,685	134,337	375,238	123,409	31,375
1989	555,966	409,904	146,062	385,247	133,620	37,099
1990	586,065	427,017	159,048	397,762	143,631	44,672
1991	606,899	440,216	166,683	408,603	149,209	49,087
1992	624,093	451,512	172,581	417,595	152,848	53,650
New definition:						
1992	629,214	455,681	173,533	417,595	157,255	54,364
1993	649,268	468,337	180,931	429,652	162,817	56,799
1994	666,246	477,844	188,402	439,104	164,172	62,970
1995	684,826	490,658	194,168	447,188	237,638	

1/ In 1992, GTE Hawaiian Telephone Company changed its definition of total switched access lines.

Source: GTE Hawaiian Telephone Company, data provided Sept. 19, 1996.

**Table 16.05-- TELEPHONE ACCESS LINES AND NON-LIST AND
NON-PUBLISHED NUMBERS IN SERVICE: 1991 TO 1995**

[Data include both residence and business telephone numbers]

Category	1991	1992 3/	1993	1994	1995
Access lines	606,899	629,214	649,268	666,246	684,826
Non-list and non-published	173,110	182,205	193,282	206,537	219,964
Non-list 1/	2,189	2,215	2,195	2,498	2,433
Non-published 2/	170,921	179,990	191,087	204,039	217,531

1/ Numbers that are not published in the telephone directory but are available via directory assistance.

2/ Numbers that are not published in the telephone directory and are not available via directory assistance.

3/ In 1992, GTE Hawaiian Telephone Company changed the definition of total switched access lines.

Source: GTE Hawaiian Telephone Company, data provided Sept. 19, 1996.

**Table 16.06-- HAWAIIAN TELEPHONE COMPANY OPERATIONS:
1993 TO 1995**

Subject	1993	1994	1995
Operating revenues (\$1,000)	576,433	604,211	611,760
Operating expenses (\$1,000)	564,713	525,373	520,115
Net income (\$1,000)	-5,042	29,789	-225,518
Net investment in property, plant, and equipment (\$1,000)	1,145,673	1,205,827	809,445
Total assets (\$1,000)	1,425,045	1,527,249	1,154,815
Access lines 1/	725,029	749,023	780,580
Number of employees 1/	3,320	3,240	3,025

1/ Includes Micronesia (198 employees and 13,618 access lines in 1993).

Source: GTE Hawaiian Tel 1995 Form 10-K.

**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: 1986 TO 1994

Calendar year	Number of companies	Revenues (\$1,000)				
		Total	Hawaii	Maui	Oahu	Kauai
1986	2	2,022	-	-	2,022	-
1987	2	7,162	-	-	7,162	-
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

Source: Public Utilities Commission, records.

Table 16.09-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1993 AND 1994

County	Number of companies Dec. 31 1/		Subscribers Dec. 31 2/		Basic service revenue (\$1,000)	
	1993	1994	1993	1994	1993	1994
State total	7	7	322,285	329,990	68,485	67,085
Hawaii	3	3	30,601	31,770	7,389	6,587
Maui	2	2	30,662	28,054	9,121	10,085
Honolulu	2	2	243,703	250,841	48,268	46,340
Kauai	2	2	17,319	19,325	3,707	4,073

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 16.10-- RADIO AND TELEVISION BROADCASTING STATIONS IN
OPERATION, 1930 TO 1996, AND BY COUNTIES, 1995 AND 1996**

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
COUNTIES: 1995						
Hawaii	5	10	6	-	-	-
Maui	4	8	5	-	1	1
Honolulu 2/	18	13	9	1	2	1
Kauai	2	2	-	-	-	-
COUNTIES: 1996						
Hawaii	5	11	6	-	-	-
Maui	4	8	5	-	1	1
Honolulu 2/	17	15	10	1	2	1
Kauai	2	3	-	-	-	-

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; Federal Communications Commission, records; Broadcasting and R.R. Vowker Publications, *Broadcasting & Cable Yearbook 1997*.

**Table 16.11-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA:
1993 AND 1994**

Subject	January 1993			January 1994		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	373,800	275,000	98,800	391,300	285,400	105,900
With television	363,360	268,350	95,010	379,670	278,610	101,060
Percent	97.2	97.6	96.1	97.0	97.6	95.4

Source: *Nielsen Station Index, Honolulu, Hawaii*, February 1993 and February 1994, table 1.

**Table 16.12-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY
TIME OF DAY: 1991 TO 1995**

[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/
1991: Nov.	151	211	100	140
1992: Feb.	149	209	90	126
May	160	224	93	130
Nov.	150	286	92	164
1993: Feb.	176	340	112	202
May	162	308	98	170
Nov.	167	328	97	175
1994: Feb.	160	328	93	164
May	156	284	86	131
Nov.	168	309	102	165
1995: Feb.	170	331	107	187

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 16.13-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY
ENGLISH-LANGUAGE NEWSPAPERS: 1991-92 TO 1994-95**

[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	1991-92	1992-93	1993-94	1994-95
Daily:				
The Honolulu Advertiser 1/	100,804	104,665	104,461	105,793
Honolulu Star-Bulletin 2/	87,809	87,052	82,489	79,796
Hawaii Tribune-Herald (Hilo) 3/	20,193	20,058	19,688	19,773
West Hawaii Today (Kailua-Kona) 3/	11,698	11,860	11,667	11,559
Maui News (Wailuku) 4/	18,494	18,968	19,222	18,816
Garden Island (Lihue) 4/	7,478	7,558	7,679	(NA)
Sunday morning:				
The Honolulu Advertiser 5/	198,676	197,597	195,577	195,166
Hawaii Tribune-Herald (Hilo)	23,999	24,193	23,088	23,049
West Hawaii Today (Kailua-Kona)	12,971	13,434	13,455	13,516
Maui News (Wailuku)	20,822	21,827	22,246	23,441
Garden Island (Lihue)	8,058	8,075	8,100	(NA)

NA Not available.

1/ Mornings, Monday through Saturday.

2/ Afternoons, Monday through Saturday.

3/ Mornings, Monday through Friday.

4/ Afternoons, Monday through Friday.

5/ Data through February 27, 1993 are for the *Sunday Star-Bulletin and Advertiser*; beginning March 7, 1993, for the Sunday *Honolulu Advertiser*.

Source: Audit Bureau of Circulations data provided to Hawaii State Department of Business, Economic Development & Tourism by newspaper publishers.

**Table 16.14-- POSTAGE RATES AND NEWSPAPER PRICES, FOR
HONOLULU: 1986 TO 1996**

[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			
1986	22	17	14	35	100
1987	22	17	14	35	100
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

1/ Street sales, for *The Honolulu Advertiser* (daily, all years), *Honolulu Star-Bulletin* (daily, all years), the *Sunday Star-Bulletin and Advertiser* (through Feb. 27, 1993), and the *Sunday The Honolulu Advertiser* (beginning March 7, 1993).

Source: Postal rates from *Statistical Abstract of the United States, 1996*, p. 573, as updated by the U.S. Postal Service, Customer Information. Newspaper rates from Hawaii Newspaper Agency.

**Table 16.15-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE
UNIVERSITY OF HAWAII PRESS: 1989 TO 1994**

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

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: 1996*, Sections 19 and 20.

**Table 17.01-- CONSUMPTION OF ENERGY, BY SOURCE
(PHYSICAL UNITS): 1970 TO 1993**

Year	Petroleum 1/ (1,000 barrels)	Hydroelectric power 2/ (million kWh)	Geothermal energy (million kWh)	Coal (1,000 short tons)	Other 3/ (million kWh)
1970	34,129	108	0	0	24
1971	36,754	89	0	0	15
1972	37,755	91	0	0	18
1973	38,785	95	0	0	22
1974	36,698	92	0	0	30
1975	37,056	89	0	0	25
1976	37,990	93	0	0	29
1977	40,249	86	0	0	26
1978	40,851	84	0	0	0
1979	44,486	90	0	0	0
1980	43,505	86	0	0	0
1981	38,721	80	0	0	15
1982	35,637	90	0	47	26
1983	36,297	84	0	42	28
1984	37,252	82	21	38	28
1985	40,004	86	19	46	25
1986	38,931	78	18	16	0
1987	39,669	82	13	63	0
1988	46,133	81	16	50	0
1989	47,940	89	14	32	11
1990	48,606	89	0	28	6
1991	45,487	87	0	37	0
1992	44,357	76	0	47	0
1993	38,778	80	0	73	0

1/ For data by type of petroleum, see source.

2/ Includes industrial and electric utility production.

3/ Electricity generated for distribution from biomass fuels and wind, photovoltaic, and solar thermal energy sources. Excludes natural gas and nuclear electric power.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), p. 95.

**Table 17.02-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU):
1970 TO 1993**

[Revised data, 1984-1990]

Year	Total energy consumed	Petroleum 1/	Hydro-electric power 2/	Geo-thermal energy	Coal	Natural gas	Other types 3/
1970	196.9	195.5	1.1	0.0	0.0	0.0	0.3
1971	211.6	210.5	0.9	0.0	0.0	0.0	0.2
1972	217.7	216.6	0.9	0.0	0.0	0.0	0.2
1973	223.7	222.5	1.0	0.0	0.0	0.0	0.2
1974	211.6	210.3	1.0	0.0	0.0	0.0	0.3
1975	213.9	212.7	0.9	0.0	0.0	0.0	0.3
1976	219.3	218.0	1.0	0.0	0.0	0.0	0.3
1977	232.6	231.5	0.9	0.0	0.0	0.0	0.3
1978	236.0	235.2	0.9	0.0	0.0	0.0	0.0
1979	255.2	254.3	0.9	0.0	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	0.0	0.0	2.8	0.2
1982	208.5	203.3	0.9	0.0	1.1	2.8	0.3
1983	210.3	205.4	0.9	0.0	1.0	2.7	0.3
1984	220.8	215.8	0.9	0.4	0.9	2.4	0.3
1985	237.4	232.1	0.9	0.4	1.1	2.7	0.3
1986	231.2	226.9	0.8	0.4	0.4	2.7	0.0
1987	236.0	230.5	0.9	0.3	1.6	2.8	0.0
1988	274.6	269.3	0.8	0.3	1.2	2.8	0.0
1989	284.6	279.6	0.9	0.3	0.8	2.9	0.1
1990	288.4	283.8	0.9	0.0	0.7	3.0	0.1
1991	269.6	264.9	0.9	0.0	0.9	2.9	0.0
1992	263.1	258.3	0.8	0.0	1.2	2.9	0.0
1993	229.3	223.8	0.8	0.0	1.8	2.8	0.0

1/ For data by type of petroleum, see source.

2/ Includes industrial and electric utility production.

3/ Electricity generated for distribution from biomass fuels and wind, photovoltaic, and solar thermal energy sources.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), p. 95.

**Table 17.03-- CONSUMPTION OF ENERGY BY END-USE SECTOR:
1970 TO 1993**

[Trillion Btu]

Year	Consumption				Input at electric utilities
	Residential	Commercial	Industrial	Transportation	
1970	16.4	11.6	43.6	125.3	43.2
1971	17.8	11.4	43.5	138.8	47.7
1972	19.6	12.7	48.9	136.5	54.1
1973	20.0	13.5	49.4	140.9	55.6
1974	20.3	13.3	49.4	128.7	57.5
1975	19.6	13.8	49.9	130.5	58.8
1976	21.3	15.3	51.0	131.7	62.5
1977	21.8	16.8	52.7	141.3	65.2
1978	21.8	17.4	52.2	144.6	66.8
1979	22.9	18.1	57.8	156.4	67.7
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	125.1	76.6
1988	23.9	39.2	69.4	142.1	81.9
1989	25.3	38.0	66.9	154.5	85.8
1990	25.1	34.3	72.3	156.7	86.1
1991	23.3	28.2	66.6	151.4	79.2
1992	23.1	32.8	64.3	142.9	74.6
1993	19.8	22.7	60.0	126.8	66.2

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), pp. 96-100.

Table 17.04-- PRIMARY ENERGY CONSUMPTION AND ELECTRICITY SALES, TOTAL AND PER CAPITA: 1985 TO 1995

Year	Primary energy consumption		Electricity sales by utilities	
	Total (trillion Btu)	Per capita 1/ (million Btu)	Total (1,000 kWh)	Per capita 1/ (kWh)
1985	266.21778	233.976	6,635,158	5,832
1986	271.05620	232.168	7,025,739	6,018
1987	284.20420	239.532	7,298,178	6,151
1988	306.92120	255.682	7,719,029	6,430
1989	314.96310	252.861	7,970,360	6,399
1990	306.70400	243.997	8,310,537	6,611
1991	315.50600	247.281	8,564,032	6,712
1992	321.72220	252.906	8,643,562	6,795
1993	304.79578	239.770	8,657,905	6,811
1994	310.42460	241.256	8,948,458	6,955
1995 2/	312.96020	241.760	9,187,429	7,097

1/ Based on estimated de facto population.

2/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

**Table 17.05-- PRIMARY ENERGY CONSUMPTION, BY SOURCE:
1985 TO 1995**

[Trillion Btu]

Year	Total	Petroleum	Biomass	Solar hot water
1985	266.2178	238.6470	23.1430	2.1327
1986	271.0562	242.5857	23.9670	2.1644
1987	284.2042	256.4061	22.1840	2.1914
1988	306.9212	279.1052	22.7080	2.1931
1989	314.9631	289.2301	20.8020	2.3310
1990	306.7040	280.8740	18.1200	2.3400
1991	315.5060	289.9000	17.9000	2.3000
1992	321.7222	290.8500	16.9840	2.3000
1993	304.7958	266.6563	16.8310	2.3000
1994	310.4246	270.8428	16.3660	2.3000
1995 1/	312.9602	271.6728	11.9510	2.8386

Year	Hydroelectric	Coal	Wind	Geothermal	Solid waste
1985	0.9808	0.9560	0.1697	0.1886	-
1986	1.0562	0.4970	0.6036	0.1823	-
1987	0.9670	1.4875	0.8236	0.1446	-
1988	0.9826	1.3509	0.4185	0.1629	-
1989	1.0183	0.8715	0.4189	0.1435	0.1478
1990	1.0700	0.8900	0.2900	-	3.1200
1991	1.0000	0.8000	0.3060	-	3.3000
1992	0.7226	6.9207	0.2573	0.0168	3.6708
1993	0.8024	13.2237	0.2352	1.5988	3.1484
1994	1.5300	13.5599	0.2251	1.8060	3.7948
1995 1/	1.0632	16.5249	0.2364	2.3045	6.3688

1/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

Table 17.06-- ELECTRICITY GENERATION BY SOURCE: 1989 TO 1995

[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

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

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 Division, records; Hawaiian Sugar Planters' Association, records.

**Table 17.07-- ELECTRICITY PRODUCTION, BY SOURCE, BY ISLANDS:
1995**

[Million kWh]

Island	Total	Petroleum	Biomass	MSW 1/	Hydroelectric
State total	10,563	7,853	292	383	103
Hawaii	995	601	11	-	36
Maui	1,189	960	153	-	15
Lanai	28	28	-	-	-
Molokai	37	37	-	-	-
Oahu	7,822	5,861	54	383	-
Kauai	492	366	74	-	52

Island	Wind	Geothermal	Coal	PV 2/	Other
State total	23	223	1,674	(Z)	12
Hawaii	17	223	107	-	-
Maui	-	-	61	(Z)	-
Lanai	-	-	-	-	-
Molokai	-	-	-	-	-
Oahu	6	-	1,506	-	12
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 Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

**Table 17.08-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY
SOURCE: 1985 TO 1995**

[Millions of dollars]

Year	Total energy expend.	Fuel expenditures			Less: electric utility fuel expend.	Plus: electric purch. by end-user
		Total	Electric utility	Other		
1985	1,921.6	1,586.6	337.6	1,249.0	337.6	672.6
1986	1,564.0	1,147.3	224.6	922.7	224.6	641.3
1987	1,575.1	1,176.2	203.7	972.5	203.7	602.6
1988	1,664.1	1,314.6	238.0	1,076.6	238.0	587.5
1989	1,895.2	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	2,261.5	1,681.2	238.2	1,443.0	238.2	818.5
1993	2,353.2	1,643.7	213.3	1,430.4	213.3	922.8
1994	2,334.3	1,579.8	201.4	1,378.4	201.4	955.9
1995 1/	2,499.9	1,685.7	223.5	1,462.2	223.5	1,037.7

1/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records.

Table 17.09-- ELECTRIC UTILITIES: 1985 TO 1995

Year	Customers, Dec. 31 1/			Installed capacity (name-plate), Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential 2/	Other		Total	Residential 2/	Other
1985	330,407	285,117	45,290	1,567,230	6,635,158	1,879,027	4,756,131
1986	337,563	291,222	46,341	1,553,580	7,025,739	1,959,447	5,066,292
1987	347,085	299,758	47,327	1,535,700	7,297,905	2,069,859	5,228,046
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
Year	Average annual use (kWh 3/)		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 2/	Other	Residential 2/	Other	Total	Residential 2/	Other
1985	6,590	105,015	0.11361	0.09653	672,600	213,478	459,122
1986	6,728	109,326	0.09294	0.07505	562,345	182,110	380,234
1987	6,905	110,466	0.09431	0.07792	602,553	195,198	407,355
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

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/ Based on number of customers at end of year.

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.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.10-- ELECTRIC UTILITIES, BY ISLANDS: 1995

[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			Installed capacity (name-plate) Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential 1/	Other		Total	Residential 1/	Other
State total	409,983	352,589	57,394	1,714,729	9,187,430	2,597,010	6,590,419
Oahu	269,307	235,905	33,402	1,188,910	6,962,794	1,815,661	5,147,133
Hawaii	58,515	49,129	9,386	3/ 206,600	846,565	323,217	523,348
Kauai	28,822	22,081	6,741	110,550	380,955	125,690	255,266
Maui County	53,339	45,474	7,865	208,669	997,116	332,443	664,673
Lanai	1,333	1,162	171	10,760	26,053	6,147	19,906
Maui	49,194	42,004	7,190	189,029	937,143	313,521	623,621
Molokai	2,812	2,308	504	8,880	33,920	12,774	21,145
County or island	Average annual use (kWh) 2/		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	7,366	114,828	0.13337	0.10490	1,037,702	346,359	691,343
Oahu	7,697	154,097	0.12302	0.09501	712,380	223,363	489,018
Hawaii	6,579	55,758	0.17281	0.15144	135,109	55,855	79,254
Kauai	5,692	37,868	0.17287	0.16140	62,928	21,728	41,200
Maui County	7,311	84,510	0.13660	0.12318	127,284	45,412	81,872
Lanai	5,290	116,410	0.17463	0.16538	4,366	1,073	3,292
Maui	7,464	86,735	0.13426	0.12008	116,982	42,095	74,887
Molokai	5,535	41,955	0.17570	0.17461	5,937	2,244	3,692

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.

3/ Includes purchase power companies.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.11-- GAS UTILITIES: 1985 TO 1995

[Revised. Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential 1/	Other	Total	Residential 1/	Other
1985	32,988	29,253	3,735	31,203	5,911	25,292
1986	33,369	29,678	3,691	31,122	5,762	25,360
1987	33,895	30,198	3,697	32,408	5,880	26,528
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

Year	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
1985	202	6,772	1.76934	1.33821	44,305	10,459	33,846
1986	194	6,871	1.57151	1.12027	37,465	9,055	28,410
1987	195	7,176	1.57204	1.10494	38,556	9,244	29,312
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

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 17.12-- GAS UTILITIES, BY ISLANDS: 1995

[Excludes bottled gas]

Island	Customers, December 31			Gas sold (1,000 therms)		
	Total	Residential 1/	Other	Total	Residential 1/	Other
State total	36,619	32,950	3,669	33,740	5,793	27,948
Oahu	33,876	30,598	3,278	30,582	5,332	25,250
Hawaii	1,739	1,416	323	2,320	289	2,031
Kauai	558	558	-	94	94	-
Maui	394	326	68	734	67	667
Molokai	52	52	-	10	10	-
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	176	7,617	1.79670	1.25158	45,386	10,407	34,979
Oahu	174	7,703	1.81227	1.25895	41,452	9,664	31,788
Hawaii	204	6,287	1.59161	1.18908	2,875	460	2,415
Kauai	169	-	1.68758	-	159	159	-
Maui	205	9,812	1.52513	1.16273	878	102	776
Molokai	189	-	2.28182	-	22	22	-
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 17.13-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC COMPANY, INC.,
ON OAHU: 1989 TO 1994**

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 (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

1/ Net generation plus purchased power.

2/ Based on average number of customers during the year.

Source: Hawaiian Electric Company, Inc., records.

