

THE STATE OF HAWAII

DATA

BOOK

1993-94

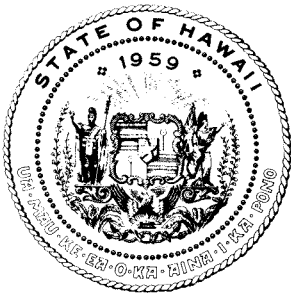
A STATISTICAL ABSTRACT

DBEDT

THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

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

P.O. Box 2359 • Honolulu, Hawaii 96804
Walk in address: 220 South King Street



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JUNE 1994

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This report is largely the work of the DBEDT Research and Economic Analysis Division, headed by Richard Y. P. Joun, Ph.D. It was compiled and edited by Lynn Y. S. Zane, Research and Statistics Officer, with the assistance of Robert C. Schmitt, former State Statistician; Hans Meyer; and Minh-Chau Trinh. The camera-ready copy was typed and proofread by Irene S. Fujimori, Helen T. Nagafuchi, Charlotte N. L. Chow, and Jolly I. Ige. Stewart A. Wastell, illustrator in the Office of State Planning, drew the district and neighborhood maps. Printing arrangements were handled by the DBEDT's Communications and Publications Office.

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ABOUT THIS BOOK

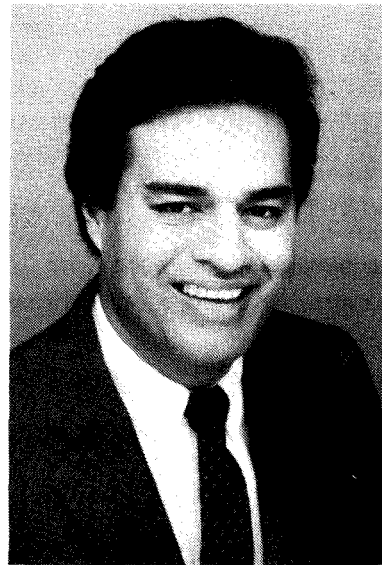
The Department of Business, Economic Development & Tourism is pleased to present the 1993-94 edition of the *State of Hawaii Data Book*, the official summary of statistics on the social, economic, and political organization of our state.

This publication, the 27th 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 state-wide data and less 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.



John Waihee
Governor of Hawaii



Mufi Hannemann
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.

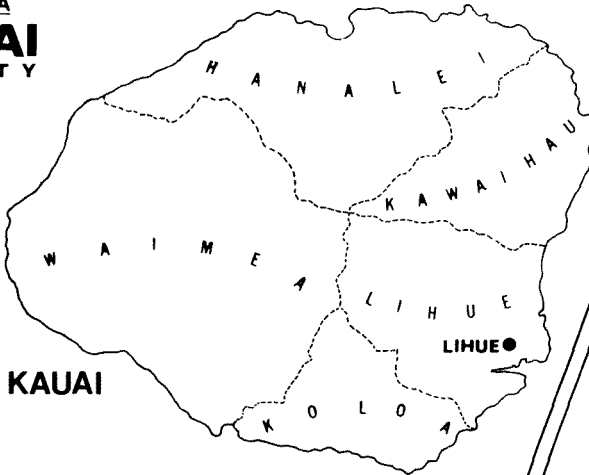
District boundaries shown are those in effect prior to 1989, when Waikakalaua, Waipio Acres, and Mililani Town were shifted from Ewa District to Wahiawa District, and 1991, when Sunset Beach was transferred from Koolauloa District to Waialua District.

FRENCH FRIGATE SHOALS

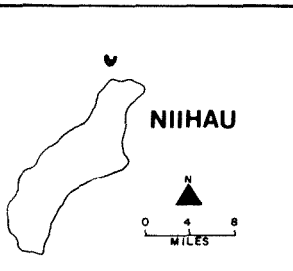
NECKER ISLAND

INSET A

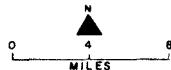
KAUAI COUNTY



KAUAI

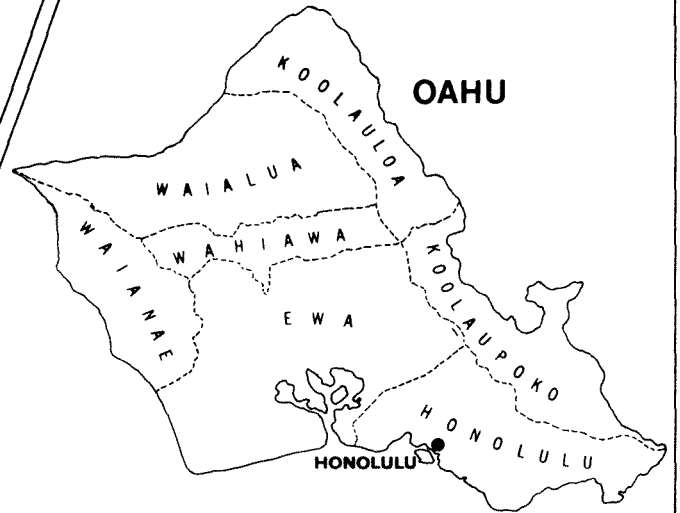


NIIHAU



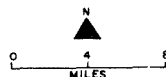
INSET B

HONOLULU CITY AND COUNTY



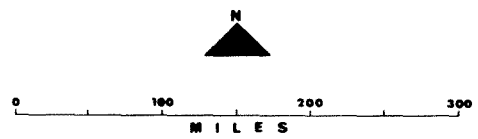
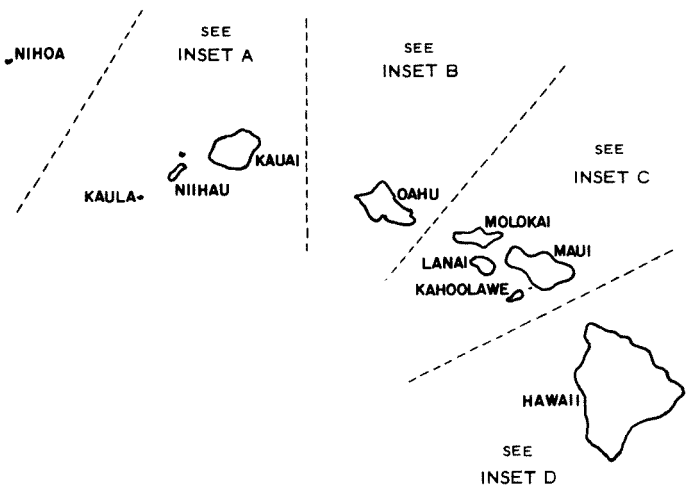
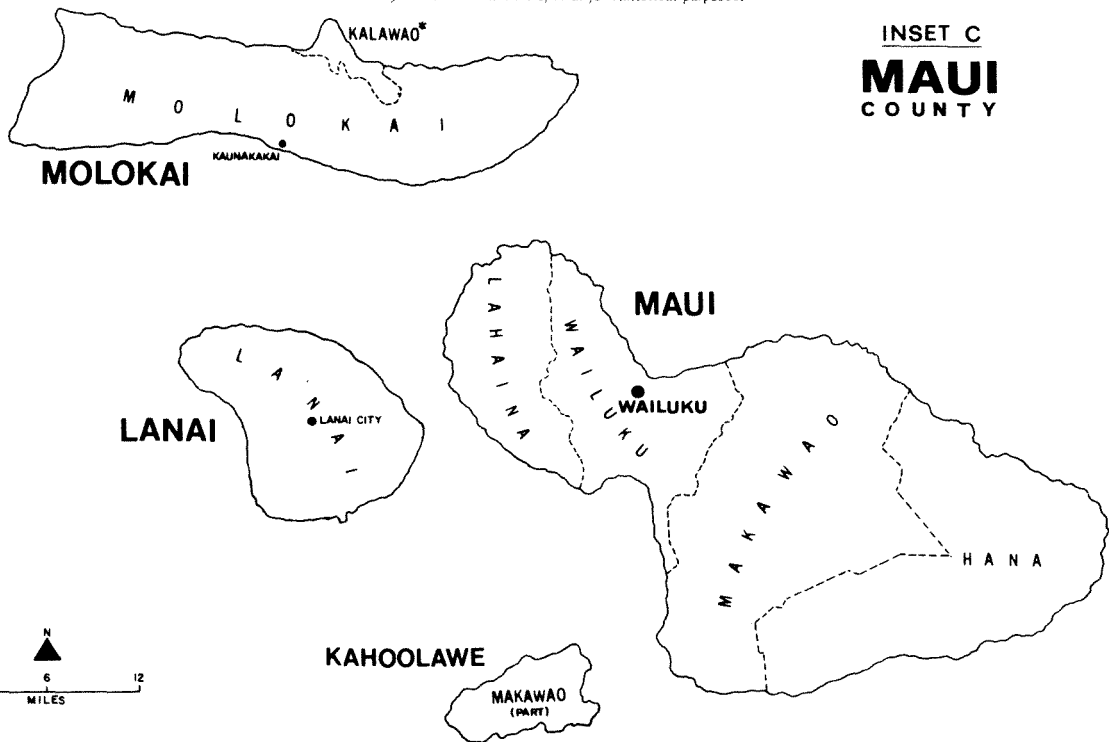
OAHU

HONOLULU



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

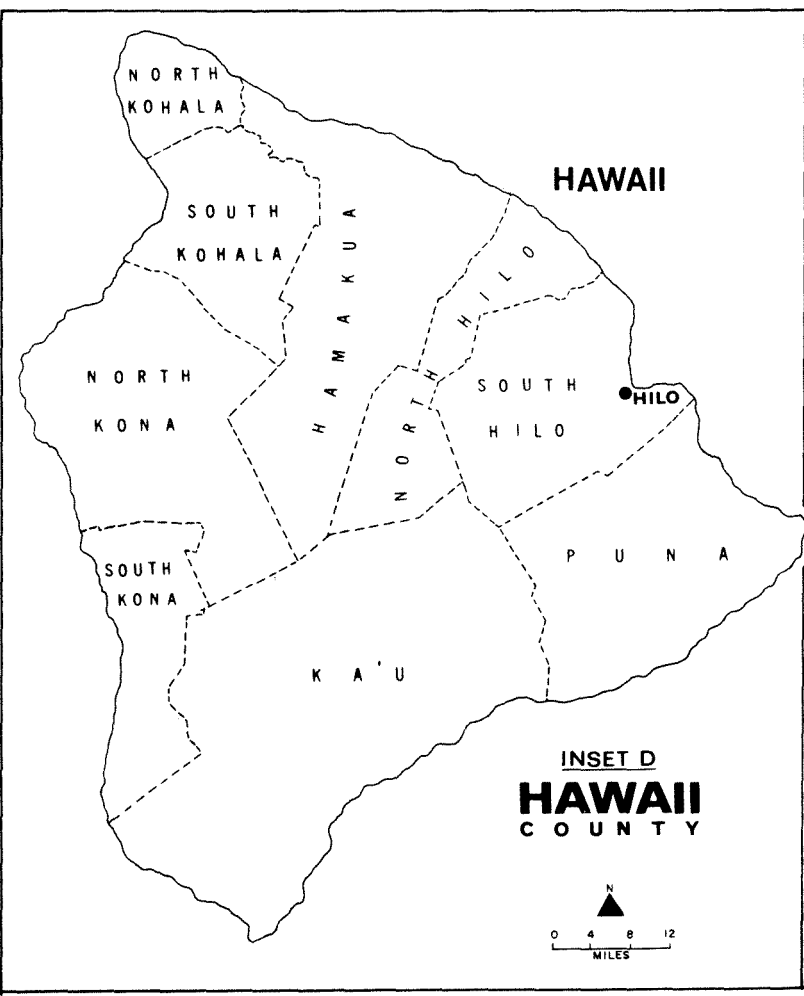
**INSET C
MAUI
COUNTY**



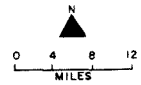
STATE OF HAWAII

DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

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 and Economic Development 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.

In many tables, details will not add exactly to the totals 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.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.		to	Metric	Metric		to	U.S.
Length							
Inches	x	25.4	=	millimeters	millimeters	x	0.039 = inches
Feet	x	0.305	=	meters	meters	x	3.281 = feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621 = miles
Area							
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764 = sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471 = acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386 = sq. miles
Volume and capacity							
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315 = cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308 = cu. yards
Fluid ounces	x	29.573	=	milliliters	milliliters	x	0.034 = fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057 = quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264 = gallons (liq.)
Mass							
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035 = ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205 = pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022 = hundredweight
Short tons	x	0.907	=	metric tons	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	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		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.

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.

Provisional estimates for 1993 indicate a resident population of 1,171,600 about 5.7 percent greater than the final results of the 1990 census of 1,108,229. This total is well above the 1980 census count of 964,691 and the earlier counts of 422,770 in 1940, 154,001 in 1900, and 84,165 in 1850. These estimates and census totals include members of the armed forces stationed in Hawaii and their local dependents, a group making up 9.5 percent of the resident total when last surveyed. The 1993 de facto population--which included over 148,800 visitors present on an average day in that year but excluded 49,100 residents temporarily absent--was 1,271,200. The population of the State is mostly male (51 percent), relatively young--the median age in 1990 was 32.6 years--and racially diversified. The major unmixed groups, based on a 1989 sample survey, were Caucasians (23 percent of the non-barracks, non-institutional population) and Japanese (21 percent). In addition, 35 percent were of mixed race, primarily part Hawaiian. There were 356,267 households in the State in 1990, with an average size of 3.01. Migration has been a major factor in the growth of the population: between 1980 and 1990, there was a net in-migration (excluding military personnel and dependents) of 71,000, accounting for 48 percent of the total civilian population growth during that time. Immigrant arrivals in fiscal 1991 numbered 7,766, mostly from the Philippines. About 9,400 civilians moved to Hawaii from the Mainland during the year.

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 Hawaii State Department of Health and Department of Business, Economic Development & Tourism in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the ongoing series on visitors present and residents absent provided by the Hawaii Visitors 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*, Section 1 and 3. Comparable national statistics on population and migration appear in Section 1 of *Statistical Abstract of the United States: 1993*.

Table 1.1-- 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 (incl. 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 1.2-- CHARACTERISTICS OF THE POPULATION: 1831 TO 1990

[See headnote to table 1.1]

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

NA Not available.

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

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

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 8, 20, 25, 33, and 90; U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), tables 14, 17, and 20, and *General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61; U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), tables 3 and 5, and *Population and Housing Unit Counts, Hawaii*, 1990 CPH-2-13 (March 1993), table 1; U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 17, and *Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 23.

Table 1.3-- RESIDENT POPULATION, BY MILITARY STATUS: 1980 TO 1993

[Excludes visitors present but includes residents temporarily absent]

Year	Total resident population	Armed forces <u>1/</u>	Civilian population		
			All civilians	Military dependents <u>2/</u>	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	55,333	1,052,896	59,935	992,961
July 1	1,112,900	55,200	1,057,700	60,600	997,100
1991: July 1	1,134,900	54,700	1,080,200	63,300	1,016,900
1992: July 1	1,155,700	55,100	1,100,600	57,000	1,043,600
1993: July 1	1,171,600	52,700	1,118,900	62,200	1,056,800

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

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

Source: Federal-State Cooperative Program for Population Estimates.

Table 1.4-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1980 TO 1993

Year	Resident population <u>1/</u>		De facto population <u>3/</u>		De facto-resident ratio
	Total	Temporarily absent <u>2/</u>	Total	Visitors present <u>2/</u>	
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	18,400	1,248,300	158,500	1.126
July 1.....	1,112,900	18,000	1,257,000	162,100	1.129
1991: July 1.....	1,134,900	16,600	1,275,900	157,600	1.124
1992: July 1 <u>4/</u>	1,155,700	37,000	1,272,100	153,400	1.101
1993: July 1 <u>4/</u>	1,171,600	49,100	1,271,200	148,800	1.085

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.

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 techniques.

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

Table 1.5-- 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 <u>1/</u>	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 <u>2/</u>	353,006	500,394	630,497	762,534	836,207
Kauai	29,683	27,922	29,524	38,856	50,947
Niihau <u>3/</u>	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	24
Other islands <u>4/</u>	-	(NA)	(NA)	-	-
Midway Islands <u>5/</u>	416	2,356	2,220	453	(NA)
Johnston Atoll <u>5/</u>	46	156	1,007	327	(NA)
Palmyra Atoll <u>5/</u>	-	-	-	-	(NA)

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 part of the State of Hawaii.

Source: U.S. Bureau of the Census, decennial census bulletins on number of inhabitants, census tracts, and block statistics, 1940-1980, and 1990 census printouts and tapes; U.S. Coast Guard, records (for Kure Atoll in 1990).

Table 1.6-- RESIDENT POPULATION, BY COUNTIES: 1980 TO 1992

[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	1,112,900	838,200	121,500	51,600	101,600
1991: July 1	1,134,900	850,100	126,300	53,300	105,200
1992: July 1 ^{2/}	1,155,700	863,100	130,400	54,200	108,000

^{1/} Including Kalawao County (Kalaupapa Settlement).

^{2/} Provisional estimates.

Source: Federal-State Cooperative Program for Population Estimates.

**Table 1.7-- DE FACTO POPULATION, BY COUNTIES:
1980 TO 1992**

[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 <u>1/</u>
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.....	1,137,800	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.....	1,258,000	912,100	136,500	69,000	139,400
1991: July 1.....	1,275,900	917,400	143,100	71,500	143,900
1992: July 1.....	1,272,100	913,800	145,500	65,900	146,800

1/ Including Kalawao County (Kalaupapa Settlement).

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

Table 1.8-- RESIDENT AND DE FACTO POPULATION, BY COUNTIES AND ISLANDS: APRIL 1, 1980 AND 1990

County and island	Resident population			De facto population		
	1980	1990	Percent change	1980	1990	Percent change
State total	964,691	1,108,229	14.9	1,052,659	1,248,360	18.6
Counties:						
Hawaii	92,053	120,317	30.7	98,659	135,080	36.9
Maui	70,847	100,374	41.7	85,721	137,170	60.0
Kalawao	144	130	-9.7	144	128	-11.1
Honolulu	762,565	836,231	9.7	822,002	908,019	10.5
Kauai	39,082	51,177	30.9	46,133	67,963	47.3
Island:						
Hawaii	92,053	120,317	30.7	98,659	135,080	36.9
Maui	62,823	91,361	45.4	76,829	126,992	65.3
Kahoolawe	-	-	...	-	-	...
Lanai	2,119	2,426	14.5	2,129	2,629	23.5
Molokai	6,049	6,717	11.0	6,907	7,677	11.1
Oahu 1/	762,565	836,231	9.7	822,002	908,019	10.5
Kauai	38,856	50,947	31.1	45,907	67,737	47.6
Niihau	226	230	1.8	226	226	0

1/ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, except Midway (31 residents in 1980 and 24 in 1990).

Source: U.S. Bureau of the Census, *1980 Census of Population, Number of Inhabitants, Hawaii*, PC80-1-A13 (October 1981), tables 2 and 4, and 1990 Public Law 94-171 counts; DBEDT estimates of de facto population based on Hawaii Visitors Bureau survey data on visitors present and residents absent.

**Table 1.9-- LAND AREA AND DE FACTO POPULATION DENSITY, BY
COUNTIES AND ISLANDS: 1990**

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	75.0	194.3
Counties:				
Hawaii.....	10,433.1	4,028.2	12.9	33.5
Maui.....	3,002.5	1,159.3	45.7	118.3
Kalawao.....	34.2	13.2	3.7	9.7
Honolulu	1,554.5	600.2	584.1	1,512.9
Kauai	1,612.2	622.5	42.2	109.2
Islands:				
Hawaii.....	10,433.1	4,028.2	12.9	33.5
Maui.....	1,883.7	727.3	67.4	174.6
Kahoolawe.....	115.6	44.6	0	0
Lanai.....	364.0	140.5	7.2	18.7
Molokai	673.4	260.0	11.4	29.5
Oahu <u>1/</u>	1,554.5	600.2	584.1	1,512.9
Kauai	1,430.5	552.3	47.4	122.6
Niihau <u>2/</u>	181.7	70.2	1.2	3.2

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.

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 report, table 1.8; density computed.

**Table 1.10-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS:
1970, 1980, AND 1990**

County and district (see map, pp. 6-7)	April 1, 1970	April 1, 1980	April 1, 1990	Percent change	
				1970 to 1980	1980 to 1990
State total	769,913	964,691	1,108,229	25.3	14.9
Hawaii County	63,468	92,053	120,317	45.0	30.7
Puna	5,154	11,751	20,781	128.0	76.8
South Hilo.....	33,915	42,278	44,639	24.7	5.6
North Hilo.....	1,881	1,679	1,541	-10.7	-8.2
Hamakua	4,648	5,128	5,545	10.3	8.1
North Kohala.....	3,326	3,249	4,291	-2.3	32.1
South Kohala.....	2,310	4,607	9,140	99.4	98.4
North Kona	4,832	13,748	22,284	184.5	62.1
South Kona.....	4,004	5,914	7,658	47.7	29.5
Ka'u	3,398	3,699	4,438	8.9	20.0
Maui County 1/	46,156	70,991	100,504	53.8	41.6
Hana	969	1,423	1,895	46.9	33.2
Makawao	9,979	19,005	29,207	90.4	53.7
Wailuku.....	22,219	32,111	45,685	44.5	42.3
Lahaina.....	5,524	10,284	14,574	86.2	41.7
Lana.....	2,204	2,119	2,426	-3.9	14.5
Molokai	5,089	5,905	6,587	16.0	11.5
Kalawao.....	172	144	130	-16.3	-9.7
City & Co. of Honolulu	630,528	762,565	836,231	20.9	9.7
Honolulu	324,871	365,048	377,059	12.4	3.3
Koolaupoko.....	92,219	109,373	117,694	18.6	7.6
Koolauloa.....	10,562	14,195	18,443	34.9	29.9
Waialua.....	9,171	9,849	11,549	7.4	17.3
Wahiawa 2/.....	37,329	41,562	43,886	11.3	5.6
Waianae	24,077	31,487	37,411	30.8	18.8
Ewa 2/.....	132,299	191,051	230,189	44.4	20.5
Kauai County.....	29,761	39,082	51,177	31.3	30.9
Hanalei	1,182	2,668	4,631	125.7	73.6
Kawaihau.....	7,393	10,497	15,627	42.0	48.9
Lihue.....	6,766	8,590	10,663	27.0	24.1
Koloa	6,851	8,734	11,368	27.5	30.2
Waimea	7,569	8,593	8,888	13.5	3.4

1/ Including Kalawao County.

2/ 1980 boundaries.

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.

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 governmental 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		
Hawaiian Ocean View	969	Maui	91,361
Hawaiian Paradise Park	3,389	Haiku-Pauwela	4,509
Hawi	924	Haliimaile	841
Hilo	37,808	Hana	683
Holualoa	3,834	Kaanapali	579
Honalo	1,926	Kahului	16,889
Honaunau-Napoopoo	2,373	Kapalua	408
Honokaa	2,186	Kihei	11,107
Honomu	532	Lahaina	9,073
Kahaluu-Keauhou	1,990	Maalaea	443
Kailua	9,126	Makawao	5,405
Kalaoa	4,490	Napili-Honokowai	4,332
Kapaau	1,083	Paia	2,091
Keaa	1,584	Pukalani	5,879
Kealahou	1,453	Waihee-Waiehu 1/	4,004
Kukuihaele	316	Waikapu	729
Kurtistown	910	Wailea-Makena	3,799
Laupahoehoe	508	Wailuku	10,688
Mountain View	3,075		
Naalehu	1,027	Kahoolawe	-
Paaui	620		
Pahala	1,520	Lanai	2,426
Pahoa	1,027	Lanai City	2,400
Papaikou	1,634		
Paukaa	495	Molokai	6,717
Pepeekeo	1,813	Kaunakakai	2,658
Puako	397	Kualapuu	1,661
Volcano	1,516	Maunaloa	405
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: 1980 AND 1990

Comparison <u>1/</u>	Resident population, 1990	Ranking	
		1980	1990
State of Hawaii:			
Among the 50 States and D.C.....	1,108,229	39	41
Among the 50 States.....	1,108,229	39	41
Honolulu MSA: <u>2/</u>			
Among all MSAs and CMSAs.....	836,231	47	51
City and County of Honolulu: <u>3/</u>			
Among all counties.....	836,231	43	40
Among all municipalities.....	836,231	12	11
Honolulu CDP: <u>4/</u>			
Among all incorp. places and CDPs.....	377,059	36	39
Hawaii County <u>5/</u>	120,317	447	383
Kalawao County <u>5/</u>	130	3,136	3,139
Kauai County <u>5/</u>	51,177	979	823
Maui County <u>5/</u>	100,374	577	457

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

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

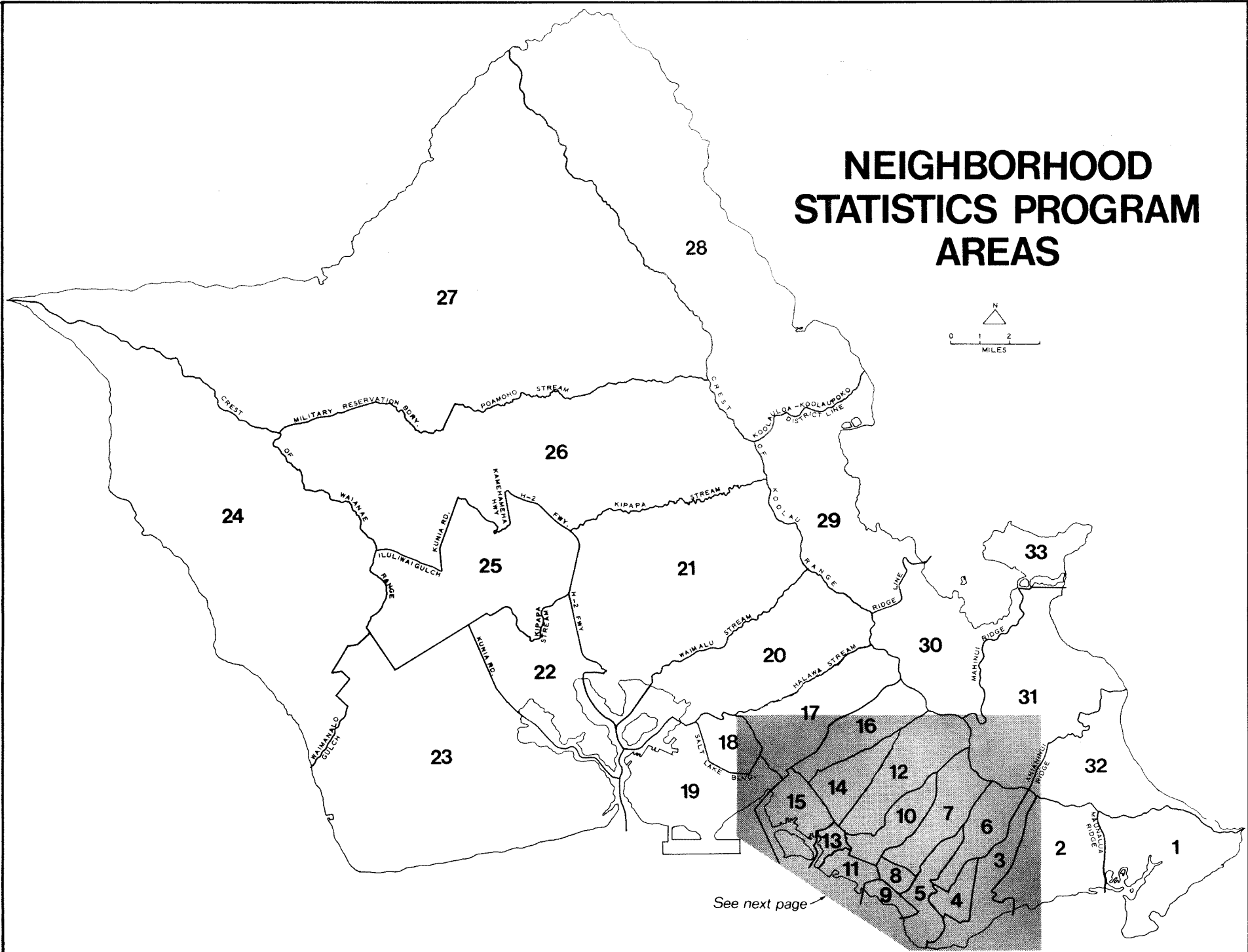
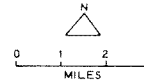
3/ The City and County of Honolulu consists of Oahu and the Northwestern Hawaiian Islands (except Midway).

4/ 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.