**Table 17.14-- 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 17.15-- LIQUID FUEL TAX BASE: 1986 TO 1996

[In thousands of gallons]

Year reported 1/	All types		Gasoline	Diesel oil	
	Total	Excluding aviation		Non-hwy.	Hwy. use
1986	1,059,180	456,013	336,559	95,022	19,354
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

Year reported 1/	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1986	2,969	1,031	603,167	163	916
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

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 17.16-- LIQUID FUEL TAX BASE, BY COUNTIES: 1996

[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	1,147,865	887,855	105,444	98,956	55,611
Gasoline	394,989	260,780	51,854	59,021	23,334
Diesel oil, non-hwy.	160,102	73,753	32,694	23,931	29,725
Diesel oil, hwy. use	29,864	18,976	3,453	6,326	1,108
Liq. pet. gas, off hwy.	3,249	1,863	569	545	272
Liq. pet. gas, hwy. use	413	357	26	21	9
Small boats, gasoline	50	50	-	-	-
Small boats, diesel oil	228	6	-	223	-
Aviation fuel	558,969	532,070	16,847	8,888	1,164

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections, Calendar Year Ending December 31, 1996" (annual release).

**Table 17.17-- IMPORTS AND EXPORTS OF CRUDE OIL AND
PETROLEUM PRODUCTS: 1995**

[1,000 barrels]

Product	Imports			Exports		
	Total	Domestic	Foreign	Total	Domestic	Foreign
Crude oil	51,409	19,070	32,339	-	-	-
Distillates	-	-	-	77	-	77
Jet fuel 1/	812	-	812	-	-	-
Residual fuel oil	910	710	200	613	150	463
Naphtha	-	-	-	727	-	727
Other	589	-	589	168	-	168

1/ Excludes imports of unknown origin.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Energy Information Administration, records.

**Table 17.18-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL, BY
COUNTIES: 1987, 1992, AND 1994**

Year	State total	City and Co. 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
1994	312	203	58	19	(1/)	1/ 32	(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 1994, Hawaii*, CBP-94-13 (September 1996).

**Table 17.19-- BOILERS AND PRESSURE VESSELS, BY ISLANDS:
DECEMBER 31, 1994**

Island	Total	Power boilers	Heating boilers	Pressure vessels
State total	9,404	633	2,657	6,114
Hawaii	1,176	84	219	873
Maui	977	74	244	659
Lanai	65	5	11	49
Molokai	61	7	28	26
Oahu	6,696	426	2,024	4,246
Kauai	429	37	131	261
Niihau	-	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

**Table 17.20-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY
SUGAR PLANTATIONS, BY ISLANDS: 1993**

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated 1/ Purchased	687.63 33.33	179.23 1.80	124.92 14.82	250.32 6.07	133.15 10.64
Sold Used	335.74 385.21	116.23 64.80	71.02 68.72	104.03 152.36	44.46 99.33
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	22,204	6,353	4,166	7,268	4,417
Bagasse	15,998	4,840	3,549	5,007	2,603
Fuel oil	5,373	1,514	591	2,049	1,220
Other fuels	833	-	27	212	594

1/ Includes electricity generated by steam, hydroelectric and diesel engine.

Source: Hawaiian Sugar Planters' Association, *Energy Inventory of Hawaiian Sugar Plantations - 1993* (Energy Report 33, May 1994), pp. 10-11.

**Table 17.21-- HIGH TECHNOLOGY COMPANIES, EMPLOYEES,
AND REVENUES: 1993**

Subject	All sectors	Manufacturing	Service	Support
Number of companies 1/	248	18	186	44
Employees 2/	7,125	991	4,281	1,853
Revenues (million dollars) 2/	958	388	376	194

1/ Number responding to survey. The estimated total number of high tech companies in Hawaii was 300.

2/ Based on survey response, and excluding GTE Hawaiian Tel and Hawaiian Electric.

Source: High Technology Development Corp., Mililani, Hawaii, 1993 survey.

**Table 17.22-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT
AND R&D PLANT IN HAWAII: 1989 TO 1994**

[Millions of dollars. For fiscal years ended September 30]

Type of obligation	1989	1990	1991	1992	1993	1994
Obligations for R&D	97.4	100.0	112.6	150.7	113.0	140.3
Obligations for R&D plant	0.4	1.4	9.2	6.5	19.3	14.3

Source: National Science Foundation, *Federal Funds for Research and Development: Fiscal Years 1992, 1993 and 1994*, Volume 42, Detailed Statistical Tables, NSF 94-328 (1994), pp. 346-349; <http://www.nsf.gov/sbe/srs/fedfunds/pubs/dst44/tables.htm>.

**Table 17.23-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING,
FOR THE UNIVERSITY OF HAWAII: 1991-92 TO 1995-96**

[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

Source: Office of Research Services, University of Hawaii, *1995-1996 Extramural Awards* (1996), p. i.

Table 17.24-- RESEARCH AND DEVELOPMENT EXPENDITURES AT DOCTORATE-GRANTING INSTITUTIONS: 1988 TO 1992

[Thousands of dollars. For fiscal years ended September 30]

Type of expenditure	1988	1989	1990	1991	1992
Total R&D expenditures	64,278	70,733	76,525	78,166	80,258
Federally financed	38,560	40,574	42,665	44,857	47,684
All others	25,718	30,159	33,860	33,309	32,574

Source: National Science Foundation, *Academic Science and Engineering: R&D Expenditures, Fiscal Year 1992*, NSF 94-324, Detailed Statistical Tables (1994), tables B-23 and B-24.

**Table 17.25-- PATENTS ISSUED TO HAWAII RESIDENTS:
1984 TO 1994**

[Fiscal years ended September 30. Data include design, plant, and reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1984	43	1990	78
1985	33	1991	78
1986	37	1992	85
1987	52	1993	88
1988	62	1994	1/ 116
1989	74		

1/ Hawaii ranked 45th among the 50 States.

Source: U.S. Department of Commerce, Patent and Trademark Office, *Working for Our Customers: A Patent and Trademark Office Review, Fiscal Year 1994*, p. 66, and *Annual Report* for 1984-1993.

**Table 17.26-- TELESCOPES AT THE SUMMITS OF MAUNA KEA AND
HALEAKALA: 1994**

Location and facility	Mirror size (meters)	Year completed	Costs (mil. dol.)		Local staff 1/	
			Capital	Operating		
Mauna Kea:						
UH 24-inch Telescope #1	0.61	1968	}	5	1.2	11
UH 24-inch Telescope #2	0.61	1969				
UH 88-inch Telescope	2.24	1970				
NASA Infrared Telescope Facility	3.0	1979	10	2.5	11	
Canada-France-Hawaii Telescope	3.6	1979	30	6.0	52	
United Kingdom Infrared Telescope	3.8	1979	5	2.7	27	
Caltech Submillimeter Observatory	10	1986	6	2.0	11	
James Clerk Maxwell Submillimeter	15	1986	32	3.5	39	
W.M. Keck Observatory	10	1992	94	5.0	35	
VLBA Antenna (Radio)	25	1992	7	0.25	3	
W.M. Keck Observatory (Keck II)	10	1996	93	5.0	35	
Japan National Large Telescope (Subaru)	8	1999	170	10.0	50	
Haleakala (on UH land):						
Mees Solar Observatory	...	1956	0.5	0.5	9	
Lunar Ranging Facility	...	1976/84	3.3	0.6	8	
Maui Space Surveillance Site	...	...	200	11.0	120

1/ Based in same county as observatory.

Source: University of Hawaii at Manoa, Institute for Astronomy, *Fact Sheet--1993-1994* (February 1994).

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: 1996*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 1995

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	26.1	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	11.5
Hilo-Kailua, via Naalehu	125.2		
Hilo-Kailua, via Saddle Rd.	84.3	OAHU 1/	
Hilo-Kailua, via Hamakua	91.2	Honolulu-Ala Moana Center	1.6
Hilo-Waimea, via Saddle Rd.	57.9	Honolulu-UH, via King Street	3.2
Hilo-Waimea, via Hamakua	55.3	Honolulu-Waikiki	3.2
Hilo-Upolu Pt., via Hamakua	83.7	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Kawaihae, via Hamakua	69.5	Honolulu-Waimanalo, via Nuuanu	13.3
Waimea-Hawi	21.4	Honolulu-Kailua, via Nuuanu	11.6
Waimea-Kawaihae	11.5	Honolulu-Kaneohe, via Kalihi	10.8
Kawaihae-Hawi	18.0	Honolulu-Kahuku, via Kahaluu	36.2
Kawaihae-Kailua	48.4	Honolulu-Kahuku, via Wahiawa	46.2
Kailua-Keahole Airport	6.8	Honolulu-Kaena Pt., via Wahiawa	42.4
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Waianae	44.3
		Honolulu-Wahiawa	20.5
MAUI		Honolulu-Pearl Harbor Shipyard	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	4.8
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.7	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	33.0
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.1
Wailuku-Makena	17.6	Circle island, via Nuuanu Pali	81.1
Wailuku-Lahaina, via Kahakuloa	38.0		
Wailuku-Lahaina, via Olowalu	20.9	KAUAI	
Kahului-Kihei	7.9	Lihue-Haena	38.0
Lahaina-Wailea	32.4	Lihue-Wailua	5.9
Lahaina-Napili	8.9	Lihue-Lihue Airport	2.0
Lahaina-Kaanapali	3.7	Lihue-Poipu	11.9
		Lihue-Mana	32.9
LANAI		Lihue-Kalalau Lookout	44.6
Lanai City-Lanai Airport	2.7	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	8.0	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, 1993 AND 1994

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
1993				
State total	4,105.94	96.82	3,811.12	198.00
Hawaii 1/	1,433.10	6.56	1,367.17	59.37
Maui 1/	621.90	3.21	561.99	56.70
Lanai	46.68	-	32.68	14.00
Molokai	129.33	-	117.33	12.00
Oahu	1,471.47	87.05	1,350.98	33.44
Kauai	403.46	-	380.97	22.49
Niihau	-	-	-	-
1994				
State total	4,100.07	77.33	3,824.74	198.00
Hawaii 1/	1,420.89	-	1,361.52	59.37
Maui 1/	609.24	-	552.54	56.70
Lanai	46.59	-	32.59	14.00
Molokai	129.26	-	117.26	12.00
Oahu	1,485.75	77.33	1,374.98	33.44
Kauai	408.34	-	385.85	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: 1970 TO 1994

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1970	1975	1980	1985	1990	1994
Total mileage	3,529	3,743	3,912	4,070	4,101	4,100
Paved	3,047	3,355	3,591	3,808	3,887	3,902
Unpaved	482	389	321	262	214	198

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.04-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1994

Island	Number of bridges 1/	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State	714	Airport Viaduct	14,890	Nanue	208
Hawaii	129	Hakalau	775	Nanue	208
Maui	88	Honokahua	600	Uaoa	79
Lanai	-	None	...	None	...
Molokai	19	Manawainui	360	Manawainui	50
Oahu	427	Airport Viaduct	14,890	Kipapa	156
Kauai	51	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, 1994

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 1/	4,890
Outbound 1/	5,165
Middle Street	393
Structure No. 8, Waiawa Interchange	300
Maui:	
Olowalu	318
Kauai:	
Kipu-Mahaulepu (private road)	2,200

1/ Not yet open to public.

Source: Hawaii State Department of Transportation, Highways Division, records; McBryde Sugar Plantation, records.

**Table 18.06-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1986 TO 1996**

[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	
1986	790,855	771,575	642,636	60	4,158	
1987	818,430	798,317	661,674	54	4,198	
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	
		Motor vehicles -- continued				
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor-scooters 2/	Trailers and semi-trailers	
1986	112,053	1,290	323	11,055	19,280	
1987	119,338	1,220	318	11,515	20,113	
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	

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:
1986 TO 1996**

[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
1986	771,575	556,935	89,918	40,585	84,137
1987	798,317	571,738	93,095	43,925	89,559
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

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1995 AND 1996**

[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
1995					
All vehicles	901,291	614,368	116,751	54,860	115,312
Motor vehicles	877,756	601,239	111,624	52,364	112,529
Passenger vehicles 1/	694,239	485,281	84,475	37,594	86,889
Ambulances	54	30	12	-	12
Buses	3,660	2,965	216	39	440
Trucks 1/	161,609	100,097	24,565	13,921	23,026
Truck tractors	567	244	121	65	137
Truck cranes	239	110	23	17	89
Motorcycles 2/	17,388	12,512	2,212	728	1,936
Trailers and semi-trailers	23,535	13,129	5,127	2,496	2,783
1996					
All vehicles	907,770	611,647	120,783	55,379	119,961
Motor vehicles	884,617	598,772	115,647	52,984	117,214
Passenger vehicles 1/	703,094	485,724	88,037	38,266	91,067
Ambulances	59	32	15	0	12
Buses	3,468	2,798	235	30	405
Trucks 1/	160,013	97,537	24,961	13,905	23,610
Truck tractors	504	227	107	52	118
Truck cranes	225	105	20	14	86
Motorcycles 2/	17,254	12,349	2,272	717	1,916
Trailers and semi-trailers	23,153	12,875	5,136	2,395	2,747

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/ Including motorscooters but excluding mopeds (1.5 HP or less), 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, 1996**

[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	867,363	586,423	113,375	52,267	115,298
Taxable vehicles	798,996	521,145	112,214	51,516	114,121
Exempt vehicles	68,367	65,278	1,161	751	1,177
Federal government	339	326	11	-	2
State government	4,642	4,642	-	-	-
County government	5,834	3,878	538	505	913
Fire department	189	56	107	-	26
Police department	1,512	1,180	330	-	2
Consulates	66	65	-	-	1
Disabled veterans	115	79	12	18	6
Military non-resident	55,227	54,858	98	210	61
Farm	396	159	55	16	166
Horseless carriage	47	35	10	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 CARS AND MOTOR TRUCKS
REGISTERED: 1988 TO 1993**

Year	Total	Passenger cars	Motor trucks
1988	78,454	56,278	22,176
1989	84,485	59,893	24,592
1990	97,754	71,950	25,804
1991	97,267	71,924	25,343
1992	78,617	55,394	23,223
1993	76,216	53,943	22,273

Source: R.L. Polk and Co., cited in American Automobile Manufacturers Association, *AAMA Motor Vehicle Facts and Figures* (annual).

**Table 18.13-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1991 TO 1996**

Year	State total	Honolulu	Maui	Hawaii	Kauai
1991	98,698	52,002	21,054	14,389	11,253
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

Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.14-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY NAMEPLATE: 1994 TO 1996**

Nameplate 1/	1994		1995		1996	
	Rank	Units	Rank	Units	Rank	Units
All nameplates	...	82,645	...	72,526	...	68,375
Ford	1	20,992	1	14,178	1	11,003
Chevrolet/Geo	2	9,057	2	9,348	2	7,902
Toyota	3	7,595	4	6,572	3	7,355
Nissan	5	4,854	3	7,360	4	7,160
Dodge	10	2,846	6	5,030	5	5,485
Honda	4	5,169	5	5,103	6	4,708
All others	...	32,132	...	24,935	...	24,762

1/ Shown separately for first six in 1996.

Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual).

**Table 18.15-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
RETAIL AND RENTAL, BY PLACE OF MANUFACTURE: 1995 AND 1996**

Year and place of manufacture	Cars and trucks	Cars			Trucks (all retail)
		Total	Retail	Rental	
1995, total	72,526	65,994	34,551	31,443	6,532
Domestic	45,964	41,416	15,343	26,073	4,548
Imports	26,562	24,578	19,208	5,370	1,984
Percent imports	36.6	37.2	55.6	17.1	30.4
1996, total	68,765	61,240	33,955	27,285	7,525
Domestic	42,783	37,948	15,811	22,137	4,835
Imports	25,982	23,292	18,144	5,148	2,690
Percent imports	37.8	38.0	53.4	18.9	35.8

Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1991 TO 1996**

[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

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.17-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1995 AND 1996**

Age	Both sexes		Male		Female	
	1995	1996	1995	1996	1995	1996
Total	732,508	733,486	390,225	389,483	342,283	344,003
15 to 19 years	38,283	37,456	20,695	20,385	17,588	17,071
20 to 24 years	61,947	59,862	32,941	31,688	29,006	28,174
25 to 34 years	161,342	157,320	84,008	81,578	77,334	75,742
35 to 44 years	174,383	173,455	90,188	89,422	84,195	84,033
45 to 54 years	134,188	139,829	71,529	74,126	62,659	65,703
55 to 64 years	75,702	76,881	40,663	41,416	35,039	35,465
65 to 74 years	60,671	60,687	33,618	33,211	27,053	27,476
75 to 84 years	23,460	25,215	14,769	15,672	8,691	9,543
85 years and over	2,532	2,781	1,814	1,985	718	796
Median age (years)	41.0	41.5	41.4	41.8	40.6	41.1

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.18-- VEHICLE DENSITIES: 1970 TO 1994

Measure	1970	1975	1980	1985	1990	1994
Motor vehicles per --						
1,000 persons 1/	506	532	585	657	707	680
Mile of street or highway	115	134	158	184	217	213
Persons per 1/ --						
Motor vehicle	2.0	1.9	1.7	1.5	1.4	1.5
Mile of street or highway	226	252	270	280	307	314

1/ Based on DBEDT estimates of de facto population.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.19-- MOTOR VEHICLE-MILES OF TRAVEL PER MILE OF HIGHWAY, 1970 TO 1994, AND BY COUNTIES, 1994

[1,000]

Year	Vehicle-miles per highway mile	County	Vehicle-miles per highway mile
1970	966	State, 1994	1,933
1975	1,108		
1980	1,424	Hawaii	772
1985	1,661	Maui	1,266
1990	1,967	Honolulu	3,550
1994	1,933	Kauai	1,371

Source: Calculated from data supplied by Hawaii State Department of Transportation, Highways Division.

Table 18.20-- 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 18.21-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
1984 TO 1994, AND BY COUNTIES, 1993 AND 1994**

Year and county	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1984	339,491	473	6,486.3	9,044
1985	345,672	461	6,761.5	9,027
1986	357,716	464	6,970.7	9,034
1987	367,984	461	7,217.2	9,041
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
COUNTIES: 1993				
Honolulu	273,496	456	5,296.9	8,837
Hawaii	62,088	554	1,092.0	9,742
Kauai	23,641	429	567.9	10,315
Maui	50,715	460	988.5	8,971
COUNTIES: 1994				
Honolulu	284,305	476	5,274.1	8,828
Hawaii	65,234	579	1,097.3	9,736
Kauai	25,086	462	559.9	10,315
Maui	53,933	487	993.9	8,973

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 18.22-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1992 TO 1994**

Site	1992	1993	1994
Pali Highway at tunnels	58,384	52,720	52,626
Likelike Highway at tunnels	59,678	56,497	54,170
H-1 Freeway at Manoa-Palolo Drainage Canal 1/	129,811	110,852	110,356
H-1 Freeway at Kapalama Drainage Canal Bridge	209,922	226,747	222,139
Nimitz Highway at Kapalama Drainage Canal Bridge	76,555	80,909	77,558
Kalaniana'ole Highway east of Ainakoa Ave.	73,944	77,292	77,875

1/ Includes Kapiolani on- and off-ramps prior to 1993.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.23-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1988 TO 1993

[Average speeds, in miles per hour. Years ended September 30]

Year	Statewide	Urban interstate	Rural	
			Arterials 1/	Major collectors
1988	56.2	59.5	52.0	52.3
1989	55.7	58.2	52.4	53.1
1990	56.7	58.9	53.5	54.9
1991	55.0	57.0	52.0	52.1
1992	56.2	57.8	53.4	55.5
1993	2/ 56.3	58.4	53.6	52.7

1/ Other than freeways and expressways.

2/ The corresponding U.S. average was 56.9. Hawaii ranked 39th among the 50 states.

Source: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* (annual).

Table 18.24-- 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.

Source: Hawaii State Department of Transportation, Highways Division, Motor Vehicle Safety Office, records.

**Table 18.25-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1993 AND 1994**

[As of December 31]

Island	Taxicabs 1/		Bicycles and mopeds 2/	
	1993	1994	1993	1994
Hawaii	97	109	6,039	5,623
Maui	178	178	3,424	4,554
Lanai	-	-	67	53
Molokai	4	4	106	92
Oahu	1,683	1,808	100,572	106,491
Kauai	-	-	3/ 1,834	2,403

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/ 1992 total.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the County departments of finance.

Table 18.26-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1995

[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

Source: Information provided by listed companies.

**Table 18.27-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS
(SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1992**

Subject	State total 1/		Counties (SIC 751)			
	SIC 751	SIC 7514	Honolulu	Hawaii	Kauai	Maui
No. of establishments	82	64	36	18	6	22
Receipts (mil. dol.)	332.1	320.0	195.0	38.6	23.6	74.8

1/ Most of the receipts for SIC 751 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.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 6, and 7a.