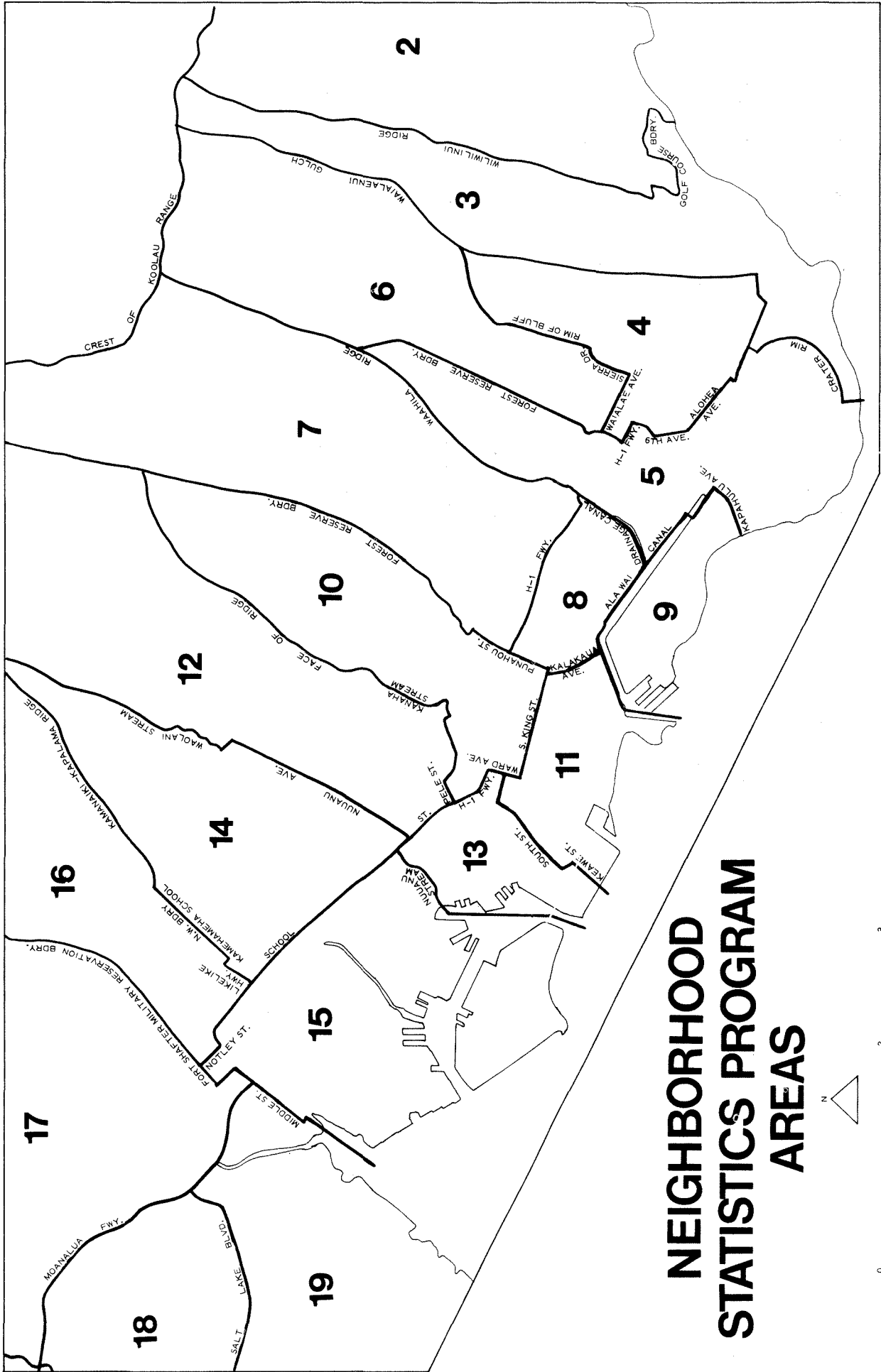
5/ Among all U.S. counties.

Source: U.S. Bureau of the Census, *1980 Census of Population*, PC80-1-A1, tables 16, 18, and 27, and press releases, printouts, and records.

NEIGHBORHOOD STATISTICS PROGRAM AREAS



See next page



NEIGHBORHOOD STATISTICS PROGRAM AREAS

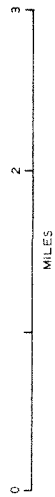


Table 1.14-- CHARACTERISTICS OF OAHU NEIGHBORHOODS: 1990

Neighborhood (see maps on pp. 26-27)	Land area (acres)	Resident population	House- holds	Average hshd size	Housing units
Oahu total.....	384,112	836,231	265,304	3.02	281,683
1 Hawaii Kai.....	7,226	27,432	8,756	3.10	9,234
2 Kuliouou.....	6,051	15,451	5,041	3.06	5,430
3 Waialae-Kahala	2,995	9,440	3,428	2.75	3,759
4 Kaimuki.....	1,317	20,471	6,942	2.89	7,158
5 Diamond Head/Kapahulu	1,519	17,877	7,079	2.50	7,608
6 Palolo.....	2,584	13,465	4,284	3.12	4,369
7 Manoa.....	3,571	22,345	6,945	2.79	7,209
8 McCully/Moiliili	593	28,466	13,459	2.07	14,046
9 Waikiki	500	19,768	11,408	1.72	17,198
10 Makiki/Tantalus	2,005	28,027	13,954	1.99	14,671
11 Ala Moana/Kakaako	905	10,650	6,088	1.72	6,655
12 Nuuanu/Punchbowl	4,687	17,097	6,235	2.72	6,469
13 Downtown.....	2,586	11,929	5,811	1.90	6,035
14 Liliha/Kapalama.....	1,609	21,445	6,703	3.02	6,893
15 Kalihi/Palama.....	2,433	40,147	10,877	3.46	11,107
16 Kalihi Valley	3,366	17,798	4,062	4.34	4,146
17 Moanalua.....	6,223	12,604	3,688	3.30	3,741
18 Aliamanu/Salt Lake	1,858	37,568	11,945	3.14	12,234
19 Airport.....	8,169	26,341	5,779	3.38	5,861
20 Aiea	10,943	32,323	10,536	2.95	10,821
21 Pearl City.....	12,547	47,033	13,700	3.41	13,882
22 Waipahu	18,854	51,153	13,837	3.68	14,219
23 Ewa	23,264	42,737	11,381	3.66	11,677
24 Waianae Coast.....	58,472	37,657	9,470	3.93	10,737
25 Mililani/Waipio.....	9,290	34,817	10,613	3.28	10,785
26 Wahiawa.....	33,323	44,504	10,993	3.45	11,256
27 North Shore.....	76,800	15,729	4,825	3.18	5,287
28 Koolauloa	37,419	14,263	3,578	3.69	4,422
29 Kahaluu	13,225	15,885	4,758	3.33	4,900
30 Kaneohe.....	8,129	39,212	11,750	3.28	11,961
31 Kailua/Mokapu.....	14,514	53,542	15,289	3.22	15,709
32 Waimanalo	7,135	9,055	2,129	4.22	2,204

Source: Tabulations from U.S. Bureau of the Census, Summary Tape File 1A, provided by Honolulu Department of General Planning.

Table 1.15-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR WAIKIKI: 1960 TO 1990

[For definitions of resident and de facto population, see table 1.4, 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 1.16-- 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 1.17-- 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 1.18--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 1.19--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
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 <u>1/</u> (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 <u>2/</u> (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 1.19--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	0	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

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 in 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), table 3.

Table 1.20-- POPULATION PROJECTIONS BY THE U.S. BUREAU OF THE CENSUS: 1992 TO 2020

[Thousands]

Year (July 1)	Series A (preferred)	Series B	Series C	Series D ^{1/}
1992 (estimate)	1,160	1,160	1,160	1,160
1995	1,221	1,224	1,221	1,219
2000	1,327	1,348	1,326	1,316
2005	1,436	1,471	1,439	1,414
2010	1,551	1,597	1,561	1,517
2015	1,678	1,725	1,693	1,626
2020	1,815	1,863	1,835	1,743

Period	Components of change (Series A) ^{2/}				
	Net change	Births	Deaths	Net internal migration	International migration
1990 to 2000	215	208	74	13	78
2000 to 2010	223	225	91	21	78
2010 to 2020	264	260	110	38	79

Age	Series A		Sex, race and Hispanic origin	Series A	
	1993 ^{3/}	2020		1993 ^{3/}	2020
Total.....	1,179	1,815	Male	598	914
			Female.....	581	901
Under 5 years.....	95	135	White.....	454	870
5 to 14 years.....	161	244	Black.....	33	58
15 to 24 years.....	167	242	Amer. Indian.....	6	12
25 to 44 years.....	400	529	Asian, Pac. Isl.	686	875
45 to 64 years.....	221	404	Hispanic origin	96	249
65 to 84 years.....	124	222			
85 years and over.....	12	40			

^{1/} Assumes no internal migration.

^{2/} Components exclude adjustments needed to bring the sum of State projections into agreement with the national totals, and hence do not add exactly to the net changes shown here.

^{3/} Projected rather than actual, and thus not fully consistent with current estimates for 1993 reported elsewhere by the Bureau of the Census. The estimated 1993 total for Hawaii was 1,171,600.

Source: U.S. Bureau of the Census, "Population Projections for States, by Age, Sex, Race, and Hispanic Origin: 1993 to 2020," *Current Population Reports*, P25-1111, March 1994.

Table 1.21-- 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 1.22-- RESIDENT POPULATION, BY AGE AND SEX:
1990 AND 1993**

[In thousands. Includes armed forces stationed or homeported in Hawaii. The 1993 estimates are provisional]

Age group	April 1, 1990 (MARS) ^{1/}			July 1, 1993		
	Both sexes	Male	Female	Both sexes	Male	Female
Total.....	1,108.2	563.9	544.3	1,171.6	593.6	577.9
Under 5 years.....	85.4	43.9	41.5	94.0	48.3	45.7
5 to 9 years.....	80.7	41.5	39.2	81.2	41.7	39.4
10 to 14 years.....	73.6	38.0	35.6	79.7	41.2	38.5
15 to 19 years.....	73.1	38.4	34.7	76.7	39.6	37.1
20 to 24 years.....	91.7	51.1	40.6	85.1	47.6	37.5
25 to 29 years.....	100.4	52.9	47.6	93.8	49.1	44.7
30 to 34 years.....	100.5	51.3	49.2	103.2	52.8	50.3
35 to 39 years.....	95.1	48.5	46.6	102.7	52.6	50.1
40 to 44 years.....	82.2	42.2	40.1	92.8	47.4	45.4
45 to 49 years.....	61.0	30.8	30.2	75.3	38.0	37.4
50 to 54 years.....	46.6	22.9	23.8	56.2	27.6	28.6
55 to 59 years.....	45.2	21.0	24.2	46.2	21.5	24.6
60 to 64 years.....	48.9	22.7	26.1	48.2	22.6	25.6
65 to 69 years.....	45.3	21.7	23.5	46.5	21.7	24.8
70 to 74 years.....	32.8	15.6	17.2	37.4	17.6	19.7
75 to 79 years.....	22.6	11.2	11.4	25.9	11.9	14.0
80 to 84 years.....	13.0	6.5	6.6	15.2	7.6	7.6
85 and over	10.1	3.8	6.3	11.6	4.9	6.7
5 to 17	196.4	101.3	95.1	205.1	105.8	99.3
18 to 24	122.6	67.7	54.9	117.6	64.3	53.3
25 to 44	378.3	194.9	183.5	392.5	201.9	190.5
45 to 64	201.7	97.3	104.4	225.9	109.7	116.2
16 years and over.....	854.5	433.2	421.3	902.1	454.8	447.2
18 years and over.....	826.4	418.7	407.7	872.6	439.6	433.0
21 years and over.....	777.4	391.9	385.5	822.3	413.1	409.2
65 years and over.....	123.7	58.8	64.9	136.6	63.7	72.9
Median age.....	32.5	31.6	33.4	33.7	32.8	34.6

^{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: U.S. Bureau of the Census, records.

Table 1.23-- RESIDENT POPULATION, BY AGE AND SEX, BY COUNTIES: 1990

Subject	State total	City & 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	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 1.24-- ETHNIC STOCK BY MILITARY STATUS: 1990

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 18,780 persons]

Ethnic stock ^{1/}	Total		Armed forces ^{2/}	Military dependents ^{2/}	Other civilians
	Number	Percent			
All groups	1,089,572	100.0	49,550	89,703	950,320
Unmixed	702,416	64.5	42,520	65,325	594,572
Caucasian	262,604	24.1	33,917	48,465	180,223
Japanese.....	222,014	20.4	709	1,277	220,028
Chinese.....	51,293	4.7	119	159	51,015
Filipino.....	123,642	11.4	2,424	6,533	114,685
Hawaiian	8,711	0.8	-	-	8,711
Korean.....	11,597	1.1	-	758	10,839
Black	16,180	1.5	5,022	7,476	3,682
Puerto Rican	3,140	0.3	104	657	2,379
Samoan.....	3,235	0.3	225	-	3,010
Mixed.....	387,156	35.5	7,030	24,378	355,748
Part Hawaiian.....	196,367	18.0	643	1,849	193,875
Non-Hawaiian ^{3/}	190,789	17.5	6,387	22,529	161,873

^{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 or race of mother.

^{2/} Armed forces and military dependents were greatly overrepresented in the 1990 survey. Actual totals for these groups were 32,044 military personnel and 59,935 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 1.25-- ETHNIC STOCK BY COUNTIES: 1990

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 18,780 persons]

Ethnic stock <u>1/</u>	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,089,572	818,343	120,138	51,024	100,065
Unmixed	702,416	547,866	66,439	28,945	59,164
Caucasian	262,604	204,956	26,651	9,367	21,630
Japanese.....	222,014	171,993	23,241	9,390	17,389
Chinese.....	51,293	49,258	976	262	797
Filipino.....	123,642	86,708	12,306	8,834	15,794
Hawaiian	8,711	4,090	1,850	489	2,282
Korean.....	11,597	10,466	279	155	696
Black	16,180	15,447	403	89	241
Puerto Rican	3,140	1,948	723	219	250
Samoan.....	3,235	3,000	10	140	85
Mixed	387,156	270,477	53,699	22,079	40,901
Part Hawaiian.....	196,367	128,242	31,768	12,407	23,950
Non Hawaiian <u>2/</u>	190,789	142,235	21,931	9,672	16,951

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 or 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 1.26-- 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
Samoan.....	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 1.27-- FRACTION OF HAWAIIAN BLOOD AMONG STUDENTS AT THE KAMEHAMEHA SCHOOLS: 1929 TO 1992-1993

Fraction of Hawaiian blood	1929	1954	1969	1980-1981	1984-1985	1992-1993
Number	436	1,258	2,588	2,597	2,745	2,963
Percent	100.0	100.0	100.00	100.00	100.00	100.00
Unmixed	7.3	3.3	0.08	0.12	0.00	0.10
7/8	-	2.1	0.62	0.85	1.02	0.44
3/4	23.4	11.7	3.25	2.43	2.69	1.51
5/8	-	5.3	7.65	5.43	6.12	4.36
1/2	47.7	38.5	15.03	10.74	11.66	10.00
3/8	-	11.4	19.98	16.67	17.60	18.02
1/4	18.1	24.8	27.74	28.49	29.69	29.46
1/8	} 3.4	{ 2.9	21.82	28.92	24.15	27.81
1/16			-	3.83	6.35	7.07	8.30

Source: The Kamehameha Schools, Admissions Department, September 28, 1993.

Table 1.28-- HAWAIIANS LIVING IN HAWAII OR OTHER STATES: 1980 AND 1990

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 1.29-- ANCESTRY: 1990

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

Ancestry group <u>1/</u>	Persons	Ancestry group <u>1/</u>	Persons
Total <u>2/</u>	1,108,229	Korean.....	28,887
English.....	71,569	Okinawan	5,998
German <u>3/</u>	102,883	Vietnamese	5,277
Irish <u>4/</u>	65,587	Hawaiian <u>6/</u>	156,812
Portuguese.....	57,125	Samoan.....	14,971
Puerto Rican.....	16,432	Tongan.....	3,283
Chinese <u>5/</u>	96,293	Afro-American <u>7/</u>	23,864
Filipino.....	176,370	American Indian <u>8/</u>	14,835
Japanese.....	262,113	White <u>9/</u>	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/ Includes Bavarian, Prussian, Saxon, and West German (169).

4/ Includes Northern Irish and Celtic (114).

5/ Includes Cantonese (394).

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

7/ Includes persons who reported "Black," "Negro," "Colored," "Creole," etc.

8/ Includes persons who reported "Native American," "Cherokee," etc.

9/ Includes persons who reported "Caucasian," "Anglo," "Wasp," etc.

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 1.30-- 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).....	22,507	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	323,146

NA Not available.

Source: U.S. Bureau of the Census, *1990 Selected Place of Birth and Migration Statistics for States*, CPH-L-121, and STF-3A, extracted by Hawaii State Data Center.

Table 1.31-- 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 1.32-- 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 1.33-- HOUSEHOLDS, FAMILIES, AND GROUP QUARTERS: 1940 TO 1990

Year	Households	Families	Persons in --			Average size	
			Households	Families	Group quarters	Households	Families
1940 ^{1/}	86,855	(NA)	387,223	(NA)	36,107	4.46	(NA)
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.

^{1/} Persons in households, persons in group quarters, and average household size assume average of 12 persons per household in households with 11 persons or more.

Source: U.S. Bureau of the Census, *16th Census of the U.S.: 1940, Housing, General Characteristics, Hawaii*: (1943), table 8; *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 1.34-- HOUSING UNITS, HOUSEHOLDS AND PERSONS IN HOUSEHOLDS: APRIL 1, 1990 AND JULY 1, 1993

Subject	1990	1993
Total housing units	389,810	416,000
Total households	356,267	379,000
Persons in households	1,070,597	1,132,000
Persons per household ^{1/}	3.01	2.99

^{1/} The U.S. average in 1993 was 2.64. Hawaii ranked second among the 50 States.

Source: Present report, tables 1.33 and 21.16; U.S. Bureau of the Census, *Census and You*, June 1994, p. 9.

Table 1.35-- HOUSEHOLDS, POPULATION IN HOUSEHOLDS, AND POPULATION PER HOUSEHOLD, BY COUNTIES AND 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
Counties:						
Hawaii.....	29,237	41,461	90,436	118,632	3.09	2.86
Maui.....	22,510	33,145	70,008	99,019	3.11	2.99
Kalawao.....	71	62	104	85	1.46	1.37
Honolulu	230,214	265,304	725,865	802,338	3.15	3.02
Kauai	12,020	16,295	38,679	50,523	3.22	3.10
Islands:						
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 transmitted February 21, 1991.

Table 1.36-- 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 1.37-- 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 1.38--SINGLE, WIDOWED, OR DIVORCED PERSONS, BY SEX: 1866 TO 1990

[Persons 14 years old and over for 1940-1970, and 15 years old and over for other dates]

Year	Single, widowed, or divorced			Never married ^{1/}		
	Male	Female	Sex ratio	Male	Female	Sex ratio
1866	9,857	5,137	191.9	...	...	...
1872	10,196	5,142	198.3	...	...	...
1878	13,281	4,411	301.1	...	...	...
1884	25,386	5,385	471.4	...	...	...
1890	29,406	5,394	545.2	26,930	3,296	817.1
1896	37,238	6,387	583.0	34,992	4,052	863.6
1900	55,540	6,773	820.0	52,800	4,655	1,134.3
1910	51,633	9,667	534.1	46,443	6,744	688.7
1920	51,841	14,616	354.7	45,874	10,721	427.9
1930	86,744	26,059	332.9	79,092	19,602	403.5
1940	111,733	51,669	216.2	102,913	40,733	252.7
1944 ^{2/}	433,000	63,000	687.3	410,000	50,000	820.0
1950	94,399	58,995	160.0	81,917	43,445	188.6
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

^{1/} Not available before 1890.

^{2/} Estimate based on fragmentary data.

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; 1944 from Honolulu Redevelopment Agency, *Redevelopment and Housing Research*, No. 22, December 1962, p. 43; other years from *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 31-32.

**Table 1.39-- CHURCH MEMBERSHIP, FOR SELECTED DENOMINATIONS:
1982 AND 1990**

Denomination	1982 ^{1/}	1990
Buddhist:		
Honpa Hongwanji	21,500	^{2/} 10,308
Christian:		
Assembly of God	7,000	13,005
Church of Jesus Christ of Latter-Day Saints	31,027	38,303
Episcopal	10,541	10,396
Evangelical Lutheran Church in America	4,604	3,944
International Church of the Foursquare Gospel	-	4,726
Roman Catholic	209,000	232,780
Seventh-Day Adventists	4,147	5,931
Southern Baptist Convention	11,340	20,331
United Church of Christ	17,485	22,852
United Methodist	6,242	8,348

^{1/} For 1982 data for other denominations, see *Data Book 1988*, table 37.

^{2/} 1987 data.

Source: Geography Department, University of Hawaii, *Atlas of Hawaii*, 2nd ed. (1983), p. 133; *Honolulu Advertiser*, August 20, 1988, p. A-8, and April 30, 1994, p. B4.

Table 1.40-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1980 TO 1990 AND 1990 TO 1993

Period and component	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
1980 TO 1990 <u>1/</u>						
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 <u>2/</u>	-	+734	-	-734	-73	-0.5
Net migration <u>3/</u>	+31,390	-1,853	-38,095	+71,338	+7,134	47.8
1990 TO 1993 <u>4/</u>						
Net change.....	63,363	-2,659	2,231	63,791	19,628	100.0
Natural increase.....	42,531	-85	11,810	30,806	9,479	48.3
Live births.....	64,683	-	12,089	52,594	16,183	...
Deaths.....	22,152	85	279	21,788	6,704	...
Net mil. separations <u>2/</u>	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Net migration <u>3/</u>	+20,832	-2,574	-9,579	+32,985	+10,149	51.7

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, 1993.

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 1.41-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY ISLANDS: 1980 TO 1990

Island	Net change	Natural increase			Net migration ^{1/}
		Total	Live births	Deaths	
State total	+143,538	112,148	168,523	56,375	+31,390
Oahu	+73,666	87,572	128,990	41,418	-13,906
Armed forces	-1,703	-566	-	566	-1,137
Military dependents	-4,031	33,153	33,989	836	-37,184
Other civilians	+79,400	54,985	95,001	40,016	+24,415
Other islands	+69,872	24,222	38,953	14,731	+45,650
Hawaii	+28,264	10,435	17,408	6,973	+17,829
Maui	+28,538	8,442	12,673	4,231	+20,096
Lanai	+307	60	242	182	+247
Molokai	+668	732	1,215	483	-64
Kauai	+12,091	4,541	7,394	2,853	+7,550
Niihau	+4	12	21	9	-8
Island not reported	-	354	580	226	-354

^{1/} Includes net movement into or out of armed forces.

Source: Hawaii State Department of Business, Economic Development & Tourism, *The Population of Hawaii, 1990* (Statistical Report 219, July 1991), table 16.

Table 1.42-- INTENDED RESIDENTS ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL AND MILITARY STATUS: 1987 TO 1992

Year	All intended residents	Westbound by military status				Eastbound and westbound ^{1/}
		Total	Military service	Military dependent	All other	
1987	(NA)	14,640	6,215	5,525	2,900	(NA)
1988	(NA)	7,850	3,097	1,914	2,839	(NA)
1989	22,530	16,010		6,700	9,310	6,520
1990	38,170	29,320	5,470	5,640	18,210	8,850
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

NA Not available.

^{1/} Not available by military status.

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

Table 1.43-- CHARACTERISTICS OF INTENDED RESIDENTS ARRIVING IN HAWAII: 1992

Characteristics	Persons		Characteristics	Westbound	
	Westbound	Other ^{1/}		Party heads	Persons
Previous residence.....	41,790	4,280	Occupation of head ..	25,480	41,790
United States.....	40,370	-	Management.....	1,560	2,530
Foreign	1,420	4,280	Professional.....	2,420	3,960
Age:			Military service.....	11,200	18,380
Median (years)	29.8	26.8	Mil. dependent.....	1,760	2,880
60 and over	1,190	50	Student	1,630	2,660
			Retired	590	950
			All others.....	6,320	10,430
Males per 100 females..	161	165			

NA Not available.

^{1/} Eastbound or northbound.

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

Table 1.44-- IMMIGRANTS ADMITTED, BY COUNTRIES OF BIRTH: 1988 TO 1992

[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]

Country of birth	1988	1989 ^{1/}	1990	1991	1992
All countries	6,637	7,086	7,858	7,766	7,885
Canada.....	139	140	158	159	180
China and Taiwan	579	766	664	669	^{2/} 644
Japan.....	285	333	335	370	669
Korea.....	913	828	721	495	418
Philippines.....	3,410	3,587	4,167	4,328	3,995
Vietnam	330	350	543	498	692
Other countries ^{3/}	981	1,082	1,270	1,247	1,287

^{1/} Includes immigrants admitted under Section 245A of the Immigration Reform and Control Act of 1986. These formerly illegal aliens must have resided in the United States since 1982 to qualify, therefore, they are not new residents.

^{2/} Mainland China, 528; Taiwan, 116.

^{3/} Includes Hong Kong (240 in 1992), Western Samoa (88), United Kingdom (83), New Zealand (82) and all other countries.

Source: U.S. Immigration and Naturalization Service, records.

Table 1.45-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1987 TO 1992

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	Vietnam	Other countries
1987....	4,070	253	485	2,306	97	(1/)	929
1988....	3,763	272	431	2,097	98	(1/)	865
1989....	6,426	870	670	3,292	158	(1/)	1,436
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

1/ Included with "other countries."

Source: U.S. Immigration and Naturalization Service, records.

Table 1.46-- 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 CPH-L-80 and 81, table 1, and CPH-L-121, table 4.

**Table 1.47-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS:
1989 AND 1990**

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 17,877 persons 1 year old and over in 1989 and 18,780 persons 1 year old and over in 1990]

Place of residence one year earlier	All groups	Armed forces <u>1/</u>	Military dependents <u>1/</u>	Other civilians
1989				
Population 1 and over.....	1,069,114	45,048	79,327	944,739
Same house	900,612	30,601	55,758	814,254
Different house, same island.....	98,167	6,428	8,314	83,425
Different island	7,093	34	45	7,014
Different state	42,613	6,673	12,736	23,205
U.S. territory or possession.....	1,183	196	590	397
Different country	7,168	1,025	1,774	4,369
Previous residence not reported	12,277	91	111	12,075
Migrants <u>2/</u>	50,964	7,894	15,099	27,971
Percent of number reporting	4.8	17.6	19.1	3.0
1990				
Population 1 and over.....	1,073,555	49,550	85,148	938,858
Same house	901,648	30,615	56,834	814,199
Different house, same island.....	98,659	8,754	8,876	81,029
Different island	6,392	138	112	6,142
Different state	48,557	8,411	16,306	23,840
U.S. territory or possession.....	241	-	-	241
Different country	11,703	1,391	2,763	7,550
Previous residence not reported	6,355	241	257	5,857
Migrants <u>2/</u>	60,501	9,802	19,069	31,631
Percent of number reporting	5.6	19.8	22.4	3.4

1/ Armed forces and military dependents were greatly overrepresented in the 1990 survey. Actual totals for these groups were 32,044 military personnel and 59,935 dependents.

2/ From different state, territory, or country.

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

**Table 1.48-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS:
1989 AND 1990**

[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 17,877 persons in 1989 and 18,780 persons in 1990. 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
1989				
Total	1,084,458	45,048	83,368	956,042
Almost certain to be living in Hawaii	989,161	29,374	55,040	904,748
Some possibility of living elsewhere	30,346	3,148	5,297	21,901
A good chance of living elsewhere	9,154	1,514	2,872	4,768
Almost certain to be living elsewhere...	44,378	11,012	20,160	13,206
Not reported	11,420	-	-	11,420
1990				
Total	1,089,573	49,549	89,704	950,320
Almost certain to be living in Hawaii	987,990	32,954	59,001	896,036
Some possibility of living elsewhere	33,858	2,393	5,589	25,876
A good chance of living elsewhere	12,284	2,098	4,236	5,949
Almost certain to be living elsewhere...	49,490	11,976	20,162	17,352
Not reported	5,951	128	716	5,107

^{1/} Armed forces and military dependents were greatly overrepresented in the 1990 survey. Actual totals for these groups were 32,044 military personnel and 59,935 dependents.

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

Section 2

VITAL STATISTICS AND HEALTH

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

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1984-86 was 75.37 years for males and 80.92 years for females. There were 6,696 resident deaths in 1991, or 5.9 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 7.0 in 1991. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fourth. Resident live births in 1992 numbered 19,837, or 17.2 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,013 in 1988. Fully 96.4 percent of all babies were born in hospitals in 1992, and 19.4 percent were born to military couples. More than one out of four births was to an unmarried woman. There were 7,460 fetal deaths in 1992, including 5,942 elective abortions. Marriages numbered 17,725 in 1992, with over 43 percent accounted for by nonresidents. Divorces reached a 1992 total of 5,040. The State had 25 acute care hospitals (with 3,175 beds), 40 long-term care facilities (with 3,416 beds), and 11 specialty care facilities (with 810 beds) in 1990. There were 2,803 physicians and surgeons, 971 dentists, 9,609 professional nurses, and 664 pharmacists licensed and living in Hawaii as of March 1993. Acute conditions per 100 persons numbered 245 in 1988, with respiratory conditions the most common complaint (at 168 cases per 100 persons). Among chronic conditions reported in the 1988 survey data, the most frequently mentioned were hypertension (7.8 per 100 persons), impairments of the back or spine (6.7), and hayfever (6.4). The most common communicable diseases reported to authorities in 1991 were chickenpox, with 825 cases, and gonorrhea, with 695, but the most fatal was AIDS (79 deaths). State mental health facilities served 8,110 patients in 1991, but the number of in-patients at the end of the year was only 182. Among persons 18 years old and over in 1988, 9.4 percent were heavy drinkers and 23.8 percent were current regular cigarette smokers. Tooth decay was a serious problem among Island children. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

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: 1993* contain data for the nation as a whole.