**Table 18.28-- 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 18.29-- PUBLIC TRANSIT, FOR OAHU: 1984 TO 1994

[Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage 1/	Total passengers 2/	Revenues (dollars)
1984	440	16,774,564	76,260,187	18,819,782
1985	440	16,938,692	74,816,485	18,952,566
1986	459	17,065,875	74,410,104	18,802,330
1987	460	16,733,510	74,066,369	18,659,459
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

1/ Estimated number of vehicle miles.

2/ Estimated number of passengers, including senior citizens and handicapped.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records.

**Table 18.30-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND
AVERAGE BUS SPEED, FOR OAHU: 1992 TO 1994**

[Calendar year data for City and County of Honolulu bus system]

Fare category	1992	1993	1994
All passengers	78,416,523	79,343,403	79,309,437
Adults, full fare	46,773,053	47,953,391	48,012,829
Students	11,174,889	11,074,425	11,251,311
School subsidy	201,451	235,487	263,596
Stadium express	8,365	8,608	7,428
Senior citizens and handicapped	15,002,787	15,356,463	15,990,937
Free transfers	5,255,978	4,715,029	3,783,336
Average bus speed (m.p.h.)	14.8	14.8	15.0

Source: City and County of Honolulu, Honolulu Public Transit Authority, records.

Table 18.31-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1995

[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, handicapped persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated.

3/ Current fares as of July 14, 1995.

Source: City and County of Honolulu, Public Transit Authority, records.

**Table 18.32-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1984 TO 1994**

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only
passenger railroad in the State]

Calendar year	Miles of track	Passengers	Calendar year	Miles of track	Passengers
1984	6	197,876	1990	6	308,910
1985	6	199,759	1991	6	316,079
1986	6	215,735	1992	6	385,261
1987	6	244,555	1993	6	388,484
1988	6	285,139	1994	6	390,862
1989	6	296,391			

Source: Lahaina, Kaanapali and Pacific Rail Road, records.

**Table 18.33-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1994**

Island	Airports 1/				Heliports 2/	
	State 3/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
State total	9	7	6	-	-	13
Hawaii	2	2	1	-	-	8
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	-	1
Kauai	2	1	1	-	-	2
Niihau	-	-	-	-	-	2
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available).

2/ Excludes military and private heliports (not available).

3/ Three airports classified as general aviation fields (Waimea-Kohala, Hana, and Kalaupapa) provided regular air service.

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.34-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN
OPERATIONS AND ENPLANED PASSENGERS: 1991 TO 1993**

Subject	Rank 1/			Number		
	1991	1992	1993	1991	1992	1993
Total aircraft operations	16	22	24	403,570	403,708	358,543
Air carrier operations	21	21	23	196,047	202,559	185,959
Total enplaned passengers 2/	15	15	19	8,772,316	8,740,091	8,484,364

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 18.35-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1984 TO 1994**

[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
1984	343,818	62,543	83,320	142,311	100,992	53,513
1985	357,511	61,225	93,879	157,231	131,755	56,048
1986	368,049	61,514	81,467	174,560	143,905	52,268
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

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 18.36-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 1994

[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
Honolulu International	359,569	193,615	56,067	87,986	21,901
Hilo International	86,292	21,194	36,564	20,519	8,015
Kahului	179,227	56,393	85,373	33,292	4,169
Lihue	91,582	24,133	54,199	7,674	5,576
Kona International	66,438	24,923	14,460	21,003	6,052
Molokai	38,369	1,445	25,637	8,452	2,835

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.37-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING
HAWAII: 1992 TO 1995**

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines
and other air taxi service]

Service	1992	1993	1994	1995
All carriers	45	41	46	44
Transpacific only	25	24	28	26
Domestic	9	10	11	12
Foreign	16	14	17	14
Transpacific and interisland	5	5	5	4
Interisland only	15	12	13	14
Passenger carriers	9	8	9	11
Cargo and mail only	6	4	4	3

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.38-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR
ARRIVING FLIGHTS: 1989 TO 1994**

Year	Total	Westbound and southbound	Eastbound and northbound
1989	11,005,765	7,241,987	3,763,778
1990	11,779,602	7,367,305	4,412,297
1991	11,851,900	7,157,210	4,694,690
1992	11,424,600	6,362,440	5,062,160
1993	10,752,580	5,882,450	4,870,130
1994	9,946,830	5,551,880	4,394,950

Source: Hawaii Visitors Bureau, records.

Table 18.39-- CIVIL FLYING: 1990 TO 1993

Item	1990	1991	1992	1993
Aircraft facilities, Dec. 31	50	48	47	47
Airports	34	33	32	32
Heliports	16	15	15	15
Public aircraft facilities, Dec. 31	16	17	17	18
Paved and lighted facilities, Dec. 31	12	12	13	13
Large aircraft in operation, Dec.	52	56	59	50
Aloha Airlines	17	19	21	17
Hawaiian Airlines	35	29	29	24
Mid Pacific Airlines	-	8	9	9
General aviation: 1/				
Active civil aircraft, Dec.	561	484	372	312
Hours flown (1,000)	278	259	176	140
Active personnel, Dec. 31:				
Pilots, except instructors	3,505	3,339	3,293	3,088
Flight instructors	309	350	388	360
Nonpilot airmen 2/	3,306	3,492	3,711	3,828

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1993, 29.8 percent for aircraft and 42.2 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 18.40-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1984 TO 1994**

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Overseas passengers 1/			Inter-island passenger arrivals
	Arrivals	Departures	Through	
1984	5,263,213	5,261,373	727,947	7,632,239
1985	5,317,862	5,293,528	858,501	7,878,598
1986	6,041,078	6,083,508	841,241	8,340,048
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

1/ Includes West Coast, Canada, Europe, and the Central and South Pacific.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.41-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1994

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	7,478,052	7,309,894	169,543	154,480	23,961	60,981
Honolulu	6,621,058	6,387,930	157,771	144,024	23,961	60,981
Hilo	-	-	-	-	-	-
Kahului	710,174	771,304	4,533	7,016	-	-
Keahole	146,820	150,660	7,239	3,440	-	-
Lihue	-	-	-	-	-	-
INTERISLAND						
Total	9,920,709	9,920,709	74,452	74,452	13,982	13,982
Honolulu	4,489,460	4,540,602	45,857	26,487	8,800	5,162
Hilo	790,172	813,449	15,518	9,501	1,210	2,077
Upolu	-	-	-	-	-	-
Waimea-Kohala	1,513	1,455	4	8	-	-
Keahole	981,913	959,190	4,329	8,474	1,038	1,783
Kahului	2,173,862	2,119,178	5,104	18,250	1,991	3,182
Hana	6,966	6,789	-	-	-	-
Kapalua	95,994	92,610	253	470	1	35
Molokai	128,466	125,054	168	381	69	29
Kalaupapa	7,340	6,930	-	4	-	-
Lanai	81,990	89,252	24	668	21	16
Lihue	1,146,319	1,151,971	3,195	10,272	852	1,698
Princeville 2/	13,714	14,229	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (956,926, passing through Honolulu International Airport).

2/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.42-- AIR CARGO AND AIRMAIL: 1984 TO 1994

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
1984	196,215	153,654	23,356	29,497	111,472	16,282
1985	180,470	150,295	21,657	22,119	101,700	16,072
1986	200,255	184,894	22,842	23,725	114,657	16,913
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

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.43-- HELICOPTER TOURS: 1977 TO 1994

Subject	1977	1982	1987	1991	1992	1993	1994
Companies	9	14	33	33	31	25	25
Aircraft	15	35	72	88	89	87	82

Source: Hawaii Helicopter Operators Association, records.

**Table 18.44-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1994**

[Data for the 652 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination	Flights during week		
	Total	Final destination	Intermediate point
Tokyo	83	64	19
Nagoya	14	14	-
Osaka	22	22	-
Fukuoka	11	11	-
Sapporo	4	4	-
Taipei	19	19	-
Seoul	27	20	7
Manila	12	12	-
Sydney	11	11	-
Auckland	13	13	-
Guam	24	19	5
Vancouver	9	9	-
Toronto	4	4	-
Seattle	21	14	7
San Francisco	74	60	14
Los Angeles	153	97	56
Las Vegas	9	9	-
Denver	14	7	7
Dallas/Fort Worth	28	21	7
Chicago	35	28	7
Atlanta	12	12	-
New York	7	7	-
All others	123	91	32

Source: Greeters of Hawaii, *Jiffisked* ^[tm] July 1994. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

**Table 18.45-- AIR FARES BETWEEN HONOLULU AND SELECTED MAINLAND
CITIES, BY UNITED AIRLINES: 1990 TO 1995**

[As of July 1. Unrestricted one-way weekday coach fares in dollars to San Francisco,
Los Angeles, and Chicago]

Between Honolulu and--	1990	1991	1992	1993	1994	1995
San Francisco	560	642	400	566	566	596
Los Angeles	478	560	420	586	586	716
Chicago	741	905	690	886	886	916

Source: United Airlines, Customer Relations, records.

Table 18.46-- ONE-WAY FARES FOR INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1991 TO 1996

[As of August 1. Fares are identical between Honolulu and each of the Neighbor Islands]

Category	1991 1/	1992	1993	1994	1995	1996
Regular fare	65.95	69.95	74.00	74.00	74.00	85.00
Kamaaina fare: 2/						
Monday - Thursday	57.95	57.95	51.00	56.00	56.00	48.00
Friday - Sunday	57.95	57.95	59.00	64.00	64.00	48.00

1/ For a complete chronology of interisland air fares, 1929 to 1990, see Robert C. Schmitt, *What People Paid to Travel* (Hawaiian Historical Society, January 1991), table 11, pp. 38-39.

2/ Available only to Hawaii residents.

Source: Hawaiian Airlines, records.

Table 18.47-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR MAJOR AIRLINES: AUGUST 1, 1996

[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	935	1,169	1,246
Coach (unrestricted)	530	1/ 530	648
United Airlines, round-trip:			
First class	1,870	2,338	2,492
Coach (unrestricted)	1,060	1,060	1,296
Major carriers, lowest round-trip: 2/			
United Airlines	352	352	398
Lowest carrier	352	352	398
Highest carrier	352	352	398

1/ For annual midyear (July 1) data on United Airlines unrestricted one-way coach fares, 1980-1995, see *Data Book 1996*, table 7.26. 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: International Travel Service, records.

Table 18.48-- STATE COMMERCIAL HARBORS: 1995

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	124	850
Molokai:							
Kaunakakai	23	23	1,500	600	691	7.4	129
Oahu:							
Honolulu:							
Main	} 45	{ 40	3,300	1,520	} 28,007	1,560	8,460
Kapalama			3,400	1,000			
Barbers Point	42	38	2,100	1,800	1,860	-	1,647
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,291	109	1,150
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 18.49-- HARBOR DEPTHS: 1995

[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 1995*, Part 4 (November 1996), pp. 83-97.

**Table 18.50-- SMALL CRAFT MOORING FACILITIES CAPACITY,
BY ISLANDS: DECEMBER 31, 1994**

Island	State-operated 1/				Non-State	
	Catwalks and piers		Other moorage		Slips	Other moorage 2/
	Total	Vacant	Total	Vacant		
State total	1,740	113	481	40	2,748	1,747
Hawaii	251	2	121	2	-	375
Maui	46	-	144	-	-	50
Lanai	28	3	5	-	-	10
Molokai	2	-	27	2	-	50
Oahu	1,331	100	154	22	2,748	1,211
Kauai	82	74	30	8	-	51

1/ 2,068 vessels were moored (1,627 at catwalks and piers, 441 at other moorage), and valid applications on file numbered 2,072.

2/ Includes moorings (142), ramps (16), and dry storage (1,589).

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly), and records.

**Table 18.51-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS:
1993**

[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	627	311	316	20	2/ 25	3/ 913	4/ 138
Hawaii	70	57	13	8	24	156	115
Maui	52	22	30	2	24	170	48
Molokini	1	1	-	-	7	182	30
Kahoolawe	1	1	-	-	7	120	20
Lanai	14	8	6	-	8	91	13
Molokai	18	11	7	1	25	213	138
Oahu	324	152	172	5	25	913	71
Kauai	48	28	20	4	25	174	80
Niihau	-	-	-	-	-	-	-
Lehua	1	1	-	-	7	704	10
Midway	25	25	-	-	4	43	(NA)
At sea	73	5	68	-	-	-	-

NA Not available.

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, April 15, 1993.

**Table 18.52-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1994**

Subject	Number	Subject	Number
Certificates outstanding	13,839	Type of vessel:	
Length:		Cabin motorboat	2,195
Under 16 feet	5,573	Open motorboat	5,102
16 to less than 26 feet	6,732	Runabout	2,653
26 to less than 40 feet	1,336	Sail/inboard	601
40 to 65 feet	182	Sail/outboard	564
Over 65 feet	16	Sail only	789
Median (feet)	18.0	Motor vessel over 65 feet	9
Hull material:		Other	1,926
Wood	897	Uses:	
Fiberglass	11,093	Pleasure	12,305
Metal	520	Commercial fishing	580
Inflatable	1,122	Charter fishing	23
Other	207	Commercial passenger	255
Propulsion:		Other commercial	76
Inboard	881	Livery	197
Outboard	8,103	Dealer or manufacturer	30
Inboard/outboard	1,979	Youth group	62
Sail/inboard	601	Government	261
Sail/outboard	564	Other	50
Sail only	789	Island kept:	
Manual	207	Hawaii	1,887
Other	715	Kauai	1,261
Type of storage:		Lanai	59
On water	2,449	Maui	1,353
On land	11,390	Molokai	156
		Oahu	9,123

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

**Table 18.53-- DOCUMENTED AND NUMBERED VESSELS REGISTERED
IN HAWAII: 1989 TO 1994**

Category	1989	1990	1991	1992	1993	1994
Documented 1/ Numbered 2/	1,600 13,501	1,700 14,081	1,775 13,592	(NA) 13,973	(NA) 13,832	(NA) 13,839

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, *Report of Undocumented Vessel Registration* (annual).

Table 18.54-- BOATING ACCIDENTS: 1989 TO 1994

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

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, *Recreational Boating Accident Statistics 1991 through 1993*, and records.

Table 18.55-- VESSEL ARRIVALS, BY DRAFT: ANNUALLY, 1994 AND 1995

[Excludes domestic fishing craft]

Harbor	1994			1995		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	817	793	24	835	798	37
Kawaihae	643	643	-	705	703	2
Kahului	1,228	1,202	26	1,238	1,211	27
Kaunakakai	1,581	1,581	-	1,802	1,802	-
Kalaupapa	19	19	-	31	31	-
Honolulu	7,760	5,983	1,777	7,999	6,215	1,784
Barbers Point	1,050	915	135	1,227	1,096	131
Nawiliwili	607	584	23	620	593	27
Port Allen	264	264	-	299	1/ 299	-

1/ 29 feet and less.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, (annual), Part 4.

**Table 18.56-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF
HONOLULU: 1983 TO 1994**

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Cargo tonnage	Number	Cargo tonnage
1983	1,775	4,868,930	2,662	2,322,957
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

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.57-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS
AND DEPARTURES, FOR HONOLULU HARBOR: 1989 TO 1994**

[Fiscal years ended June 30]

Type of passenger	1989	1990	1991	1992	1993	1994
Overseas:						
In	15,993	9,770	17,503	15,730	14,712	14,502
Out	16,716	9,084	17,812	15,766	14,942	14,502
Interisland:						
In	78,710	67,199	67,409	72,493	61,563	68,229
Out	78,711	67,199	67,409	72,493	61,563	68,229

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.58-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1981 TO 1995**

[1,000 short tons. Excludes cargo carried by Army and Navy vessels and cargo in transit]

Year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
1981	1,442	433	1,552	8,270	5,590	907
1982	1,382	441	1,484	7,593	5,707	808
1983	1,522	441	1,843	8,040	7,051	1,009
1984	1,571	546	1,889	8,470	6,565	945
1985	1,319	527	1,517	7,986	6,752	933
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

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 1995, Part 4, pp. 83-97.

Table 18.59-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1994

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,455	735	2,368	11,672	9,022	1,151
Foreign, except Canadian:						
Imports	80	-	23	1,413	4,255	5
Exports	-	-	-	301	799	-
Canadian:						
Imports	7	-	5	43	-	7
Exports	7	-	1	-	-	-
Domestic, total	1,362	735	2,339	9,915	3,969	1,139
Coastwise: 1/						
Receipts	900	526	1,467	5,558	3,194	672
Shipments	462	209	873	4,230	765	467
Internal, total 2/	-	-	-	127	9	-

1/ Includes interisland and interstate.

2/ Includes intraport.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1994*, Part 4 (December 1995), pp. 83-99.

**Table 18.60-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1994**

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,455	987	469
Fabricated non-iron metal products	405	239	166
Food and farm products	352	134	211
Kawaihae	735	526	209
Kahului	2,368	1,495	874
Petroleum and petroleum products	297	289	8
Fabricated non-iron metal products	682	403	280
Food and farm products	640	204	436
Manufactured equipment, machinery and products	467	321	146
Kaunakakai	189	(NA)	(NA)
Honolulu	11,672	7,014	4,658
Petroleum and petroleum products	2,096	1,524	572
Lumber	275	223	52
Fabricated non-iron metal products	2,195	925	1,269
Food and farm products	2,870	1,800	1,070
Manufactured equipment, machinery and products	2,663	1,471	1,192
Vehicles and parts	924	423	502
Barbers Point	9,022	7,449	1,573
Petroleum and petroleum products	8,431	7,024	1,408
Nawiliwili	1,151	684	467
Fabricated non-iron metal products	461	260	201
Manufactured equipment, machinery and products	284	202	82
Port Allen	1	(NA)	(NA)

NA Not available.

1/ Includes foreign imports and coastwise receipts.

2/ 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 1994*, Part 4 (December 1995), pp. 83-100.

Table 18.61-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1995

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,354	873	2,586	11,545	8,233	1,130
Foreign, except Canadian:						
Imports	46	-	66	1,891	3,974	6
Exports	-	-	-	247	751	-
Canadian:						
Imports	4	-	9	33	-	10
Exports	-	-	-	-	-	-
Domestic, total	1,304	873	2,511	9,375	3,508	1,114
Coastwise: 1/						
Receipts	929	662	1,593	5,096	2,716	611
Shipments	375	211	917	4,172	783	503
Internal, total 2/	-	-	-	107	9	-

1/ Includes interisland and interstate.

2/ Includes intraport.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1995*, Part 4 (November 1996), pp. 83-97.

**Table 18.62-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1995**

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,354	979	375
Fabricated non-iron metal products	452	253	199
Food and farm products	205	112	93
Kawaihae	873	662	211
Kahului	2,586	1,668	917
Petroleum and petroleum products	434	434	-
Fabricated non-iron metal products	859	474	385
Food and farm products	546	172	374
Manufactured equipment, machinery and products	442	291	151
Kaunakakai	191	(NA)	(NA)
Honolulu	11,545	7,020	4,526
Petroleum and petroleum products	2,662	2,003	659
Lumber	215	162	53
Fabricated non-iron metal products	2,591	1,105	1,486
Food and farm products	2,347	1,510	837
Manufactured equipment, machinery and products	2,406	1,298	1,108
Vehicles and parts	839	375	464
Barbers Point	8,233	6,690	1,543
Petroleum and petroleum products	7,385	6,016	1,369
Nawiliwili	1,130	627	503
Fabricated non-iron metal products	557	286	271
Manufactured equipment, machinery and products	249	171	78
Port Allen	6	(NA)	(NA)

NA Not available.

1/ Includes foreign imports and coastwise receipts.

2/ 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 1995*, Part 4 (November 1996), pp. 83-98.