Table 2.1-- BIRTHS AND DEATHS: 1970 TO 1992

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	17.5	5.9	262.5	10.5	7.0
1992.....	19,837	6,846	17.2	5.9	264.5	11.1	6.5

^{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 2.2-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1990 TO 1992

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians ^{1/}			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1990.....	20,528	-	20,528	4,091	16,437	4,091
1991.....	19,985	-	19,985	3,665	16,320	3,665
1992.....	19,949	-	19,949	3,875	16,074	3,875
Deaths:						
1990.....	7,055	40	7,015	78	6,937	118
1991.....	7,041	133	6,908	82	6,826	215
1992.....	7,177	164	7,013	74	6,939	238
Birth rates: ^{2/}						
1990.....	16.3	0	17.1	68.3	14.4	35.5
1991.....	15.7	0	16.4	57.9	14.3	31.0
1992.....	15.7	0	16.4	68.0	13.5	34.6
Death rates: ^{2/}						
1990.....	5.6	0.7	5.8	1.3	6.1	1.0
1991.....	5.6	2.4	5.7	1.3	6.0	1.8
1992.....	5.6	3.0	5.8	1.3	5.8	2.1

^{1/} Death rates for military dependents based on 1980 age and sex composition of military dependents and 1980 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.

Table 2.3-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1987 TO 1992

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate ^{1/}			
1987	25,931	24.3	18,555	1,405	5,971
1988	26,346	24.4	18,937	1,411	5,998
1989	26,083	23.8	19,335	1,468	5,280
1990	26,834	24.1	20,438	1,689	4,707
1991 ^{2/}	27,289	24.0	19,880	1,717	5,692
1992	27,297	23.6	19,837	1,518	5,942

^{1/} Per 1,000 resident population, July 1.

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

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

Table 2.4-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1991 AND 1992

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State ^{1/}
Births:						
1991	19,985	19,880	104	1	19,924	44
1992	19,949	19,837	111	1	19,863	26
Deaths:						
1991	7,041	6,696	335	10	6,894	198
1992	7,177	6,846	323	8	7,072	226

^{1/} Figure for 1992 includes persons born in Hawaii who became residents of other states.

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

Table 2.5-- CHARACTERISTICS OF RESIDENT BIRTHS: 1990 TO 1992

[Excludes births to Hawaii residents occurring out of state]

Subject	1990	1991	1992
Number of resident births	20,438	19,880	19,837
City and County of Honolulu.....	15,380	14,756	14,827
Percent on Oahu	75.3	74.2	74.7
Hawaii County	2,228	2,278	2,234
Kauai County	945	983	892
Maui County (incl. Kalawao).....	1,885	1,863	1,884
Percent attended by M.D. or O.D. in hospital <u>1/</u>	98.2	96.7	96.4
Males per 100 females	105.3	108.2	109.3
Median weight of single births (grams).....	3,318	3,315	3,312
Percent low birth weight (under 2,500 grams).....	7.1	6.8	7.2
Percent single births under 40 weeks gestation.....	48.6	48.1	54.9
Percent plural	2.0	2.2	2.1
Percent with 1 or more congenital malformations	1.4	1.6	1.5
Percent to unmarried mothers.....	25.0	26.3	26.5
Percent with prenatal visit in first three months.....	68.9	68.8	68.1
Percent first child born to mother <u>2/</u>	29.1	29.0	29.0
Percent first child born alive to mother	42.5	41.7	41.9
Median age of mothers (years)	27	27	27
Median age of known fathers (years).....	29	29	29

1/ Place of occurrence basis prior to 1991.

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

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

Table 2.6-- CHILDREN EVER BORN PER 1,000 WOMEN 15 TO 44 YEARS OLD, FOR THE STATE AND OAHU: 1990

Age of women	State total	Oahu only
Women 15 to 24 years	289	281
Women 25 to 34 years	1,199	1,132
Women 35 to 44 years	1,812	1,778

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 1.

Table 2.7-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF PARENTS: 1991

Military status of parents	Total births	Unmixed	Mixed ^{1/}	Not certain ^{2/}
All groups.....	19,880	8,580	10,133	1,167
Military	3,620	2,653	888	79
Civilian.....	14,439	5,917	8,519	3
Status not reported.....	1,821	10	726	1,085

^{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."

Source: Hawaii State Department of Health, records.

**Table 2.8-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX:
1992**

[A total of 7,130 first names, including variant spellings, was reported for the 19,949 babies born in Hawaii in 1992]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1.....	Joshua.....	179	Ashley.....	148
2.....	Michael.....	173	Jessica.....	107
3.....	Christopher.....	147	Nicole.....	99
4.....	Matthew.....	139	Sarah.....	86
5.....	Ryan.....	125	Chelsea.....	83
6.....	Brandon.....	124	Jennifer.....	79
7.....	David.....	120	Brittany.....	76
8.....	Jordan.....	118	Amanda.....	68
9.....	Justin.....	116	Kayla.....	68
10.....	Nicholas.....	104	Samantha.....	63

Source: Hawaii State Department of Health, Office of Health Status Monitoring, special tabulation, March 31, 1993.

**Table 2.9-- MOST COMMON SURNAMES ON BIRTH AND DEATH
CERTIFICATES: 1992**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1.....	Lee.....	111	Lee.....	47
2.....	Smith.....	83	Wong.....	39
3.....	Johnson.....	73	Kim.....	33
4.....	Brown.....	66	Nakamura (tie).....	31
5.....	Kim.....	63	Smith (tie).....	31
6.....	Wong.....	60	Ching.....	28
7.....	Williams.....	50	Silva.....	26
8.....	Young.....	44	Kam (tie).....	24
9.....	Jones (tie).....	42	Lum (tie).....	24
10.....	Nguyen (tie).....	42	Watanabe.....	23

Source: Hawaii State Department of Health, Office of Health Status Monitoring, special tabulation, April 5, 1994.

Table 2.10-- SELECTED LIFE TABLE VALUES, BY SEX: 1984-1986

[For earlier years and ranking relative to other States, see *Data Book 1987*, tables 69 and 70]

Age in years (period of life between two exact ages stated)	Of 100,000 born alive				Average remaining lifetime at beginning of year of age ^{1/}	
	Number living at beginning of year of age		Number dying during year of age		Male	Female
	Male	Female	Male	Female		
0-1	100,000	100,000	1,020	833	75.37	80.92
5-6	98,814	99,023	17	22	71.27	76.72
15-16	98,573	98,831	57	31	61.43	66.85
25-26	97,650	98,453	117	36	51.96	57.09
35-36	96,469	98,013	134	67	42.53	47.32
45-46	94,660	96,998	281	162	33.24	37.76
55-56	90,060	94,310	719	430	24.64	28.67
65-66	80,321	88,116	1,387	923	16.95	20.29
75-76	61,250	75,146	2,492	1,946	10.53	12.83
85-86	31,274	49,110	(^{2/})	(^{2/})	5.56	6.73

^{1/} For males and females combined, the average remaining lifetime at birth was 77.98 years. For the entire United States in 1985, the corresponding figure was 74.7 years (71.2 years for males and 78.2 years for females).

^{2/} Not calculated for this and higher ages.

Source: Robert W. Gardner, East-West Population Institute, *Complete Life Tables by Age and Sex for Hawaii, 1984-86* (unpublished, September 11, 1987); *Statistical Abstract of the United States: 1992*, p. 76.

Table 2.11-- CHARACTERISTICS OF RESIDENT DEATHS: 1990 TO 1992

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1990	1991	1992
Number of resident deaths.....	6,687	6,696	6,846
City and County of Honolulu.....	4,796	4,793	4,914
Hawaii County.....	889	880	916
Kauai County.....	341	358	369
Maui County (incl. Kalawao).....	661	665	647
Males per 100 females.....	139.2	137.2	140.5
Median age (years).....	73	73	73
Centenarian deaths: Male.....	14	23	9
Female.....	36	37	34
Oldest (years): Male.....	105	109	104
Female.....	104	107	111
Percent married.....	46.7	46.0	47.1
Deaths under 1 year.....	132	140	122
Per 1,000 live births.....	6.5	7.0	6.2
Fetal deaths <u>1/</u>	6,396	7,409	7,460
Per 1,000 deliveries.....	238	272	273
Fetal deaths, 20 or more weeks gestation <u>2/</u>	213	209	270
Per 1,000 live births.....	10.4	10.5	13.6
Standard fetal deaths <u>3/</u>	1,689	1,717	1,518
Elective abortions.....	4,707	5,692	5,942
Per 1,000 live births.....	230.3	286.3	299.5

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 2.12-- CAUSE OF DEATH, BY SEX: 1992

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	6,846	3,999	2,847
Tuberculosis	5	1	4
Other infective	210	167	43
Malignant neoplasm.....	1,737	1,012	725
Digestive organs	574	354	220
Respiratory system.....	457	305	152
Breast.....	130	1	129
Genital organs	191	115	76
Urinary organs	61	45	16
Leukemia.....	53	30	23
Other	271	162	109
Diabetes mellitus.....	161	68	93
Heart disease.....	2,091	1,241	850
Rheumatic	7	3	4
Hypertensive	47	26	21
Ischemic	1,163	708	455
Other heart	874	504	370
Hypertension.....	28	11	17
Cerebrovascular disease	574	275	299
Arteriosclerosis	30	15	15
Other circulatory	106	65	41
Influenza/pneumonia	257	149	108
Chronic obstructive pulmonary diseases.....	196	123	73
Peptic ulcer	21	13	8
Cirrhosis of liver	74	54	20
Nephritis and nephrosis	67	32	35
Pregnancy, birth & puerperium	4	-	4
Congenital anomalies	38	20	18
Perinatal conditions	56	38	18
Ill-defined conditions	54	26	28
Other diseases	647	337	310
Accidents	262	191	71
Motor vehicles.....	123	88	35
Other.....	139	103	36
Suicide	129	98	31
Homicide & legal intervention	46	25	21
Other external causes.....	53	38	15

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

Table 2.13-- CATASTROPHIC MORTALITY: 1984 TO 1994

[Includes all accidents, natural disasters, and other events causing five or more deaths. Complete through January 31, 1994]

Date	Place	Kind of disaster	Deaths
1985: Jan. 15.....	540 mi. N. of Honolulu.....	Helicopter crash	7
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

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 2.14-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1970 TO 1992

Method	1970	1980	1989	1990	1991	1992
All methods	4,197	5,204	6,730	7,055	7,041	7,177
Burial	2,197	2,343	2,740	2,798	2,723	2,751
Cremation.....	1,509	2,241	3,369	3,564	3,649	3,784
Removal	470	567	594	656	649	601
Entombment.....	13	44	19	35	12	17
Educational purpose.....	3	-	-	-	1	12
Other	-	1	-	-	-	-
Unknown	5	8	8	2	7	12

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

**Table 2.15-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1992 AND 1993**

Date	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1992: June 30	2,318	1,804	215	101	198
1993: June 30	2,339	1,804	224	102	209

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

Table 2.16-- CHRONIC CONDITIONS: 1990

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Malignant neoplasms	10,581	9.7
Benign and unspecified neoplasms.....	5,436	5.0
Thyroid disease	16,286	14.9
Diabetes	28,572	26.2
Mental and nervous condition	13,552	12.4
Heart disease	32,649	30.0
Hypertension	95,245	87.4
Varicose veins	12,168	11.2
Hemorrhoids.....	19,959	18.3
Bronchitis/emphysema	23,817	21.9
Asthma	45,624	41.9
Hayfever	78,138	71.7
Chronic sinusitis	52,127	47.8
Peptic ulcer.....	9,022	8.3
Gallbladder	11,581	10.6
Kidney disease	7,956	7.3
Skin condition	45,303	41.6
Arthritis	48,485	44.5
Visual impairment.....	13,219	12.1
Hearing impairment.....	54,520	50.0
Impairment of back or spine	78,812	72.3
Gout.....	15,257	14.0

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

Table 2.17-- ACUTE CONDITIONS: 1990

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions.....	2,720,126	249.6
Infective parasitic diseases	160,742	14.8
Respiratory condition.....	1,845,685	169.4
Digestive system condition.....	62,195	5.7
Injuries.....	233,748	21.5
All other acute conditions	417,756	38.3

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

Table 2.18-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1990

Type of limitation	Number
Persons with one or more chronic conditions	498,556
No limitation of activity.....	374,878
Limited, but not in major activity	53,184
Limited in amount or kind of activity	37,250
Unable to carry on major activity	22,703
Not reported	10,541
Restricted activity days in past month <u>1/</u>	2,098,026
Per person <u>2/</u>	1.9

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 2.19-- SPECIFIED COMMUNICABLE DISEASES: 1990 TO 1992

Disease	Cases			Deaths		
	1990	1991	1992	1990	1991	1992
AIDS	151	176	133	79	120	118
Chickenpox.....	2,007	825	1,009	-	-	-
Gonorrhea	639	695	686	-	-	-
Hansen's Disease <u>1/</u>	19	12	19	-	-	-
Hepatitis, all types	171	120	356	8	5	10
Influenza.....	199	135	135	3	-	1
Leptospirosis <u>2/</u>	43	33	31	-	1	-
Malaria <u>3/</u>	8	4	11	-	-	-
Measles (Rubeola).....	41	12	46	-	-	-
Meningitis, all types	136	80	145	6	6	2
Mumps.....	26	30	28	-	-	-
Rubella	8	9	25	-	-	-
Salmonellosis	458	373	321	-	-	-
Syphilis.....	19	10	10	-	-	-
Tuberculosis.....	205	202	274	6	11	5

1/ Excludes reinstated cases.

2/ Includes previously unreported cases.

3/ Acquired outside the State.

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

Table 2.20-- TOOTH DECAY AMONG PUBLIC SCHOOL PUPILS, FOR THE UNITED STATES, 1986-1989, AND HAWAII, 1989

Characteristics	U.S.	Hawaii
Dental caries prevalence per child:		
Primary or deciduous teeth ^{1/}	1.884	3.658
Secondary or permanent teeth ^{2/}	0.818	0.897
Percent of 5-year old public school pupils with baby bottle tooth decay (3 or more decayed maxillary anterior teeth)	5.0	15.8
Percent of 6- to 8-year old students with--		
Untreated primary or permanent tooth decay ^{3/}	27.0	36.2
One or more decayed primary or permanent teeth	53.0	96.9

^{1/} Mean decayed or filled for ages 5-9, cumulative. U.S. rate is for 1987.

^{2/} Mean decayed, missing or filled for ages 5-12, cumulative. U.S. rate is for 1987.

^{3/} Teeth with active decay and in need of treatment. U.S. rate is for 1986.

^{4/} Decayed, missing due to decay, or filled.

Source: Hawaii from Hawaii State Department of Health, Dental Health Division. U.S. from *National Survey of Dental Caries in U.S. School Children: 1986-1987*; Louis Ripa, "Nursing Caries: A Comprehensive Review," *Pediatric Dentistry*, December 1988; and *National Year 2000 Oral Health Objectives* (1990).

Table 2.21-- HUNGER, BY AGE: 1992

[Includes all persons in households in which some individual (s) missed meals for economic reasons during the past year]

Subject	All ages	Under 6	6 to 11	12 to 17	18 to 59	60 and over
Number.....	176,443	21,042	23,928	13,936	109,524	8,013
Percent.....	14.2	19.2	21.3	18.9	14.1	4.8

Source: SMS Research, *Homelessness and Hunger in Hawaii*, submitted to Homeless Aloha, June 15, 1992, p. 32.

Table 2.22-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1987 TO 1992

[Includes Tripler Army Medical Center]

Category and year	Hospitals			Care homes		
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Family <u>2/</u>	Residential <u>3/</u>
Number of facilities:						
1987.....	51	23	36	9	633	17
1988.....	51	22	36	9	531	16
1989.....	52	22	38	8	515	16
1990.....	57	24	40	11	501	15
1991.....	58	24	41	13	494	14
1992.....	58	24	41	13	490	14
Number of beds:						
1987.....	6,820	2,887	2,977	956	2,547	540
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

NA Not available.

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

2/ Five beds or fewer.

3/ Six beds or more.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, records, and Hospital and Medical Facilities Branch, records.

Table 2.23-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1987 TO 1992

[Excludes Tripler Army Medical Center]

Type of facility and year	Beds Dec. 31	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:					
1987	2,346	93,256	1,661	6.5	70.8
1988 <u>1/</u>	2,835	117,548	2,074	6.4	73.3
1989	2,351	91,686	1,722	6.7	73.3
1990	2,532	93,511	1,755	6.8	69.4
1991	2,593	96,961	1,814	6.8	70.0
1992 <u>2/</u>	2,583	98,973	1,837	6.8	71.1
Long-term care:					
1987	2,995	2,553	2,779	397	92.8
1988 <u>1/</u>	3,187	2,746	2,907	376	91.7
1989	3,212	2,653	2,993	409	93.5
1990	3,401	3,137	3,165	368	93.1
1991	3,443	3,181	3,216	369	93.4
1992	3,476	3,255	3,343	375	96.2

1/ Excludes statistics for Lanai.

2/ Revised.

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

Table 2.24-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: 1992-1993

[Except for Tripler Army Medical Center, data are for 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, December 31, 1992				Care homes, Jan. 1993	
	Total <u>1/</u>	Acute care <u>4/</u>	Long-term care	Specialty care	Type I <u>2/</u>	Type II <u>3/</u>
NUMBER OF FACILITIES						
State total	58	23	41	14	490	14
Oahu	39	11	25	11	393	10
Hawaii	7	5	7	-	52	-
Kauai	6	3	5	1	21	3
Maui	3	2	2	1	16	-
Molokai	2	1	1	1	8	1
Lanai	1	1	1	-	-	-
NUMBER OF BEDS						
State total	6,794	2,583	3,476	735	2,175	436
Oahu	5,141	2,069	2,355	717	1,794	370
Hawaii	726	239	487	-	207	-
Kauai	375	114	261	-	74	52
Maui	494	147	343	4	66	-
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.

4/ Revised June 3, 1994.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities, 1992*, and Hospital and Medical Facilities Branch, records.

Table 2.25-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1992

[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 ^{1/}				
State total	98,973	1,837	6.8	71.1
Oahu.....	74,544	1,505	7.4	72.7
Hawaii.....	11,285	138	4.5	57.9
Kauai	4,626	63	5.0	55.4
Maui.....	8,409	130	5.6	88.2
Molokai.....	93	1	2.4	7.5
Lanai.....	16	1	3.8	2.7
LONG-TERM CARE				
State total	3,255	3,343	375	96.2
Oahu.....	2,280	2,227	357	94.6
Hawaii.....	409	508	453	104.3
Kauai	331	251	277	96.1
Maui.....	195	335	627	97.7
Molokai.....	40	17	155	77.1
Lanai.....	-	5	(NA)	62.7

NA Not available.

^{1/} Revised June 3, 1994.

Source: Data by islands from Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County*.

Table 2.26-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES: 1985 TO 1990

Year	Average length of stay (days)	Average cost to hospital		Hospital semiprivate room charges ^{1/} (dollars)
		Per inpatient day (dollars)	Per admission (dollars)	
1985	8.3	420.11	3,522	231
1986	7.5	489.93	3,707	253
1987	7.9	512.48	4,106	242
1988	8.9	517.16	4,651	257
1989	9.0	549.90	5,077	317
1990	9.3	637.62	6,048	348

^{1/} January data.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data* (biennial) and *Update* (biennial).

Table 2.27-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1986 TO 1991

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1986	5,852	252	5,600	3,826	3,292	3,725	8,342
1987	5,754	248	5,506	3,678	3,122	3,452	8,220
1988	5,234	260	4,974	3,694	3,147	4,143	8,389
1989	5,448	251	5,197	3,943	3,306	3,644	8,003
1990	5,487	205	5,282	3,660	3,237	3,569	8,044
1991	5,441	182	5,259	3,094	2,881	2,010	8,110

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

**Table 2.28-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1991 TO 1994**

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

Year	Number of beds, June 30	Admissions <u>1/</u>		Patients in hospital <u>2/</u>	
		Total	First	Average <u>1/</u>	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

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

Table 2.29-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1990 TO 1993

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

Year	Beds, June 30	Admissions <u>1/</u>	Patients in residence		Patients on leave, June 30
			Average <u>2/</u>	June 30	
1990	205	10	153	158	6
1991	195	2	148	134	6
1992	172	1	114	112	-
1993	172	4	101	82	-

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

Table 2.30-- HANSEN'S DISEASE PATIENTS REGISTERED: 1988 TO 1992

Subject	1988	1989	1990	1991	1992
Patients on register, Dec. 31...	571	541	498	487	479
At home	474	447	405	397	393
Kalaupapa	93	90	89	86	83
Hale Mohalu at Leahi.....	4	4	4	4	3
New cases.....	20	18	18	19	19
Deaths.....	13	14	9	3	-

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

**Table 2.31-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS
LICENSED IN HAWAII, BY PLACE OF ADDRESS: MARCH 5, 1993**

Place of address	Physicians and surgeons ^{1/}	Dentists	Registered nurses	Pharmacists
Total licensed	5,099	1,284	12,689	1,137
Hawaii addresses.....	2,803	971	9,609	664
Hawaii.....	215	89	830	66
Maui.....	186	59	705	57
Lanai.....	1	1	12	1
Molokai.....	7	4	38	2
Oahu.....	2,299	781	7,640	507
Kauai.....	95	37	384	31
Niihau.....	-	-	-	-
Mainland U.S.....	2,233	308	2,852	468
Foreign.....	63	5	227	5
Not reported.....	-	-	1	-

^{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 2.32-- MARRIAGES AND DIVORCES: 1970 TO 1992

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments <u>2/</u>	Rates per 1,000 resident population		Percent of marriages	
	Total	Resident <u>1/</u>		Resident marriages	Divorces, annulments <u>2/</u>	Nonresident <u>3/</u>	Inter-racial <u>4/</u>
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

NA Not available.

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.

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

**Table 2.33-- MARRIAGE AND DIVORCE RATES BASED ON RISK
POPULATION: 1910 TO 1990**

Census year	Females 15 years old and over <u>1/</u>		Marriages <u>2/</u>		Divorces <u>2/</u>	
	Unmarried <u>3/</u>	Married <u>4/</u>	Number	Rate <u>5/</u>	Number	Rate <u>6/</u>
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, and 1980, and records.

**Table 2.34-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1989 TO 1992**

[Place of occurrence basis]

Subject	1989	1990	1991	1992
MARRIAGES				
Number.....	17,974	18,306	17,764	17,725
Percent on Oahu	57.7	58.3	57.9	58.0
Percent Hawaii residents:				
Both bride and groom.....	51.3	53.1	52.4	52.7
One partner only.....	4.1	3.7	4.2	4.0
Neither bride nor groom	44.6	43.1	43.4	43.3
Median age (years):				
Groom	31	31	31	31
Bride	28	28	29	29
Percent previously married:				
Groom	39.8	39.5	38.8	38.1
Bride.....	40.4	40.1	39.2	38.5
DIVORCES AND ANNULMENTS				
Number.....	5,613	5,179	5,184	5,040
Divorces	5,600	5,163	5,161	5,024
Annulments.....	13	10	13	14
Not reported	-	6	10	2
Percent occurring on Oahu	78.5	77.5	76.7	74.2
Percent Hawaii residents:				
Both partners.....	75.4	73.9	76.4	76.4
One partner only.....	23.1	26.0	23.3	23.4
Neither partner	0.1	0.2	0.2	0.2
Median age (years):				
Husband	35	35	35	35
Wife	32	33	33	33
Percent interracial ^{1/}	39.4	40.3	40.0	39.9
Percent with children under 18 years....	55.3	52.1	52.1	52.1
Median years married.....	6.2	6.3	6.3	6.3

^{1/} 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 2.35-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1992

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages.....	17,725	10,049	7,676
Race of partners:			
Both partners same race <u>1/</u>	12,204	5,453	6,751
Different.....	5,521	4,596	925
Percent different	31.1	45.7	12.1
Type of ceremony:			
Civil ceremony.....	4,628	3,840	788
Religious ceremony.....	13,096	6,208	6,888
Unknown	1	1	-

1/ Includes marriages with both partners of unknown race.
 Source: Hawaii State Department of Health, special tabulations.

Table 2.36-- MARITAL DISSOLUTION: 1980 TO 1992

Subject	1980	1990	1992	Percent		
				1980	1990	1992
Married couples.....	185,698	210,468	224,000	100.0	100.0	100.0
Marriages ended	6,782	8,292	8,265	3.7	3.9	3.7
By divorce.....	4,438	5,172	5,040	2.4	2.5	2.2
By death	2,344	3,120	3,225	1.3	1.5	1.4
Husbands.....	1,678	2,234	2,285	0.9	1.1	1.0
Wives	666	886	940	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; 1992 DBEDT estimate of married couples, based on 1990-92 percent increase in female population 18 years and older.

**Table 2.37-- HEALTH SPENDING BY FAMILIES AND BUSINESSES:
1980 AND 1991**

[Health payments cover the delivery of all health services and supplies and the purchase of medical products, including prescription drugs and vision products in retail outlets. It also includes government public health expenditures, the administrative costs of public programs, and the net cost of private insurance. Data exclude non-patient revenue, research and construction]

Subject	1980	1991
Total health payments (million dollars).....	946	3,252
By families.....	641	2,079
By businesses.....	305	1,173
Average health payments per family (dollars).....	2,701	7,190
By families.....	1,829	4,596
By businesses.....	872	2,594
Average health payments by families (dollars).....	1,829	4,596
Out-of-pocket.....	575	1,379
Insurance.....	200	757
Medicare payroll tax.....	128	341
Medicare premiums.....	25	100
General taxes.....	901	2,020
Rank among 50 States.....	12	7
Percent of average family income.....	8.2	10.0
Total health payments by businesses (million dollars).....	305	1,173
Insurance.....	181	744
Medicare payroll tax.....	45	154
General taxes.....	47	169
Other.....	33	106

Source: Families USA Foundation, *Health Spending: The Growing Threat to the Family Budget* (December 1991).

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.

Enrollment in elementary, intermediate and high schools in 1992-1993 totaled 212,448, slightly more than in the preceding year but below the all-time high of 216,000 reached in 1971-1972. There were 238 public schools with 11,326 classroom teachers and 177,806 students (83.7 percent of the total). There were also 130 private schools with 2,332 teachers and 34,642 pupils. Students graduating from public and private high schools in 1991-1992 numbered 12,009. Some 62,000 students attended colleges and universities in the State in Fall 1993, including 20,000 on the Manoa Campus of the University of Hawaii, 700 at UH-West Oahu, 3,000 at UH-Hilo, 26,500 at seven community colleges, and 11,800 in three private colleges and universities. Only 7.5 percent of all persons 16 to 19 years old were not enrolled in school in 1990 and were not high school graduates. The expenditure per pupil in public schools rose from \$2,701 in 1981-1982 to \$5,246 in 1991-1992. In scholastic aptitude tests, Hawaii students scored close to the national norms in the math component but considerably below in the verbal component. Among adults, an estimated 19 percent were functionally illiterate in English as of 1988. Almost one-fourth of all residents 25 years of age or more have completed four or more years of college. The Hawaii State Library System, with 49 locations on six islands, had 2.7 million books, 8,700 periodical subscriptions, 10,400 video tapes, and 93,500 sound recordings in 1992, with an annual circulation of 6.7 million. The University of Hawaii libraries in 1992 counted 3.2 million volumes.

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 colleges and universities. *Historical Statistics of Hawaii*, Section 9, contains Island data back to 1820. Section 4 of the *Statistical Abstract of the United States: 1993* presents comparable information for the nation as a whole.

**Table 3.1-- SCHOOL ENROLLMENT AND EDUCATIONAL ATTAINMENT,
FOR THE STATE AND OAHU: 1990**

Subject	State total	Oahu only
SCHOOL ENROLLMENT		
Persons 3 years and over enrolled in school	290,578	221,821
Preprimary school	21,276	15,977
Elementary or high school	186,653	135,478
Percent in private school	15.8	18.3
College	82,649	70,366
EDUCATIONAL ATTAINMENT		
Persons 25 years and over	709,820	534,187
Less than 9th grade	71,806	50,131
9th to 12th grade, no diploma	69,700	50,222
High school graduate	203,893	151,930
Some college, no degree	142,881	107,988
Associate degree	59,116	42,747
Bachelor's degree	111,837	89,197
Graduate or professional degree	50,587	41,972
Percent high school graduate or higher	80.1	81.2
Percent bachelor's degree or higher	22.9	24.6

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 1.

**Table 3.2-- EDUCATIONAL ATTAINMENT OF PERSONS 25 YEARS OLD
AND OVER, BY COUNTIES: 1990**

Subject	State total	Hawaii	Hono-lulu	Kala-wao	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 3.3-- 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 and Housing*, 1990 CPH-5-13, table 3.

Table 3.4-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, FOR THE UNITED STATES AND HAWAII: MARCH 1991

[Noninstitutional population]

Geographic area	Population 25 years and over (1,000)	Completed 4 years of high school or more		Completed 4 years of college or more	
		Percent	1.6* (s.e.) ^{1/}	Percent	1.6*(s.e.) ^{1/}
United States	158,694	78.4	0.3	21.4	0.3
Hawaii	724	85.7	2.0	27.0	2.6
Rank ^{2/} ...	41	8	...	5	...

^{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 1991 and 1990," *Current Population Reports, Population Characteristics*, Series P-20, No. 462, May 1992, pp. 1, 3, and 83.

Table 3.5-- 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 <u>1</u> / (percent)		
		1	2	3
State total	796,001	<u>2</u> / 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: Omnitrack 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 3.6-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1982-1983 TO 1992-1993

School year	Schools (September)			Teachers (September)		
	Total	Public	Private	Total	Public	Private
1982-83	373	233	140	10,302	8,083	2,219
1983-84	374	233	141	10,344	7,997	2,347
1984-85	372	231	141	10,453	8,060	2,393
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

School year	Enrollment (September)			High school graduates		
	Total	Public	Private	Total	Public	Private
1982-83	200,129	162,024	38,105	13,248	10,757	2,491
1983-84	200,240	162,241	37,999	12,992	10,454	2,538
1984-85	200,869	163,860	37,009	12,516	10,092	2,424
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	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii State Department of Education, records.

Table 3.7-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 14, 1992, AND HIGH SCHOOL GRADUATES, 1991-1992, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

Island	Number of schools, September 14, 1992			Number of teachers, September 14, 1992		
	Total	Public <u>1/</u>	Private	Total	Public <u>1/</u>	Private
State total	368	238	130	13,658	11,326	2,332
Hawaii.....	47	32	15	1,844	1,653	191
Maui.....	35	22	13	1,189	1,028	161
Lanai.....	1	1	-	38	38	-
Molokai.....	7	5	2	125	119	6
Oahu.....	257	164	93	9,745	7,821	1,924
Kauai.....	20	13	7	715	665	50
Niihau.....	1	1	-	2	2	-
Island	Enrollment, September 14, 1992			High school graduates, 1991-1992 school year		
	Total	Public <u>1/</u>	Private	Total	Public <u>1/</u>	Private
State total	212,448	177,806	34,642	12,009	9,649	2,360
Hawaii.....	28,663	26,388	2,275	1,527	1,396	131
Maui.....	18,954	16,603	2,351	994	885	109
Lanai.....	536	536	-	25	25	-
Molokai.....	1,786	1,737	49	102	101	1
Oahu.....	151,219	122,008	29,211	8,808	6,690	2,118
Kauai.....	11,273	10,517	756	553	552	1
Niihau.....	17	17	-	-	-	-

1/ Includes UH Lab School.

Source: Hawaii State Department of Education, records.

**Table 3.8-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES:
1991 AND 1992**

Grade	September 12, 1991			September 14, 1992		
	Total	Public <u>1/</u>	Private	Total	Public <u>1/</u>	Private
All grades.....	210,271	175,114	35,157	212,448	177,806	34,642
Nursery.....	2,733	498	2,235	2,317	525	1,792
Kindergarten.....	17,057	14,361	2,696	17,077	14,448	2,629
1	16,757	14,331	2,426	17,130	14,769	2,361
2	16,688	14,353	2,335	16,362	14,078	2,284
3	16,320	14,097	2,223	16,269	14,048	2,221
4	15,975	13,685	2,290	15,952	13,761	2,191
5	15,520	13,282	2,238	15,710	13,526	2,184
6	15,151	12,851	2,300	15,466	13,146	2,320
7	14,830	11,836	2,994	15,299	12,261	3,038
8	14,111	11,321	2,790	14,764	11,800	2,964
9	15,356	12,607	2,749	15,368	12,603	2,765
10	13,957	11,315	2,642	14,028	11,368	2,660
11	12,886	10,445	2,441	13,501	11,016	2,485
12	11,758	9,332	2,426	11,441	9,098	2,343
Specials <u>2/</u>	11,172	10,800	372	11,764	11,359	405

1/ Includes UH Lab School.

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

Source: Hawaii State Department of Education, records.

**Table 3.9-- SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 14, 1992**

[Combined totals for public and private systems]

Grade	State total ^{1/}	Hawaii	Maui	Honolulu	Kauai
All grades.....	212,448	28,663	21,276	151,219	11,290
Nursery.....	2,317	291	209	1,742	75
Kindergarten.....	17,077	2,104	1,688	12,373	912
1.....	17,130	2,191	1,779	12,245	915
2.....	16,362	2,163	1,770	11,600	829
3.....	16,269	2,125	1,708	11,609	827
4.....	15,952	2,182	1,662	11,235	873
5.....	15,710	2,207	1,567	11,078	858
6.....	15,466	2,128	1,587	10,908	843
7.....	15,299	2,185	1,492	10,788	834
8.....	14,764	2,019	1,488	10,469	788
9.....	15,368	2,173	1,458	10,946	791
10.....	14,028	1,967	1,386	9,959	716
11.....	13,501	1,824	1,328	9,657	692
12.....	11,441	1,458	1,083	8,319	581
Specials ^{2/}	11,764	1,646	1,071	8,291	756

^{1/} Includes UH Lab School.

^{2/} Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records.

**Table 3.10-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS:
FALL, 1989 TO 1992**

Category	1989	1990	1991	1992
All federally-connected pupils.....	36,899	36,159	35,736	35,318
Percent of total enrollment.....	21.8	21.1	20.5	20.0
Military dependents.....	20,228	19,889	19,838	19,832
Others ^{1/}	16,671	16,270	15,898	15,486

^{1/} Includes dependents of civilian employees of armed forces.

Source: Hawaii State Department of Education, records.

Table 3.11-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 14, 1992, AND PRIVATE HIGH SCHOOL GRADUATES, 1991-1992, BY CHURCH AFFILIATION

Church affiliation	Schools	Teachers	Enrollment	High school graduates
Total.....	130	2,332	34,642	2,360
Church-affiliated	94	1,698	26,626	1,747
Roman Catholic.....	34	627	11,468	622
Other church-affiliated	60	1,071	15,158	1,125
Non-church-affiliated	36	634	8,016	613

Source: Hawaii State Department of Education, records.

Table 3.12-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1981-1982 TO 1991-1992

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	2,700.72	22,473	177
1982-1983	497,763,951	23,304,890	3,098.23	21,504	^{2/} 174
1983-1984	509,710,506	11,941,000	3,255.97	25,380	176
1984-1985	526,741,742	13,652,707	3,351.18	25,648	174
1985-1986	585,533,781	27,812,430	3,795.31	26,595	176
1986-1987	589,592,735	23,445,100	3,748.38	27,546	176
1987-1988	622,638,850	32,211,000	3,950.49	28,353	177
1988-1989	661,605,931	37,505,200	4,171.74	29,835	174
1989-1990	727,501,992	50,569,700	4,605.11	32,252	175
1990-1991	863,592,130	50,464,700	5,016.15	34,448	175
1991-1992	914,792,363	100,194,691	5,245.79	35,684	177

^{1/} Based on average daily membership.

^{2/} One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, records.

**Table 3.13-- SCHOLASTIC APTITUDE TEST SCORE AVERAGES:
1975 TO 1993**

Component	1974-75	1979-80	1985-86	1989-90	1991-92	1992-93 ^{1/}
Verbal	414	396	403	404	401	401
Math	478	472	477	481	477	478

^{1/} The U.S. averages in 1992-93 were 424 for verbal and 478 for math.

Source: U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics 1992* (October 1992), p. 128; *Honolulu Advertiser*, August 27, 1992, pp. A1 and A8, and August 19, 1993, pp. A1 and A2.

**Table 3.14-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC
SCHOOL GRADES 3, 6, 8, AND 10: 1993**

[Percent of students taking test]

Subject and level	Norm	Grade 3	Grade 6	Grade 8	Grade 10
Reading:					
Below average	23	34	24	36	30
Average.....	54	54	57	48	48
Above average.....	23	12	18	16	22
Math:					
Below average	23	22	19	32	28
Average.....	54	52	55	46	50
Above average.....	23	27	26	22	22

Source: *Honolulu Advertiser*, October 8, 1993, p. A1.

**Table 3.15-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS:
FALL 1983 TO 1993**

[Fall headcount enrollment of regular students.]

Year	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo <u>2/</u>	Univ. of Hawaii- West Oahu
		Total	Classified		Unclassi- fied <u>1/</u>		
			Under graduates	Gradu- ates			
1983 ..	46,241	20,966	15,091	4,339	1,536	1,628	433
1984 ..	43,809	19,965	14,234	4,255	1,476	1,506	435
1985 ..	43,246	19,606	13,565	4,283	1,758	1,447	443
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

Year	Community Colleges <u>3/</u>							
	Total	Hono- lulu	Kapio- lani	Lee- ward	Wind- ward	Hawaii	Kauai	Maui
1983 ..	23,214	5,127	5,278	6,022	1,456	1,977	1,182	2,172
1984 ..	21,903	4,549	5,264	5,753	1,363	1,728	1,159	2,087
1985 ..	21,750	4,535	5,054	5,645	1,540	1,747	1,174	2,055
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

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.

**Table 3.16-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY
THE UNIVERSITY OF HAWAII: 1983 TO 1993**

Year ended June 30	University of Hawaii at Manoa					
	Associ- ate	Bachelor	Master	Doctor	First profes- sional <u>1/</u>	Other <u>2/</u>
1983	52	2,639	938	120	132	120
1984	60	2,698	945	101	131	166
1985	90	2,642	914	138	137	189
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

Year ended June 30	University of Hawaii at Hilo <u>3/</u>		Univ. of Hawaii- West Oahu: Bachelor	Community Colleges <u>3/</u>		
	Certificates <u>4/</u>	Bachelor degrees		Certifi- cates <u>5/</u>	Associ- ate degrees	No data
1983	-	193	91	577	2,250	4
1984	-	188	136	553	2,262	3
1985	-	180	77	521	2,103	1
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	0
1992	47	222	135	242	2,008	23
1993	62	280	190	316	2,135	22

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.

**Table 3.17-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES,
AND FACULTY AND STAFF: 1991 TO 1993**

Subject	1991	1992	1993
Curricula offered at Manoa Campus, Fall <u>1/</u>	263	267	269
Bachelor's degree programs	86	86	87
Master's degree programs	85	87	87
Doctoral programs (DrPH, EdD, PhD).....	50	53	53
Other programs <u>1/</u>	42	41	42
Tuition per semester (full-time undergraduate, regular session) (dollars):			
Manoa Campus: Resident.....	645	670	700
Nonresident.....	1,940	2,035	2,130
Hilo (upper division): Resident.....	595	615	635
Nonresident.....	1,790	1,860	1,935
West Oahu: Resident.....	420	425	430
Nonresident.....	1,290	1,340	1,400
Community colleges: Resident.....	210	220	230
Nonresident.....	1,290	1,340	1,400
Finances, fiscal year ending June 30:			
Current fund revenues (\$1,000)	539,356	596,821	604,889
Current fund expenditures (\$1,000)	535,420	583,335	605,180
Faculty and staff, October			
Board of Regents appointees.....	8,028	8,235	8,289
Full-time.....	6,363	6,511	6,570
Part-time.....	4,105	4,260	4,322
Civil Service personnel.....	2,258	2,251	2,248
Full-time.....	1,665	1,724	1,719
Part-time.....	1,614	1,670	1,672
Part-time.....	51	54	47

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

Source: Institutional Research Office, University of Hawaii, *Facts About the University of Hawaii* (annual), and records.

Table 3.18-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1990 TO 1993

[Excludes extension programs of mainland and foreign schools, unaccredited institutions, and other limited or specialized curriculum programs]

Year and institution <u>1/</u>	Fall enrollment <u>2/</u>			Earned degrees conferred <u>3/</u>		
	Total	Under-grad.	Grad-uate	Associ-ate	Bachelor's	Master's
1990, total.....	10,761	9,947	814	338	988	196
Brigham Young.....	2,140	2,140	-	46	198	-
Chaminade.....	2,446	2,164	282	115	291	136
Hawaii Loa.....	618	618	-	2	93	-
Hawaii Pacific.....	5,557	5,025	532	175	406	60
1991, total.....	11,429	10,450	979	368	999	245
Brigham Young.....	2,110	2,110	-	71	203	-
Chaminade.....	2,481	2,201	280	85	219	155
Hawaii Loa.....	514	514	-	4	138	-
Hawaii Pacific.....	6,324	5,625	699	208	439	90
1992, total.....	11,310	10,124	1,186	523	1,018	233
Brigham Young.....	2,064	2,064	-	68	234	-
Chaminade.....	2,270	1,920	350	128	227	110
Hawaii Pacific.....	6,976	6,140	836	327	557	123
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

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

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 3.19-- RESIDENCE AND MIGRATION OF ALL FRESHMEN STUDENTS GRADUATING FROM HIGH SCHOOL IN THE PAST 12 MONTHS: FALL 1988

Category	Total	In 4-year colleges
Students enrolled in State 1/	4,872	2,494
Students residents of State 2/	5,960	3,463
Students remaining in State 3/	4,521	2,162
Migration of students:		
Out of State	1,439	1,301
Into State	351	332
Net migration	-1,088	-969

1/ All new freshmen students, whether in-migrants or "remaining."

2/ All new freshmen students residing in Hawaii when first admitted to the reporting institution, whether in Hawaii or on the Mainland.

3/ New freshmen students attending institutions in their home State.

Source: U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics 1992* (October 1992), pp. 201-202.

Table 3.20-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1988 TO 1991

[In thousands of dollars. Fiscal year data]

Institution	1988	1989	1990	1991
All universities and colleges	58,779	84,753	71,165	83,720
University of Hawaii at Manoa	45,190	63,215	54,567	62,744

Source: National Science Foundation, *Selected Data on Federal Support to Universities and Colleges: Fiscal Year 1991*, NSF 93-320 (September 1993), pp. 33 and 39.

**Table 3.21-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY
SYSTEM: 1987 TO 1992**

Subject	1987	1988	1989	1990	1991	1992
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 <u>1/</u> .	497.55	532.05	543.05	557.05	581.55	597.05
Librarians	133.00	146.00	153.00	162.50	167.50	173.50
All others.....	364.55	386.05	390.05	394.55	414.05	423.55
Hours open <u>2/</u>	54	54	54	54	54	54
Collections, June 30 <u>3/</u> (1,000)	2,073.8	2,225.7	2,320.8	2,391.7	2,605.4	2,769
Circulation, year ended June 30 (1,000).....	6,480.5	6,552.9	6,561.9	6,225.2	6,328.4	6,700

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 1992 include all media except ephemeral material.

Source: Hawaii State Public Library System, Research & Evaluation Services, records.

**Table 3.22-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM
BY DISTRICTS: 1992**

District	Library locations, June 30	Personnel, June 30 ^{1/}	Circulation, year ended June 30	
Total system	49	597.05	6,699,876	
Oahu	23	337.00	4,546,738	
Hawaii State Library	1	102.50	440,077	
East Oahu Library District	12	140.00	2,426,749	
West Oahu Library District	9	94.50	1,679,912	
Library for the Blind and Physically Handicapped	1	15.50	49,521	
Other islands	26	145.55	2,103,617	
Hawaii Library District.....	13	63.55	1,053,574	
Kauai Library District	5	33.50	434,881	
Maui Library District ^{2/}	8	48.50	615,162	
Administration/Centralized Processing Center.....	...	99.00	...	
	Collections, June 30			
District	Books	Periodical subscriptions	Video tapes	Sound recordings ^{3/}
Total system	2,656,614	8,746	10,401	93,493
Oahu	1,830,344	5,918	7,727	64,419
Hawaii State Library	413,639	2,155	1,132	17,680
East Oahu Library District	759,634	1,995	4,452	27,754
West Oahu Library District	533,683	1,625	2,108	15,736
Other islands	826,270	2,828	2,674	29,074
Hawaii Library District.....	369,752	1,503	639	8,544
Kauai Library District	194,600	952	1,092	10,012
Maui Library District ^{2/}	261,918	373	943	10,518
Library for the Blind and Physically Handicapped	123,388 ^{4/}	143	35	3,249 ^{5/}

^{1/} See previous table footnote 1.

^{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 only.

Source: Hawaii State Public Library System, Research & Evaluation Services, records.

Table 3.23-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1991 AND 1992

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1991	1992	1991	1992
All campuses	3,008,359	3,186,131	741,708	848,168
University of Hawaii at Manoa <u>1/</u>	2,500,175	2,651,257	509,749	590,630
University of Hawaii-West Oahu.....	24,575	25,064	6,000	4,426
University of Hawaii at Hilo <u>2/</u>	211,568	213,595	77,924	79,803
Community colleges, total <u>2/</u>	272,041	296,215	148,035	173,309
Honolulu	52,695	53,902	45,264	42,016
Kapiolani.....	44,157	47,881	22,422	33,594
Leeward.....	58,733	72,889	19,524	25,805
Windward.....	36,353	37,610	14,047	14,201
Kauai	42,713	44,883	20,447	28,840
Maui.....	37,390	39,050	26,331	28,853

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

2/ Hawaii Community College and UHH West Hawaii (Kona) 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 crimes known to the police, stolen property, arrests, police personnel, attorneys, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1992 numbered 72,300, compared with 68,100 in 1991 and 65,100 in 1982. The rate per 1,000 resident population declined from 65.5 in 1981 to 61.5 in 1992. Seventy-five percent of the serious crimes in 1992 occurred on Oahu. For the State as a whole, major offenses known to police in 1992 included 42 murders, 440 rapes, 1,151 robberies, 1,365 aggravated assaults, 13,006 burglaries, 50,544 cases of larceny, and 4,351 auto thefts. The value of property reported stolen in 1992 amounted to \$50 million, exclusive of motor vehicles; only 6.3 percent was recovered. Authorities confiscated 478 marijuana plants, with a potential value of \$2.6 to \$3.8 billion, during the year. Confirmed instances of child abuse and neglect numbered 2,257 in 1992. Nineteen percent of the major offenses known to police were cleared by arrest or otherwise during the year. Forty percent of the persons arrested for major crimes and 26 percent of those arrested for lesser offenses in 1992 were less than 18 years of age. The number of inmates in the 10 State correctional institutions averaged 2,600 during fiscal 1992; of this number, 1,434 were adults serving time for felonies. Cases concluded in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1993 numbered 734,000, including 602,000 traffic cases. Filings in the United States District Court for Hawaii in 1992 included 858 civil cases, 1,658 criminal cases, and 1,376 bankruptcy cases. The last legal execution in Hawaii took place in 1947. There were 5,239 attorneys licensed in Hawaii as of mid-1993, more than 11 times the 1960 total. Criminal justice system expenditures amounted to \$363 million in fiscal 1991.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Department of Public Safety (formerly Corrections), and the Administrative Office of the United States Courts. The 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: 1993*, Section 5.

**Table 4.1-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE,
BY COUNTIES: 1982 TO 1992**

[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 1992*, table 109]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate ^{1/}				
1982	65,089	65.5	50,168	5,556	2,520	6,845
1983	59,545	58.8	46,258	4,918	2,310	6,059
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	63,471	59.4	49,314	4,955	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	61.0	51,175	7,518	2,605	6,659
1991	68,116	59.9	51,294	7,279	2,385	7,158
1992	71,258	61.5	53,826	6,940	2,502	7,990

^{1/} Annual rate per 1,000 resident population, July 1.

Source: Crime Prevention Division, Department of the Attorney General. Data compiled 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 1982-1987, and the number of forcible rapes reported in Honolulu in 1989 were compiled from reports to the Uniform Crime Reporting (UCR) Program.

Table 4.2-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1983 TO 1992

[Revised from *Data Book 1992*, table 110]

Offense	1983	1984	1985	1986	1987
All Part I offenses <u>1/</u>	59,545	57,340	55,355	60,652	63,471
Murder	57	34	43	51	51
Manslaughter (neg.) <u>1/</u>	-	-	-	-	-
Forcible rape <u>2/</u>	300	311	312	325	396
Robbery	1,315	1,181	1,041	1,103	1,043
Aggravated assault.....	868	843	913	1,082	1,364
Burglary	13,589	12,552	12,159	14,184	12,500
Larceny	38,585	38,301	37,345	39,935	43,669
Motor vehicle theft	4,343	3,607	2,981	3,486	3,986
Arson <u>3/</u>	488	511	561	486	520
Offense	1988	1989	1990	1991	1992
All Part I offenses	65,665	69,601	67,957	68,116	71,258
Murder	44	53	44	45	42
Manslaughter (neg.) <u>1/</u>	2	1	2	1	-
Forcible rape <u>2/</u>	353	353	352	375	440
Robbery	914	908	1,016	986	1,151
Aggravated assault.....	1,502	1,427	1,605	1,338	1,365
Burglary	13,665	14,879	13,577	14,011	13,006
Larceny	44,859	47,204	46,699	47,195	50,544
Motor vehicle theft	3,927	4,385	4,224	3,814	4,351
Arson <u>3/</u>	520	391	438	351	359

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 1983-1987 arson statistics for Honolulu.

Source: Compiled by Crime Prevention Division, Department of the Attorney General, 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 4.3-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES
CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE:
1982 TO 1992**

[Revised]

Year	Actual offenses known to police		Number cleared by arrest or otherwise <u>1/</u>		Clearances per 100 offenses <u>1/</u>	
	Part I	Part II, except traffic <u>2/</u>	Part I	Part II, except traffic <u>2/</u>	Part I	Part II, except traffic <u>2/</u>
1982	65,089	92,582	11,468	57,867	17.6	62.5
1983	59,545	87,927	11,081	59,202	18.6	67.3
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	63,471	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

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 1982-1988 and 1991. All traffic cases excluded for 1989, 1990, and 1992.

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

**Table 4.4-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES
CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY
COUNTIES: 1992**

County	Actual offenses known to police		Number cleared by arrest or otherwise		Percent cleared	
	Part I <u>1/</u>	Part II <u>2/</u>	Part I <u>1/</u>	Part II <u>2/</u>	Part I <u>1/</u>	Part II <u>2/</u>
State total	71,258	120,345	13,270	79,096	18.6	65.7
Honolulu	53,826	87,695	8,847	58,113	16.4	66.3
Hawaii.....	6,940	11,098	2,111	6,624	30.4	59.7
Kauai.....	2,502	4,465	534	2,149	21.3	48.1
Maui.....	7,990	17,087	1,778	12,210	22.3	71.5

1/ Includes arson.

2/ Excludes traffic offenses.

Source: Crime Prevention Division, from data provided by county police departments.

**Table 4.5-- MARIJUANA CONFISCATED OR DESTROYED BY
AUTHORITIES, BY COUNTIES: 1993**

Subject	State total	Hawaii	Maui	Honolulu	Kauai
Plants, total.....	829,489	634,667	134,846	10,549	49,427
By police depts.	337,018	209,208	85,729	10,549	31,532
By DLNR	492,471	425,459	49,117	-	17,895
Value, total <u>1/</u> (mil. dol.)..	995	762	162	13	59
By police depts.	404	251	103	13	38
By DLNR	591	511	59	-	21

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, May 13, 1994.

Table 4.6-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1992

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise <u>1/</u>		Percent cleared	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	71,258	53,826	13,270	8,847	18.6	16.4
Murder	42	31	33	21	78.6	67.7
Manslaughter (neg.) ...	-	-	-	-	...	...
Rape	440	326	277	217	63.0	66.6
Robbery	1,151	1,013	300	252	26.1	24.9
Aggravated assault.....	1,365	1,012	683	415	50.0	41.0
Burglary	13,006	9,106	1,709	1,067	13.1	11.7
Larceny	50,544	38,563	9,449	6,310	18.7	16.4
Auto theft	4,351	3,507	779	542	17.9	15.5
Arson	359	268	40	23	11.1	8.6

1/ Includes offenses committed in prior years.

Source: Crime Prevention Division from data provided by county police departments.

Table 4.7-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR COUNTIES: 1992

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	12,744	9,136	1,887	1,197	524
Juveniles	5,061	3,614	803	384	260
Male.....	3,773	2,700	601	286	186
Female.....	1,288	914	202	98	74
Adults	7,683	5,522	1,084	813	264
Male.....	5,796	4,146	796	650	204
Female.....	1,887	1,376	288	163	60
PART II OFFENSES (EXCEPT TRAFFIC)					
Total	52,312	39,879	4,708	4,774	2,951
Juveniles	13,795	10,555	1,455	953	832
Male.....	8,211	6,214	881	598	518
Female.....	5,584	4,341	574	355	314
Adults	38,517	29,324	3,253	3,821	2,119
Male.....	31,626	24,022	2,675	3,196	1,733
Female.....	6,891	5,302	578	625	386

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

Table 4.8-- CHILD ABUSE AND NEGLECT REPORTS: 1984 TO 1992

[1984-1991 Revised from *Data Book 1992*, table 116]

Subject	1984	1985	1986	1987	1988	1989	1990	1991	1992
Reports.....	4,388	4,359	4,900	4,741	3,893	4,054	4,407	4,365	4,138
Confirmed.....	2,180	2,391	2,629	2,555	2,315	2,386	2,392	2,318	2,257

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

Table 4.9-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1982 TO 1992

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
1982	12,524.0	8,328.0	66.5	26,001.2	2,028.3	7.8
1983	13,904.4	9,474.9	68.1	25,941.6	2,151.1	8.3
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

^{1/} Annual data include prior years' stolen property recovered in current year.

Source: Crime Prevention Division, data from Uniform Crime Reports.

Table 4.10-- VALUE OF PROPERTY STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY COUNTIES: 1992

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
Value of property stolen (\$1,000)	57,993.8	42,420.4	4,464.2	8,047.9	3,061.4
Motor vehicles	7,806.9	3,427.3	789.1	2,634.3	956.1
Other property	50,186.9	38,993.1	3,675.0	5,413.6	2,105.3
Value of stolen property recovered ^{1/} (\$1,000)	9,617.0	4,422.1	1,016.8	3,099.7	1,078.3
Motor vehicles	6,439.5	2,688.8	620.2	2,314.0	816.4
Other property	3,177.5	1,733.3	396.6	785.7	261.9
Percent of value recovered	16.6	10.4	22.8	38.5	35.2
Motor vehicles	82.5	78.5	78.6	87.8	85.4
Other property	6.3	4.4	10.8	14.5	12.4

^{1/} See previous table, footnote 1.

Source: Crime Prevention Division, data from Uniform Crime Reports.

Table 4.11-- CRIME RATES FOR THE UNITED STATES AND HAWAII: 1991

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

Type of offense	U.S. rate	Hawaii rate	Hawaii rank ^{1/}
All offenses	5,898	5,970	17
Violent crime.....	758	242	44
Property crime.....	5,140	5,729	8

^{1/} Out of 50 States and D. C.

Source: *Statistical Abstract of the United States: 1993* (1993), p. 193.

Table 4.12-- POLICE PERSONNEL, BY COUNTIES: MAY 1993

Year and status	State total	Honolulu	Hawaii	Kauai	Maui
Total	3,315	2,275	458	185	397
Sworn, active.....	2,503	1,741	325	135	302
Sworn, reserve	112	81	12	19	(NA)
Not sworn	700	453	121	31	95

NA Not available.

Source: County police departments, records.

Table 4.13-- STATE AND COUNTY GOVERNMENT EMPLOYMENT AND EXPENDITURES FOR CRIMINAL JUSTICE ACTIVITIES: 1991

Subject	Total	Police protection	Correction	Judicial and legal
Full-time equivalent employment, October.....	<u>1/</u> 5,141	3,255	1,886	...
Expenditures, fiscal year (mil. dol.)	<u>2/</u> 363	148	92	123

1/ Excludes judicial and legal employment, not reported.

2/ Per capita expenditures were \$320, 11th highest of the 50 States; the U.S. average was \$299.

Source: Data from U.S. Bureau of the Census, cited in *Statistical Abstract of the United States: 1993*, p. 203.

**Table 4.14-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:
1991 TO 1993**

[As of June 30]

Subject	1991	1992	1993
Federal judges and magistrates: <u>1/</u>			
U.S. Bankruptcy Court.....	1	1	1
U.S. District Court.....	11	9	11
State justices and judges: <u>2/</u>			
Supreme Court.....	5	5	5
Intermediate Court of Appeals.....	3	3	3
Circuit Courts <u>3/</u>	24	25	26
Assigned to Family Court.....	1	1	1
District Courts <u>4/</u>	35	35	35
Assigned to Family Court.....	9	9	13
Land Court.....	(5/)	(5/)	(5/)
Tax Appeal Court.....	(5/)	(5/)	(5/)
Attorneys licensed in Hawaii <u>6/</u>	4,969	5,024	5,239

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 one judge 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. Earlier totals for attorneys licensed in Hawaii are as follows: June 30, 1960, 432; June 30, 1970, 759; June 30, 1980, 2,202; June 30, 1990, 4,768.