**Table 18.63-- 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 18.64-- 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:	7,033	12,549	155
Truck	110	(S)	(S)
Air	(D)	(D)	(D)
Other			
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 1992, 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: 1996*.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1992**

Item		1987	1992
Farms	number	4,870	5,336
Land in farms	acres	1,721,521	1,588,843
Average size of farm	acres	353	298
Value of land and buildings:			
Average per farm	dollars	603,435	722,189
Average per acre	dollars	1,707	2,425
Estimated market value of all machinery and equipment:			
Average per farm	dollars	41,208	53,207
Farms by size:			
1 to 9 acres		2,855	3,410
10 to 49 acres		1,401	1,342
50 to 179 acres		341	313
180 to 499 acres		128	133
500 to 999 acres		31	34
1,000 acres or more		114	104
Total cropland			
	farms	4,170	4,735
	acres	327,396	293,371
Harvested cropland			
	farms	3,837	4,472
	acres	152,719	136,431
Irrigated land			
	farms	1,827	2,220
	acres	148,884	134,338
Market value of agricultural products sold			
Average per farm	\$1,000 dollars	609,741	552,054
Crops, including nursery and greenhouse crops	\$1,000	125,203	103,458
Livestock, poultry, and their products	\$1,000	498,317	453,410
		111,424	98,644
Farms by value of sales:			
Less than \$2,500		1,402	1,790
\$2,500 to \$4,999		674	754
\$5,000 to \$9,999		745	715
\$10,000 to \$24,999		911	863
\$25,000 to \$49,999		476	484
\$50,000 to \$99,999		287	291
\$100,000 or more		375	439

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**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1992 -- Con.**

Item		1987	1992
Total farm production expenses	\$1,000	495,759	466,826
Average per farm	dollars	101,840	87,486
Net cash return from agriculture sales for the farm unit	farms	4,869	5,336
Average per farm	\$1,000 dollars	113,904 23,394	85,228 15,972
Operators by principal occupation:			
Farming		2,816	2,926
Other		2,054	2,410
Operators by days worked off farm:			
Any		2,728	2,864
200 days or more		1,476	1,487
Livestock and poultry:			
Cattle and calves inventory	farms	1,003	874
	number	211,045	191,230
Beef cows	farms	724	655
	number	83,427	87,620
Milk cows	farms	73	57
	number	11,836	10,816
Cattle and calves sold	farms	807	699
	number	101,315	82,788
Hogs and pigs inventory	farms	372	253
	number	47,564	28,570
Hogs and pigs sold	farms	307	200
	number	69,019	47,831
Sheep and lambs inventory	farms	42	62
	number	21,908	22,938
Chicken 3 months old or older inventory	farms	181	177
	number	(D)	935,278
Broilers and other meat-type chickens sold	farms	12	14
	number	2,069,316	1,201,331

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**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1992 -- Con.**

Item		1987	1992
Selected crops harvested:			
Sugarcane for sugar	farms	79	31
	acres	79,234	62,915
	tons	7,934,181	5,488,214
Pineapples harvested	farms	18	21
	acres	22,262	15,500
	tons	683,182	556,748
Vegetables harvested	farms	710	602
	acres	5,587	5,129
Land in orchards	farms	2,128	2,537
	acres	33,564	38,590

(D) Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, cited in Release 92-A29-HI (November 7, 1994).

Table 19.02-- FARMS AND LAND IN FARMS, FOR COUNTIES: 1992

Item		Hawaii	Honolulu	Kauai	Maui
Farms	number	3,157	892	437	850
Land in farms	acres	926,607	91,998	214,452	355,786
Average size of farm	acres	294	103	491	419
Value of land and buildings:					
Average per farm	dollars	495,001	1,144,965	730,246	1,118,184
Average per acre	dollars	1,686	11,101	1,488	2,671
Estimated market value of all machinery and equipment:					
Average per farm	dollars	28,617	51,619	109,908	117,143
Farms by size:					
1 to 9 acres		1,960	696	249	505
10 to 49 acres		858	136	116	232
50 to 179 acres		188	28	37	60
180 to 499 acres		74	17	18	24
500 to 999 acres		22	5	4	3
1,000 acres or more		55	10	13	26
Total cropland	farms	2,893	764	345	733
	acres	116,068	43,587	(D)	(D)
Harvested cropland	farms	2,752	745	309	666
	acres	52,950	20,692	23,758	39,031
Irrigated land	farms	842	579	258	541
	acres	13,013	27,196	32,580	61,549
Market value of agricultural products sold					
Average per farm	\$1,000 dollars	187,593	150,527	49,166	164,767
Crops, including nursery and greenhouse crops	\$1,000	59,421	168,752	112,509	193,844
Livestock, poultry, and their products	\$1,000	158,360	98,312	43,454	153,285
	\$1,000	29,233	52,215	5,713	11,483

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, cited in Release 92-A29-HI and related county releases.

**Table 19.03-- NUMBER OF FARMS, FARM ACREAGE, AND FARM
EMPLOYMENT: 1980 TO 1995**

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	4,800	1,590	2,800	1,100	8,700
1994	4,800	1,590	2,700	1,200	8,100
1995	4,800	1,590	2,700	1,000	7,300

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.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records.

Table 19.04-- VALUE OF CROP AND LIVESTOCK SALES: 1980 TO 1995

[\$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	490,692	419,108	127,700	87,360	204,048	71,584

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records.

Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1985, 1993, 1994, AND 1995

County or island and year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members 4/	Hired workers
State total:					
1985	4,400	1,950	2,200	1,200	10,600
1993	4,800	1,590	2,800	1,100	8,700
1994	4,800	1,590	2,700	1,200	8,100
1995	4,800	1,590	2,700	1,000	7,300
Hawaii County:					
1985	2,550	1,140	1,400	800	3,500
1993	2,800	929	1,800	650	3,300
1994	2,800	929	1,750	700	3,050
1995	2,800	929	1,750	550	2,550
Maui County:					
1985	550	420	250	150	2,950
1993	700	355	300	150	2,100
1994	700	355	300	150	2,000
1995	700	355	300	150	1,850
Oahu:					
1985	925	120	450	250	2,750
1993	900	92	550	300	2,300
1994	900	92	500	350	2,050
1995	900	92	500	250	1,900
Kauai County:					
1985	375	275	150	50	1,300
1993	400	214	200	100	1,050
1994	400	214	250	100	1,100
1995	400	214	200	150	1,050

1/ Based on farm definition of \$1,000 or more of agricultural sales.

2/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

3/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

4/ Working 15 hours or more per week.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); *Hawaii Agricultural Labor* (quarterly).

**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES
OR ISLANDS: 1985, 1993, 1994 AND 1995**

[\$1,000]

County or island and year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unpro- cessed cane)	Pine- apples 1/ (fresh equiv.)	Other crops 1/	
State total:						
1985	528,349	445,526	222,400	90,530	132,126	82,823
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	490,692	419,108	127,700	87,360	204,048	71,584
Hawaii County:						
1985	171,582	149,460	69,800	(Z)	79,155	22,122
1993	166,309	140,610	39,000	(Z)	101,610	25,699
1994	161,475	140,770	35,800	(Z)	104,970	20,705
1995	145,189	128,018	12,200	(Z)	115,818	17,171
Maui County:						
1985	131,464	119,249	63,600	36,380	19,309	12,215
1993	131,703	118,702	62,700	24,890	31,112	13,001
1994	126,253	115,511	58,500	25,150	31,861	10,742
1995	124,847	114,262	59,400	24,775	30,087	10,585
Oahu:						
1985	160,678	117,263	35,700	54,150	27,363	43,415
1993	162,086	119,906	29,700	54,923	35,283	42,180
1994	160,677	119,957	30,600	53,690	35,667	40,720
1995	162,394	122,827	21,000	62,585	39,242	39,567
Kauai County:						
1985	64,625	59,554	53,300	(Z)	6,299	5,071
1993	46,377	42,375	31,600	(Z)	10,775	4,002
1994	55,375	50,912	35,200	(Z)	15,712	4,463
1995	58,262	54,001	35,100	(Z)	18,901	4,261

Z Less than \$50,000.

1/ County data may fail to add exactly to State total.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.07-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1985, 1993, 1994, AND 1995

Subject	1985	1993	1994	1995
Acreage in crop (1,000 acres):				
Sugarcane	187.9	132.2	121.1	83.8
Pineapples (land used for pineapple)	34.5	22.0	22.3	20.8
Vegetables and melons (harvested acreage)	5.4	5.3	5.3	6.0
Fruits, excluding pineapples	6.5	6.9	6.6	7.0
Coffee	2.1	7.0	6.8	6.7
Macadamia nuts	20.0	20.1	20.2	20.3
All other crops	8.6	5.3	5.7	6.6
Number of crop farms:				
Sugar	155	35	24	9
Pineapples	18	20	15	15
Vegetables and melons	715	510	580	690
Fruits (excluding pineapples)	805	787	836	924
Coffee	620	580	585	580
Macadamia nuts	610	650	650	650
Taro	155	190	180	190
Flowers and nursery products	670	662	660	705
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	7,916	5,508	5,266	3,953
Pineapples, fresh equivalent (1,000 tons)	565	370	365	345
Vegetables and melons (1,000 lb.)	89,620	82,880	80,350	89,100
Fruits, excluding pineapples (1,000 lb.)	80,980	93,510	96,650	83,520
Coffee, parchment (1,000 lb.)	1,850	2,900	4,300	5,400
Macadamia nuts, in shell (1,000 lb.)	42,000	48,500	52,500	50,000
Taro (1,000 lb.)	6,860	6,000	6,100	6,800
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	222,400	163,000	160,100	127,700
Pineapples (fresh equivalent)	90,530	79,850	78,890	87,360
Vegetables and melons	30,034	34,645	36,105	38,604
Fruits (excluding pineapples)	12,794	22,173	23,611	28,218
Coffee (parchment)	5,180	6,525	12,040	16,200
Macadamia nuts (in shell)	30,480	32,980	36,225	37,000
Taro	1,578	2,760	2,806	3,264
Field crops (not estimated separately)	8,198	9,827	10,048	12,738
Flowers and nursery products	44,162	69,513	67,005	67,704

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.08-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY COUNTIES OR ISLANDS: 1995

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	2.4	42.6	8.0	30.8
Pineapples (land used for pineapple)	(2/)	9.5	11.3	(2/)
Vegetables and melons (harvested acreage)	2.0	2.0	1.9	0.1
Fruits, excluding pineapples	5.5	0.2	0.5	0.8
Coffee	1.8	(1/)	-	1/ 4.9
Macadamia nuts	(D)	(D)	(D)	(D)
All other crops	2.1	2.2	0.8	1.5
Number of crop farms:				
Sugar	1	2	2	4
Pineapples	7	3	2	3
Vegetables and melons	335	95	235	25
Fruits (excluding pineapples)	652	74	128	70
Coffee	570	(1/)	-	1/ 10
Macadamia nuts	(D)	(D)	(D)	(D)
Taro	109	20	9	52
Flowers and nursery products	333	106	220	46
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	430	1,678	709	1,136
Pineapples, fresh equivalent (1,000 tons)	(3/)	188	157	(3/)
Vegetables and melons (1,000 lb.)	28,760	36,110	23,790	440
Fruits, excluding pineapples (1,000 lb.)	66,320	1,880	3,880	11,440
Coffee, parchment (1,000 lb.)	2,500	(1/)	-	1/ 2,900
Macadamia nuts, in shell (1,000 lb.)	(D)	(D)	(D)	(D)
Taro (1,000 lb.)	1,400	(D)	(D)	4,160
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	12,200	59,400	21,000	35,100
Pineapples (fresh equivalent)	(4/)	24,775	62,585	(4/)
Vegetables and melons	14,267	13,760	10,283	294
Fruits (excluding pineapples)	22,255	1,031	2,353	2,579
Coffee (parchment)	11,500	(1/)	-	1/ 4,700
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	657	(D)	(D)	1,997
Field crops (not estimated separately)	102	4,382	754	7,500
Flowers and nursery products	32,474	7,767	25,658	1,805

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.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture 1995*.

Table 19.09-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 1995

[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 (1995-96)	5,400	1.0	5,400	300.0	16,200
Fresh herbs	...	...	1,120	260.0	1,886
Ginger roots	135	43.0	5,800	87.0	5,046
Macadamia nuts (1995-96)	19,300	2.6	56,000	66.1	37,000
Seed crops (1995-96)	1,700	...	3,050	...	12,230
Fruits:					
Bananas	930	14.0	13,000	40.0	5,200
Guavas	750	...	16,400	14.5	2,378
Papayas	2,435	20.9	50,800	36.4	18,494
Vegetables:					
Cabbage, Chinese	370	21.1	7,800	23.5	1,833
Cabbage, head	600	21.5	12,900	22.0	2,838
Cucumbers	400	10.0	4,000	40.0	1,600
Onions, dry	210	11.0	2,300	114.0	2,622
Onions, green	220	6.8	1,500	96.0	1,440
Peppers, green	200	12.0	2,400	58.0	1,392
Potatoes, sweet	320	8.8	2,800	55.0	1,540
Taro	1/ 550	...	6,800	48.0	3,264
Tomatoes	240	25.0	6,000	48.5	2,910
Watercress	1/ 40	...	1,200	115.0	1,380
Watermelons	800	25.5	20,400	17.0	3,468

1/ Acreage in crop.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture 1995*.

**Table 19.10-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1984 TO 1994**

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

Source: Hawaiian Sugar Planters' Association, records; Alexander & Baldwin, Inc., "Water to the Roots," *Ampersand*, Spring 1987, pp. 3-6.

**Table 19.11-- GOVERNMENT PAYMENTS FOR AGRICULTURE:
1985 TO 1995**

[\$1,000]

Year	Amount	Year	Amount	Year	Amount
1985	1,184	1989	396	1993	2,018
1986	2,810	1990	657	1994	700
1987	344	1991	730	1995	566
1988	465	1992	734		

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

**Table 19.12-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU,
BY SOURCE: 1991 TO 1993**

[1,000 pounds, net]

Source	1991	1992	1993
Total arrivals	291,626	298,959	306,650
From Hawaii	86,410	80,421	83,898
Oahu 1/	26,347	24,924	20,190
Other islands 2/	60,063	55,497	62,988
Hawaii 2/	26,853	26,407	29,643
Maui 2/	15,565	14,249	15,409
Molokai 2/	17,457	14,603	17,866
Kauai 2/	188	238	70
From U.S. Mainland 2/	198,149	211,082	213,981
From foreign countries 2/	7,067	7,456	8,771

1/ Wholesalers' truck receipts.

2/ Ship and plane arrivals.

Source: Hawaii State Department of Agriculture, Market News Service, *Honolulu Arrivals, Fresh Fruits and Vegetables, 1991* (April 1993), table 1, and records.

**Table 19.13-- LIVESTOCK INVENTORY, 1985 TO 1995, AND BY
GEOGRAPHIC AREAS, 1995**

[In thousands]

Year and geographic area	All cattle and calves 1/	Milk cows 1/	Hogs and pigs 2/	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
GEOGRAPHIC AREAS: 1995					
Hawaii County	119.3	1.7	2.1	(D)	(NA)
Maui	20.0	1.0	7.8	(D)	(NA)
Molokai and Lanai	6.6	-	(3/)	(D)	(NA)
Oahu	14.3	6.7	20.4	756	(NA)
Kauai County	10.8	0.5	3.7	(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/ Combined with Maui.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.14-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1985, 1993, 1994, AND 1995

Subject	1985	1993	1994	1995
Number of livestock operations, Dec. 31:				
Cattle 1/	850	850	800	800
Hogs	650	350	350	350
Milk	90	60	60	60
Eggs	55	55	55	55
Honey	22	18	21	17
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	33,764	10,924	9,324	7,895
Pork (dressed weight; 1,000 lb.)	7,859	5,849	5,907	6,239
Milk (million lb.)	139.8	138.5	136.9	139.4
Eggs (million)	220.5	210.6	195.0	186.0
Honey (1,000 lb.)	1,184	1,593	1,098	1,032
Value of livestock sales (\$1,000):				
Cattle 3/	26,632	26,860	19,700	14,639
Hogs 3/	7,995	6,293	6,175	6,672
Milk	28,310	32,035	31,747	32,146
Eggs	14,020	15,005	13,959	13,516

1/ Includes beef, dairy, and dairy replacement operations.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.15-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1995

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	12	2	-	3
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	3,780	2,055	1,362	698
Pork (dressed weight; 1,000 lb.)	453	1,584	3,363	839
Milk (million lb.)	(D)	(D)	98.8	(D)
Eggs (million)	(D)	(D)	149.2	(D)
Honey (1,000 lb.)	(D)	(D)	-	(D)
Value of livestock sales (\$1,000):				
Cattle 3/	9,287	3,504	966	882
Hogs 3/	465	1,668	3,565	974
Milk	(D)	(D)	22,672	(D)
Eggs	(D)	(D)	10,507	(D)

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement operations.

2/ Includes slaughter cattle but excludes calves shipped out-of-State.

3/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture 1995*.

**Table 19.16-- FLORICULTURE AND NURSERY PRODUCTS, 1992 TO 1994,
AND BY ISLANDS, 1994**

Island and year	Number of farms	Growing area					Wholesale value (\$1,000)
		Total (acres)	Greenhouse (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	67,894
Islands, 1994:							
Hawaii	304	1,175	2,715	16,330	18	720	31,348
Kauai	40	106	105	390	0	95	1,842
Maui/Molokai	102	499	310	505	0	480	7,913
Oahu	214	510	640	4,375	0	395	26,791

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary* (June 13, 1995), pp. 8 and 11.

Table 19.17-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1990 TO 1994

[\$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

Type	1990	1991	1992	1993	1994
Total sales	37,734	40,920	41,890	40,740	36,775
Anthuriums, cut	11,185	10,595	11,355	11,115	10,310
Foliage, potted	8,525	9,595	10,015	9,655	9,090
Other flowers, nursery products	18,024	20,730	20,520	19,970	17,375

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (June 13, 1995), p. 13.

**Table 19.18-- FLORICULTURE AND NURSERY PRODUCTS, BY
COMMODITY: 1994**

[Shown for commodities with value of sales over \$650,000 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	885	7,338
Birds of Paradise	28	1,000 dozens	108	702
Proteas	20	1,000 stems	2,042	858
Orchids:				
Sprays: Dendrobium	49	1,000 dozens	402	3,017
Potted: Dendrobiums	50	1,000 pots	667	3,922
Lei or individual flowers:				
Vanda, Miss Joaquim	16	Million blooms	24.9	692
Dendrobiums	30	Million blooms	24.6	752
Foliage:				
Potted, primarily for--				
Indoor or patio use	77	...	(NA)	12,934
Landscape use	66	...	(NA)	3,982
Unfinished stock	24	...	(NA)	708
Potted flowering plants:				
Poinsettias	29	1,000 pots	231	961
Ornamentals and trees	43	...	(NA)	3,868
Plant rentals	42	...	(NA)	3,860

NA Not available.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (June 13, 1995), pp. 3-7.

**Table 19.19-- MARKET SUPPLY OF SPECIFIED FOODS:
1985, 1994, AND 1995**

Commodity and year	Market supply 1/				
	Total	Inshipment	From Hawaii	Per person 2/	From Hawaii, percent of total
Fresh market fruits:					
1985	94,513	68,083	26,430	83.1	28.0
1994	186,564	103,586	83,058	145.6	44.5
1995	201,351	102,551	98,800	156.6	49.1
Fresh market vegetables:					
1985	201,122	121,602	79,520	176.8	39.5
1994	227,890	161,935	65,955	177.8	28.9
1995	222,307	154,557	67,750	172.9	30.5
Beef and veal: 3/					
1985	105,084	71,156	4/ 33,928	92.4	32.3
1994	115,580	106,284	4/ 9,296	90.2	8.0
1995	115,844	107,949	4/ 7,895	90.1	6.8
Pork: 3/					
1985	37,927	30,068	7,859	33.3	20.7
1994	43,546	37,691	5,855	34.0	13.4
1995	43,493	37,254	6,239	33.8	14.3
Eggs, shell:					
1985	22,217	3,842	18,375	19.5	82.7
1994	20,527	4,210	16,317	16.0	79.5
1995	19,844	4,344	15,500	15.4	78.1

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population estimates: 1,137,800 for 1985, 1,281,675 for 1994, and 1,285,856 for 1995.

3/ Carcass weight equivalent.

4/ Excludes slaughter cattle and calves shipped out-of-state.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.20-- 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 19.21-- EMPLOYMENT IN AGRICULTURE: 1900 TO 1995

[Data for 1940 and later years include forestry and fisheries]

Year	Number	Percent of total	Year	Number	Percent of total
1900	55,931	62.0	1960	15,981	7.6
1910	54,742	54.1	1970	13,161	4.6
1920	54,803	49.0	1980	14,560	3.5
1930	61,811	40.1	1990	16,509	3.1
1940	54,629	35.5	1995	11,150	2.0
1950	31,806	19.0			

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (1977), pp. 122-124; present volume, tables 12.06, 12.10 and 12.12.

**Table 19.22-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1986 TO 1996**

[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
1986	250,954	1990	317,337	1994	467,174
1987	274,202	1991	301,884	1995	457,538
1988	298,261	1992	408,662	1996	479,009
1989	326,400	1993	474,861		

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release, as revised 3/25/97).