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

**Table 4.15-- UNITED STATES DISTRICT COURT CASES:
1989 TO 1992**

[Years ended June 30]

Subject	1989	1990	1991	1992 ^{3/}
Civil cases:				
Commenced (filings)	983	1,025	784	858
Terminated	1,471	1,148	823	1,465
Pending, end of period	1,919	1,756	1,717	994
Criminal cases: ^{1/}				
Commenced (filings)	1,447	1,758	1,892	1,658
Terminated	1,237	1,483	1,466	1,359
Pending, end of period	748	1,006	1,427	1,475
Bankruptcy:				
Commenced (filings), total	855	909	964	1,376
Business ^{2/}	117	103	75	139
Nonbusiness	738	806	889	1,237
Terminated	1,079	1,152	1,014	1,506
Pending, end of period	1,686	1,432	1,382	1,221

^{1/} Excludes transfers.

^{2/} Business filings for 1991 may be understated because of improper classification of cases in the automated docketing system.

^{3/} Year ended September 30.

Source: *Annual Report of the Director, Administrative Office of the United States Courts*. Appendix, Statistical Tables.

Table 4.16-- STATE JUDICIARY TERMINATIONS: 1988 TO 1993

[Years ended June 30]

Court and type of case	1988	1989	1990	1991	1992	1993
Supreme Court <u>1/</u>	2,883	3,046	2,170	2,350	2,409	2,649
Civil cases.....	247	246	199	179	184	126
Criminal cases.....	287	427	266	333	233	95
Other proceedings.....	2,349	2,373	1,705	1,838	1,992	2,428
Intermediate Court of						
Appeals <u>2/</u>	188	186	186	196	249	188
Civil cases.....	68	78	32	35	41	31
Criminal cases.....	60	59	56	54	97	89
Other proceedings.....	60	49	98	107	111	68
Circuit Courts proper.....	11,321	15,079	15,644	14,061	16,152	14,724
Civil cases.....	4,977	5,405	6,418	6,421	7,095	7,368
Criminal cases.....	2,752	2,951	3,567	2,936	3,610	3,665
Part I offenses.....	1,013	1,126	1,211	1,044	1,433	1,370
Part II offenses.....	1,739	1,825	2,356	1,892	2,177	2,295
Other proceedings.....	3,592	6,723	5,659	4,704	5,447	3,691
Family Courts.....	34,433	34,450	48,438	39,342	47,661	51,015
Civil cases.....	11,709	11,301	20,128	12,977	12,497	12,161
Criminal cases.....	309	2,395	3,027	3,373	5,274	4,269
Other proceedings.....	22,415	20,754	25,283	22,992	29,890	34,585
District Courts.....	771,287	892,480	897,864	974,031	869,581	666,042
Civil cases.....	21,643	24,179	21,968	17,872	29,314	24,103
Traffic cases.....	708,365	821,080	824,692	903,331	790,361	595,178
Other violations.....	9,284	10,565	10,984	11,811	11,349	7,728
Criminal cases.....	31,995	36,656	40,220	41,017	38,557	39,033
Part I offenses.....	5,208	5,186	5,778	5,770	5,849	5,894
Part II offenses.....	26,787	31,470	34,442	35,247	32,708	33,139

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 120 in 1988, 138 in 1989, 139 in 1990, 123 in 1991, 253 in 1992, and 311 in 1993.

2/ Data exclude cases transferred back to the Supreme Court: 1 in 1987 and 2 in 1992.

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

**Table 4.17-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1991 TO 1993**

[Years ended June 30]

Court and type of action	1991	1992	1993
Supreme Court, total	2,622	2,686	3,243
Primary cases	811	794	916
Appeals	756	730	838
Original proceedings	55	64	78
Supplemental proceedings	1,811	1,892	2,327
Intermediate Court of Appeals, total	193	338	370
Primary cases	123	257	311
Appeals	123	257	311
Supplemental proceedings	70	81	59
Circuit Courts Proper, total	15,116	16,794	16,692
Primary proceedings	14,689	16,794	16,692
Civil actions	6,070	6,530	7,359
Probate proceedings	1,583	1,561	1,602
Guardianship proceedings	521	507	486
Miscellaneous proceedings	1,996	1,707	1,682
Criminal actions	4,519	6,489	5,563
Part I offenses	1,414	1,963	1,601
Part II offenses	3,105	4,526	3,962
Supplemental proceedings	427	(1/)	(1/)
Family Courts, total	43,596	48,883	55,689
Primary proceedings, referrals	37,194	42,627	46,208
Marital actions, proceedings	6,171	6,441	6,461
Adoption proceedings	620	687	567
Parental proceedings	1,690	1,580	1,897
Miscellaneous proceedings	3,714	4,204	4,907
Criminal actions	4,816	5,094	5,353
Adults' referrals	4,179	6,224	6,437
Children's referrals	15,365	17,851	19,848
Supplemental proceedings	6,402	6,256	9,481

Continued on next page.

**Table 4.17-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1991 TO 1993 -- Con.**

Court and type of action	1991	1992	1993
District Court, total.....	970,084	853,014	723,588
Civil	23,348	26,947	24,279
Regular civil	18,959	21,266	19,175
Small claims.....	4,389	5,681	5,104
Traffic.....	892,555	774,983	647,343
Moving - arrest and citation	207,600	195,842	142,700
Non-moving	130,084	128,209	120,979
Parking.....	554,871	450,932	383,664
Other violations	11,625	11,788	10,389
Criminal actions.....	42,556	39,296	41,577
Part I offenses.....	6,074	6,085	6,562
Part II offenses.....	36,482	33,211	35,015

Source: The Judiciary, State of Hawaii, Annual Report, Statistical Supplement for 1991, 1992; The Judiciary, State of Hawaii, Annual Report, July 1, 1992 to June 30, 1993.

**Table 4.18-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:
ANNUAL AVERAGES, 1983 TO 1993**

[Mean head count for fiscal years ended June 30]

Year	Total <u>1/</u>	Adult facilities <u>2/</u>				Juvenile facilities <u>3/</u>	
		Sentenced felons	Sentenced jail <u>4/</u>	Not sentenced	Technical violators <u>5/</u>	Boys	Girls
1983	1,402	812	120	391	...	73	6
1984	1,652	974	166	435	...	71	6
1985	1,898	1,223	204	392	...	72	7
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	2,824	1,480	294	647	297	58	6

1/ Includes "other jurisdiction" population, not separately shown (42 in 1993).

2/ As of 1993, 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.

3/ Hawaii Youth Correctional Facility.

4/ Includes felon probationers serving jail terms under one year.

5/ Consists of parole and probation violators, previously included in the "Not Sentenced" category.

Source: Hawaii State Department of Public Safety, records; Hawaii Youth Correctional Facility, records.

Table 4.19-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED FELON POPULATION: 1983 TO 1993

[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) <u>1/</u>		Average sentences (months)		
	At admission	Currently as of June 30	Felons admitted		Felons released: time served
			Minimum	Maximum	
1983	27.5	29.2	49.2	127.2	47.5
1984	27.9	30.3	53.8	142.2	46.2
1985	29.3	28.2	47.5	145.7	42.7
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	49.9	140.5	43.2
1992	31.9	34.6	42.6	128.5	38.7
1993	32.3	34.1	46.3	119.5	36.7

1/ For sentenced felon population on June 30.

Source: Hawaii State Department of Public Safety, *A Statistical Report on Hawaii's Sentenced Felons, Fiscal Years 1985-86 to 1989-90* (July 1992), and records.

**Table 4.20-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:
1989 AND 1990**

[Years ended June 30]

Item	1989	1990
Number of parolees, June 30 ^{1/}	1,217	1,416
Parolees in Hawaii.....	820	945
Parolees outside Hawaii.....	219	260
Absconders and suspensions (cumulative).....	178	211
Minimum imprisonment terms fixed.....	1,027	1,611
Number of persons for whom terms fixed.....	722	926
Persons considered for parole.....	605	805
Paroles tentatively granted.....	463	547
Paroles denied.....	142	141
Parole violation hearings.....	231	345
Parole revocations.....	170	230
Continued on parole.....	12	82
Deferred decision/hearing.....	25	33
Pardon investigations.....	21	26
Persons pardoned.....	18	19
Persons whose paroles were suspended because their whereabouts unknown.....	88	108
Discharges.....	135	160
Discharged from parole.....	94	114
Final discharge.....	33	43
Deceased.....	1	1
Administrative ^{2/}	6	2

^{1/} In addition, provided courtesy supervision to 46 interstate cases on June 30, 1989, and 46 on 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, *1990 Annual Report, Hawaii Paroling Authority*.

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.

The State consists of eight major islands and 124 minor islands with a total land area of 6,423 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Puu Wekiu on Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the most extensive lake or similar body is Kawainui Marsh, 1,000 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. The 159 major beaches and streams surveyed in 1992 were found to have enterococci levels per 100 ml. ranging from 0.6 to 233.1, and 82 percent were within EPA standards. More than 500 species, subspecies, and varieties of native fauna and flora have been proposed or accepted for inclusion on lists of endangered, threatened, or extinct organisms.

Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 94°F. Average precipitation, however, ranges from less than nine inches at Kawaihae to 444 inches atop Waialeale. The volcanic eruption that began in 1983 had produced more than 1.4 billion cubic meters of lava by February 1992. Hawaii's worst recorded earthquake (1868) attained 7.5 on the Richter scale by retrospective estimate, the highest tsunami wave (1946) reached 56 feet, and the most destructive hurricane (Iniki, 1992) gusted to 143 miles per hour. Water withdrawn for use in 1990 averaged 1.4 billion gallons per day, compared with 2.9 billion in 1980 and 2.8 billion in 1975.

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water Resource Management of the State Department of Land and Natural Resources, the 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 *Statistical Abstract of the United States: 1993*, Section 6.

Table 5.1-- 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
Hong Kong.....	5,541	4,815	8,915
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
North and South American locations:			
Anchorage, Alaska	2,781	2,417	4,475
Cape Horn, Chile.....	7,457	6,480	11,998

Continued on next page.

Table 5.1-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES -- Con.

Places	Statute miles	Nautical miles	Kilometers
DISTANCES FROM HONOLULU INT. AIRPORT--Con.			
North and South American locations, con.:			
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.

**Table 5.2-- TIME DIFFERENTIALS BETWEEN HONOLULU AND
SELECTED CITIES: 1993**

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: Hawaiian Telephone Company, *Oahu Telephone Book 1992-1993*, p. 38; consulates; airlines.

Table 5.3-- WIDTHS AND DEPTHS OF CHANNELS

Channel <u>1/</u>	Width <u>2/</u>		Depth <u>3/</u>	
	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-Niihoa	133.9	215.5	14,550	4,435
Niihoa-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-Marō Reef	155.5	250.3	12,300	3,749
Marō 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 5.4-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline <u>1/</u>		Tidal shoreline <u>2/</u>	
	Statute miles	Kilometers <u>3/</u>	Statute miles	Kilometers <u>3/</u>
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: <u>4/</u>				
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 <u>5/</u> ...	25	40	25	40
Niihau.....	3	5	3	5
Necker Island.....	2	3	2	3
French Frigate Shoals.....	6	10	6	10
Laysan Island.....	6	10	6	10
Lisianski Island.....	3	5	3	5
Kure Atoll.....	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ 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 5.5-- 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 5.6-- 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 <u>1/</u>	35.9	4.4	3.6	-	19.0	8.9
Territorial water <u>2/</u> .	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 <u>1/</u>	92.9	11.5	9.3	-	49.2	22.9
Territorial water <u>2/</u> .	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 <u>1/</u>	22,976	2,816	-	2,304	12,160	5,696
Territorial water <u>2/</u> .	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 5.7-- LAND AREA OF ISLANDS: 1990

Island	Square miles <u>1/</u>	Square kilometers	Acres <u>1/</u>
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 <u>2/</u>	3.108	8.049	1,989
Niihoa	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 <u>3/</u>			
Johnston Atoll <u>4/</u>	0.5	1.3	320
Kingman Reef <u>4/</u>	3.0	7.8	1,920
Midway Islands.....	0.55	1.42	352
Palmyra Atoll <u>4/</u>	4.0	10.4	2,560

1/ Areas in square miles and acres were calculated directly from measurements in .001 square kilometer 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.

4/ 1980 measurement.

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; Summary Tape File 1B; and letter from Geography Division, March 30, 1992.

Table 5.8-- 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 1.5.

^{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 5.9-- MAJOR NAMED WATERFALLS, BY ISLANDS: 1994

Island	Waterfall	Height (feet)		Horizontal distance (feet)
		Sheer drop	Cascade	
Hawaii.....	Kaluahine .....	...	620	400
	Akaka	442	...	...
Maui.....	Honokohau.....	...	1,120	500
Molokai.....	Kahiwa .....	...	1,750	1,000
	Papalaua.....	...	1,200	500
Oahu.....	Kaliuwaa (Sacred).....	^{1/} 80	1,520	3,000
Kauai	Waipoo (2 falls).....	...	800	600
	Awini.....	...	480	500

^{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.

Table 5.10-- ELEVATIONS OF MAJOR SUMMITS

[Elevation of the highest point on each island and other important peaks]

Island and summit	Feet	Meters
Hawaii:		
Mauna Kea <u>1</u> /	13,796	4,205
Mauna Loa <u>2</u> /	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 5.10-- 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 *1991 Guinness Book of World Records* (p. 142), "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 33,476 ft., of which 13,796 ft. are above sea level."

^{2/} *Guinness* (pp. 142-143) describes Mauna Loa as having "dimensions, but not height, [which] exceed those of Mt. Everest ... The axes of its elliptical base, 16,322 ft. below sea level, have been estimated at 74 miles and 53 miles."

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 5.11-- MAJOR STREAMS, BY ISLANDS: 1994

Island	Feature or stream	Length or average discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kaliialinui-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): <u>1/</u>		
Hawaii	Wailuku River	22.7
Maui.....	Paliikea Stream	7.8
Molokai	Wailau-Pulena Stream.....	6.5
Oahu	Kaukonahua Stream.....	30.0
Kauai.....	Waimea River.....	19.7
Streams with greatest average discharge <u>2/</u> (million gal./day):		
Hawaii.....	Wailuku River	250
Maui.....	Iao Stream.....	43
Molokai	Wailau Stream.....	30
Oahu.....	Waikele Stream.....	<u>3/</u> 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 5.12-- 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
Kaelepuu Pond	Lake	(SL)	198	(NA)
Kawainui Marsh	Marsh	(SL)	1,000	(NA)
Wahiawa Reservoir	Reservoir	842	302	85
Kauai:				
Nomilu Fishpond	Pond	(SL)	20	66
Waita Reservoir	Reservoir	241	424	23
Niihau:				
Halalii Lake	Playa	(SL)	841-865	(NA)
Halulu Lake	Playa	(SL)	182-371	(NA)
Laysan:				
Laysan Lagoon	Closed lagoon	(SL)	161	16

NA Not available.

SL Sea level.

^{1/} Ranges shown for Meyer Lake, Halalii Lake, and Halulu Lake reflect differences in estimates between sources.

^{2/} Highest lake in the State and third highest in the United States.

Source: J.A. Maciolek, *Lakes and Lake-like Waters of the Hawaiian Archipelago* (Bernice P. Bishop Museum, Occasional Papers, Vol. XXV, No. 1, April 30, 1982); *Data Book 1992*, table 143; Hawaii State Department of Land and Natural Resources, Division of Water Resource Management, May 18, 1994.

Table 5.13-- 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
Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
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	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	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 World Records* (1991 edition, p. 148) as "the highest sea cliffs yet pinpointed anywhere 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 5.14-- VOLCANIC ERUPTIONS: 1969 TO 1993

[Complete through December 31, 1993. 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	4,015	ER	780-650	83.4	1,436

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

^{2/} Still in progress, December 31, 1993. As of that time, there had been 53 separate episodes. These had destroyed 181 housing units and added 491 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, as updated by the staff of the Hawaiian Volcano Observatory.

**Table 5.15-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER:
1975 TO 1993**

[Complete to January 26, 1993]

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
Jun. 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: Jun. 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
1993: Jan. 26, 5:24 AM.....	Near Pahala, Hawaii	5.0

Source: Hawaii Institute of Geophysics, records; Hawaii Volcano Observatory Summaries; U.S. Geological Survey, National Earthquake Information Service; *Honolulu Advertiser*, January 27, 1993. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii at Manoa, January 14, 1993.

**Table 5.16-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:
1946 TO 1993**

[Complete to January 13, 1993]

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, Environmental Center, June 1987), p. 39; Hawaii Institute of Geophysics, records.

Table 5.17-- 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 5.18-- 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 5.19-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1992 AND 1993

Geographic area	Number of services, June 30		Consumption (million gallons) ^{1/}	
	1992	1993	1992	1993
State total	216,001	(NA)	74,118	(NA)
City and County of Honolulu.....	143,615	145,626	51,241	51,033
Honolulu ^{2/}	60,564	60,691	26,734	26,357
Rest of Oahu.....	83,051	84,935	24,507	24,676
Hawaii County	31,564	31,982	8,025	7,937
Kauai County	15,414	15,466	4,453	4,056
Maui County	25,408	(NA)	10,399	(NA)
Maui	23,957	(NA)	10,071	(NA)
Molokai.....	1,451	(NA)	328	(NA)

NA Not available.

^{1/} Year ended June 30.

^{2/} Maunaloa to Moanalua.

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

**Table 5.20-- ENVIRONMENTAL QUALITY INDEXES AND RANKS:
1988-1989**

Measure	Median State	Hawaii	Hawaii rank ^{1/}
Air pollution standard index, 1989 ^{2/}	100	44	4
Toxic chemicals released, 1988 (pounds per person) ^{2/}	20	3	2
Unsafe drinking water, 1988 (percent of population) ^{3/}	9	3	7

^{1/} States were ranked from 1 (best) to 50 (worst).

^{2/} EPA data.

^{3/} Percent of population served by community drinking systems not in compliance with Safe Drinking Water Act of 1974 and 1986, from National Wildlife Federation.

Source: Northwestern National Life Insurance Company, *The NWNL State Health Rankings, 1991 Edition*, pp. 46-48.

Table 5.21-- POLLUTION ABATEMENT CAPITAL EXPENDITURES AND OPERATING COSTS: 1988 TO 1992

[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:						
1988	(NA)	7.9	3.5	(D)	(D)	(NA)
1989	(NA)	(D)	(D)	(D)	(D)	(NA)
1990	(NA)	23.2	12.6	(D)	(D)	(NA)
1991	(NA)	4.0	1.8	(D)	(D)	(NA)
1992	2.9	2.8	.5	2.3	-	(Z)
Operating costs:						
1988	(NA)	16.2	4.8	5.9	5.5	(NA)
1989	(NA)	7.0	3.2	2.5	1.3	(NA)
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

D Withheld to avoid disclosing operations of individual companies.

Z Less than half the unit shown.

NA Not available.

Source: U.S. Bureau of the Census, "Pollution Abatement Costs and Expenditures, 1992," *Current Industrial Reports*, MA200(92)-1, March 1994, table 2.

**Table 5.22-- WATER QUALITY AT PUBLIC BEACHES, BY ISLANDS:
1992 AND 1993**

Island	Number of locations	Number of samples	Enterococci density ^{1/}			
			Lowest ^{2/}	Highest ^{3/}	Number over 7	Mean ^{4/}
1992						
State total	159	3,252	0.6	233.1	28	3.0
Hawaii.....	45	596	0.8	64.5	10	3.1
Hilo Shoreline	22	231	1.0	64.5	8	5.8
Kona Shoreline..	23	365	0.8	13.1	2	2.0
Maui.....	31	320	0.7	12.7	1	1.4
Lanai.....	2	12	1.1	1.5	-	1.3
Molokai.....	2	14	4.5	35.4	1	12.6
Oahu.....	52	2,008	0.6	233.1	10	3.2
Kauai	27	302	0.7	45.5	6	3.1
1993						
State total	157	2,554	0.7	126.0	25	3.1
Hawaii.....	39	504	1.1	71.8	5	2.7
Hilo Shoreline	16	159	2.0	71.8	3	3.6
Kona Shoreline..	23	358	1.1	17.8	2	2.3
Maui.....	31	349	1.0	14.7	2	2.1
Lanai.....	2	8	1.0	1.9	-	1.4
Molokai.....	2	4	21.9	50.8	2	33.4
Oahu.....	53	1,479	0.9	126.0	7	3.7
Kauai	30	197	0.7	101.8	4	2.4

^{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 1992 was that reported for two Oahu locations, the northern region of Kaneohe Bay and Mamala Bay (Sand Island Offshore). In 1993, the lowest average value was that reported for Breuncke Beach on Kauai.

^{3/} The highest average value in both 1992 and 1993 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 5.23.-- WATER QUALITY AT SELECTED PUBLIC BEACHES:
1992 AND 1993**

Island and beach	Number of samples		Enterococci density ^{1/}	
	1992	1993	1992	1993
Hawaii:				
Hapuna Beach.....	16	13	1.1	1.6
Kahaluu Beach.....	21	23	2.2	1.6
Kealakekua Bay (curio stand).....	14	10	0.8	2.2
Hilo Bay (Mooheau Park).....	10	0	2.1	-
Spencer Beach Park.....	16	13	2.1	2.2
Maui:				
Kapalua (Fleming) Beach (north)....	10	11	0.8	2.5
Kihei (north).....	11	12	0.9	1.1
Makena Beach.....	11	11	1.0	1.5
Seven Pools.....	5	10	2.5	1.0
Sheraton Kaanapali (shoreline).....	9	11	0.9	1.1
Lanai:				
Hulopoe Bay.....	6	4	1.1	1.0
Molokai:				
Kaunakakai Harbor.....	7	2	4.5	50.8
Oahu:				
Ala Moana Park (center).....	15	24	3.6	2.0
Ewa Beach Park.....	49	40	1.8	2.5
Haleiwa Beach.....	35	23	3.8	2.5
Hanauma Bay.....	48	38	6.8	6.5
Kailua Beach Park.....	49	38	3.2	3.1
Kuhio Beach.....	46	39	11.3	9.4
Makaha Beach.....	48	40	1.2	1.7
Waimea Beach.....	47	39	1.5	3.3
Kauai:				
Anini Park Pavilion.....	13	7	4.6	1.6
Kalapaki Beach.....	12	7	7.5	4.9
Kekaha (Oomano Pt.).....	10	7	1.1	1.0
Poipu Beach Pavilion.....	10	7	2.0	3.1
West of Lydgate Park (wading pool)	8	7	0.8	1.0

^{1/} See previous table, footnote 1.

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

**Table 5.24-- REFUSE AND SEWAGE STATISTICS FOR OAHU:
1983 TO 1993**

[Fiscal years]

Year	Tons of municipal solid waste delivered <u>1/</u>			Sewage treated <u>2/</u> (millions of gallons)
	Total	City and County refuse vehicles	Other vehicles	
1983	626,835	360,545	266,290	37,395
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

Year	Sewage pumped <u>2/</u> (millions of gallons)	Miles of sewers <u>2/</u>	City and County pump stations	City and County treatment plants
1983	48,442	1,670	52	20
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

1/ Excludes small landfill controlled by armed forces.

2/ Data limited to system maintained by the City and County of Honolulu Public Works Department.

Source: City and County of Honolulu, *Departmental and Agency Reports* (annual), and City Refuse Division, records.

Table 5.25-- 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 5.26-- AIR QUALITY IN DOWNTOWN HONOLULU: 1982 TO 1992

[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
1982.....	29	11	1989.....	30	<5
1983.....	26	<5	1990.....	30	<5
1984.....	25	<5	1991.....	30	<5
1985.....	24	<5	1992.....	28	<5
1986.....	25	<5	Standards.....	60	80
1987.....	26	<5			
1988.....	26	<5			

Source: Hawaii State Department of Health, Clean Air Branch, data supplied May 20, 1993.

Table 5.27-- AIR QUALITY AT SPECIFIED LOCATIONS: 1992

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

Sampling station	Total suspended particulates ^{1/}			Sulfur dioxide		
	Annual range		Arithmetic average	Annual range		Arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Downtown Honolulu...	14	88	28	<5	<5	<5
Liliha	20	46	30	...	...	...
Pearl City	8	32	16	...	...	...
Kapolei.....	8	164	27*	...	...	...
Makaiwa .....	...	...	...	0	27	4
West Beach	7	43	15	...	...	...
Waimanalo.....	6	28	17	...	...	...
Maui:						
Lahaina.....	7	23	13	...	...	...
Kauai:						
Lihue.....	9	32	18	...	...	...

^{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 May 20, 1993.

Table 5.28-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT MAUNA LOA: ANNUAL MEAN VALUES, 1958 TO 1992

[Parts per million]

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

1/ Based on data for 8 months.

2/ Based on data for 9 months.

3/ Based on data for 11 months.

Source: National Oceanic and Atmospheric Administration, Geophysical Monitoring for Climatic Change, records; provided by Saul Price, National Weather Service, Pacific Region, Honolulu.

Table 5.29-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°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	37	85	101
Naalehu	675	70.2	75.2	55	90	47
Kailua	30	72.1	77.3	54	93	25
Puako 1/.....	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 2/.....	13,796	31.3	42.5	11	66	20
Maui:						
Hana	120	71.3	76.8	50	90	69
Haleakala summit	10,025	42.6	50.0	14	73	44
Kihei 3/.....	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	93	15
Molokai:						
Kaunakakai	10	(NA)	(NA)	(NA)	(NA)	14
Molokai Airport.....	450	70.2	77.6	48	90	27
Lanai:						
Lanai City	1,620	65.8	72.8	46	88	37

Continued on next page.

Table 5.29-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°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	71.9	80.6	51	93	25
Manoa (Lyon Arboretum).....	500	69.4	75.2	(NA)	(NA)	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	72.4	79.4	50	93	35
Kekaha.....	9	71.0	78.5	48	95	21
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	83	70
Northwestern Hawaiian Islands:						
Midway.....	10	65.0	78.6	52	89	44

NA Not available.

1/ Temperature data are for Mahukona.

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

3/ Temperature data refer to Puunene Airport.

Source: Hawaii State Department of Land and Natural Resources, Division of Water Resource Management, data supplied September 27, 1993.

Table 5.30-- CLIMATIC NORMALS, MEANS, AND EXTREMES FOR HILO, KAHULUI, HONOLULU, AND LIHUE AIRPORTS

Subject	Hilo	Kahului	Honolulu	Lihue
Normal temperatures (°F.):				
Daily maximum	81.2	83.8	84.2	81.1
Daily minimum	65.9	67.2	69.7	69.3
Monthly: Coolest month	71.2	71.5	72.6	71.3
Warmest month	75.9	79.2	81.0	79.1
Annual	73.6	75.5	77.0	75.2
Extreme temperatures (°F.):				
Record highest	94	96	94	90
Record lowest	53	48	53	50
Normal degree days, base 65°F				
Heating	-	-	-	-
Cooling	3,134	3,851	4,389	3,758
Precipitation (inches):				
Normal	128.15	19.85	23.47	44.02
Maximum monthly	50.82	14.46	20.79	22.91
Minimum monthly	0.28	0.00	T	T
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	12.3
Fastest observation, 1 minute ^{1/}	35	44	46	84
Percent of possible sunshine	41	67	69	57
Mean number of days:				
Clear	35.6	130.9	90.4	55.9
Partly cloudy	131.0	144.3	180.1	183.0
Cloudy	198.7	90.1	94.7	126.4
Precipitation .01 inch or more	278.3	100.3	98.4	200.4

T Trace amount.

^{1/} Kahului figure refers to fastest mile.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1993* for Hilo, Kahului, Honolulu, and Lihue.

Table 5.31-- 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	79.9	65.3	72.6	87	53	3.79	14.74	0.18	6.72
February	80.4	65.3	72.9	88	53	2.72	13.68	0.06	6.88
March.....	81.4	67.3	74.4	88	55	3.48	20.79	0.01	17.07
April.....	82.7	68.7	75.7	89	57	1.49	8.92	0.01	4.21
May.....	84.8	70.2	77.5	93	60	1.21	7.23	0.05	3.44
June.....	86.2	71.9	79.1	92	65	0.49	2.46	T	2.28
July	87.1	73.1	80.1	92	66	0.54	2.33	0.03	2.20
August.....	88.3	73.6	81.0	93	67	0.60	3.08	T	2.35
September	88.2	72.9	80.6	94	66	0.62	2.74	0.05	1.40
October.....	86.7	72.2	79.5	94	61	1.88	11.15	0.11	7.57
November.....	83.9	69.2	76.6	93	57	3.22	14.72	0.03	9.15
December.....	81.4	66.5	74.0	89	54	3.43	17.29	0.06	8.25
Annual.....	84.2	69.7	77.0	94	53	23.47	20.79	T	17.07

Continued on next page.

Table 5.31-- 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 <u>2/</u>	Mean number of days		
	8 A.M.	2 P.M.	Mean speed	Fastest obs. <u>1/</u>			Clear	Cloudy	Precip. .01 inch or more
January	81	61	9.5	32	64	5.4	9.4	8.5	9.5
February	78	59	10.2	35	66	5.5	8.2	7.7	9.2
March	73	57	11.4	30	70	5.8	7.5	9.4	8.8
April	69	55	11.8	31	69	6.1	5.7	9.9	8.8
May	67	53	11.8	30	70	5.9	6.5	9.1	7.3
June	66	52	12.7	26	72	5.5	6.4	6.4	5.8
July	67	51	13.2	28	75	5.3	7.6	5.2	7.3
August	68	52	12.8	28	76	5.2	8.2	6.0	6.3
September	68	52	11.2	38	76	5.2	8.2	5.7	7.0
October	70	55	10.5	25	69	5.7	7.4	8.5	8.8
November	75	58	10.7	46	62	5.7	7.2	9.1	9.2
December	79	60	10.4	33	61	5.6	8.2	9.2	10.3
Annual	72	55	11.3	46	69	5.6	90.4	94.7	98.4

T Trace amount.

1/ Fastest observation, 1 minute, 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, 1993.*

**Table 5.32-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT:
ANNUALLY, 1983 TO 1993**

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1983.....	77.2	71.3	82.4	53	92	5.03
1984.....	78.1	74.1	81.7	57	94	17.08
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
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		
1983.....	75	52	9.8	(NA)	64	78
1984.....	72	53	10.2	40	71	81
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

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 5.33-- 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 <u>1/</u>	91.9
Highest monthly average daily temp. (°F.).....	September.....	Kawaihae <u>1/</u>	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 <u>2/</u>	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. <u>3/</u>	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, Division of Water Resource Management, Climatological Section, data supplied September 27, 1993.

**Table 5.34-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY,
1982 TO 1992**

[In inches]

Year	Hawaii				Maui		
	Hilo Airport	Waimea 1/	Kona Village	Naalehu	Kahului Airport	Kihei	Lahaina
1982	170.36	56.29	26.88	65.75	34.04	29.11	34.36
1983	68.09	12.95	8.51	21.08	13.05	8.60	9.70
1984	100.08	8.87	8.15	39.51	8.56	5.64	6.30
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
Year	Oahu				Kauai		
	Waikiki	University of Hawaii	Nuuanu Res. 4	Kane- ohe 2/	Koloa	Lihue Airport	Prince- ville
1982	39.96	57.98	168.16	120.40	96.75	74.40	241.22
1983	9.80	19.77	74.32	43.49	50.69	16.40	46.93
1984	19.35	33.13	71.32	(NA)	48.82	30.12	71.58
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)

NA Not available.

1/ Lalamilo Field Office.

2/ Hawaii State Hospital. 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, Division of Water Resource Management, records.

Table 5.35-- MAJOR HURRICANES: 1950 TO 1993

[Complete to September 27, 1993]

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 No 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," *Honolulu Advertiser*, July 23, 1986, pp. A-1, A-2; "Hawaii Hurricanes," *Honolulu Star-Bulletin*, August 4, 1988, p. A-8; Hawaii State Department of Land and Natural Resources, Division of Water Resource Management, data provided September 27, 1993.

Table 5.36-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency <u>1/</u> (percent)	Expected days of strong trade winds <u>2/</u>	Highest surf <u>3/</u> (average number of days)		Water temperature <u>4/</u> (°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
Ann.	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 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, Division of Water Resource Management, data provided September 27, 1993.

Table 5.37-- 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 5.38-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT SELECTED LOCATIONS, AT BEGINNING OF EACH SEASON

[Hawaiian Standard Time]

Subject	Hilo	Kahului	Honolulu	Lihue	Barking Sands
Sunrise (A.M.):					
March 21	6:24	6:29	6:35	6:41	6:42
June 21.....	5:42	5:45	5:50	5:55	5:56
Sept. 23.....	6:09	6:15	6:21	6:26	6:28
Dec. 22.....	6:51	6:58	7:05	7:12	7:14
Sunset (P.M.):					
March 21	6:32	6:37	6:43	6:49	6:51
June 21.....	7:02	7:10	7:16	7:23	7:25
Sept. 23.....	6:16	6:21	6:27	6:33	6:35
Dec. 22.....	5:47	5:50	5:55	6:00	6:01
Hours of daylight:					
March 21	12:08	12:08	12:08	12:08	12:09
June 21.....	13:20	13:25	13:26	13:28	13:29
Sept. 23.....	12:07	12:06	12:06	12:07	12:07
Dec. 22.....	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. Data provided by Saul Price, Staff Meteorologist, National Weather Service, Pacific Region.

**Table 5.39-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE
HONOLULU AREA: 1990 TO 1993**

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

Species	1990	1991	1992	1993
All species:				
Species.....	48	46	48	45
Individual birds	18,705	17,864	18,779	22,598
Endemic species: <u>1/</u>				
'Apapane	4	158	57	145
Hawaiian Coot	8	15	10	81
Hawaiian Stilt.....	143	99	77	137
Oahu 'Amakihi	151	66	79	136
Indigenous species: <u>2/</u>				
Great Frigatebird	82	30	50	126
Red-footed Booby	363	472	287	916
Alien species: <u>3/</u>				
Cattle Egret.....	378	486	202	258
Common Myna	2,732	2,536	2,698	2,725
House Sparrow.....	849	954	776	672
Japanese White-eye.....	1,061	658	697	931
Java Sparrow	932	2,724	2,702	3,216
Red-vented Bulbul.....	1,705	1,125	1,309	1,487
Rock Dove.....	314	263	299	327
Spotted Dove.....	1,642	1,228	1,513	1,379
Zebra (Barred) Dove	4,179	3,592	4,112	5,627
Visitor species: <u>4/</u>				
Pacific Golden-Plover.....	1,594	1,037	1,199	1,332
Ruddy Turnstone.....	314	147	245	357

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 5.40-- HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA: 1991 AND 1992

[See headnote and footnotes to the preceding table]

Type of species	Number of species		Number of individuals	
	Dec. 21, 1991	Dec. 20, 1992	Dec. 21, 1991	Dec. 20, 1992
All species	46	48	17,864	18,779
Endemic	7	7	352	233
Indigenous.....	5	6	566	411
Alien	28	30	15,743	16,648
Visitor	6	5	1,203	1,487

Source: Hawaii Audubon Society, records.

Table 5.41-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1989 TO 1993

[As of June 30]

Location	1989	1990	1991	1992	1993
Along City and County streets and highways <u>1/</u>	123,533	124,650	125,236	127,056	130,458
In City and County parks.....	97,672	98,330	98,599	98,685	99,025

1/ Excludes Federal, State, and private thoroughfares.

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

**Table 5.42-- THREATENED, ENDANGERED, AND EXTINCT SPECIES OF
NATIVE FAUNA AND FLORA: DECEMBER 1990**

Type of fauna or flora	Native species	Candidate ^{1/}	Proposed endangered ^{1/}	Threatened ^{1/}	Endangered ^{1/}	Extinct ^{2/}
Land mammals	1	-	-	-	1	-
Marine mammals	17	-	-	-	8	-
Reptiles and amphibians	5	-	-	3	2	-
Birds	77	-	-	1	29	23
Freshwater fish	5	-	-	-	-	-
Invertebrates	(<u>3/</u>)	150	-	-	1	<u>4/</u> 88
Plants	956	280	52	-	19	(NA)

^{1/} Categories of the Federal List of Endangered and Threatened Species, as published in the *Federal Register*. Candidate species are those being officially considered for listing as threatened or endangered.

^{2/} Since 1778.

^{3/} Not known, but nearly 10,000 native species of insects and more than 1,000 native species of land snails have been estimated.

^{4/} Incomplete and probably much higher.

Source: U.S. Department of the Interior, Fish and Wildlife Service, *Endangered and Threatened Wildlife and Plants* (January 1989); P. Q. Tomich, *Mammals in Hawaii* (1969); Robert L. Pyle, "Checklist of Birds of Hawaii," *The 'Elepaio*, November 1983; correspondence from W. C. Gagne, Entomology Department, Bishop Museum, July 3, 1985; H. St. John, *List and Summary of the Flowering Plants in the Hawaiian Islands* (1973), p. 519; University of Hawaii Department of Geography, *Atlas of Hawaii* (1983), pp. 80 and 83; Gordon Nishida, Entomology Department, Bishop Museum; Warren L. Wagner, Derral R. Herbst, S. H. Sohmer, *Manual of Flowering Plants of Hawaii* (1990).

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 cane land in Section 22.

Out of the 4,100,000 acres of land in the State in 1987, 347,000 were in cropland and 923,000 in grazing land. Other major categories included forestland, with 1,419,000 acres, urban and built-up, with 157,000, and miscellaneous nonfarm, with 852,000. On Oahu, land in residential use increased from 22,600 acres in 1969 to 30,200 in 1992; during the same 21-year span, agricultural land declined from 88,900 to 70,000 acres. For the State as a whole, the Land Use Commission has zoned 188,000 acres as urban, 1,959,000 as conservation, 1,956,000 as agricultural, and 10,000 as rural.

The most recent data on land ownership indicate that the Federal government owns 8.4 percent of all land, the State and counties own 29.8 percent, and private owners (chiefly large estates) have 61.8 percent. Total Federal holdings reported by the General Services Administration in 1990 came to 637,000 acres, exclusive of leased land (8,800 acres); most of the Federal land was in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 187,000 acres, divided among 6,000 lessees. Total land parcels in the State as of 1993 numbered 446,000.

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 338,000 acres to 677,000.

Tabulations by the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Business, Economic Development & Tourism, and Land Use Commission, Honolulu Department of Finance, and Honolulu Department of General Planning 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, 23, and 24 of the *Statistical Abstract of the United States: 1993*.

Table 6.1-- LAND OWNERSHIP, COVER, OR USE: 1982 AND 1987

[In thousand of acres. Based on sample data and subject to sampling variation. Small differences between 1982 and 1987 values accordingly may not be statistically significant]

Land ownership, cover, or use	1982	1987	Change
Total surface	4,141.3	4,141.3	0.0
Federal land	341.6	443.2	101.6
Nonfederal land	3,758.2	3,656.6	-101.6
Developed	148.5	156.8	8.3
Rural	3,609.7	3,499.8	-109.9
Water area	41.5	41.5	0.0
Total nonfederal rural land	3,609.7	3,499.8	-109.9
Cropland	333.2	347.5	14.3
Cultivated	309.6	305.7	-3.9
Noncultivated	23.6	41.8	18.2
Grazing land	973.9	922.6	-51.3
Forest land	1,473.7	1,419.0	-54.7
Minor land cover/uses	828.9	810.7	-18.2

Source: U.S. Department of Agriculture, Soil Conservation Service, *Summary Report, 1987 National Resources Inventory* (Statistical Report No. 790, December 1989), tables 1, 2, and 3.

**Table 6.2-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU:
1987 AND 1992**

Subject	Dec. 1987: Oahu total	June 1992		
		Oahu total	Honolulu district	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	375,476	375,220	54,139	321,081
Single family	26,182	27,294	8,583	18,711
Multi-family	2,633	2,868	1,121	1,748
Industrial.....	10,326	9,361	4,096	5,265
Commercial.....	4,383	4,464	1,806	2,657
Hotel.....	301	305	132	172
Agriculture.....	76,842	69,927	301	69,625
Usable vacant.....	36,684	39,769	2,641	37,129
Other	218,125	221,233	35,459	185,774
STRUCTURES BY YEAR BUILT <u>1/</u>				
All structures	149,086	156,126	64,052	92,074
Before 1930.....	7,951	7,922	5,652	2,270
1930 to 1939	9,482	8,770	5,612	3,158
1940 to 1949.....	15,834	14,788	8,493	6,295
1950 to 1959	30,543	29,744	14,308	15,436
1960 to 1969	41,513	40,999	15,493	25,506
1970 to 1979	28,253	28,096	8,139	19,957
1980 to 1989	15,510	20,245	5,250	14,995
1990 and later	-	5,562	1,105	4,457
DWELLING UNITS BY TYPE <u>1/</u>				
All dwelling units.....	258,823	271,108	148,132	122,976
Single family and duplex	137,892	144,815	57,451	87,364
Low density multi-family	13,482	15,760	1,015	14,745
High density multi-family	107,449	110,533	89,666	20,867

1/ Data exclude structures on military bases.

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

**Table 6.3-- ESTIMATED ACREAGE OF LAND USE DISTRICTS:
1964 TO 1994**

[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
1979: January	4,111,500	151,929	1,976,106	1,974,230	9,235
1984: January	4,112,388	156,568	1,975,473	1,970,146	10,201
1985: January	4,112,388	158,620	1,969,351	1,974,236	10,181
1986: January	4,112,388	163,211	1,968,804	1,970,189	10,184
1987: January	4,112,388	165,165	1,967,638	1,969,401	10,184
1988: January	4,112,388	166,507	1,967,168	1,968,524	10,189
ADJUSTED ^{3/}					
1988: January	4,112,388	165,607	1,967,247	1,969,345	10,189
1989: January	4,112,388	171,230	1,967,194	1,963,766	10,198
1990: January	4,112,388	175,285	1,960,976	1,965,935	10,192
1991: January	4,112,388	178,114	1,960,608	1,963,491	10,175
1992: January	4,112,388	181,407	1,959,621	1,961,294	10,066
1993: January	4,112,388	180,912	1,960,615	1,960,795	10,066
1994: January	4,112,388	187,697	1,958,897	1,955,704	10,090

^{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 or past Commission actions.

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

**Table 6.4-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS:
JANUARY 1994**

[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
State total	4,112,388	187,697	1,958,897	1,955,704	10,090
Hawaii.....	2,573,400	50,972	1,292,316	1,229,471	641
Maui.....	465,800	19,953	193,631	248,457	3,759
Kahoolawe.....	28,800	-	28,800	-	-
Lanai.....	90,500	3,054	38,197	46,678	2,571
Molokai.....	165,800	2,509	49,768	111,657	1,866
Oahu.....	386,188	98,101	155,170	132,917	-
Kauai.....	353,900	13,108	198,715	140,824	1,253
Niihau.....	45,700	-	-	45,700	-
Kaula and Lehua.....	400	-	400	-	-
Other islands ^{3/}	1,900	-	1,900	-	-

^{1/} These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5.

^{2/} For definitions, see Hawaii Revised Statutes, Section 205-2.

^{3/} The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

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

Table 6.5-- 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 <u>1/</u>	Land owned by government <u>2/</u>			Privately owned land
		Federal	State	Counties	
State total <u>3/</u>	4,035,601	338,035	1,188,242	14,898	2,494,426
Percent.....	100.0	8.4	29.4	0.4	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 6.6-- LAND PARCELS, BY COUNTIES: 1988 TO 1993

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1988	412,862	217,971	48,863	122,788	23,240
1989	417,875	220,763	49,765	123,801	23,546
1990	424,111	224,339	50,966	124,902	23,904
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

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 6.7-- LAND OWNED BY SELECTED LARGE LANDOWNERS: 1991 TO 1993

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

Landowner	1991	1992	1993
Seven large landowners	982,616	978,163	991,998
Percent of total land area	23.9	23.8	24.1
Bernice P. Bishop Estate (June 30)	337,251	336,525	336,372
Richard S. Smart (Parker Ranch) ^{1/}	138,605	138,000	140,000
Dole Food Company, Inc.	128,854	128,032	122,435
Samuel M. Damon Estate	121,608	121,608	139,000
Alexander and Baldwin, Inc.	93,800	93,000	94,300
C. Brewer and Company, Ltd.	87,465	87,465	^{2/} 86,891
James Campbell Estate	75,033	73,533	73,000

^{1/} In addition, 85,000 acres were leased from the State during these years.

^{2/} As of June 27, 1993.

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

Table 6.8-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1989 TO 1991

Subject	Sept. 30, 1989	Sept. 30, 1990	Sept. 30, 1991
OWNED			
Number of installations.....	320	279	312
Land area, total (acres).....	676,823.9	637,258.7	634,488.6
Urban.....	68,903.3	117,888.5	114,883.4
Rural.....	607,920.6	519,370.2	519,605.2
Number of buildings.....	15,533	16,243	16,247
Floor area of bldgs. (1,000 sq. ft.).....	73,033	76,325	77,623
Cost, total (\$1,000) 1/.....	2,153,155	2,680,528	2,723,730
Land.....	157,980	53,596	93,220
Buildings.....	1,375,116	1,748,804	1,753,237
Structures and facilities.....	620,059	878,128	877,273
Predominant usage of land (acres):.....			
Agriculture and grazing.....	-	-	-
Forest and wildlife.....	267,190.4	271,237.0	271,237
Parks and historic sites.....	245,110.1	245,108.6	245,343.6
Power development and distribution.....	-	-	-
Military, excluding airfields.....	108,564.1	107,323.0	104,319.0
Airfields.....	5,231.0	5,051.3	5,051.3
Harbor and port facilities.....	23.6	0.8	0.8
Reclamation and irrigation.....	-	-	-
Office building locations.....	56.8	62.9	62.9
Flood control and navigation.....	1,424.2	7,674.0	7,674.0
Vacant.....	3.0	1.5	1.5
Institutional.....	-	-	-
Housing.....	87.4	87.4	87.4
Storage.....	778.2	6.8	6.8
Industrial.....	8,400.7	42.9	42.9
Research and development.....	360.2	183.0	183.0
Other land.....	39,594.2	479.5	478.4
LEASED			
Number of leases.....	300	256	262
Land area, total (acres).....	8,419.9	8,759.2	8,759.2
Urban.....	312.8	511.0	511.0
Rural.....	8,107.1	8,248.2	8,248.2
Number of building locations.....	235	217	218
Floor area of buildings (sq. ft.).....	689,146	681,945	714,267
Annual rental (\$1,000).....	6,822	6,451	7,322

Footnote and source on next page.

Table 6.8-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1989 TO 1991

NA Not available.

1/ 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 6.9-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1992

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department]

Island	Acreage		Homestead leases		Applicant waiting list	
	Total	In home- stead use	Total <u>1/</u>	Resi- dential	Total <u>1/</u>	Resi- dential
State total	187,413	40,371	5,889	4,613	23,536	13,509
Hawaii.....	107,883	27,237	1,732	1,032	9,026	4,135
Maui.....	28,995	438	514	451	4,706	2,405
Molokai.....	25,366	11,005	803	393	1,359	623
Oahu.....	6,600	888	2,398	2,340	5,602	4,999
Kauai.....	18,569	803	442	397	2,843	1,347

1/ Residence, agriculture, or pasture. Applicants may appear on waiting lists for more than one type of property; if so, they are counted more than once. The Department estimates the unduplicated Statewide total number of applicants at about 14,000. Data are subject to audit.

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

Table 6.10-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY, BY COUNTIES: APRIL 27, 1992

[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.....	1,417.6	70.9	980.1	155.3	211.3
Public lands	425.8	18.2	326.9	38.1	42.6
General lease <u>1/</u>	355.1	9.9	297.2	39.5	8.5
Revocable permit <u>2/</u>	142.2	3.9	45.7	37.4	55.2
Unencumbered lands <u>3/</u> ..	118.4	12.2	94.4	3.2	8.6
Lands set aside to other government agencies.....	781.1	42.5	536.5	96.6	105.6
Executive order	271.4	17.5	200.1	26.0	27.8
Governor's proclamation	522.6	29.2	340.3	72.7	80.4
Dept. of Hawaiian Home Lands	191.6	4.8	107.8	19.0	60.0
University of Hawaii.....	1.8	0.7	0.5	0.4	0.1
Hawaii Housing Authority ...	1.9	1.2	0.1	0.5	0.1
Highways and roads.....	15.7	3.4	8.2	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.

Approximately 6,124,000 visitors stayed overnight or longer in Hawaii during 1993, compared with 4,368,000 in 1983 and only 2,631,000 in 1973. The average number present at any given time during 1993 was 148,800. Total visitor expenditures (exclusive of trans-Pacific fares) in 1992 were estimated by the Hawaii Visitors Bureau at \$8.9 billion, compared with \$3.7 billion a decade earlier. The 1993 visitor total included 3.39 million from other States, 312,000 from Canada, and 1.59 million from Japan. Expenditures per visitor day in 1992 averaged \$117 for westbound visitors and \$345 for the Japanese. Visitor-related spending in 1991 resulted in tax revenues of \$1.22 billion and generated 251,000 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has seven national parks and similar areas, 70 State parks, 587 county parks, 76 golf courses, 282 public tennis courts, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational, scenic and cultural facilities reporting more than two million annual visits each in 1991 included Waikiki Beach, the National Memorial Cemetery of the Pacific, Wailua River State Park, and Hawaii Volcanoes National Park. Total visits to 75 museums, State monuments, zoos, and similar attractions in 1991 numbered 17.4 million. About 706,000 Hawaii residents traveled to the Mainland or abroad in 1992. Twelve theatrical groups on Oahu reported 951 performances of 155 productions for the 1991-1992 season, with a combined audience of 740,000. During the 1992-1993 season, the Honolulu Symphony Orchestra gave 127 concerts, with a total attendance of 195,000. During the 1992-1993 school year, attendance at UH-Manoa varsity baseball, basketball, football and volleyball home games was 646,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (particularly in its annual research reports), the State Parks Division of the 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 *Statistical Abstract of the United States: 1993*.

**Table 7.1-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND
TRANSIT STATUS: 1983 TO 1992**

Direction and status	1983	1984	1985	1986	1987
All directions .	5,546,540	6,107,730	6,314,290	7,063,710	7,324,280
Landing.....	4,653,450	5,242,770	5,338,170	6,068,990	6,248,550
Intransit.....	893,090	864,960	976,120	994,720	1,075,730
Westbound <u>1/</u>	4,098,720	4,543,890	4,675,690	5,245,690	5,214,520
Landing.....	3,654,560	4,082,070	4,137,830	4,689,480	4,617,230
Intransit.....	444,160	461,820	537,860	556,210	597,290
Eastbound <u>2/</u>	1,447,820	1,563,840	1,638,600	1,818,020	2,109,760
Landing.....	998,890	1,160,700	1,200,340	1,379,510	1,631,320
Intransit.....	448,930	403,140	438,260	438,510	478,440
Direction and status	1988	1989	1990	1991	1992
All directions .	7,894,680	8,236,250	8,507,330	8,272,760	8,405,740
Landing.....	6,715,600	7,149,700	7,453,550	7,286,140	7,266,350
Intransit.....	1,179,080	1,086,550	1,053,780	986,620	1,139,390
Westbound <u>1/</u>	5,443,980	5,734,910	5,692,950	5,444,070	5,295,770
Landing.....	4,793,580	5,115,410	5,127,690	4,913,650	4,664,350
Intransit.....	650,400	619,500	565,260	530,420	631,420
Eastbound <u>2/</u>	2,450,700	2,501,340	2,814,380	2,828,690	3,109,970
Landing.....	1,922,020	2,034,290	2,325,860	2,372,490	2,602,000
Intransit.....	528,680	467,050	488,520	456,200	507,970

1/ Arriving from North America.

2/ Arriving from Asia or Oceania.

Source: Hawaii Visitors Bureau, *1988 Westbound Visitors to Hawaii*, p. 5, and records.

**Table 7.2-- PASSENGER STATUS OF PARTIES AND PASSENGERS
ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL: 1990 TO 1992**

Year and direction of travel	All types	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Return- ing resi- dents	Intended resi- dents
			Over- night or longer	In transit		
PARTIES ^{1/}						
1990, total.....	4,389,030	3,786,930	326,170	(NA)	253,780	22,150
Westbound	2,848,720	2,439,680	182,390	(NA)	210,360	16,290
Eastbound ^{2/}	1,540,310	1,347,250	143,780	(NA)	43,420	5,860
1991, total.....	4,362,680	3,679,630	390,730	(NA)	273,920	18,400
Westbound	2,655,860	2,220,300	209,810	(NA)	212,470	13,280
Eastbound ^{2/}	1,706,820	1,459,330	180,920	(NA)	61,450	5,120
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 ^{2/}	1,878,150	1,527,490	296,040	(NA)	51,170	3,450
PASSENGERS						
1990, total.....	8,507,330	6,425,780	545,400	1,053,780	444,200	38,170
Westbound	5,692,950	4,391,430	328,300	565,260	378,640	29,320
Eastbound ^{2/}	2,814,380	2,034,350	217,100	488,520	65,560	8,850
1991, total.....	8,272,760	6,010,080	863,810	986,620	387,560	24,690
Westbound	5,444,070	4,212,650	371,810	530,420	311,760	17,430
Eastbound ^{2/}	2,828,690	1,797,430	492,000	456,200	75,800	7,260
1992, total.....	8,405,740	5,699,600	814,280	1,139,390	706,400	46,070
Westbound	5,295,770	3,606,940	373,180	631,420	642,440	41,790
Eastbound ^{2/}	3,109,970	2,092,860	441,100	507,970	63,960	4,280

NA Not available.

^{1/} Not surveyed for in-transit passengers.

^{2/} Including northbound.

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

**Table 7.3-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS:
1964 TO 1993**

[For earlier years, 1921-1963, see *Data Book 1987*, table 210]

Year	Visitors staying overnight or longer			Average number of visitors present		
	Total	West-bound ^{1/}	Other	Total	West-bound ^{1/}	Other
1964	563,925	460,290	103,635	16,037	14,901	1,136
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	4,368,105	3,396,115	971,990	108,045	97,395	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

^{1/} Arriving from the Mainland United States or Canada.

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

**Table 7.4-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII:
1992 AND 1993**

Country of residence	1992			1993		
	Total	West-bound	Other ^{1/}	Total	West-bound	Other ^{1/}
All visitors	6,513,880	3,980,120	2,533,760	6,124,230	3,764,520	2,359,710
United States ^{2/}	3,684,350	3,182,260	502,090	3,391,600	2,986,110	405,490
Canada	314,490	243,830	70,660	311,900	260,560	51,340
Asia	1,905,430	150,620	1,754,810	1,875,320	157,640	1,717,680
Japan	1,637,030	89,160	1,547,870	1,591,920	81,300	1,510,620
Taiwan	77,860	10,590	67,270	75,780	7,910	67,870
Korea	84,960	19,220	65,740	92,990	20,450	72,540
Hong Kong	23,990	6,860	17,130	23,220	6,520	16,700
China	20,950	3,310	17,640	20,760	6,270	14,490
Philippines	15,570	8,010	7,560	26,770	21,180	5,590
Singapore	14,010	3,520	10,490	12,340	2,800	9,540
Indonesia	9,450	3,110	6,340	12,560	5,040	7,520
Other Asia	21,610	6,840	14,770	18,980	6,170	12,810
South Pacific	287,090	159,510	127,580	218,230	114,640	103,590
Australia	209,950	123,110	86,840	156,560	87,780	68,780
New Zealand	63,450	32,730	30,720	47,350	23,300	24,050
Other South Pacific	13,690	3,670	10,020	14,320	3,560	10,760
Europe	288,770	216,640	72,130	281,720	212,980	68,740
United Kingdom	99,150	65,740	33,410	87,200	57,030	30,170
West Germany	82,580	66,360	16,220	91,120	72,820	18,300
Other Europe	107,040	84,540	22,500	103,400	83,130	20,270
Other foreign countries	33,750	27,260	6,490	45,460	32,590	12,870

^{1/} Eastbound and northbound.

^{2/} Excludes Hawaii. Includes remaining 49 states, D.C., and U.S. territories and possessions.

Source: Hawaii Visitors Bureau, records.

**Table 7.5-- VISITOR DAYS, BY DIRECTION OF TRAVEL:
1990 TO 1992**

Year	Total	Westbound	Eastbound and northbound
1990	59,155,920	45,840,750	13,315,170
1991	57,518,790	44,285,880	13,232,910
1992	56,139,630	41,671,860	14,467,770

Source: Hawaii Visitors Bureau, records.

**Table 7.6-- AVERAGE VISITOR CENSUS, BY COUNTIES AND ISLANDS:
1992 AND 1993**

County or island	1992			1993		
	Total	West-bound	Other	Total	West-bound	Other
State total.....	153,390	113,860	39,530	148,750	108,090	40,660
Oahu.....	78,390	46,670	31,720	79,070	46,560	32,510
Hawaii County	19,320	17,140	2,180	19,110	16,800	2,310
Kauai County	13,460	12,270	1,190	8,290	7,400	890
Maui County	42,220	37,780	4,440	42,280	37,330	4,950
Lanai	1,030	970	60	990	940	50
Maui	39,700	35,400	4,300	39,900	35,080	4,820
Molokai.....	1,490	1,410	80	1,390	1,310	80

Source: Hawaii Visitors Bureau, *1992 Domestic and Foreign Market Report* (1993), p. 8, and records.