**Table 19.23-- AGRICULTURAL CHEMICALS USED, INCLUDING
FERTILIZER: 1982 TO 1992**

Chemicals used		1982	1987	1992
Any chemicals, fertilizer, or lime used 1/	farms	3,532	4,105	4,476
Commercial fertilizer 2/	farms	3,158	3,524	4,028
	acres on which used	228,984	225,457	200,723
	\$1,000	33,477	30,717	30,574
Agricultural chemicals 2/	farms	3,084	3,881	3,853
	\$1,000	16,417	18,233	20,396
Sprays, dusts, granules, fumigants, etc., to control --				
Insects on hay and other crops	farms	1,702	2,008	1,790
	acres on which used	45,671	68,150	53,593
Nematodes in crops	farms	654	663	489
	acres on which used	9,638	15,792	15,587
Diseases in crops and orchards	farms	1,067	1,151	1,018
	acres on which used	18,085	(D)	21,036
Weeds, grass, or brush in crops and pasture	farms	2,385	2,887	2,820
	acres on which used	213,551	235,871	178,422
Chemicals used for defoliation or for growth control of crops or thinning of fruit	farms	165	212	157
	acres on which used	50,455	57,481	40,292

D Withheld to avoid disclosing data for individual farms.

1/ Data for 1987 and 1982 include farms on which lime was applied alone or together with fertilizer and/or chemicals.

2/ Data for 1982 exclude cost of custom applications.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, AC92-A-11 (October 1994), table 15, p. 21.

Table 19.24-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 1995

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

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

**Table 19.25-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION,
AND VALUE, BY COUNTIES: 1994 AND 1995**

Subject	State total	Hawaii	Maui	Honolulu	Kauai
1994					
Number of operations	105	34	18	42	11
Acreage (Dec. 31)	605	150	30	400	25
Production (1,000 lb.)	990.1	630.3	60.1	288.9	10.8
Shellfish	140.4	4.0	46.0	88.6	1.8
Finfish	175.3	98.4	14.1	53.8	9.0
Algae	674.4	527.9	(NA)	146.5	-
Other 1/	(NA)	(NA)	(NA)	(NA)	(NA)
Value (\$1,000)	9,036.3	6,865.5	328.1	1,794.2	48.5
Shellfish	2,974.8	2,092.4	272.0	596.9	13.5
Finfish	942.2	489.3	56.1	361.8	35.0
Algae	4,606.0	4,280.0	(NA)	326.0	-
Other 1/	513.3	3.8	(NA)	509.5	(NA)
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)

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: 1996*, Sections 24 and 25.

**Table 20.01-- FOREST AND NATURAL AREA ACREAGE, BY ISLANDS:
JUNE 30, 1995**

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
State total	622,339	328,742	108	46,191	21	122,703
Hawaii	422,355	106,745	13	17,138	9	86,135
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	27,728	88,817	63	7,162	3	1,770
Kauai	82,999	73,850	7	6,249	3	14,725
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, 1982 TO 1992, AND BY COUNTIES, 1992

[Acres]

Use	1982	1987	1992				
			State total	Hawaii	Maui	Honolulu	Kauai
Total	117,270	99,135	109,391	79,319	(D)	1,094	(D)
Pastured	36,550	27,517	40,909	22,606	(D)	474	(D)
Not pastured	80,720	71,618	68,482	56,713	10,047	620	1,102

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Hawaii*, AC92-A-11 (October 1994), pp. 17 and 156.

**Table 20.03-- FOREST AND BRUSHLAND FIRES, BY COUNTIES:
1993 TO 1995**

[Years ended June 30]

County	Number of fires			Acres burned		
	1993	1994	1995	1993	1994	1995
State total	118	108	198	4,287	5,085	23,946
Hawaii	64	59	86	2,148	3,533	21,635
Maui	15	5	44	225	448	2,019
Honolulu	36	40	67	1,911	1,103	292
Kauai	3	4	1	4	1	0

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 20.04-- COMMERCIAL FISHING: 1989 TO 1994

[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

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: 1994

[Year ended June 30, 1994]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	24,028,693	23,310,535	57,999,092
Sea catch, all species	24,000,859	23,283,573	57,938,896
Tunas	11,212,282	10,961,670	26,899,020
Aku (Skipjack)	2,747,983	2,658,781	3,231,826
Ahipalaha	864,047	858,860	956,804
Bigeye (ahi)	3,812,120	3,767,931	14,015,363
Yellowfin (ahi)	3,740,866	3,634,939	8,367,726
Billfishes	8,879,709	8,685,390	22,505,032
Blue marlin	1,360,439	1,244,961	1,187,379
Striped marlin	1,025,953	989,083	1,279,280
Swordfish	6,302,444	6,270,797	19,839,121
Miscellaneous pelagic species	1,584,197	1,480,540	3,009,591
Mahimahi	702,053	639,122	1,491,610
Ono	370,484	338,850	954,208
Opah	407,702	402,792	407,402
Deep bottom fishes	802,684	766,295	2,794,075
Opakapaka	349,597	339,507	1,324,801
Uku	117,117	114,815	359,441
Ulaula	111,116	107,859	595,077
Akule/opelu	821,980	786,328	1,384,781
Akule	484,450	466,894	813,516
Opelu	314,633	297,204	525,582
Jacks	127,262	116,382	204,581
Inshore fishes	288,890	268,079	542,233
Sharks	145,558	100,034	100,117
Lobsters	1,472	867	5,683
Crabs	49,015	45,370	175,773
Shrimps	43,415	38,488	197,533
Seaweeds	7,112	6,177	34,477
Miscellaneous	37,283	27,953	86,000
Pond landings, all species	27,834	26,962	60,196

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1993-1994*.

Table 20.06-- COMMERCIAL SEA LANDINGS, BY ISLANDS: 1993 AND 1994

[Years ended June 30]

Island	Pounds landed	Pounds sold	Value (dollars)
1993			
State total	25,185,107	24,538,772	61,007,332
Hawaii	3,769,233	3,617,773	6,222,003
Maui	436,987	343,371	897,947
Lanai	27,282	23,828	57,488
Molokai	52,820	42,299	95,025
Oahu	20,378,185	20,069,661	52,726,368
Kauai and Niihau	520,600	441,840	1,008,501
1994			
State total	24,000,859	23,283,573	57,938,896
Hawaii	3,692,005	3,492,782	6,348,052
Maui	551,010	427,490	1,025,214
Lanai	18,387	13,892	33,949
Molokai	51,917	42,467	110,982
Oahu	19,002,745	18,723,718	48,979,936
Kauai and Niihau	684,795	583,224	1,440,763

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1992-1993 and 1993-1994*, as revised.

**Table 20.07-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD:
1993 AND 1994**

[Years ended June 30]

Fishing method	Pounds landed	Pounds sold	Value (dollars)
1993			
All methods	25,185,107	24,538,772	61,007,332
Aku pole and line	1,453,461	1,443,408	2,119,505
Longline	16,650,591	16,566,096	44,734,833
Handline	3,412,024	3,328,110	7,032,187
Trolling	2,328,895	1,979,477	3,687,012
Net	1,001,168	930,289	1,360,824
Trap	227,500	203,551	1,831,157
All other methods	111,468	87,841	241,814
1994			
All methods	24,000,859	23,283,573	57,938,896
Aku pole and line	2,386,748	2,380,001	2,765,011
Longline	14,346,651	14,211,286	41,120,838
Handline	3,511,625	3,407,069	7,842,661
Trolling	2,861,204	2,436,350	4,525,508
Net	687,836	665,729	1,079,846
Trap	79,027	73,884	298,262
All other methods	127,768	109,272	306,770

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1992-1993 and 1993-1994*, as revised.

**Table 20.08-- FISH POPULATIONS AROUND SELECTED SHORELINE
AREAS: YEAR ENDED JUNE 30, 1995**

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu:			
Inshore	54	5,423	5,056
Offshore	79	1,577	243
Pupukea, Oahu	84	1,832	144
Waikiki, Oahu	39	1,586	271
Molokini Shoal, Maui	105	2,683	319
Honolua Bay, Maui	56	1,767	510
Manele-Hulopoe Bays, Lanai	93	4,085	477
Lapakahi, Hawaii	62	935	103
Kealakekua Bay, Hawaii	55	1,518	238
Wailea Bay, Hawaii	62	918	94
Old Kona Airport, Hawaii	44	1,718	404
Artificial reefs:			
Maunalua Bay, Oahu (tire modules)	48	1,888	394
Waianae, Oahu (tire modules)	(NA)	(NA)	294
Keawakapu, Maui	38	2,890	385
Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	62	2,353	318
Red Hill, Hawaii	45	3,157	131
Pupawai, Hawaii	55	4,834	343
Other areas:			
Honaunau Bay	47	1,628	154

NA Not available.

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, 1994 to June 30, 1995.*

Table 20.09-- MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED LOCATIONS: YEAR ENDED JUNE 30, 1995

[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	1,149	6	214
Pualu (<i>Acanthurus xanthopterus</i>)	2	745	1	1,873
Saddle-back wrasse (<i>Thalassoma duperrey</i>)	3	607	9	87
Awa awa (<i>Elops hawaiiensis</i>)	(1/)	(NA)	2	1,317
Clown tang	8	211	3	276
Waikiki MLCD:				
Ohua/green wrasse	1	290	(1/)	(NA)
Manini (<i>Acanthurus triostegus</i>)	2	227	3	18
Saddle-back wrasse (<i>Thalassoma duperrey</i>)	3	218	4	17
Maiii/lavender tang	4	209	1	65
Kala	(1/)	(NA)	2	65
Kealakekua Bay MLCD:				
Eleele	1	323	1	103
Chocolate dip damsel	2	312	6	9
Kole (<i>Ctenochaetus strigosus</i>)	3	237	4	17
Red weke	6	47	2	18
Yellow tang (<i>Zebrasoma flarescens</i>)	4	178	3	17

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, 1994 to June 30, 1995.*

Table 20.10 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 20.11-- NONFUEL MINERAL PRODUCTION: 1993 TO 1995

[Estimated production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Minerals	1993 1/	1994 1/	1995 2/
QUANTITY (1,000 METRIC TONS)			
Cement:			
Masonry	7.26	6.00	4.44
Portland	451	404	215
Sand and gravel (construction)	(W)	521	600
Stone (crushed) 3/	8,460	8,170	8,500
VALUE (\$1,000)			
Total 3/	139,000	116,000	106,000
Cement:			
Masonry	880	395	316
Portland	48,300	28,300	15,100
Sand and gravel (construction)	(W)	4,740	5,700
Stone (crushed) 3/	81,400	82,300	85,000
Other industrial minerals	8,140	(W)	(W)

W Withheld to avoid disclosing company proprietary data.

1/ Revised.

2/ Preliminary.

3/ Excludes certain stones, to avoid disclosing data for individual firms.

Source: U.S. Geological Survey, Bureau of Mines, *Mineral Industry Surveys, Hawaii* (1996).

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 Housing Authority, Hawaii State Department of Business, Economic Development & Tourism, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four county building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in the Bank of Hawaii's *Construction in Hawaii*, issued annually. 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: 1996*.

**Table 21.01-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES:
1986 TO 1996**

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1986	21,461	14,237	2,717	1,486	3,021
1987	23,929	16,197	3,175	1,595	2,962
1988	24,032	14,956	3,597	1,904	3,575
1989	23,320	15,284	3,560	2,129	2,347
1990	27,689	17,123	4,720	2,312	3,534
1991	25,603	15,951	4,801	1,612	3,239
1992	25,329	16,944	4,222	1,143	3,020
1993	24,842	17,277	4,145	1,385	2,035
1994	1/ 24,699	16,886	4,302	1,701	1/ 1,810
1995	(NA)	18,220	(NA)	(NA)	(NA)
1996	(NA)	16,053	(NA)	(NA)	(NA)
ESTIMATED VALUE (\$1,000)					
1986	1,161,489	674,057	231,997	101,315	154,120
1987	1,268,927	836,328	146,035	109,574	176,990
1988	1,788,983	926,901	181,929	220,245	459,909
1989	1,996,299	1,205,519	362,220	190,907	237,653
1990	2,358,147	1,169,286	493,788	261,157	433,916
1991	2,379,164	1,627,325	402,789	149,741	199,309
1992	2,155,141	1,381,420	419,600	119,997	234,124
1993	1,806,212	1,249,882	248,236	104,917	203,177
1994	1/ 2,054,430	1,423,850	270,689	165,996	1/ 193,895
1995	(NA)	1,226,131	(NA)	(NA)	(NA)
1996	(NA)	1,062,180	(NA)	(NA)	(NA)

NA Not available.

1/ Preliminary.

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual); Hawaii, Kauai, and Maui County departments of public works, records; F.W. Dodge Division, McGraw-Hill Information Systems Co., records.

**Table 21.02-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES:
1994 TO 1996**

[In thousands of dollars]

Category	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1994 1/					
Total	1,612,899	1,073,264	181,059	164,681	193,894
Residential	849,252	530,123	96,611	116,973	105,544
Hotel	-	-	-	-	-
Non-residential	370,284	240,753	56,260	32,376	40,895
Additions and alterations	393,363	302,388	28,188	15,332	47,455
1995					
Total	1,531,317	980,703	267,108	78,918	204,588
Residential	745,520	515,331	117,897	45,790	66,503
Hotel	106,537	250	44,832	240	61,215
Non-residential	261,795	159,867	37,965	16,534	47,430
Additions and alterations	417,465	305,256	66,414	16,354	29,441
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

1/ Revised.

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: 1991 TO 1996

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1991	1992	1993	1994	1995	1996
One-family	168,666	135,278	146,639	145,044	135,304	149,807
Two-family	173,586	152,278	143,210	152,011	140,721	139,824
Multi-family	1/ 153,225	88,251	77,506	75,413	92,092	100,344

1/ Revised.

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual).

**Table 21.04-- GENERAL EXCISE TAX BASE FOR CONTRACTING:
1986 TO 1996**

[In thousands of dollars. Data are on a cash basis accounting]

Year 1/	Amount	Year 1/	Amount	Year 1/	Amount
1986	1,808,024	1990	4,003,650	1994	3,322,339
1987	2,003,056	1991	4,334,051	1995	3,133,510
1988	2,487,571	1992	4,012,688	1996	3,285,106
1989	3,112,846	1993 2/	3,803,605		

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: 1989 TO 1994**

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
New 1-family dwellings:						
1989	6,846	2,026	4,820	2,782	856	1,182
1990	5,529	1,593	3,936	2,023	845	1,068
1991	4,634	1,202	3,432	2,309	471	652
1992	4,477	1,803	2,674	1,501	425	748
1993	4,586	1,913	2,673	1,539	474	660
1994	4,419	2,439	1,980	858	433	689
New duplex units:						
1989	219	124	95	63	12	20
1990	260	136	124	50	14	60
1991	147	48	99	44	12	43
1992	168	96	72	22	30	20
1993	136	62	74	26	4	44
1994	141	80	61	16	15	30
New apartments:						
1989	2,618	1,852	766	59	5	702
1990	2,862	1,210	1,652	580	324	748
1991	5,031	3,473	1,558	565	6	987
1992	3,090	2,356	734	449	125	160
1993	2,576	2,146	430	152	110	168
1994	2,907	2,206	701	76	223	402
Units demolished: 2/						
1989	864	690	174	96	4	74
1990	1,073	944	129	54	22	53
1991	875	779	96	39	6	51
1992	728	598	130	55	11	64
1993	631	547	84	51	33	(NA)
1994	643	553	90	67	23	(NA)

NA Not available.

1/ Preliminary data for 1994.

2/ Excludes 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: 1986 TO 1996

[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/
1986	79.3	79.0	79.8	78.4	78.4	78.3
1987	82.1	82.0	82.2	81.0	81.3	80.5
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 2/	122.5	124.6	120.1	116.2	111.0	120.9

1/ Wages and benefits.

2/ June data.

Source: First Hawaiian Bank, Research Department, records.

**Table 21.09-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF
HAWAII: 1990 TO 1994**

Subject	Calendar years			Fiscal years ended June 30	
	1990	1991 1/	1992	1993	1994
Projects	201	200	204	238	235
Individual units	4,301	3,759	2,107	2,439	3,171

1/ Revised from *Data Book 1993-1994*, table 21.9.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Commission, records.

**Table 21.10-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO
CONDOMINIUM UNITS: 1963 TO 1994**

Subject	Calendar years				Fiscal years ended June 30	
	1963- 1989	1990	1991 1/	1992	1993	1994
Projects	460	80	77	107	118	131
Housing units	12,892	545	183	770	759	594

1/ Revised from *Data Book 1993-1994*, table 21.10.

Source: 1963-1980 compiled by Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission; 1981 and later years from Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Commission, records.

Table 21.11-- TIME-SHARE PROPERTIES AND UNITS, BY ISLANDS: MAY 1996

Subject	State total	Hawaii	Kauai	Maui	Molokai	Oahu
Properties	51	8	14	20	1	8
Units	2,947	465	1,185	645	7	645

Source: Hawaii Visitors Bureau, *1996 Visitor Plant Inventory*, pp. 52-53.

**Table 21.12-- 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 21.13--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 21.14-- 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 21.15-- OWNER-OCCUPIED HOUSING UNITS, BY COUNTIES:
1990 TO 1995**

[As of January 1. Based on number of taxpayers claiming home exemptions]

Tenure and county	1990 1/	1991	1992	1993	1994	1995
TOTAL OWNER OCCUPIED						
State total	167,567	168,761	171,230	172,540	176,835	180,990
Honolulu	122,802	122,555	123,082	123,212	125,529	127,496
Maui	14,951	15,398	15,970	16,432	17,191	17,960
Hawaii	21,752	22,388	23,336	23,800	24,768	25,783
Kauai	8,062	8,420	8,842	9,096	9,347	9,751
FEE SIMPLE						
State total	138,520	141,846	146,631	152,147	159,527	166,953
Honolulu	96,304	98,271	101,036	104,570	109,915	115,217
Maui	14,036	14,429	14,971	15,725	16,472	17,242
Hawaii	20,475	21,101	22,169	23,155	24,121	25,131
Kauai	7,705	8,045	8,455	8,697	9,019	9,363
LEASEHOLD						
State total	29,047	26,915	24,599	20,393	17,308	14,037
Honolulu	26,498	24,284	22,046	18,642	15,614	12,279
Maui	915	969	999	707	719	718
Hawaii	1,277	1,287	1,167	645	647	652
Kauai	357	375	387	399	328	388

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 21.16-- 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 21.17-- 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 21.17-- 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 21.18-- 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 21.19-- 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 21.20-- VACANCY AND HOMEOWNERSHIP RATES, FOR THE STATE
AND HONOLULU MSA: 1986 TO 1994**

[The Honolulu Metropolitan Statistical Area consists of the City and County of Honolulu]

Year	Rental vacancy rate		Homeowner vacancy rate		Homeownership rate	
	State total	Honolulu MSA	State total	Honolulu MSA	State total	Honolulu MSA
1986	5.7	5.0	0.8	0.9	50.9	50.0
1987	6.5	5.5	1.1	1.1	50.7	50.3
1988	6.3	4.1	0.4	0.5	53.2	52.2
1989	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	6.8	3.9	3.1	1.3	52.8	51.9
1994	7.4	6.9	2.0	1.9	52.3	58.0
Standard error	0.8	0.9	0.3	0.3	1.0	1.2
U.S. 1994	7.3	1/ 7.3	1.5	1/ 1.5	64.0	1/ 61.7

1/ Rate for all U.S. metropolitan statistical areas.

Source: U.S. Bureau of the Census, "Housing Vacancies and Homeownership Annual Statistics: 1994," *Current Housing Reports*, Series H111/94-A (May 1995), pp. 16-19, 40, 41, B-6, and B-7.

**Table 21.21-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN,
CHANGING RESIDENCE IN PAST YEAR: 1982 TO 1992**

[Excludes persons in institutions or barracks, in Kalawao, or on Niihau]

Year surveyed	Movers		Percent moving 1/	
	Total	Civilians 2/	Total	Civilians 2/
Persons 1 year old and over:				
1982	147,684	115,685	15.8	13.8
1983	135,496	96,824	14.1	11.4
1984 3/	140,509	101,730	14.4	11.6
1985	133,466	101,840	13.6	11.5
1986	130,796	99,990	13.1	11.1
1987	173,495	139,728	17.0	15.1
1988	172,243	136,325	16.4	14.5
1989	156,224	118,410	14.8	12.7
1990	165,552	118,802	15.5	12.7
1991	174,880	120,190	16.0	12.5
1992	170,680	123,313	15.3	12.5
Household heads:				
1982	51,817	39,870	17.2	14.7
1983	45,692	32,155	14.7	11.7
1984 3/	45,798	34,637	15.3	12.8
1985	42,923	31,778	14.4	11.8
1986	42,552	31,949	13.7	11.4
1987	53,748	42,753	17.0	14.9
1988	51,708	38,901	16.6	14.1
1989	50,243	37,147	15.0	12.6
1990	52,624	36,232	15.2	12.0
1991	56,302	38,307	15.6	12.0
1992	53,803	37,941	14.8	11.8

1/ Based on number reporting place of residence one year earlier.