Table 7.7-- VISITOR ARRIVALS, WESTBOUND AND OTHER, BY AREAS VISITED: 1991 AND 1992

[Covers visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors]

Areas visited	1991			1992		
	Total	West-bound	Other <u>1/</u>	Total	West-bound	Other <u>1/</u>
State total <u>2/</u>	6,873,890	4,584,460	2,289,430	6,513,880	3,980,120	2,533,760
Oahu.....	5,048,550	2,899,170	2,149,380	4,884,270	2,534,440	2,349,830
Kauai.....	1,267,620	1,085,290	182,330	877,060	714,880	162,180
Maui County <u>2/</u> ..	2,322,060	1,925,460	396,600	2,342,340	1,859,680	482,660
Maui.....	2,272,240	1,881,830	390,410	2,285,410	1,812,200	473,210
Molokai.....	96,620	87,750	8,870	116,440	102,570	13,870
Lanai.....	60,810	53,540	7,270	80,020	71,300	8,720
Hawaii County <u>2/</u>	1,188,630	975,610	213,020	1,142,340	909,490	232,850
Hilo side.....	388,530	298,470	90,060	404,680	313,340	91,340
Kona side.....	1,020,390	864,170	156,220	972,720	793,890	178,830
One island only..	4,660,020	2,917,740	1,742,280	4,468,300	2,518,690	1,949,610
Oahu only.....	3,154,910	1,537,020	1,617,890	3,107,670	1,326,040	1,781,630

1/ Eastbound or northbound.

2/ Because many visitors visited more than one area, detail sums to more than the totals and subtotals shown here.

Source: Hawaii Visitors Bureau, *1992 Domestic and Foreign Market Report* (1993), pp. 6-7.

Table 7.8-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS, BY DIRECTION OF TRAVEL: 1991 AND 1992

Subject	Total	Westbound	Eastbound and northbound
1991			
Residence (percent):			
United States	64.6	85.9	22.0
Pacific and Mountain States	34.9	47.8	9.0
California.....	23.5	32.0	6.4
Males per 100 females	111.8	98.3	145.1
Median age (years)	(NA)	37.2	(NA)
High-status occupations <u>1/</u> (percent)	34.7	43.0	22.3
Persons per party	1.69	1.89	1.40
Arriving June-August (percent)	29.4	28.8	30.8
Repeat visitors <u>2/</u> (percent)	53.5	61.2	42.1
Pleasure trip (percent).....	80.3	81.1	78.8
In hotel only	65.4	55.2	85.9
Destined beyond Hawaii (percent)	12.6	8.1	21.5
1992			
Residence (percent):			
United States	56.6	80.0	19.8
Pacific and Mountain States	31.3	46.4	7.5
California.....	21.0	31.1	5.1
Males per 100 females	113.2	96.5	146.1
Median age (years)	40.6	43.5	36.2
High-status occupations <u>1/</u> (percent)	36.4	42.2	27.2
Persons per party	1.70	1.90	1.39
Arriving June-August (percent)	26.9	26.2	28.2
Repeat visitors <u>2/</u> (percent)	54.9	62.9	42.3
Pleasure trip (percent).....	78.5	79.4	77.3
In hotel only	65.9	54.5	83.7
Destined beyond Hawaii (percent)	12.5	9.3	17.4

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 7.9-- DEMOGRAPHIC CHARACTERISTICS OF VISITORS, BY
DIRECTION OF TRAVEL: 1992**

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

Subject	Total	Westbound	Eastbound and northbound
All visitors	6,513,880	3,980,120	2,533,760
Age:			
Under 10 years	(NA)	250,750	(NA)
10 to 19 years	(NA)	346,270	(NA)
20 to 29 years	(NA)	561,590	(NA)
30 to 39 years	(NA)	828,860	(NA)
40 to 49 years	(NA)	893,140	(NA)
50 to 59 years	(NA)	527,760	(NA)
60 years and over	(NA)	571,750	(NA)
Median (years)	(NA)	40.0	(NA)
Sex:			
Male	3,458,990	1,254,940	1,504,050
Female	3,054,870	2,025,180	1,029,710
Males per 100 females	113.2	96.5	146.1
Residence:			
Pacific	1,750,670	1,584,230	166,440
Alaska	38,440	33,700	4,740
California	1,366,520	1,236,150	130,370
Oregon	88,680	85,290	3,390
Washington	257,030	229,090	27,940
Mountain	285,770	262,290	23,480
West North Central	197,290	163,250	34,040
West South Central	203,750	179,980	23,770
East North Central	384,720	327,830	56,890
East South Central	73,900	64,920	8,980
New England	115,880	95,530	20,350
Middle Atlantic	309,520	237,070	72,450
South Atlantic	333,830	260,010	73,820
U.S. territories	29,020	7,150	21,870
Canada	314,490	243,830	70,660
Japan	1,637,030	89,160	1,547,870
Other foreign	878,010	464,870	413,140

NA Not available.

Source: Hawaii Visitors Bureau, Basic Data Survey, records.

Table 7.10-- TRIP CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL: 1992

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

Subject	Total	Westbound	Eastbound or northbound
All visitors ^{1/}	6,513,880	3,980,120	2,533,760
Purpose of visit: ^{1/}			
Pleasure	5,116,420	3,159,020	1,957,400
Meetings, conventions, incentive ^{1/} ...	473,950	329,540	144,410
Convention	269,070	223,470	45,600
Corporate meeting	81,100	59,270	21,830
Incentive	132,200	53,560	78,640
Other business	230,860	176,080	54,780
Visit friends or relatives	429,680	335,470	94,210
Government or military	101,940	58,540	43,400
Attend school.....	20,500	10,490	10,010
Other	384,580	99,530	285,050
Traveler method:			
Tour group	1,933,270	407,010	1,526,260
Non-group	4,580,610	3,573,110	1,007,500
Package	3,155,950	1,430,690	1,725,260
Non-package	3,357,930	2,549,430	808,500
Accommodations:			
Hotel	4,677,550	2,479,300	2,198,250
Hotel only.....	4,289,700	2,169,740	2,119,960
Condo	1,259,380	1,060,330	199,050
Condo only	996,230	853,520	142,710
Friends, relatives	586,100	467,450	118,650
Cruise ship	96,150	92,240	3,910
Other accommodations	195,620	98,490	97,130

^{1/} Because of multiple responses, detail may add to more than the indicated total.

Source: Hawaii Visitors Bureau, *1992 Domestic and Foreign Market Report* (1993), and records.

**Table 7.11-- CHARACTERISTICS OF VISITOR PARTY HEADS,
BY DIRECTION OF TRAVEL: 1992**

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

Subject	Total	Westbound	Eastbound and northbound
All visitor party heads	3,917,020	2,093,490	1,823,530
Occupation:			
Senior management, executive..	388,660	228,190	160,470
Middle management.....	339,360	213,540	125,820
Sales, marketing.....	370,290	198,880	171,410
Clerical, administration	361,520	102,580	258,940
Professional.....	651,440	441,730	209,710
Technical, trade.....	300,940	127,700	173,240
Labor	103,530	25,120	78,410
Farming/Fishing.....	8,370	8,370	(NA)
Homemaker.....	41,870	41,870	(NA)
Military service.....	67,060	25,120	41,940
Military dependent.....	4,190	4,190	(NA)
Student.....	256,300	106,770	149,530
Self-employed.....	303,440	161,200	142,240
Retired.....	345,840	263,780	82,060
Other non-employed.....	14,650	14,650	(NA)
Other employed.....	359,560	129,800	229,760
Trips to Hawaii:			
First trip	1,828,860	776,680	1,052,180
Second trip.....	725,930	383,110	342,820
Third trip.....	347,670	207,260	140,410
Fourth trip and over.....	1,014,560	726,440	288,120
Persons in party:			
1 person	1,352,610	420,790	931,820
2 persons.....	1,680,050	1,050,930	629,120
3 persons.....	284,590	198,880	85,710
4 persons.....	325,380	232,380	93,000
5 persons or more.....	274,390	190,510	83,880

NA Not available.

Source: Hawaii Visitors Bureau, records.

Table 7.12-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY DIRECTION OF TRAVEL: 1991 AND 1992

Length of stay	1991			1992		
	Total	West-bound	Eastbound and northbound	Total	West-bound	Eastbound and northbound
All visitors	6,873,890	4,584,460	2,289,430	6,513,880	3,980,120	2,533,760
1 to 6 days.....	2,904,990	1,094,050	1,810,940	3,053,370	1,025,870	2,027,500
7 to 12 days.....	2,985,200	2,600,580	384,620	2,483,410	2,063,460	419,950
13 to 30 days....	915,210	835,080	80,130	879,990	803,120	76,870
31 to 365 days..	68,490	54,750	13,740	97,110	87,670	9,440
Median (days)...	7.45	8.4	5.55	7.06	8.03	5.53
Mean (days)	8.37	9.66	5.78	8.62	10.47	5.71

Source: Hawaii Visitors Bureau, Basic Data survey, records.

Table 7.13-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES: 1987 TO 1992

Subject	1987	1988	1989	1990	1991	1992
Arrivals (1,000).....	905	1,217	1,319	1,440	1,385	1,637
Average stay (days)	5.9	5.8	6.0	5.9	5.9	5.7
Expenditures (mil. dol.).....	1,702	2,252	2,514	2,500	2,797	3,237

Source: Hawaii Visitors Bureau, records.

Table 7.14-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1989 TO 1992

Subject	1989	1990	1991	1992
Number of respondents in sample	6,983	6,001	5,651	1,443
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under \$15,000.....	1.5	0.9	0.7	} 16
\$15,000 to \$24,999.....	5.5	4.1	2.0	
\$25,000 to \$34,999.....	11.6	9.9	6.2	} 19
\$35,000 to \$49,999.....	20.0	23.0	16.4	
\$50,000 to \$74,999.....	29.3	27.9	27.6	
\$75,000 and over	32.1	34.2	47.1	*65
Median income (dollars).....	59,700	56,100	72,300	64,500
Mean income (dollars).....	63,600	72,800	84,700	77,800
Education: college graduates (percent)	64.6	59.5	61.0	(1/)
Using travel agent (percent).....	80.7	79.8	74.0	(NA)
Islands visited (percent):				
Oahu.....	67.1	64.0	63.6	(NA)
Kauai	36.8	39.9	38.7	(NA)
Maui.....	52.3	48.3	47.0	(NA)
Hawaii.....	26.0	30.1	32.3	(NA)
Overall satisfaction:				
Excellent.....	57	54	60	56
Above average	34	35	32	34
Average or below average	9	11	8	10

* \$50,000 to \$99,999, 43 percent; \$100,000 to \$199,999, 17 percent; \$200,000 and over, 5 percent.

NA Not available.

1/ Associate degree, 7 percent; bachelor's or higher, 59 percent.

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

Table 7.15-- MEETINGS AND CONVENTIONS: 1987 TO 1992

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue (\$1,000)
1987	903	317,101	126,181	300,721
1988	886	301,654	131,273	354,363
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

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 7.16-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1991 AND 1992

Island	Number of meetings held		Estimated attendance	
	1991	1992	1991	1992
State total	548	389	177,036	169,980
Hawaii:				
Hilo	4	2	6,642	360
Kona	134	90	31,981	25,586
Maui	122	103	35,450	31,736
Lanai	1	2	120	290
Molokai	1	-	75	-
Oahu	203	145	83,942	102,653
Kauai	83	47	18,826	9,355

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 7.17-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1992

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

Year	Mainlanders	Japanese	Year	Mainlanders	Japanese
1931-32 ^{1/}	17.50	(NA)	1986	95.40	299
1951	28.00	(NA)	1987	102.49	324
1960-61	32.00	(NA)	1988	121.44	350
1965-66 ^{1/}	37.23	(NA)	1989	126.57	322
1974	46.20	123	1990	136.30	294
1977	54.62	147	1991	140.54	344
1980	71.24	185	1992	117.14	345
1983	85.88	227			

^{1/} Oahu only.

NA Not available.

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; and *1992 Visitor Expenditure Report* (1993), p. 61.

Table 7.18-- AVERAGE EXPENDITURE PER VISITOR DAY IN CONSTANT DOLLARS, FOR VISITORS FROM THE MAINLAND: 1931 TO 1992

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	1983	99.6	86
1951	26.0	108	1986	109.6	87
1960-61	29.8	107	1989	124.0	102
1965-66 ^{2/} ...	32.0	116	1990	130.7	104
1974	49.3	94	1991	136.2	103
1977	60.6	90	1992	140.3	83
1980	82.4	86			

^{1/} In constant (1982-84) dollars.

^{2/} Oahu only.

Source: Preceding table; U.S. Bureau of Labor Statistics, *CPI Detailed Report, January 1993*, pp. 79-80.

Table 7.19-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM THE MAINLAND AND JAPAN, BY EXPENDITURE TYPE: 1991 AND 1992

[In dollars. Excludes transpacific travel costs]

Expenditure type	Visitors from Mainland		Visitors from Japan	
	1991	1992	1991	1992
All items.....	140.54	117.14	344.29	344.68
Food and beverage	27.85	27.94	42.91	47.13
Restaurants	20.48	19.34	26.90	27.42
Dinner shows.....	1.34	2.56	5.97	4.55
Dinner or lunch cruise	(NA)	0.94	(NA)	5.19
Nightclubs, bars.....	2.32	1.76	1.16	1.68
Groceries.....	3.71	3.34	8.88	8.30
Entertainment.....	11.72	8.10	17.39	18.58
Attractions	7.17	4.38	6.69	7.79
Sports, recreation.....	4.55	3.17	10.70	7.54
Other entertainment	(NA)	0.54	(NA)	3.24
Transportation	15.91	11.89	15.98	15.42
Ground transportation	0.77	0.61	1.70	1.39
Rental vehicles	9.05	6.61	1.59	4.25
Interisland travel.....	4.86	1.74	6.57	6.66
Gasoline	(NA)	0.80	(NA)	0.31
Parking	(NA)	0.55	(NA)	0.24
Sightseeing tours.....	1.23	1.58	6.11	2.56
Clothing	8.51	8.40	31.89	31.99
Agriculture	(NA)	1.56	(NA)	4.80
Communication	(NA)	0.62	(NA)	0.64
Personal service.....	(NA)	1.17	(NA)	1.67
Lodging.....	58.99	44.96	89.88	100.82
Souvenirs	9.37	3.67	87.91	47.83
All other and unclassified <u>1/</u> ..	5.89	2.55	53.84	27.93
Adjustment <u>2/</u>	2.30	1.76	4.48	3.95

NA Not available.

1/ Includes telephone, beauty and barber shop, postage, laundry, photography, etc.

2/ Visitors estimate of amount excluded from listed categories.

Source: Hawaii Visitors Bureau, *1992 Visitor Expenditure Report* (1993), pp. 11 and 34.

Table 7.20-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS: 1991 AND 1992

[Dollars]

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1991	1992	1991	1992
All visitors	140.54	117.14	344.29	344.68
Islands:				
Oahu	118.53	105.04	348.96	347.73
Neighbor Islands	152.79	131.35	270.41	273.27
Group tour status:				
Organized group tour	138.83	138.12	357.65	354.22
Individually arranged	167.33	115.85	276.42	297.64
Accommodations:				
Hotel only	144.99	122.13	352.70	354.03
Condo only	132.88	102.59	259.00	235.51
Guests of friends and relatives	*74.67	72.41	(NA)	(NA)
Other	125.35	100.64	(NA)	(NA)
Length of stay:				
1 to 6 days	183.22	132.68	353.13	356.37
7 to 12 days	139.92	117.61	319.08	308.10
13 days or longer	132.69	107.66	*227.41	*274.16
Residence: ^{1/}				
Pacific	137.31	106.17	...	...
Mountain	135.70	107.81	...	...
W.N. Central	136.86	118.91	...	...
W.S. Central	144.12	133.65	...	...
E.N. Central	142.47	134.37	...	...
E.S. Central	123.65	110.78	...	...
New England	138.38	131.99	...	...
Mid-Atlantic	155.77	128.04	...	...
S. Atlantic	148.47	115.11	...	...
Previous visits:				
First trip	138.31	113.88	377.48	347.08
Repeat visitors	141.51	118.69	302.82	321.62

Continued on next page.

Table 7.20-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS: 1991 AND 1992 - Con.

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1991	1992	1991	1992
Party size:				
1 person.....	182.16	144.44	(NA)	378.01
2 persons.....	141.58	132.96	(NA)	342.03
3 persons.....	102.63	100.31	(NA)	205.62
4 persons or more.....	100.67	92.45	(NA)	309.22
Purpose of trip:				
Pleasure.....	136.18	115.41	329.69	332.74
Business: Meetings, conventions, incentive	201.15	130.84	401.10	341.35
Other business	172.54	143.92	*357.76	*270.56
Other purpose.....	108.81	(NA)	(NA)	(NA)
Time of year:				
First quarter	146.99	122.38	359.63	331.03
Second quarter	135.34	118.01	372.35	386.87
Third quarter	137.68	107.86	287.30	317.27
Fourth quarter	142.40	120.85	374.74	363.66
Arrived on package tour:				
Yes.....	149.17	115.87	358.94	348.76
No	133.89	117.70	243.02	312.69
Children in party:				
Yes.....	97.63	92.25	224.17	259.17
No	148.39	133.00	369.78	359.84
On honeymoon:				
Yes.....	153.97	144.74	535.89	444.81
No	136.00	115.60	316.57	339.88

*Sample under 25; subject to considerable sampling variation.

NA Not available.

1/ Census divisions.

Source: Hawaii Visitors Bureau, *1991 Visitor Expenditure Report* (1992), pp. 11-26, 43-53, and *1992 Visitor Expenditure Report* (1993), pp. 12-50.

Table 7.21-- ESTIMATED VISITOR EXPENDITURES: 1951 TO 1992

[Millions of dollars. Excludes expenditures by Hawaii residents for all years and additional business expenditures by MCI (meetings, conventions, and incentive) visitors before 1985. Estimates for 1985-1991 revised from *Data Book 1992*, tables 208, 209 and 384]

Year	Personal expenditures	Year	Personal expenditures	Year	Personal expenditures	Additional business expend. ^{1/}
1951	24	1965	225	1979	2,537	...
1952	33	1966	280	1980	2,875	...
1953	43	1967	380	1981	3,200	...
1954	49	1968	440	1982	3,700	...
1955	55	1969	550	1983	3,974	...
1956	65	1970	595	1984	4,582	...
1957	78	1971	705	1985	4,942	301.6
1958	83	1972	840	1986	5,753	351.1
1959	109	1973	1,020	1987	6,473	395.1
1960	131	1974	1,225	1988	8,038	490.6
1961	137	1975	1,360	1989	8,748	533.9
1962	154	1976	1,640	1990	9,363	375.4
1963	186	1977	1,845	1991	9,820	813.5
1964	205	1978	2,146	1992	8,862	697.3

^{1/} By MCI (meetings, conventions, and incentive) visitors. For discussion, see Hawaii Visitors Bureau, *The 1990 Visitor Expenditure Report* (1991), pp. 35-40. Not available before 1985.

Source: Hawaii Visitors Bureau, *1986 Annual Research Report*, p. 1, and records.

Table 7.22-- VISITOR EXPENDITURES, BY COUNTRY OF RESIDENCE: 1985 TO 1992

[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 ^{1/}	9,738,602	9,363,244	5,661,847	2,500,138	1,201,259	375,358
1991 ^{1/}	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

^{1/} Revised from *Data Book 1992*, table 209.

Source: Hawaii Visitors Bureau, "Revised Historical Visitor Expenditures Estimate," table, June 7, 1993.

**Table 7.23-- VISITOR EXPENDITURES, BY DIRECTION OF TRAVEL,
COUNTRY OF RESIDENCE, AND ISLANDS: 1992**

[In thousands of dollars]

Direction of travel and island	Total expenditures	Personal (diary) expenditures				Additional business (MCI) expenditures
		All countries	United States	Japan	Other countries ^{1/}	
Total	9,558,880	8,861,601	4,230,817	3,236,739	1,394,045	697,279
Direction of travel:						
Westbound	5,577,260	5,041,234	3,922,446	188,082	930,706	536,026
Other.....	3,981,620	3,820,367	308,371	3,048,657	463,339	161,253
Island:						
Oahu	5,525,217	5,220,138	1,586,354	2,826,306	807,478	305,079
Maui	2,221,593	2,022,056	1,420,848	247,498	353,710	199,537
Kauai.....	573,500	507,644	392,827	48,399	66,418	65,856
Hawaii	1,102,131	986,792	731,672	107,887	147,233	115,339
Molokai...	78,917	73,406	57,339	3,488	12,579	5,511
Lanai	57,522	51,565	41,777	3,161	6,627	5,957

^{1/} Includes Canada (\$400,418), Australia (\$136,750), New Zealand (\$54,456), United Kingdom (\$93,974), Germany (\$128,854), other Europe (\$136,880), and other foreign (\$442,713).

Source: Hawaii Visitors Bureau, *1992 Island Supplement* (1993), p. 21.

**Table 7.24-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES:
1970 TO 1991**

[In millions of dollars]

Year	Total	Visitors	Airline and ship crews	Overseas airlines <u>1/</u>
1970	714.6	595	8.0	111.6
1971	835.8	705	8.0	122.8
1972	982.2	840	9.0	133.2
1973	1,181.6	1,020	8.0	153.6
1974	1,408.6	1,225	12.6	171.0
1975	1,559.4	1,360	8.4	191.0
1976	1,890.8	1,640	6.8	244.0
1977	2,093.8	1,845	7.8	241.0
1978	2,427.4	2,146	11.4	270.0
1979	2,947.7	2,537	11.6	399.1
1980	3,406.2	2,875	13.2	518.0
1981	3,775.0	3,200	15.0	560.0
1982	4,235.0	3,700	15.0	520.0
1983	4,483.0	3,974	14.0	495.0
1984	5,139.0	4,582	15.0	542.0
1985	5,544.0	4,986	16.0	542.0
1986	6,362.0	5,802	18.0	542.0
1987	7,180.0	6,530	20.0	630.0
1988	8,587.0	7,849	22.0	716.0
1989	9,628.0	8,785	24.0	819.0
1990	10,357.0	9,409	27.0	921.0
1991	10,955.1	9,921	29.0	1,005.1

1/ Includes payroll, fuel taxes, and landing fees.

Source: Hawaii State Department of Planning and Economic Development, *The Economic Impact of Tourism in Hawaii: 1970 to 1980*, Research Report 1983-2 (April 1983), and unpublished 1981-1991 estimates based on the DBED Input-Output Model and Hawaii Econometric Model.

Table 7.25-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1991

Year	Visitor-related expenditures <u>1/</u> (million dollars)	Total sales or output <u>2/</u> (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs <u>2/</u> (1,000)
1970	714.6	1,290.8	459.7	69.7	76.6
1971	835.8	1,507.0	538.6	82.8	87.3
1972	982.2	1,766.2	633.6	96.7	96.2
1973	1,181.6	2,122.0	763.5	118.7	105.6
1974	1,408.6	2,522.3	910.7	141.0	112.8
1975	1,559.4	2,751.7	995.9	165.7	113.5
1976	1,890.8	3,263.0	1,184.0	201.4	123.1
1977	2,093.8	3,642.9	1,324.9	225.0	127.3
1978	2,427.4	4,238.7	1,544.2	262.1	132.4
1979	2,947.7	5,005.0	1,826.8	316.7	143.3
1980	3,406.2	5,719.5	2,091.0	353.0	150.0
1981	3,775.0	6,265.2	2,294.1	390.1	154.4
1982	4,235.0	7,162.3	2,627.1	436.9	165.4
1983	4,483.0	7,587.9	2,788.9	461.6	166.2
1984	5,139.0	8,655.9	3,185.6	537.0	180.7
1985	5,544.0	9,210.9	3,390.2	578.8	186.5
1986	6,362.0	10,263.7	3,782.5	657.2	196.3
1987	7,180.0	12,699.0	4,288.1	<u>3/</u> 831.0	204.1
1988	8,587.0	15,187.5	5,128.4	938.4	227.4
1989	9,628.0	17,028.7	5,570.4	1,049.1	242.2
1990	10,357.0	18,318.0	6,185.5	1,123.9	245.7
1991	10,955.1	19,375.9	6,542.7	1,219.0	250.9

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct, indirect, and induced.

3/ Partly reflects visitor accommodations tax enacted in 1986 and effective January 1, 1987.

Source: Hawaii State Department of Planning and Economic Development, *The Economic Impact of Tourism in Hawaii: 1970 to 1980*, Research Report 1983-2 (April 1983), and revised 1970-1991 estimates based on the DBED Input-Output Model and Hawaii Econometric Model.

Table 7.26-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES: 1973 TO 1993

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
1973.....	48.9	23.64	110.63	19.64	44.3	60.6	46.6
1974.....	53.0	26.56	126.64	20.64	49.9	65.1	51.5
1975.....	58.3	29.75	126.64	21.38	56.9	69.0	56.3
1976.....	62.5	29.54	126.64	23.00	61.5	71.6	59.1
1977.....	67.5	34.28	132.05	25.00	65.1	74.3	62.1
1978.....	73.6	38.49	129.05	27.00	69.7	78.8	66.9
1979.....	81.0	44.41	141.05	29.00	75.2	83.9	74.3
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.....	116.5	68.84	364.00	44.95	108.6	99.6	106.8
1986.....	119.5	73.20	364.00	46.95	111.4	99.8	109.4
1987.....	125.0	80.09	486.00	48.95	115.6	102.5	114.9
1988.....	132.0	87.94	494.00	48.95	121.0	106.8	121.7
1989.....	140.0	95.83	524.00	44.95	122.2	104.3	128.7
1990.....	147.7	102.10	560.00	49.95	128.0	107.0	138.1
1991.....	158.0	101.89	642.00	57.95	133.6	110.5	148.0
1992.....	164.3	105.59	400.00	57.95	137.8	114.2	155.1
1993.....	(NA)	103.26	(NA)	(NA)	141.9	116.5	160.1

NA Not available.

1/ For visitor and crew expenditures. Data after 1988 are preliminary. 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/ Coach or Economy weekday fare, including taxes as of July 1, by Pan American World Airways through 1979 and United Airlines thereafter. From chronology in DPED, Statistical Report 103, and *Data Book, 1979-1992*.

4/ Kamaaina fare, including taxes, as of July 1, by Hawaiian Airlines. From chronology in DPED, Statistical Report 103, and *Data Book, 1979-1991*.

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

Source: See above footnotes.

**Table 7.27-- PER DIEM COST OF BUSINESS TRAVEL TO HONOLULU:
1991 AND 1992**

[Average daily expenditure of a business traveler for lodging, food, and car rental in the Honolulu Metropolitan Statistical Area]

Item	Dollars		Rank 1992 ^{1/}
	1992	1991	
Total per diem cost.....	182.92	210.24	19
Food	^{2/} 60.73	63.95	8
Lodging.....	94.49	110.10	14
Car rental.....	27.70	36.19	94

NA Not available.

^{1/} Based on the 100 leading business travel MSAs in the U.S. for all costs combined, Honolulu ranked 11th in 1991.

^{2/} Breakfast, \$11.56; lunch, \$13.26; dinner, \$27.89; 15 percent tip, \$7.92.

Source: "Corporate Travel 1992 Index," *Corporate Travel* (offprint, 1992).

**Table 7.28-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES:
1988 TO 1993**

[In dollars. Years ended June 30]

Year	Income				Expenditures
	Total	State appro- priations ^{1/}	Private subscriptions	Other ^{2/}	
1988	13,926,560	12,230,000	1,353,259	343,301	13,720,078
1989	14,898,387	13,042,708	1,475,965	379,714	14,103,399
1990	17,666,926	15,888,527	1,566,861	211,538	18,534,888
1991	23,314,843	21,187,561	1,891,791	235,491	23,111,254
1992	18,397,713	16,381,210	1,848,301	168,202	18,369,166
1993	18,236,219	16,231,593	1,896,613	108,013	18,115,618

^{1/} Net after refunds (if any) to the State.

^{2/} May include income from Federal grants, mainland promotional programs, literature sales, convention servicing, and interest.

Source: KPMG Peat Marwick, *Hawaii Visitors, Bureau, Financial Statements and Schedules* (annual).

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

Subject	Total	Westbound	Eastbound and northbound
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.....	10.54	10.1	14.98
Mean.....	19.22	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 HONOLULU OFFICE: 1990 TO 1993

[Calendar year data. The area served by the Honolulu Passport Office includes Hawaii, American Samoa, Guam, the Northern Mariana Islands, Palau, the Federated States of Micronesia, and the Republic of the Marshall Islands]

Mailing address	1990	1991	1992	1993
Issued by Honolulu Office....	51,703	47,416	43,709	55,696
Mailed to Hawaii addresses	33,762	31,561	30,975	38,870
Mailed outside the State.....	17,941	15,855	12,734	16,826

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

Table 7.31-- HONOLULU SYMPHONY ORCHESTRA: 1982-1983 TO 1992-1993

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1982-1983	80	142	204,193	2,817,196
1983-1984	80	133	194,600	2,562,500
1984-1985	80	120	167,500	2,966,700
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

^{1/} Season shortened by musicians' strike, Aug. 8-Nov. 26, 1986.