2/ Based on military status when surveyed. Excludes members of the armed forces and their dependents.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

**Table 21.22-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS:
1991 AND 1992**

[Based on place of residence one year prior to survey date. Expanded from a sample. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

Military status and residence of household head 1/	All household heads	Nonmovers	Movers		Mobility not reported
			Number	Percent 2/	
1991					
State total	363,163	304,928	56,302	15.6	1,933
Military or dependent	42,871	24,469	17,995	42.4	407
Military	41,916	23,620	17,889	43.1	407
Military dependent	955	849	106	11.1	-
Civilian	320,292	280,459	38,307	12.0	1,526
1992					
State total	364,519	309,671	53,803	14.8	1,045
Military or dependent	41,727	25,646	15,862	38.2	219
Military	41,015	25,326	15,470	37.9	219
Military dependent	712	320	392	55.1	-
Civilian	322,792	284,025	37,941	11.8	826

1/ Military status of household head when surveyed.

2/ Based on number reporting.

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

**Table 21.23-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE
SPACE FOR HONOLULU, BY LOCATION: 1993 TO 1995**

[Rates are percent of space reported vacant in survey]

Location	May 1993	Oct. 1993	May 1994	Oct. 1994	May 1995 1/
Downtown	12.8	14.5	15.9	13.7	16.1
Downtown to Waikiki	7.6	5.4	5.7	6.7	7.0
Waikiki	15.4	19.0	28.3	29.1	18.3
Other	6.6	10.5	11.9	11.0	10.3

1/ Preliminary.

Source: Semi-annual survey by Hastings, Martin, Conboy, Braig & Associates, Ltd.

Table 21.24-- HAWAII HOUSING AUTHORITY OPERATIONS: 1992 TO 1994

Subject	1992	1993	1994
Total units owned by HHA, June 30	6,069	6,069	1/ 6,254
Occupied	6,040	5,783	5,712
Population in units, June 30	17,295	16,845	16,332
Per occupied unit	2.86	2.91	2.86
Total assets, June 30 (million dollars)	215	277	266
Operating revenues of HHA, fiscal year: 2/			
Gross (\$1,000)	17,428	17,728	18,023
Net (\$1,000)	-353	5	-144
Operating revenues per unit per month, fiscal year (dollars) 2/	278.59	283.37	285.38
Rent charged per unit per month, fiscal year (dollars) 2/	227.57	232.95	216.71

1/ Federal low-rent, 5,263; State low-rent, 568; State elderly, 423.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 21.25-- HOMELESSNESS: 1992

Characteristics	Total	Homeless	Hidden homeless 1/	At risk 2/
Households or parties 3/	127,957	2,504	17,084	108,369
Persons	445,434	5,353	96,380	343,701
Under 6 years old	48,382	426	7,723	40,233
6 to 12 years old	46,348	369	5,256	40,723
13 to 17 years old	29,973	241	5,356	24,376
18 to 59 years old	284,450	3,652	65,521	215,277
60 years and over	35,823	207	12,524	23,092
Institutionalized 4/	458	458	-	-

1/ Sharing housing with friends or relatives but would prefer to have their own places.

2/ Unable to make shelter payments if missing 1 to 3 paychecks.

3/ Parties are groups of homeless persons camping or staying together, whether or not related.

4/ Homeless persons in residential treatment programs or other non-homeless shelters. Not tabulated by age.

Source: SMS Research, *Homelessness and Hunger in Hawaii*, submitted to Homeless Aloha, June 15, 1992, p. 10.

**Table 21.26-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE
OF LICENSE AND LOCATION: FEBRUARY 9, 1995**

[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	10,259	5,463	Oahu	7,405	3,729
			Hawaii	1,142	542
Broker:			Maui	1,226	406
Individual	3,703	715	Kauai	452	248
Corporation or partnership	1,064	62	Molokai	21	4
			Lanai	5	2
Salesman	5,492	4,686	U.S. mainland	4	485
			Foreign	4	47

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

**Table 21.27-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR
OAHU: 1986 TO 1996**

[Data include single family, condominium/cooperative, vacant, multi-family,
commercial/industrial, business opportunities]

Year	Number listed	Number sold	Percent sold	Average sales price (dollars)
1986	16,047	6,467	40.3	151,985
1987	12,887	8,855	68.7	188,200
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

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.28-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE
OF PROPERTY, FOR OAHU: 1994 TO 1996**

Year and type of property	Number listed	Number sold	Percent sold	Sales price (dollars)	
				Mean	Median
1994					
Total	12,655	5,759	45.5	297,428	...
Single family	4,299	2,175	50.6	423,371	360,000
Condominium/cooperative	7,326	3,370	46.0	210,762	190,000
Vacant land	496	128	25.8	360,855	300,000
Multi-family	159	35	22.0	706,186	590,000
Commercial	131	15	11.5	480,333	386,000
Business opportunities	244	36	14.8	102,073	60,000
1995					
Total	12,834	4,060	31.6	307,617	...
Single family	4,582	1,642	35.8	429,613	349,000
Condominium/cooperative	7,175	2,260	31.5	206,134	182,000
Vacant land	522	84	16.1	419,342	305,000
Multi-family	194	26	13.4	1,116,500	621,500
Commercial	129	16	12.4	724,875	496,500
Business opportunities	232	32	13.8	55,828	43,750
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

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.29-- MULTIPLE LISTING SERVICE UNITS SOLD, SINGLE-FAMILY
RESIDENTIAL BY SELLING PRICE RANGE, FOR OAHU: 1996**

Selling price range	Units sold
All properties	1,749
Less than \$100,000	6
\$100,000 to \$149,999	32
\$150,000 to \$199,999	88
\$200,000 to \$249,999	238
\$250,000 to \$299,999	306
\$300,000 to \$349,999	271
\$350,000 to \$399,999	233
\$400,000 to \$449,999	146
\$450,000 to \$499,999	90
\$500,000 to \$549,999	82
\$550,000 to \$599,999	50
\$600,000 to \$649,999	47
\$650,000 to \$699,999	29
\$700,000 to \$799,999	37
\$800,000 to \$899,999	25
\$900,000 to \$999,999	9
\$1.0 to \$1.9 million	50
\$2.0 to \$2.9 million	6
\$3.0 to \$3.9 million	2
\$4.0 to \$4.9 million	0
\$5.0 million or more	2
Median value	\$335,000
Mean value	\$409,441

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.30-- MULTIPLE LISTING SERVICE UNITS SOLD, CONDOMINIUM
BY SELLING PRICE RANGE, FOR OAHU: 1994 TO 1996**

Selling price range	Units sold		
	1994	1995	1996
All properties	3,370	2,260	1,990
Less than \$50,000	3	17	37
\$50,000 to \$74,999	51	54	69
\$75,000 to \$99,999	121	87	124
\$100,000 to \$124,999	235	167	182
\$125,000 to \$149,999	426	268	279
\$150,000 to \$174,999	424	406	299
\$175,000 to \$199,999	580	377	260
\$200,000 to \$224,999	469	265	185
\$225,000 to \$249,999	335	180	138
\$250,000 to \$274,999	179	114	109
\$275,000 to \$299,999	129	102	52
\$300,000 to \$399,999	253	108	140
\$400,000 to \$499,999	77	39	40
\$500,000 to \$599,999	45	33	34
\$600,000 to \$699,999	21	17	11
\$700,000 to \$799,999	11	13	19
\$800,000 to \$899,999	4	4	7
\$900,000 to \$999,999	3	2	1
\$1,000,000 or more	4	7	4
Median value	\$190,000	182,000	175,000
Mean value	\$210,762	206,134	202,494

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.31-- CHARACTERISTICS OF PRIVATE SINGLE-FAMILY AND
MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1991 TO 1996**

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					
1991	1,663	5,426	519	350,106	975	1,345	256,048
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

1/ Four stories or less.

Source: Bank of Hawaii, *Construction in Hawaii 1997* (1997), pp. 20 and 24.

Table 21.32-- MORTGAGES AND AGREEMENTS OF SALE: 1991 TO 1996

Year	Mortgages recorded			Agreements of sale (\$1,000)
	Number	Total value (\$1,000)	Average value (dollars)	
1991	50,437	11,374,604	225,521	183,528
1992	65,248	12,319,317	188,808	286,428
1993	69,111	12,632,003	182,778	180,863
1994	51,076	9,005,637	176,318	144,718
1995	33,624	6,179,943	183,796	115,644
1996	34,233	6,329,846	184,905	128,783

Source: Data from Title Guaranty of Hawaii, cited in the Bank of Hawaii, *Construction in Hawaii 1997* (1997), p. 35.

Table 21.33-- MORTGAGE LOANS OUTSTANDING: 1971 TO 1995

[In millions of dollars. As of December 31. Mortgage holdings of insurance companies doing business in Hawaii are included; mortgage holdings of credit unions are excluded]

Year	Amount	Year	Amount	Year	Amount
1971	2,093.0	1980	7,131.4	1989	6,665.0
1972	2,424.2	1981	7,498.0	1990	7,782.9
1973	2,797.3	1982	7,730.2	1991	8,645.3
1974	3,210.2	1983	7,553.9	1992	8,657.3
1975	3,564.9	1984	7,575.2	1993	9,532.9
1976	3,959.5	1985	6,291.3	1994	9,921.9
1977	4,496.0	1986	4,714.6	1995 1/	9,697.0
1978	5,320.8	1987	5,750.3		
1979	6,323.2	1988	5,917.3		

1/ Excludes insurance and trust company loans.

Source: Bank of Hawaii, *Construction in Hawaii 1996* (1996), p. 27, as corrected.

**Table 21.34-- NUMBER OF DEEDS FILED AND RECORDED AND
APPROXIMATE VALUE OF LAND CONVEYED: 1992 TO 1996**

[Years ended June 30. Data include leases, agreement of sales assignments, subleases,
timeshares, etc., as well as deeds]

Subject	1992	1993	1994	1995	1996
Number of deeds filed and recorded	68,075	68,871	69,305	61,821	61,087
Approximate value of land conveyed (\$1,000)	8,020,905	7,521,374	15,812,168	6,486,476	6,184,142

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.35-- APPROXIMATE VALUE OF LAND TRANSFERS, BY
COUNTIES: 1993 TO 1995**

[In dollars. For calendar years. Totals include leases, agreement of sales assignments,
subleases, etc., as well as deeds]

County	1993	1994	1995
State total	12,270,675,800	10,701,397,500	6,424,925,450
Honolulu	8,621,057,700	7,461,624,300	4,465,410,200
Maui	1,753,255,200	1,441,527,900	847,727,000
Hawaii	1,345,224,700	1,120,254,000	849,798,700
Kauai	551,138,200	677,991,300	261,989,550

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.36-- FORECLOSURE FILINGS, BY JUDICIAL CIRCUIT:
1990 TO 1995**

Year	State total	First Circuit 1/	Second Circuit 2/	Third Circuit 3/	Fifth Circuit 4/
1990	680	452	99	78	51
1991	815	522	120	110	63
1992	1,068	671	175	174	48
1993	1,436	950	204	216	66
1994	1,578	1,022	240	222	94
1995, Jan.-June	953	586	150	146	71

1/ Oahu and Kalawao County.

2/ Maui County.

3/ Hawaii County.

4/ Kauai County.

Source: The Judiciary, Office of the Administrative Director of the Courts, Statistics Office, records.

**Table 21.37-- CHARACTERISTICS OF SINGLE FAMILY HOMES INSURED
UNDER FHA SECTION 203(B): 1992 AND 1993**

Subject	1992	1993
Number insured	(NA)	826
Proposed	(NA)	507
Existing	(NA)	319
Amount (\$1,000)	(NA)	111,801
Proposed	(NA)	65,043
Existing	(NA)	46,758
Averages:		
Age of structure (years)	12.7	12.4
Improved living area (square feet)	1,175	1,261
Lot size (square feet)	6,832	4,469
Number of rooms	5.6	5.9
Market price of site (dollars)	*84,967	(B)
Site to value ratio (percent)	(B)	(B)
Site price per square foot (dollars)	(B)	(B)
Construction cost per square foot (dollars)	(B)	(B)
Appraised value (dollars)	174,017	178,325
Sales price per square foot (dollars)	108.18	69.01
Annual effective income (dollars)	49,812	48,370

* Sample under 25.

B Sample under 10.

NA Not available.

Source: U.S. Department of Housing and Urban Development, Information Systems Division, *FHA Homes - 1992, Sec. 203(b)*, pp. 31-51, and *FHA Homes - 1993, Sec. 203(b)*, pp. 31-51.

**Table 21.38-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES:
DECEMBER 31, 1994**

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	5,358	4,306	135	202	499	2	22	192
Elevators	4,564	3,624	108	189	445	-	20	178
Under 9 stories:								
Hydro	1,249	825	50	84	170	-	9	111
Roped	1,524	1,099	48	105	209	-	11	52
9 to 18 stories	1,103	1,012	10	-	66	-	-	15
19 to 28 stories	389	389	-	-	-	-	-	-
29 to 38 stories	213	213	-	-	-	-	-	-
39 stories or more	86	86	-	-	-	-	-	-
Escalators and moving walks	356	335	6	-	13	-	-	2
Inclined lifts	9	4	3	1	1	-	-	-
Private industrial elevators	11	1	-	3	7	-	-	-
Manlifts	12	10	-	2	-	-	-	-
Handicap chair lifts	75	59	1	5	4	-	-	6
Dumbwaiters	329	273	17	1	28	2	2	6
Material lifts	2	-	-	1	1	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 21.39-- TALLEST STRUCTURES, BY ISLANDS: MARCH 1997

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	1991	45	400
Waterfront Towers	425 South Street	1990	46	400
Kauai: Westin Kauai Hotel	Lihue	1959	10	107
OTHER STRUCTURES				
Hawaii: Coast Guard Loran Station	Upolu Point	1958	...	625
Maui: KMVI Radio Tower	Wailuku	1947	...	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.

Source: Compiled by DBEDT from Hawaii County Department of Research and Development, Maui County Department of Public Works, City and County of Honolulu Building Department, 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: 1996*.

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1995**

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 2/ (million dollars)	261.1	326.2	410.0	785.5	1,119.6	1,405.3
Cost of materials 3/ (million dollars)	(NA)	399.6	548.3	1,176.1	2,357.5	2,048.8
Value of shipments 3/ (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 1995 -- Con.**

Subject	1990	1991	1992	1993	1994	1995
All establishments: 1/						
Total	(NA)	(NA)	1,020	(NA)	(NA)	(NA)
With 20 employees or more	(NA)	(NA)	225	(NA)	(NA)	(NA)
All employees:						
Number (1,000)	20.7	19.3	20.6	20.7	17.8	17.3
Payroll (million dollars)	476.7	466.1	547.4	711.7	505.4	509.2
Production workers:						
Number (1,000)	13.2	11.5	12.9	12.4	11.0	10.7
Hours (millions)	26.1	22.9	26.0	25.4	21.5	21.6
Wages (million dollars)	263.1	248.6	290.1	307.0	266.9	260.8
Value added by manufacture 2/ (million dollars)	1,557.5	1,383.3	1,556.5	2,192.8	1,527.4	1,488.5
Cost of materials 3/ (million dollars)	2,680.5	2,368.8	2,228.2	2,316.4	1,799.3	1,911.2
Value of shipments 3/ (million dollars)	4,202.9	3,805.3	3,791.7	4,510.1	3,336.8	3,440.4
New capital expenditures (million dollars)	126.9	64.1	107.1	174.6	202.8	117.7

NA Not available.

1/ Establishments with payroll at any time during year.

2/ Data for 1982 and later years not directly comparable to data for earlier years; see source for discussion.

3/ 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.

**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: 1994

[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)	6.6	1.2	2.8	2.2	3.3	1.2
Payroll (million dollars)	165.6	20.5	66.8	34.1	108.6	49.6
Production workers:						
Number (1,000)	4.3	0.9	1.9	1.7	1.7	0.8
Hours (million)	8.3	1.6	3.7	3.0	3.5	1.6
Wages (million dollars)	98.8	17.0	44.2	21.0	51.0	31.3
Value added by manufacture (million dollars)	478.3	50.8	148.1	81.0	282.4	101.8
Cost of materials (million dollars)	443.4	66.3	32.0	47.9	89.4	111.2
Value of shipments (million dollars)	952.6	117.1	210.6	128.2	371.6	209.4
New capital expenditures (million dollars)	93.1	2.7	53.6	4.6	27.2	(D)
End-of-year inventories (million dollars)	49.2	51.5	56.3	25.3	26.0	23.5

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1994 Annual Survey of Manufactures, Geographic Area Statistics*, M94 (AS)-3, July 1996, 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: 1991 TO 1994

[Millions of dollars]

Category	1991	1992	1993	1994
Total manufacturing	2,402.6	2,263.0	2,106.6	2,026.1
Sugar processing	302.0	280.5	292.9	290.2
Pineapple canning	172.7	141.8	86.6	81.1
Petroleum	1,214.8	1,144.4	1,007.3	1,044.8
Diversified manufacturing	713.2	696.4	719.7	610.0

Source: Bank of Hawaii, *Hawaii's Economy, April 1996* (1996), p. 43.

**Table 22.06-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:
1986 TO 1996**

[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
1986	568,532	1990	728,387	1994	618,238
1987	595,140	1991	714,407	1995	614,771
1988	629,303	1992	714,470	1996	622,889
1989	630,997	1993	717,423		

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.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release, as revised 3/25/97).

**Table 22.07-- INDUSTRIAL AND TECHNOLOGY PARKS AND AREAS,
BY ISLANDS: 1990**

[Includes existing industrial areas, industrial parks and subdivisions, and technology parks and centers]

Subject	State total	Hawaii	Maui	Oahu	Kauai
Number of parks and areas	40	10	5	22	3
Acres	7,591	2,066	626	4,847	52

Source: Hawaii State Department of Business, Economic Development & Tourism, *State of Hawaii Directory of Industrial and Technology Parks 1991* (1990).

**Table 22.08-- PINEAPPLE COMPANIES AND CANNERIES AND
SUGAR COMPANIES AND MILLS: 1940 TO 1994**

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
ISLANDS: 1994				
Hawaii	-	-	1	1
Maui	1	1	2	3
Oahu	2	-	2	2
Kauai	-	-	4	4

1/ In operation; excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, *Hawaiian Sugar Manual* (annual); Hawaii State Department of Agriculture, records; Dole Food Company, records.

Table 22.09-- SUGAR AND MOLASSES PRODUCTION: 1984 TO 1994

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	
1984	188,396	89,541	8,453,721	1,061,814	992,371	314,202
1985	187,858	83,029	7,916,459	1,012,249	946,048	271,645
1986	184,181	83,583	8,379,463	1,042,452	974,276	290,422
1987	180,966	79,498	8,012,899	979,209	915,169	283,250
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	125,837	64,705	5,506,702	677,405	633,103	211,412
1994	121,140	64,328	5,268,859	658,538	615,470	203,400

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 1995*, pp. 6-7.

**Table 22.10-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY
EMPLOYMENT AND EARNINGS: 1973 TO 1993**

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days	Cash wages	Employee benefits
1973	10.30	7,900	1,897,369	30.86	12.48
1974	29.43	7,700	1,744,346	34.41	15.81
1975	22.49	7,800	1,937,973	37.34	15.66
1976	13.31	7,500	1,854,272	43.12	17.28
1977	11.11	7,200	1,660,298	43.92	19.97
1978	13.74	7,200	1,771,530	47.06	21.28
1979	15.20	7,065	1,762,838	50.49	22.21
1980	30.18	7,076	1,793,237	56.72	24.68
1981	19.74	7,282	1,806,020	61.51	27.71
1982	19.94	6,816	1,519,732	65.11	30.83
1983	22.04	6,543	1,565,928	66.80	32.00
1984	21.74	6,319	1,467,127	68.88	34.71
1985	20.39	5,751	1,323,525	68.72	35.99
1986	20.90	5,413	1,290,067	69.28	34.24
1987	21.83	5,222	1,261,209	71.36	41.83
1988	22.12	5,110	1,204,708	72.46	34.56
1989	22.76	4,721	1,129,526	74.64	41.92
1990	23.26	4,453	1,065,794	76.42	43.07
1991	21.57	4,263	1,024,534	80.26	44.02
1992	21.30	4,101	1,003,876	84.11	46.00
1993 4/	21.62	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices. New York spot price "nearby futures" used beginning June 1985.

2/ For non-supervisory employees.

3/ Adults only.

4/ HSPA employee data no longer compiled after 1992.

Source: Hawaiian Sugar Planters' Association, *HSPA Sugar Manual* (annual), as revised and corrected.

**Table 22.11-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION:
1980 TO 1995**

[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

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.

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: 1996*, 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: 1986 TO 1996**

[In thousands of dollars. Data are on a cash basis accounting]

Year reported 1/	Retailing	Services 2/	Amusement, etc. 3/	Intermediary services	Wholesaling
1986	9,239,373	2,784,169	159,881	127,992	4,443,166
1987	9,449,673	2,896,159	157,824	148,557	5,188,215
1988	10,385,974	3,287,715	165,729	182,138	5,683,815
1989	11,607,779	3,699,003	184,154	189,018	6,595,569
1990	12,827,883	4,276,876	201,003	349,111	7,494,330
1991	13,398,382	4,888,164	209,128	451,078	7,722,752
1992	13,846,332	5,032,682	229,091	247,850	7,498,621
1993	13,976,048	5,092,654	226,443	218,173	7,646,215
1994	14,569,798	5,270,844	238,195	265,755	7,622,366
1995	15,050,113	5,351,079	233,843	264,193	7,808,103
1996	16,091,429	5,618,027	246,232	292,250	8,153,155

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.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release, as revised March 25, 1997).

**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
Mali	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 1990), 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: 1995**

SIC code	Retail trade	No. of establishments	Average employment	Total wages (\$1,000)	Average wage
	Total	7,345	114,248	1,898,468	16,617
5251	Hardware stores	57	1,037	31,679	20,910
5261	Retail nurseries and garden stores	22	147	2,565	17,488
5311	Department stores	53	11,069	177,229	16,012
5399	Misc. general merchandise stores	75	682	10,898	15,970
5411	Grocery stores	380	11,427	217,942	19,072
5421	Meat and fish markets	52	349	5,552	15,924
2441	Candy, nut, and confectionery stores	39	327	3,308	10,127
5461	Retail bakeries	125	1,205	16,283	13,511
5499	Misc. food stores	74	628	8,285	13,187
5511	New and used car dealers	84	3,784	133,903	35,387
5521	Used car dealers	20	128	3,896	30,415
5531	Auto and home supply stores	178	1,599	38,182	23,874
5541	Gasoline service stations	294	3,353	52,757	15,735
5571	Motorcycle dealers	18	171	4,122	24,154
5611	Men's and boys' clothing stores	71	961	13,020	13,543
5621	Women's clothing stores	258	2,293	35,684	15,565
5632	Women's accessory and specialty stores	91	773	17,528	22,682
5641	Children's and infants' wear stores	30	209	2,127	10,177
5651	Family clothing stores	162	2,167	33,780	15,588
5661	Shoe stores	113	1,309	25,219	19,261
5699	Misc. apparel and accessory stores	183	1,274	20,199	15,852
5712	Furniture stores	96	740	20,451	27,627
5713	Floor covering stores	33	264	7,199	27,295
5714	Drapery and upholstery stores	12	36	807	22,373
5719	Misc. homefurnishing stores	54	371	6,003	16,166
5722	Household appliance stores	56	266	5,922	22,293
5731	Radio, TV, and electronic stores	82	601	12,157	20,234
5734	Computer and software stores	56	488	11,765	24,117
5735	Record and prerecorded tape stores	42	584	6,701	11,468
5736	Musical instrument stores	14	112	2,310	20,621
581	Eating and drinking places	2,525	46,914	602,570	12,844
5912	Drug stores and proprietary stores	171	3,706	94,021	25,370
5932	Used merchandise stores	51	223	3,280	14,724
5941	Sporting goods and bicycle shops	167	1,432	22,336	15,593
5942	Book stores	63	658	9,115	13,851
5943	Stationery stores	22	302	6,189	20,475
5944	Jewelry stores	318	2,192	51,587	23,539

Continued on next page.

**Table 23.06-- PRIVATE INDUSTRY RETAIL EMPLOYMENT AND WAGES,
ANNUAL AVERAGES: 1995 - Con.**

SIC code	Retail trade	No. of establishments	Average employment	Total wages (\$1,000)	Average wage
5945	Hobby, toy, and game shops	41	365	3,976	10,904
5946	Camera and photographic supply stores	11	62	850	13,780
5947	Gift, novelty, and souvenir shops	333	3,683	72,943	19,804
5948	Luggage and leather goods stores	30	392	10,705	27,339
5949	Sewing, needlework, and piece goods	29	220	2,712	12,302
5963	Direct selling establishments	49	242	4,009	16,599
5992	Florists	136	669	8,474	12,674
5995	Optical goods stores	47	285	5,492	19,300
5999	Misc. retail stores, not elsewhere classified	312	1,797	33,916	18,870

Source: U.S. Department of Labor, *Employment and Wages Annual Averages, 1995*.

Table 23.07-- RETAIL SALES, BY TYPE OF STORE: 1993 AND 1994

[In millions of dollars]

Kind of store	1993	1994
All stores 1/	13,244	2/ 12,685
Food stores	2,474	2,272
Supermarkets	2,263	2,114
General merchandise stores	2,203	2,142
Department stores	1,764	862
Automotive dealers	1,947	1,934
Eating and drinking places	1,966	1,817
Gasoline service stations	792	629
Building materials, hardware dealers	426	387
Apparel and accessories stores	971	1,023
Furniture, home furnishings, appliance stores	521	642

1/ Includes other types of stores, not shown separately.

2/ Sales per household were \$32,845, highest of the 50 States. The U.S. ratio was \$23,209.

Source: Market Statistics estimates cited in *Statistical Abstract of the United States: 1996*, pp. 770-771.

Table 23.08-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1995

[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	220
Kahala Mall	Honolulu	1970	26	365	1,700	80
Koko Marina S.C.	Honolulu	1963	15	278	855	76
Pearl City S.C.	Pearl City	1965	14	251	864	36
Pearl Highlands Ctr.	Pearl City	1993	15	410	1,956	13
Pearlridge Center	Aiea	1972	67	1,200	6,273	185
Waikiki Shopping Plaza	Honolulu	1977	1	380	300	60
Waikele Center	Waipahu	1994	60	720	9,100	67
Windward Mall S.C.	Kaneohe	1982	32	530	2,300	100
Hawaii:						
Keauhou Shopping Village	Kailua	1985	8	163	826	25
Makalapua Center	Kailua	1994	50	321	(NA)	(NA)
Prince Kuhio Plaza	Hilo	1985	46	505	2,891	115
Maui:						
Kaahumanu Center	Kahului	1972	32	573	1,575	64
Lahaina Center Factory Stores	Lahaina	1990	(NA)	150	(NA)	5
Maui Mall	Kahului	1971	27	190	1,300	50
Kauai:						
Kukui Grove Center	Lihue	1982	35	314	1,590	57

NA Not available.

Source: National Research Bureau, *Shopping Center Directory 1995, Western Volume*, 35th edition.

Table 23.09-- SHOPPING CENTER CHARACTERISTICS: 1990 TO 1994

Characteristic	1990	1991	1992	1993	1994
Number	148	152	153	160	165
Gross leasable area (mil. sq. ft.)	14	14	15	16	17
Retail sales (bil. dol.)	2.6	2.6	2.7	2.9	3.1

Source: *Statistical Abstract of the United States: 1996* (p. 772) 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 1994

[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	1990	413,932,037
1985	180,126,919	1991	378,587,469
1986	270,891,959	1992	421,953,644
1987	369,788,429	1993	397,322,968
1988	445,072,755	1994	413,417,555
1989	451,185,041		

Source: DFS Hawaii, records.

Table 23.12-- ALCOHOLIC BEVERAGE SALES, BY TYPE: 1992 TO 1994

Category	Wine gallons of 128 fluid ounces			Wholesale value, 1994 (dollars)
	1992	1993	1994	
All types	36,299,029	35,418,339	34,842,677	282,023,159
Distilled spirits	1,546,441	1,479,093	1,431,270	44,740,459
Sparkling wine	278,900	255,405	247,081	9,474,020
Still wine	2,212,174	2,168,233	2,301,420	45,082,336
Cooler beverage	294,924	277,787	223,325	1,793,814
Draft beer	1,631,686	1,569,064	1,552,134	5,904,429
Beer other than draft	30,334,904	29,668,757	29,087,447	175,028,101

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

Continued on next page.

**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 1996

[Number of hotel, condominium, and similar units. Statewide and Maui data for 1989-1994 are revised from *Data Book 1995*, table 23.22]

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

NA Not available.

Source: Hawaii Visitors Bureau, *1996 Visitor Plant Inventory*, p. 63.

Table 23.26-- VISITOR ACCOMMODATIONS, BY TYPE: 1986 TO 1996

[1989-1994 revised from *Data Book 1995*, table 23.22]

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

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 Bureau, *Visitor Plant Inventory*, 1986 to 1996, as corrected.

**Table 23.27-- VISITOR ACCOMMODATIONS, BY TYPE AND BY ISLANDS:
1994 AND 1996**

[As of December 1994 and May 1996]

Year and island	Properties			Units		
	Total	Hotels 1/	Condo-miniums 2/	Total	Hotels 1/	Condo-miniums 2/
1994 (revised)						
State total	692	397	295	70,463	49,436	21,027
Oahu	201	146	55	36,194	29,359	6,835
Waikiki 3/	123	76	47	31,033	24,883	6,150
Rest of Oahu	78	70	8	5,161	4,476	685
Other islands	491	251	240	34,269	20,077	14,192
Hawaii	149	93	56	9,595	7,112	2,483
Maui	205	76	129	17,921	9,359	8,562
Lanai	5	5	-	367	367	-
Molokai	9	4	5	516	249	267
Kauai	123	73	50	5,870	2,990	2,880
1996						
State total	770	472	298	70,288	49,737	20,551
Oahu	196	144	52	36,146	29,732	6,414
Waikiki 3/	119	75	44	31,388	25,613	5,775
Rest of Oahu	77	69	8	4,758	4,119	639
Other islands	574	328	246	34,142	20,005	14,137
Hawaii	165	110	55	9,558	7,170	2,388
Maui	223	91	132	16,973	8,541	8,432
Lanai	7	7	-	370	370	-
Molokai	11	6	5	481	251	230
Kauai	168	114	54	6,760	3,673	3,087

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/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory*, 1994 and 1996, as corrected.

Table 23.28-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA: MAY 1996

Type of accommodation	Properties			Units		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All types	770	196	574	70,288	36,146	34,142
Apartment-hotel	20	13	7	724	615	109
Bed and breakfast	118	18	100	397	44	353
Condominium	215	25	190	10,351	1,965	8,386
Condo and hotel	83	27	56	10,200	4,449	5,751
Cottage, bungalow	74	16	58	331	32	299
Hotel	156	76	80	47,464	28,683	18,781
Other 1/	104	21	83	821	358	463

1/ Hostel, lodge, etc.

Source: Hawaii Visitors Bureau, *1996 Visitor Plant Inventory*, p. 2.

**Table 23.29-- HOTELS AND MOTELS (SIC 701), BY COUNTIES:
1989 TO 1994**

County	1989	1990	1991	1992	1993	1994
State total	243	233	260	264	266	271
Hawaii	38	35	36	37	37	37
Honolulu	132	124	138	131	134	134
Kauai	27	24	33	30	29	34
Maui	46	50	53	66	66	66

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:
MAY 1996**

Island and type of accommodation	All levels	\$100 or less	\$101 to \$250	\$251 to \$500	Over \$500
Number reporting	69,073	19,941	30,967	16,932	1,233
Island:					
Oahu	35,299	11,382	17,449	6,053	415
Hawaii	9,445	2,629	3,925	2,674	217
Kauai	6,694	1,649	3,127	1,782	136
Maui	16,847	4,098	6,194	6,129	426
Molokai	422	172	246	4	-
Lanai	366	11	26	290	39
Type of accommodation:					
Apartment, apartment-hotel	502	426	76	-	-
Bed and breakfast	317	244	69	3	1
Bungalow	65	34	22	9	-
Condominium	9,555	3,853	5,029	664	9
Cottage	211	101	83	26	1
Hostel	242	242	-	-	-
Hotel	47,464	10,409	20,848	15,044	1,163
Hotel/condominium	10,200	4,301	4,704	1,142	53
Lodge	72	44	27	1	-
Other	445	287	109	43	6

Source: Hawaii Visitors Bureau, *1996 Visitor Plant Inventory*, pp. 17 and 19.

**Table 23.31-- HOTEL ROOMS, OCCUPANCY RATES, AND DAILY ROOM
AND GUEST RATES: 1986 TO 1996**

[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			
1986	66,308	39,010	27,298	81.7	73.20	1.99
1987	65,318	38,185	27,133	81.1	80.09	1.99
1988	69,012	37,841	31,171	78.5	87.94	1.99
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	76.0	128.38	2.07

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 Bureau, *1996 Visitor Plant Inventory*; PKF-Hawaii, *Trends in the Hotel Industry*, Hawaii (December issues), and records.

**Table 23.32-- HOTEL ROOM OCCUPANCY AND ROOM RATES, BY
GEOGRAPHIC AREAS: 1995**

[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	76.63	110.27	84.50
Oahu	81.45	101.37	82.56
Waikiki	81.79	102.70	84.00
Other Oahu	76.19	79.12	60.29
Hawaii	60.44	114.51	69.21
Hilo	(NA)	(NA)	(NA)
Kona	57.30	70.44	40.36
Kohala	61.43	166.04	102.00
Maui	75.30	135.01	101.66
Kaanapali	82.26	139.29	114.58
West Maui	73.60	117.45	86.44
Other	67.71	144.58	97.90
Kauai	65.23	126.67	82.62
North	66.78	174.34	116.43
Central	60.67	73.91	44.84
South	70.02	162.33	113.66
Molokai	37.47	71.85	26.92
All Neighbor Islands	68.62	127.87	87.75

NA Not available.

Source: PKF-Hawaii, *Trends in the Hotel Industry, Hawaii*, December 1995, and records.

**Table 23.33-- GENERAL EXCISE TAX BASE FOR RENTALS:
1986 TO 1996**

[In thousands of dollars. Data are on a cash basis accounting]

Year reported 1/	Total	Hotel rentals	All other rentals 2/
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

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release, as revised March 25, 1997).

**Table 23.34-- COMPUTER AND SOFTWARE STORES AND SERVICES,
1992, AND COMPUTER OWNERSHIP, 1994**

Type of establishment	Number of establishments	Sales (\$1,000)
Wholesale trade, 1992: Computers and computer peripheral equipment and software (SIC 5045)	49	177,123
Retail trade, 1992: Computer and software stores (SIC 5734)	29	43,766
Services, 1992: Computer programming, prepackaged software, and integrated systems (SIC 7371, 2, 3)	79	47,250
Data processing services (SIC 7374, 5, 6)	39	46,858
Computer rental and leasing, maintenance, and related services (SIC 7377, 8, 9)	47	18,857
Subject	Amount	
Computer ownership by persons 18 and over, 1994: Number of persons	341,204	
Percent of population 18 and over	38.4	

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), table 1. Simmons/SMS Hawaii Media & Market Study 1994, cited in *Pacific Business News*, March 20, 1995, p. 34.

Table 23.35-- MOTION PICTURE SERVICES: 1977 TO 1994

[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
1994	56	(NA)	7,800	291
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)
1994	40	(NA)	9,034	754
Video tape rental (SIC 784):				
1987	78	12,319	2,456	376
1992	78	26,909	5,252	545
1994	81	(NA)	5,633	567

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 1994, Hawaii*, CBP-94-13 (September 1996).

**Table 23.36-- MOTION PICTURE AND TELEVISION PRODUCTION:
1992 TO 1996**

Subject	1992	1993	1994	1995	1996
Number of features and programs filmed 1/	27	20	40	17	7
Feature films for theater viewing	2	3	6	1	6
TV movie of the week, television episodic, specials	5	2	3	5	1
Hawaii-based TV network series	20	15	31	11	-
Expenditures in Hawaii (million dollars)	56.8	45.0	96.5	49.0	59.7
Commercials	6.3	7.3	5.9	9.7	10.4
Hawaii-based TV series	12.9	3.9	24.2	7.8	-
Feature films	5.4	3.6	33.4	2.7	11.7
TV specials/episodics/movie of week	3.4	2.0	6.4	1.5	3.0
Others (still photography, sports, exercise or music video, cable, misc.)	4.8	2.7	4.4	6.8	6.5
Documentaries/industrials/news/ educational/travelog/video stock	2.0	1.7	2.1	1.8	0.8
Annual permit holders	4.9	6.5	6.1	9.6	11.7
Private property projects	8.5	7.2	5.7	2.1	10.0
Sports events, annual (private)	8.6	10.1	8.3	7.0	5.6
Tax revenues generated (million dollars)	9.1	6.7	14.4	9.0	10.9
Spending effect on economy (million dollars)	115.9	91.8	196.9	100.0	121.8

1/ Each program in a series is counted separately. For 1992-94, includes Hawaii TV network affiliates' locally produced programs. Expenditures do not reflect the costs of such production. For 1995-96, 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, Foreign Trade Zone No. 9 and its subzones, the Hawaii State Department of Business, Economic Development & Tourism's Business Development and Marketing Division, the City & County of Honolulu Department of Finance, and E & Y Kenneth Leventhal & Co. 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: 1996*. Long-term Island trends are summarized in *Historical Statistics of Hawaii*, Section 21.

Table 24.01-- INTERSTATE AND FOREIGN TRADE: 1970 TO 1992

[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 2/	10,455.0	8,484.9	8,015.3	469.6	1,970.1	1,498.5
1990 2/	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	11,779.5	9,285.6	8,705.4	580.2	2,493.9	1,635.0

1/ Not available separately for foreign and domestic exports.

2/ Revised from *Data Book 1993-94*, table 24.1.

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 1995**

[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

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 1995; *U.S. Merchandise Trade*, FT900 Supplement, December 1989 to 1995; and records.

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**Table 24.03-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS
DISTRICT, BY CLASSIFICATION: 1992 TO 1995**

[In millions of dollars]

Classification	1992	1993	1994	1995
General imports by district of entry:				
Customs value 1/	2,395.77	2,426.04	2,802.00	3,027.42
C.i.f. value 2/	2,510.07	2,536.99	2,923.06	3,152.37
General imports by district of unloading:				
Customs value 1/	2,733.60	2,826.79	3,160.26	3,373.40
C.i.f. value 2/	2,866.43	2,957.96	3,307.83	3,520.36
Imports for consumption by district of entry (customs value 1/)	2,119.77	2,218.10	2,530.83	2,703.59
Exports of domestic and foreign merchandise by district of export (f.a.s. value 3/)	604.23	1,099.70	985.42	1,072.16
Exports of merchandise by State of origination 4/				
Manufactured commodities	206.2	186.6	177.6	241.1
Non-manufactured commodities	150.1	143.2	125.3	181.7
	56.1	43.4	52.3	59.4

1/ Prices paid by the buyer to the seller in accordance with the 1979 Trade Agreement Act amendments to the 1930 Tariff Act.

2/ Cost, insurance and freight.

3/ Free alongside ship value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges; excludes cost of loading merchandise aboard the exporting carrier and also excludes freight, insurance, etc., beyond the U.S. port of exportation.

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, 1993, 1994, and 1995, tables 1, 4, 5 and 6, and *U.S. Merchandise Trade*, FT900 Supplement, for December 1992, 1993, 1994, and 1995, exhibit 2.

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Table 24.04-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1992 TO 1995

[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
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

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, and 1995, tables 1 and 6.

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**Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1993 TO 1995**

[Years ended September 30, unless otherwise specified]

Subject	1993	1994	1995
Zone No. 9:			
Firms using zone	327	323	310
User employment at zone 1/	168	166	142
Value of merchandise (\$1,000): 2/			
In/out	61,568	52,648	55,383
Exports	15,773	14,352	15,578
Revenue 3/ (\$1,000)	1,935	1,844	1,676
Expenditures 3/ (\$1,000)	1,534	1,475	1,490
Subzone No. 9-A:			
User employment at subzone	628	606	588
Quantity (1,000 metric tons):			
Merchandise, in/out	9,424	9,039	(NA)
Exports	2,044	2,271	(NA)
Value (million dollars): 2/			
Merchandise, in/out	1,164	962	1,043
Exports	278	215	257
Subzone No. 9-B:			
User employment at subzone	14	19	19
Value (\$1,000): 2/			
Merchandise, in/out	3,183	2,872	4,162
Exports	1,582	1,444	2,062
Subzone No. 9-C:			
User employment at subzone	225	18	18
Value (\$1,000): 2/			
Merchandise, in/out	17,600	2,906	2,750
Exports	2,000	1,362	1,126
Subzone No. 9-D:			
User employment at subzone	785	595	597
Value (\$1,000): 2/			
Merchandise, in/out	144,098	106,303	99,196
Exports	10,154	8,650	4,601

Continued on next page.

**Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1993 TO 1995 -- Con.**

Subject	1993	1994	1995
Subzone No. 9-E:			
User employment at subzone	332	329	338
Quantity (1,000 metric tons):			
Merchandise, in/out	5,544	5,753	(NA)
Exports	263	407	(NA)
Value (million dollars): 2/			
Merchandise, in/out	718	654	748
Exports	33	46	55

NA Not available.

1/ For firms occupying facilities on a continuing basis only.

2/ For 1994 and 1995, method of calculating value of "Merchandise, in/out" and "Exports" excludes value added in subzone manufacturing activity.

3/ Years ended June 30.

Source: Hawaii State Department of Business, Economic Development & Tourism, Foreign-Trade Zone No. 9, annual reports and records.

**Table 24.06-- EMPLOYMENT AND SHIPMENTS RELATED TO
MANUFACTURED EXPORTS: 1990 AND 1991**

Subject	1990	1991
Employment related to manufactured exports	9,400	9,600
Percent of civilian employment	1.8	1.7
Manufacturing industries	2,900	2,700
Direct export related	2,000	1,800
Supporting exports	900	900
Nonmanufacturing industries	6,500	6,900
Trade	4,700	5,300
Other	1,800	1,600
Value of export related manufacturers' shipments 1/	694.9	620.6
Percent of total manufacturers' shipments	16.5	16.3
Direct exports 1/	507.5	442.1
Supporting exports 1/	187.4	178.5

1/ Million dollars.

Source: U.S. Bureau of the Census, "Exports from Manufacturing Establishments: 1990 and 1991," *Manufacturing, Analytical Report Series*, AR91-1 (December 1994), pp. 20-23.

Table 24.07-- EMPLOYMENT AND PROPERTY, PLANT AND EQUIPMENT OF HAWAII AFFILIATES OF FOREIGN-OWNED COMPANIES: 1990 TO 1995

[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. Value in billions of dollars]

Subject	1990	1991 1/	1992	1993 1/	1994 1/	1995
Employment by nonbank affiliates	53.0	56.0	53.8	52.4	50.8	51.0
Percent of all nonbank businesses	12.0	12.4	11.9	11.7	11.5	11.5
Employment by country of ultimate beneficial owner	53.0	56.0	53.8	52.4	50.8	51.0
Canada	0.7	0.7	0.5	1.5	1.4	1.5
Europe	6.2	6.1	6.5	3.6	4.0	4.4
France	(NA)	1.0	0.6	0.6	0.6	0.6
Germany	(NA)	(D)	(F)	0.4	0.3	0.6
Netherlands	(NA)	0.9	0.8	0.7	(G)	(G)
Switzerland	(NA)	0.6	1.6	0.4	0.4	0.4
United Kingdom	(NA)	1.5	1.1	1.1	1.1	1.2
Latin America, other W. Hemisphere	3.6	4.0	4.0	4.0	4.7	4.8
Africa and Middle East	-	-	(ZZ)	(ZZ)	(ZZ)	(ZZ)
Africa	-	-	(Z)	(Z)	(Z)	(Z)
Middle East	-	-	(Z)	(Z)	(Z)	(Z)
Asia and Pacific	42.3	44.4	42.1	43.1	40.3	38.7
Australia	2.7	3.2	3.3	3.5	1.4	1.8
Japan	36.0	38.1	36.5	37.5	37.0	35.4
United States	0.3	0.3	0.7	0.2	0.3	0.3
Gross property, plant, and equipment	11.83	9.67	9.96	(NA)	(NA)	(NA)

D Suppressed to avoid disclosure of data of individual companies.

F Between 500 and 999 employees.

G Between 1,000 and 2,499 employees.

NA Not available.

Z Less than 50 employees.

ZZ Between 1 and 98 employees.

1/ Revised.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, May 1993, pp. 89-112; *Survey of Current Business*, May 1995, pp. 57-81; *Statistical Abstract of the United States: 1995*, p. 807; *Survey of Current Business*, July 1996, pp. 102-130; *Survey of Current Business*, June 1997, pp. 42-69.

Table 24.08-- FOREIGN OWNERSHIP OF HOTELS, BY ISLANDS: 1991

Ownership	State total	Hawaii	Maui	Molokai, Lanai	Oahu	Kauai
Total hotel rooms	50,979	6,670	8,737	578	30,263	4,731
U.S. owned	17,389	2,024	1,645	401	11,824	1,495
Foreign owned	33,590	4,646	7,092	177	18,439	3,236
Percent foreign owned	65.89	69.65	81.17	30.62	60.93	68.40
Japanese	61.18	69.65	74.38	30.62	58.11	48.24
Other	4.71	-	6.79	-	2.82	20.16

Source: Pannell Kerr Forster survey cited in *Honolulu Star-Bulletin*, November 15, 1991, p. C-1.

**Table 24.09-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS:
DECEMBER 31, 1993 AND 1994**

Subject	1993	1994
Parcels owned by foreigners	92	93
Individuals	22	23
Organizations	70	70
Acres owned by foreigners	179,960	179,971
Percent of all privately owned agricultural land 1/	9	9
Individuals	2,055	2,066
Organizations	177,905	177,905
Value of foreign-owned agricultural land (\$1,000):		
At time of acquisition	646,961	647,331
Adjusted current value	694,334	728,642

1/ The 1994 percent for Hawaii ranked second among the 50 States, exceeded only by Maine (11.4 percent), and well above the national percentage (1.1).

Source: U.S. Department of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land Through December 31, 1993* (Statistical Bulletin No. 879, April 1994), pp. 6, 9, and 13 and *Foreign Ownership of U.S. Agricultural Land Through December 31, 1994* (Statistical Bulletin No. 919, June 1995), pp. 6, 9, and 13.

**Table 24.10-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND
JAPANESE: PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

Year	Total foreign investments	Investments by Japanese
Total completed	16,363,374	14,062,915
Before 1970	35,000	31,900
1970-1974	438,589	328,689
1975-1979	522,160	264,740
1980-1984	895,416	576,180
1985	140,224	121,154
1986	1,150,354	1,106,854
1987	1,306,025	1,107,025
1988	1,866,563	1,727,582
1989	2,723,450	2,222,150
1990	1,990,530	1,944,330
1991	2,614,475	2,314,675
1992	671,952	633,452
1993	1,027,491	964,139
1994	981,145	720,045
Future investments	5,029,800	4,776,500

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii*, 1994 (December 1995), table 1.

**Table 24.11-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR:
PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

Country of investor	Pre-1970 through 1994	1991	1992	1993	1994
All countries	16,363,374	2,614,475	671,952	1,027,491	981,145
Australia	865,778	206,800	-	1,547	6,800
Bermuda	500	-	-	-	-
British West Indies	575	-	-	-	-
Canada	222,650	43,000	-	80	-
Cayman Islands	8,500	-	-	-	-
China, Peoples Republic of	118,600	-	-	600	118,000
France	19,900	-	-	-	-
Germany	(NA)	-	-	-	-
Hong Kong	448,845	(NA)	20,000	500	125,000
Indonesia	151,975	-	2,500	875	-
Italy	3,000	-	-	3,000	-
Japan	14,062,915	2,314,675	633,452	964,139	720,045
Korea, Republic of	13,750	-	1,000	(NA)	1,200
Liechtenstein	(NA)	-	-	-	-
Netherlands	19,600	-	-	-	-
Netherlands Antilles	70,735	50,000	3,000	-	-
New Zealand	68,900	-	(NA)	-	10,000
Singapore	(NA)	-	-	-	-
Spain	(NA)	-	-	-	-
Switzerland	(NA)	(NA)	-	-	-
Taiwan	90,100	-	12,000	56,000	100
United Arab Emirates	(NA)	-	-	-	(NA)
United Kingdom	193,801	-	(NA)	-	(NA)
Vanuatu	2,500	-	-	-	-
Western Samoa	750	-	-	750	-

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii, 1994* (December 1995), table 1.

**Table 24.12-- FOREIGN INVESTMENTS IN HAWAII, BY TYPE OF INVESTMENT:
PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

Type of investment	Pre-1970 through 1994		All countries		
	All countries	Japanese investments	1992	1993	1994
All types	16,363,374	14,062,915	671,952	1,027,491	981,145
Agriculture	84,600	22,400	-	500	-
Financial institutions	34,301	22,501	2,500	(NA)	-
Condominiums	1,573,850	1,021,250	-	158,600	342,000
Golf courses & club houses	447,050	447,050	(NA)	23,400	18,000
Hotels, resorts	8,516,783	8,047,602	529,182	481,800	360,000
Manufacturing	503,955	71,405	-	(NA)	6,800
Other real estate	3,436,405	2,935,900	20,000	335,050	217,500
Residential property	473,500	461,500	12,270	(NA)	32,000
Restaurants	640,020	629,620	5,000	24,475	1,200
Retailing, wholesaling	317,961	254,656	103,000	80	2
Science, education	95,901	9,400	(NA)	1,000	900
Miscellaneous	239,048	139,631	(NA)	2,586	2,743

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii, 1994* (December 1995), table 2.

Table 24.13-- JAPANESE INVESTMENT IN REAL ESTATE, FOR THE UNITED STATES, HAWAII AND HONOLULU METROPOLITAN STATISTICAL AREA: 1996 AND EARLIER YEARS

Period	United States (mil. dol.)	Hawaii		Honolulu MSA	
		Amount (mil. dol.)	Rank	Amount (mil. dol.)	Rank
INVESTMENT					
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)
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	8,870	881	(NA)	(NA)	(NA)
2000 forecast	(NA)	1,000	(NA)	(NA)	(NA)

NA Not available.

Source: Kenneth Leventhal & Company, *1990 Japanese Investment in United States Real Estate* (1991), pp. 15, 16, and 23; and 1991 (1992), pp. 16, 17, and 24; *1992 Japanese Investment in United States Real Estate* (1993), pp. 15 and 17; *1993 Japanese Disinvestment in U.S. Real Estate* (1994), pp. 7 and 12; and *1995/1996 Japanese Investment in United States Real Estate* (1995), at <http://www.ey.com/us/realcon/realinfo.htm>; and *The Honolulu Advertiser*, July 1, 1997, p. B8.

**Table 24.14-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON
OAHU: 1991-92 AND 1994-96**

[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
All property 1/	227,449	231,893	240,652	245,257	250,320
Foreign holdings	3,160	4,642	5,833	5,150	4,406
Percent	1.4	2.0	2.4	2.1	1.8
Foreign holdings by land class:					
Improved residential	362	753	678	597	545
Apartment	2,487	3,489	4,284	3,792	3,067
Commercial	162	209	212	222	188
Industrial	13	23	22	21	19
Agricultural	35	42	38	33	20
Conservation	20	26	20	18	11
Hotel and resort	66	89	571	460	550
Unimproved residential	15	11	8	7	6
Subject	Assessed value (millions of dollars) 1/				
	1991	1992	1994	1995	1996
All property 1/	72,542	84,520	89,059	88,077	86,985
Foreign holdings	2,766	5,828	6,491	4,867	3,796
Percent	3.8	6.9	7.3	5.5	4.4
Foreign holdings by land class:					
Improved residential	333	702	712	509	435
Apartment	952	1,447	1,471	1,178	916
Commercial	1,157	1,661	1,730	929	567
Industrial	106	141	192	173	113
Agricultural	9	15	53	51	4
Conservation	25	122	91	68	38
Hotel and resort	151	1,716	2,223	1,946	1,710
Unimproved residential	33	25	18	14	12

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), and *1996* (preliminary January 31, 1997), submitted to the Honolulu City Council; Honolulu City and County of Honolulu, Department of Finance, *Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii, for 1995-1996 and 1996-97*.

**Table 24.15-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU
BY COUNTRY, NUMBER OF PARCELS: 1991 TO 1996**

[Number of parcels. No report issued for 1993]

Country	1991	1992	1994	1995	1996
Total	3,160	4,642	5,833	5,150	4,406
Argentina	-	-	1	1	1
Australia	38	47	42	37	31
Austria	1	1	2	2	2
Barbados	-	-	-	1	1
Belgium	-	-	2	2	1
Bermuda	1	2	19	18	16
British Virgin Isle	-	-	1	2	4
British West Indies	-	-	1	1	1
Canada	294	330	293	255	228
Cayman Island(s)	1	4	4	1	1
China	3	32	53	52	49
Dominican Republic	-	-	1	1	1
England	10	23	53	47	40
Finland	1	1	-	-	-
France	6	22	48	45	45
French Polynesia	8	15	6	6	6
Germany	6	11	20	18	13
Guam	1	1	-	-	-
Holland	-	1	5	5	4
Hong Kong	115	128	89	81	73
Iceland	-	-	1	1	-
India	-	-	2	2	2
Indonesia	2	21	12	10	8
Italy	-	-	1	1	1
Japan	2,553	3,763	4,893	4,309	3,669
Korea	13	42	70	58	51
Lebanon	-	-	2	2	2
Liberia	-	7	6	6	6
Macau	2	2	1	1	1
Malaysia	2	4	6	5	4
Micronesia	-	-	2	2	2
Netherlands Antilles	21	24	33	34	10
New Zealand	12	15	11	9	7
Panama	1	1	2	1	1
Papua New Guinea	4	4	-	-	-
Philippines	8	41	36	32	30
Portugal	-	2	1	1	1

Continued on next page.

**Table 24.15-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU
BY COUNTRY, NUMBER OF PARCELS: 1991 TO 1996 -- Con.**

Country	1991	1992	1994	1995	1996
Saudi Arabia	-	-	3	3	3
Singapore	14	15	11	11	10
Sweden	1	2	5	4	4
Switzerland	7	10	13	13	10
Tahiti	-	-	14	11	11
Taiwan	22	48	54	48	46
Thailand	7	16	13	10	9
Turkey	1	1	-	-	-
United Arab Emirates	1	1	1	1	1
Vanuatu	4	4	-	-	-
Western Samoa	-	1	-	-	-

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* (preliminary January 31, 1997), submitted to the Honolulu City Council.

**Table 24.16-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU
BY COUNTRY, ASSESSED VALUE: 1991 TO 1996**

[Value in dollars. No report issued for 1993]

Country	1991	1992	1994	1995	1996
Total	2,766,383,200	5,828,105,900	6,490,786,031	4,866,581,831	3,795,599,831
Argentina	-	-	157,200	172,900	164,300
Australia	13,681,400	17,886,700	13,947,000	16,664,100	14,027,800
Austria	354,600	404,400	616,500	629,100	585,300
Barbados	-	-	-	1,515,100	1,657,000
Belgium	-	-	390,200	364,000	172,000
Bermuda	1,403,100	4,031,800	36,564,700	33,784,100	28,887,100
British Virgin Isle	-	-	298,000	885,200	2,034,100
British West Indies	-	-	320,200	266,800	254,100
Canada	87,387,300	111,696,700	75,640,100	62,631,600	52,773,200
Cayman Island(s)	1,875,000	4,172,000	4,367,000	1,704,500	1,303,900
China	1,845,300	9,886,600	15,295,800	14,433,200	13,385,400
Dominican Republic	-	-	340,300	329,700	262,200
England	3,543,200	12,124,700	19,078,400	16,127,400	13,031,500
Finland	97,800	97,800	-	-	-
France	9,814,400	26,556,000	31,097,900	24,109,100	22,821,200
French Polynesia	3,064,200	4,493,500	1,997,100	1,887,100	1,847,800
Germany	1,703,000	4,414,800	9,888,200	8,008,500	4,404,200
Guam	149,100	163,300	-	-	-
Holland	-	121,200	1,768,700	1,795,700	999,800
Hong Kong	52,175,700	57,722,700	58,948,400	47,992,500	40,255,600
Iceland	-	-	775,000	775,000	-
India	-	-	543,400	539,700	540,500
Indonesia	2,392,000	6,450,500	2,888,600	2,463,000	1,893,600
Italy	-	-	143,800	143,800	123,300
Japan	2,547,270,500	5,413,022,300	6,066,721,831	4,503,050,531	3,513,238,531
Korea	5,424,100	87,185,700	37,743,600	25,308,300	20,027,300
Lebanon	-	-	858,000	858,000	826,600
Liberia	-	1,008,200	2,898,500	2,827,200	2,745,300
Macau	391,000	449,700	304,300	304,300	258,700
Malaysia	248,200	1,203,600	2,114,300	1,385,000	1,113,500
Micronesia	-	-	1,697,700	1,663,700	1,451,400
Netherlands Antilles	2,071,300	5,789,900	43,990,000	42,509,700	11,007,000
New Zealand	3,633,000	4,451,200	3,300,100	3,120,500	1,948,200
Panama	274,400	379,000	615,300	305,200	259,400
Papua New Guinea	727,800	875,000	-	-	-
Philippines	2,863,600	11,466,800	10,885,000	9,448,700	8,387,900
Portugal	-	776,400	464,600	464,600	441,400

Continued on next page.

**Table 24.16-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU
BY COUNTRY, ASSESSED VALUE: 1991 TO 1996 -- Con.**

Country	1991	1992	1994	1995	1996
Saudi Arabia	-	-	602,900	623,500	616,900
Singapore	4,220,100	5,250,600	3,912,000	3,347,000	2,860,400
Sweden	267,000	524,300	1,478,800	1,216,900	1,148,400
Switzerland	2,400,100	3,246,700	4,415,300	4,266,600	2,782,800
Tahiti	-	-	2,684,200	2,144,800	2,175,200
Taiwan	8,593,800	20,467,500	25,576,800	22,471,400	19,448,800
Thailand	2,433,300	5,532,400	5,233,600	3,841,300	3,254,900
Turkey	182,800	209,000	-	-	-
United Arab Emirates	213,500	233,800	222,700	202,500	183,300
Vanuatu	5,682,600	5,699,300	-	-	-
Western Samoa	-	111,800	-	-	-

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* (preliminary January 31, 1997), submitted to the Honolulu City Council.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.	to	Metric	Metric	to	U.S.			
Length								
Inches	x	25.4	=	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	x	0.621	=	miles
Area								
Sq. feet	x	0.093	=	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity								
Cubic feet	x	0.028	=	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	x	0.264	=	gallons (liq.)
Mass								
Ounces (avdp.)	x	28.350	=	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	x	1.102	=	short tons
Miscellaneous conversions								
1 statute mile = 5,280 ft. = 1,760 yards								
1 acre = 43,560 sq. feet								
1 square mile = 640 acres								
short tons = 2,000 pounds								

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	to	Fahrenheit
Temperature				
100 °F		37.8 °C		104.0 °F
90		32.2		95.0
80		26.7		86.0
70		21.1		77.0
60		15.6		68.0
50		10.0		59.0
40		4.4		50.0
30		-1.1		41.0
20		-6.7		32.0
10		-12.2		23.0
				14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, *Atlas of Hawaii*, 2nd edition (1983), pp. 218-219.

**Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK:
1962 TO 1996**

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	262	4.00	5.00	6,309.00	1,500
1974	306	292	4.00	5.00	9,330.00	2,000
1975	302	309	4.00	5.00	10,222.95	2,000
1976	312	335	4.00	5.00	9,901.13	2,000
1977	339	374	4.00	5.00	11,990.00	2,000
1978	379	425	4.00	5.00	8,900.00	2,000
1979	447	407	4.00	5.00	10,744.00	2,500
1980	545	496	5.00	10.00	12,335.00	2,500
1981	603	563	5.00	10.00	14,910.00	3,000
1982	596	566	5.00	10.00	15,633.00	3,000
1983	663	622	5.00	10.00	15,875.00	2,500
1984	762	724	5.00	15.00	32,003.00	3,000
1985	662	680	5.00	15.00	19,995.00	3,000
1986	705	721	5.00	15.00	19,980.00	3,000
1987	722	746	5.00	15.00	21,981.00	3,000
1988	694	737	5.00	15.00	21,700.00	3,000
1989	651	704	8.00	3/ 18.00	21,620.00	3,000
1990	667	732	8.00	3/ 18.00	22,500.00	3,000
1991	657	717	8.00	3/ 18.00	25,312.00	3,000
1992	618	707	8.00	4/ 12.00	24,673.00	3,000
1993-94	571	639	8.00	4/ 12.00	20,430.00	3,000
1995	629	697	15.00	5/ 19.00	23,000.00	3,000
1996	664	703	15.00	5/ 19.00	27,040.00	3,000

NA Not available.

1/ The 1962 edition was titled *Statistical Abstract of Hawaii, 1962*. In addition, a 41-page, 57-table supplement, *Historical Statistics of Hawaii, 1778-1962*, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, *State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources*, was included with each copy of the regular edition, and was not sold separately.

3/ U.S. Mainland price; \$35.00 for foreign countries.

4/ U.S. Mainland price; \$15.00 for Canada, \$20.00 for Mexico, and \$40.00 for all other countries.

5/ U.S. Mainland price; \$21.00 for Canada, \$28.00 for Mexico, and \$48.00 for all other countries.

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

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