Source: Honolulu Symphony Society, records.

Table 7.32-- PERFORMING ARTS, FOR OAHU: 1991-1992 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	155	951	740,423
Brigham Young University - Hawaii Campus <u>1/</u>	5	13	3,100
Chaminade University of Honolulu <u>1/</u>	1	6	1,080
Hawaii Loa College <u>1/</u>	2	8	280
Diamond Head Theatre (formerly Honolulu Community Theatre)	6	108	34,493
Honolulu Department of Auditoriums, total.....	77	135	460,172
Ballets	3	9	13,856
Concerts	61	102	330,921
Operas	3	10	18,379
Rock shows	8	12	77,261
Other dramatic and musical productions	2	2	19,755
Honolulu Theatre for Youth	10	339	124,882
Leeward Community College	25	64	31,109
Manoa Valley Theatre	7	132	19,449
U.S. Army Community Theatre <u>2/</u>	4	28	17,767
University of Hawaii at Manoa.....	18	118	48,091

1/ 1990-1991 season.

2/ Revised 1990-1991 attendance was 11,992.

Source: DBEDT mail and telephone survey.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1990 TO 1993**

[Calendar year data unless otherwise specified]

Island and cultural attraction	1990	1991	1992	1993
OAHU				
Bernice P. Bishop Museum <u>1/</u>	325,679	546,899	509,627	541,771
The Contemporary Museum.....	28,098	28,400	41,050	45,363
Damien Museum and Archives.....	10,848	13,437	13,221	12,000
Diamond Head State Monument <u>1/</u>	(NA)	76,000	75,000	60,000
Dole Cannery Square	517,000	524,000	562,000	485,000
Dole Plantation	1,029,000	895,000	893,000	803,000
Foster Botanic Garden	61,240	61,766	69,226	65,000
Fred Ohrt Water Museum.....	4,048	5,326	<u>1/</u> 5,666	<u>1/</u> 7,043
Halawa Shaft	3,091	4,531	<u>1/</u> 6,538	<u>1/</u> 6,097
Halawa Xeriscape Garden.....	4,412	9,448	<u>1/</u> 8,053	<u>1/</u> 10,563
Harold L. Lyon Arboretum.....	27,100	28,450	28,450	29,000
Hawaii Children's Museum <u>2/</u>	55,961	54,002	55,352	50,000
Hawaii Maritime Center	109,200	99,054	74,487	79,824
Hawaii Nature Center	34,836	39,614	49,521	<u>1/</u> 48,000
Honolulu Academy of Arts <u>3/</u>	256,654	245,498	259,278	235,260
The Honolulu Advertiser Gallery.....	27,800	28,000	29,000	29,300
Honolulu Zoo	652,276	630,726	704,424	742,000
Ho'omaluhia Park	70,630	72,328	63,300	70,000
Iolani Palace State Monument <u>1/</u>	72,000	75,000	72,000	71,000
Judiciary History Center	9,476	18,871	24,271	32,395
Mission Houses Museum	24,902	29,348	30,536	30,090
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center).....	245,782	172,274	159,180	137,479
National Memorial Cemetery of the Pacific <u>4/</u> ..	6,281,431	5,522,948	(NA)	(NA)
Pacific Aerospace Museum <u>5/</u>	-	(NA)	46,535	51,154
Paradise Park <u>6/</u>	75,142	124,189	109,452	180,319
Polynesian Cultural Center.....	844,043	814,632	838,000	871,645
Puu o Mahuka Heiau State Monument <u>1/</u>	6,000	4,000	4,000	2,000
Queen Emma Summer Palace	23,627	18,243	<u>7/</u> 15,155	29,790
Royal Mausoleum State Monument <u>1/</u>	18,000	62,000	70,000	91,000
Sea Life Park Hawaii	692,607	602,573	638,973	635,880
Senator Fong's Plantation and Gardens.....	79,483	98,400	95,450	(NA)
Tropic Lightning Museum <u>8/</u>	4,416	4,818	13,848	8,531
Ulu Po Heiau State Monument <u>1/</u>	2,000	3,000	3,000	3,000
U.S. Army Museum, Ft. DeRussy.....	137,267	131,460	125,576	115,540
U.S.S. Arizona Memorial	1,870,805	1,501,607	1,635,591	(NA)
Visiting either Memorial or Visitor Center	1,469,676	1,496,915	1,546,827	1,460,149
Aboard non-landing tour boats	401,129	<u>9/</u> 4,692	88,764	(NA)
U.S.S. Bowfin Submarine Museum	193,172	208,748	205,525	185,380
University of Hawaii Art Gallery	50,000	55,000	50,000	55,000

Continued on next page.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1990 TO 1993 - Con.**

Island and cultural attraction	1990	1991	1992	1993
OAHU - con.				
Wahiawa Botanical Garden	19,298	23,054	22,501	30,000
Waikiki Aquarium <u>10/</u>	303,297	309,551	317,962	123,791
Waimea Falls Park <u>11/</u>	567,952	355,979	458,131	470,215
Waipahu Cultural Garden Park	19,275	20,453	34,150	17,270
HAWAII				
Hawaii Tropical Botanical Garden	42,440	48,880	53,500	56,646
Greenwell Store Museum	5,000	5,000	5,000	5,000
Hulihee Palace	27,368	25,169	<u>7/</u> 24,669	26,064
Jagger Museum <u>12/</u>	2,368,219	2,576,360	2,493,364	2,494,908
Kealakekua Bay State Historical Park <u>1/</u>	51,000	119,000	191,000	221,000
Kilauea Visitor Center <u>12/</u>	2,368,219	2,576,360	2,493,364	2,494,908
Lapakahi State Historical Park <u>1/</u>	101,000	101,000	108,000	155,000
Lava Tree State Monument <u>1/</u>	(NA)	133,000	166,000	143,000
Lyman House Memorial Museum	18,913	18,893	19,007	(NA)
Panaewa Rainforest Zoo	76,118	80,234	84,234	80,390
Parker Ranch Historic Homes	(NA)	(NA)	13,023	15,255
Parker Ranch Visitor Center	(NA)	18,463	17,725	17,226
Volcano Art Center	58,500	70,000	72,500	100,100
Wailoa Center	31,402	34,200	<u>1/</u> 22,000	<u>1/</u> 23,000
MAUI				
Alexander & Baldwin Sugar Museum	30,676	29,744	29,679	(NA)
Halekii -Pihana Heiaus State Monument <u>1/</u>	11,000	10,000	7,000	8,000
Hana Cultural Center	9,664	9,004	8,191	9,640
Hawaii Nature Center <u>13/</u>	-	750	8,022	(NA)
Iao Valley State Monument <u>1/</u>	(NA)	648,000	589,000	573,000
Kula Botanical Gardens	20,305	18,690	19,790	19,940
Lahaina Restoration Foundation	187,637	158,630	179,196	201,120
Baldwin Missionary Home Museum	47,667	44,440	43,540	50,420
Brig <i>Carthaginian</i>	48,400	42,500	45,256	59,800
Hale Pa'ahao (Old Lahaina Prison)	30,770	29,750	31,000	32,000
Hale Pa'i Printing House	4,800	4,500	5,100	4,900
Kalaupapa Lighthouse Lens Exhibit <u>14/</u>	12,600	-	-	-
Wo Hing Temple Museum	43,400	37,440	54,300	54,000
Maui Historical Society Museum	14,207	(NA)	(NA)	(NA)
Maui Tropical Plantation	381,843	358,564	369,887	373,600
Maui Zoological & Botanical Gardens	36,000	45,000	46,000	56,000
Whale Center of the Pacific	216,710	213,253	233,581	409,086

Continued on next page.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1990 TO 1993 - Con.**

Island and cultural attraction	1990	1991	1992	1993
KAUAI				
Grove Farm Homestead <u>15/</u>	4,290	3,694	2,959	-
Ho'opulapula Haraguchi Rice Mill <u>16/</u>	1,265	1,208	1,252	-
Kauai Museum	28,656	28,831	29,665	15,696
Kilauea National Wildlife Refuge <u>17/</u>	242,215	252,570	248,616	-
Kokee Natural History Museum <u>18/</u>	96,684	77,222	68,582	(NA)
National Tropical Botanical Garden	15,000	35,000	30,420	(NA)
Russian Fort Elizabeth State Historical Park <u>19/</u> .	315,000	302,000	310,000	155,000
Waioli Mission House <u>20/</u>	2,356	1,841	1,595	150
MOLOKAI				
Kalaupapa Settlement	8,264	9,670	8,982	(NA)
Molokai Ranch Wildlife Conservation Park	4,854	5,098	3,894	2,155
Molokai Museum & Cultural Center (R. W. Meyer Sugar Mill)	2,345	2,105	2,646	3,905

1/ Years ended June 30.

2/ Opened January 24, 1990. Closed during September 1993 for maintenance.

3/ Includes Academy Theater (63,430 in 1990, 43,257 in 1991, 43,244 in 1992, and 46,838 in 1993).

4/ No longer available from Cemetery officials after 1991. An independent estimate based on survey information compiled by the Hawaii Visitors Bureau indicates that 1,543,000 non-residents of Hawaii visited the Cemetery in 1991.

5/ Opened December 7, 1991.

6/ Closed June 1990-January 1991, and again January 1, 1994.

7/ Year ended September 30.

8/ Closed November 1, 1990-September 30, 1991.

9/ The decline in 1991 is unexplained.

10/ Closed for major renovation, October 19, 1992 to May 1, 1994.

11/ Closed November 20, 1990-April 30, 1991 for repairs.

12/ Kilauea Visitor Center and Jagger Museum data refer to total attendance at Hawaii Volcanoes National Park.

13/ Opened October 1991.

14/ Closed June 30, 1990.

15/ Closed September 11, 1992 to January 1994.

16/ Closed September 11, 1992 to early 1995.

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

18/ Closed September 11 - November 2, 1992.

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

20/ 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: 1983 TO 1993

Year and area	Acreage, Dec. 31 ^{1/}			Visits ^{2/}
	Total	Federal	Non-federal	
1983	247,349	235,243	12,106	5,252,385
1984	247,349	235,243	12,106	5,429,289
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
AREAS: 1993				
Hawaii Volcanoes National Park	207,643	207,643	-	2,494,908
Haleakala National Park.....	27,350	27,350	-	1,346,521
Pu'uhonua o Honaunau National Historical Park	181	181	-	424,819
Kaloko-Honokohau National Historical Park	1,161	616	545	44,481
Pu'ukohola Heiau National Historic Site	100	60	40	57,705
U.S.S. Arizona Memorial ^{3/}	12	12	-	1,460,149
Kalaupapa National Historical Park..	10,902	23	10,879	(NA)

NA Not available.

^{1/} Data exclude the Oloa Forest Tract. This 9,654-acre tract is entirely in Federal ownership, is managed by the National Park Service, and has been designated as part of the wilderness system by the Congress, but it is not within the legally authorized boundary of Hawaii Volcanoes National Park.

^{2/} Decline in 1985 reflects use of new benchmark data for Hawaii Volcanoes National Park estimates, rather than an actual drop in visits.

^{3/} 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 Area Office, records.

Table 7.35-- STATE PARKS AND HISTORIC SITES: 1983 TO 1993

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1983	74	20,564	980.1	17,246
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
ISLANDS: 1992 ^{1/}				
Hawaii.....	20	1,398.7	290.7	6,252
Maui.....	12	348.6	56.0	2,245
Molokai.....	1	233.7	10.0	14
Oahu.....	36	9,282.5	417.9	2,965
Kauai.....	11	13,792.8	147.1	7,779
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

^{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: 1992 AND 1993

[Parks having at least 750,000 recreation visits or 1,000 acres]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1992			
Wailua River State Park	1,130.7	53.4	3,474
Haena State Park	65.7	2.0	1,603
Hapuna Beach State Recreation Area	61.8	21.5	1,198
Old Kona Airport State Rec. Area	103.7	20.4	1,176
Wailuku River State Park	16.3	3.5	1,011
Waimea Canyon State Park	1,866.4	10.0	866
Kokee State Park	4,345.0	55.0	802
Na Pali Coast State Park.....	6,175.0	4.0	97
Kahana Valley State Park	5,256.5	26.0	70
Sacred Falls State Park.....	1,373.9	10.0	70
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

^{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: 1991 TO 1993

Subject and zoo	1991	1992	1993
Species: <u>1/</u>			
Honolulu Zoo.....	258	265	264
Maui Zoological & Botanical Gardens.....	25	23	30
Molokai Ranch Wildlife Conservation Park.....	11	11	11
Panaewa Rainforest Zoo (Hilo).....	55	57	52
Individuals: <u>1/</u>			
Honolulu Zoo.....	1,066	1,171	1,252
Maui Zoological & Botanical Gardens.....	133	88	109
Molokai Ranch Wildlife Conservation Park.....	625	632	680
Panaewa Rainforest Zoo (Hilo).....	181	169	144
Attendance:			
Honolulu Zoo.....	630,726	704,424	742,000
Maui Zoological & Botanical Gardens.....	45,000	46,000	56,000
Molokai Ranch Wildlife Conservation Park <u>2/</u> ...	5,098	3,894	2,155
Panaewa Rainforest Zoo (Hilo).....	80,234	84,234	80,390

1/ Animal and bird inventory, December 31.

2/ Closed at end of August 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: 1993

[For annual attendance, 1990-1993, see table 7.33]

Phylum or class	Sea Life Park, Dec. 31		Waikiki Aquarium, June 30	
	Species	Individuals	Species	Individuals
Total.....	271	13,123	254	1,163
Fishes.....	147	4,000	133	398
Reptiles.....	3	34	1	1
Mammals.....	<u>1/</u> 5	<u>1/</u> 87	1	2
Invertebrates.....	114	9,000	119	762

1/ Plus 2 hybrid.

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

Table 7.39-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS: 1991

Island	Total sites ^{1/}	Listed Hawaii Register only	Listed National Register only	Listed both Hawaii and National Register	Eligible for Nat'l Register ^{1/}
State total ..	464	188	99	137	40
Hawaii.....	116	60	19	28	9
Maui	45	30	5	9	1
Kahoolawe.....	1	-	1	-	-
Lanai	3	1	1	1	-
Molokai.....	44	14	3	24	3
Oahu	182	42	65	53	22
Kauai	73	41	5	22	5

^{1/} Sites declared eligible for National Register listing by the National Board.

Source: Hawaii State Department of Land and Natural Resources, Historic Sites Division, records.

Table 7.40-- COUNTY PARKS, BY ISLANDS: 1988 TO 1993

[As of December 31]

Subject	1988	1989	1990	1991	1992	1993
Number, total	569	575	582	586	587	605
Hawaii.....	142	142	142	142	141	142
Maui.....	85	86	90	92	92	100
Lanai.....	4	4	4	4	4	4
Molokai.....	13	13	13	13	13	13
Oahu.....	266	271	274	275	277	286
Kauai.....	59	59	59	60	60	60
Acreage, total	8,336	8,506	8,593	8,778	9,039	9,212
Hawaii.....	1,430	1,430	1,430	1,430	1,427	1,430
Maui.....	926	928	942	1,028	1,028	1,105
Lanai.....	15	15	15	15	15	15
Molokai.....	73	73	73	73	73	73
Oahu.....	5,356	5,524	5,599	5,696	5,960	6,053
Kauai.....	536	536	534	536	536	536

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: 1993

[Year ended June 30]

Beach park	Estimated attendance ^{1/}	Activity (percent)			Rescues	Drownings	Surfing accidents
		Sun	Swim	Surf			
All parks.....	16,663,694	74	18	8	920	2	212
Ala Moana.....	1,518,837	61	33	6	158	0	15
Waikiki.....	7,971,338	79	14	7	69	0	37
Hanauma.....	2,310,864	80	20	0	109	1	3
Sandy.....	591,584	58	14	28	152	0	49
Makapuu.....	322,859	51	18	32	94	0	23
Bellows.....	115,467	68	17	16	2	0	0
Kailua.....	679,385	79	15	6	7	0	3
Kualoa.....	24,854	76	23	1	0	0	0
Sunset.....	402,873	70	15	15	24	0	8
Ehukai.....	287,217	63	10	27	35	1	27
Ke Waena.....	173,549	61	10	30	7	0	5
Waimea.....	571,568	81	18	1	119	0	27
Alii.....	259,952	69	17	13	12	0	3
Nanakuli.....	362,384	61	34	5	64	0	6
Maili.....	241,536	61	29	10	46	0	4
Pokai Bay.....	471,288	64	34	2	8	0	0
Makaha.....	358,139	54	22	14	20	0	2

^{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 <u>1/</u>	184.9	19.4	32.6	18.2	23.2	50.3	41.2
Primary <u>2/</u>	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 <u>3/</u>	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: 1992 AND 1993

[As of December 31]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Locations:							
1992.....	89	20	11	1	1	46	10
1993.....	88	20	11	1	1	46	9
Courts:							
1992.....	282	44	35	2	2	175	24
1993.....	284	44	35	2	2	179	22

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: APRIL 1994

Status, island, and ownership	Number of golf courses					Number of holes
	Total	9-hole	18-hole	27-hole	36-hole	
State total	76	11	62	1	2	1,314
Hawaii	15	2	11	-	2	288
Municipal.....	1	-	1	-	-	18
Private.....	14	2	10	-	2	270
Maui	14	1	13	-	-	243
Municipal.....	1	-	1	-	-	18
Private.....	13	1	12	-	-	225
Lanai	3	1	2	-	-	45
Private.....	3	1	2	-	-	45
Molokai	2	1	1	-	-	27
Private.....	2	1	1	-	-	27
Oahu	34	5	29	-	-	567
Military.....	9	3	6	-	-	135
Municipal.....	5	1	4	-	-	81
Private.....	20	1	19	-	-	351
Kauai	8	1	6	1	-	144
Municipal.....	1	-	1	-	-	18
Private.....	7	1	5	1	-	126

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

**Table 7.45-- COUNTY GOLF COURSES AND CAMPING PERMITS,
FOR OAHU: 1988 TO 1993**

Calendar year	Public golf courses			Camping permits issued ^{1/}
	Courses	Holes	Rounds played	
1988	4	63	545,547	8,261
1989	5	81	555,671	7,773
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

^{1/} By the City and County of Honolulu.

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

Table 7.46-- HAWAIIAN OPEN SCORES AND PURSES: 1989 TO 1994

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

Year	Holes	Winning score		Purse (dollars)	
		Total	Below par	Total	Winner
1989 ^{1/}	54	197	19	750,000	135,000
1990	72	279	9	1,000,000	180,000
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	18	1,200,000	216,000

^{1/} Reduced to 54 holes because of rain delays.

Source: *Honolulu Advertiser*, February 13, 1989, pp. C-1 and C-4, February 12, 1990, p. C-4, February 10, 1992, p. C-1, and January 17, 1994, p. D8; Hawaiian Open, records.

Table 7.47-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: APRIL 1993

Island	Public hunting areas		National Wildlife Refuges ^{1/}		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total	61	1,044.8	7	271.0	12	83.9
Hawaii.....	27	747.4	1	15.0	5	82.8
Maui	8	103.6	-	-	2	0.1
Lanai	1	35.6	-	-	-	-
Molokai.....	3	27.5	1	0.0	-	-
Oahu	11	24.0	2	0.2	5	0.7
Kauai	11	106.7	3	1.2	-	-
Other islands	-	-	1	254.6	(<u>2/</u>)	0.3

^{1/} U.S. Fish and Wildlife Service.

^{2/} 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 7.48-- FISHING AND HUNTING LICENSES ISSUED: 1988 TO 1993

[Years ended June 30]

Type of license	1988	1989	1990	1991	1992	1993
Freshwater fishing.....	10,512	9,565	10,010	9,250	12,588	11,072
Hunting.....	13,469	12,714	13,805	10,529	10,685	10,683

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

Table 7.49-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1987 TO 1992

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1987	10,413	8,793	2:18:26	2:35:11
1988	10,205	8,808	2:12:47	2:41:52
1989	10,814	9,673	2:11:47	2:31:50
1990	13,268	11,849	2:17:29	2:33:34
1991	14,603	13,038	2:18:24	2:40:11
1992	30,905	23,515	2:14:19	2:32:13

Source: Honolulu Marathon Association, records.

Table 7.50-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP REGISTRANTS, FINISHERS, AND WINNING TIMES: 1987 TO 1992

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1987	1,381	1,286	8:34:13	9:35:25
1988	1,277	1,189	8:31:00	9:01:01
1989	1,286	1,231	8:09:15	9:00:56
1990	1,386	1,235	8:28:17	9:13:43
1991	1,379	1,312	8:18:32	9:07:52
1992	1,379	1,298	8:09:08	8:55:29

Source: Ironman Triathlon World Championship, records.

**Table 7.51-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES
AND WINNING TIMES: 1983 TO 1993**

[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
1983	66	1/ 9:01:53:48	7:22:55:15
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

1/ A catamaran, not officially entered in the race, recorded an elapsed time of 7:7:30:56.

Source: The Transpacific Yacht Club, *1982-83 Transpacific Yacht Club Year Book* (1983); *Honolulu Advertiser*, July 12, 1983, July 4, 1985, July 19, 1985, and July 10, 1989; *Honolulu Star-Bulletin*, July 15, 1983 and July 13, 1993; *Sunday Star-Bulletin and Advertiser*, July 10, 1983; Transpac Honolulu Committee, records; DBEDT Business Development and Marketing Division, records.

**Table 7.52-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:
1988-1989 TO 1993-1994 SEASONS**

Bowl	1988-1989	1989-1990	1990-1991	1991-1992	1992-1993	1993-1994
Aloha Bowl	18,967	39,267	14,185	19,245	21,709	23,645
Hula Bowl	28,896	20,274	17,789	18,383	19,952	25,726
Pro Bowl	46,464	45,135	45,097	46,471	48,237	47,560

Source: Aloha Stadium, records.

Table 7.53-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF HAWAII AT MANOA: 1990-1991 TO 1992-1993

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

Sports	Games played <u>1/</u>				Home games	
	Total	Won	Lost	Tied	Home dates	Attendance
1990-1991:						
Baseball.....	69	51	18	-	44	143,027
Basketball (men's).....	29	16	13	-	17	97,370
Basketball (women's)	27	12	15	-	15	12,663
Football.....	12	7	5	-	8	331,041
Volleyball (men's).....	24	7	17	-	22	41,777
Volleyball (women's)..	34	28	6	-	23	44,803
1991-1992:						
Baseball.....	63	49	14	-	47	208,378
Basketball (men's).....	28	16	12	-	17	89,126
Basketball (women's)	32	25	7	-	16	8,147
Football.....	12	4	7	1	7	304,148
Volleyball (men's).....	28	13	15	-	11	6,047
Volleyball (women's)..	31	26	5	-	20	35,521
1992-1993:						
Baseball.....	59	34	25	-	43	200,525
Basketball (men's).....	28	12	16	-	17	87,516
Basketball (women's)	32	28	4	-	16	13,420
Football.....	13	11	2	-	7	311,022
Volleyball (men's).....	28	18	10	-	11	10,401
Volleyball (women's)..	27	15	12	-	17	23,291

1/ Volleyball data refer to matches.

Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

**Table 7.54-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:
1992-1993 SEASON**

Sport	Players	Games <u>1/</u>	Attendance	Expenditure <u>2/</u> (dollars)
Baseball.....	Boys.....	416	71,000	375,500
Basketball.....	Boys and girls.....	1,048	140,200	615,000
Football.....	Boys.....	296	435,000	985,500

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 and encumbrances reflect figures from the general and school trust funds.

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

Table 7.55-- DOG LICENSES ISSUED, BY ISLANDS: 1988 TO 1993

[Dogs are licensed on a biennial basis]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1988	21,040	3,181	1,517	13	145	15,968	216
1989	27,147	3,759	2,321	14	105	19,500	1,448
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	(NA)	4,006	2,427	26	46	20,081	(NA)

NA Not available.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the County Departments of Finance.

Section 8

ELECTIONS

This section presents data on election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative activity.

About 464,500 persons were registered to vote in the general election of November 3, 1992, and almost 383,000 actually voted. The number voting amounted to 51 percent of the 747,000 Hawaii residents eligible to vote at that time. The latter figure excluded around 142,000 aliens, inmates of mental and penal institutions, and non-resident members of the armed forces and their dependents, groups that are ineligible or to vote in Island elections. Among registered voters, females outnumbered males and Democrats were far more numerous than Republicans. Campaign expenditures for the 1990 primary, general, and supplemental elections (other than for federal offices) came to \$14 million.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 18 Councilmanic districts. It also contains 16 soil and water conservation districts, 30 active Neighborhood Board districts, and 317 election precincts.

Elected officials in Hawaii include the President and Vice President, two U.S. Senators, two U.S. Representatives, the Governor and Lieutenant Governor, 25 State Senators, 51 State Representatives, and various county officials. Persons of Hawaiian blood also vote for the Board of Trustees of the Office of Hawaiian Affairs. The minimum voting age is 18 years.

The 1993 State Legislature, with 76 members, included 69 Democrats and 7 Republicans.

In its 1993 regular session, the State Legislature considered 4,086 bills; 337 were passed and 319 became law. The Legislature also offered 1,448 resolutions, of which 318 were adopted.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. 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: 1993*, Section 8.

**Table 8.1-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS:
NOVEMBER 1990 AND 1992**

Office	Election districts		Officials to be elected ^{1/}		Total elected officials, including holdover	
	1990	1992	1990	1992	1990	1992
Federal offices:						
President and Vice President.....	...	...	-	2	2	2
U.S. Senate.....	...	...	-	1	2	2
U.S. House of Representatives.....	2	2	2	2	2	2
State offices:						
Governor and Lt. Governor.....	...	...	2	-	2	2
State Senate.....	25	25	12	13	25	25
State House of Representatives ...	51	51	51	51	51	51
Board of Education.....	2	2	6	7	13	13
Office of Hawaiian Affairs.....	...	...	5	4	9	9
Soil and water conservation dist. ^{2/}	16	16	...	...	48	48
County offices:						
Mayor.....	...	...	3	2	4	4
Council:						
Hawaii.....	...	9	2	9	9	9
Maui.....	...	...	9	9	9	9
Honolulu.....	9	9	9	-	9	9
Kauai.....	...	...	7	7	7	7
Prosecuting Attorney.....	...	...	-	3	3	3
Neighborhood Boards ^{3/}	30	30	-	-	438	438
Precincts.....	292	317	-	-	-	-

^{1/} Including vacancies to be filled.

^{2/} Three seats are elected and two are appointed for each district. Elections are an ongoing process.

^{3/} Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, *Manual for Candidates, 1990 Elections, State of Hawaii*, pp. 4-5, and records; Hawaii State Department of Land and Natural Resources, Division of Water Resource Management, records; Honolulu Neighborhood Commission, records.

Table 8.2-- POPULARLY ELECTED OFFICIALS OF STATE AND LOCAL GOVERNMENTS: 1967 TO 1987

Year	Elected State and local officials			Elected State officials	Elected local officials
	Number	Rank <u>1/</u>	Rate <u>2/</u>		
1967	184	50	2.5	89	95
1977	172	50	1.9	87	85
1987	160	50	1.5	91	69

1/ Among the 50 States.

2/ Per 10,000 population. In 1987, 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.

Table 8.3-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1980 TO 1994

Subject	1980	1982	1984	1986	1988	1990	1992	1994
Persons of voting age <u>1/</u> (1,000)	697	728	751	776	804	841	866	900
Percent casting votes for--								
Presidential electors	43.5	(X)	44.7	(X)	44.1	(X)	43.1	(X)
U.S. Representatives.....	40.2	40.9	36.7	42.7	42.3	40.5	41.4	(NA)

X Not applicable.

NA Not available.

1/ Resident population 18 years and over, including armed forces stationed in Hawaii. November estimates.

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; DBEDT, *Data Book 1992*, table 265.

**Table 8.4-- REPORTED VOTING AND REGISTRATION, BY SEX:
NOVEMBER 1992**

[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.	813	493	<u>1/</u> 60.6	1.76	449	<u>2/</u> 55.2	1.79
Male.....	381	222	58.2	2.60	205	53.7	2.63
Female	431	271	62.7	2.39	244	56.6	2.45

1/ The U.S. percentage was 68.2. Hawaii ranked 49th among the 50 States.

2/ The U.S. percentage was 61.3. Hawaii ranked 48th among the 50 States.

Source: U.S. Bureau of the Census, "Voting and Registration in the Election of November 1992," *Current Population Reports, Population Characteristics*, P20-466, April 1993, table 4.

**Table 8.5-- POPULATION OF VOTING AGE, ELIGIBLE VOTERS,
REGISTERED VOTERS, AND VOTES CAST: NOVEMBER 1992**

Subject	Number
Population 18 years and over (1,000).....	889
Less: Nonresident armed forces and dependents (1,000).....	76
Aliens and other ineligible adult civilians (1,000).....	66
Eligible to vote (1,000).....	747
Registered voters (1,000).....	464
Percent of persons eligible.....	62.1
Votes cast (1,000).....	383
Percent of persons eligible.....	51.3

Source: U.S. Bureau of the Census estimate of population 18 and over; DBED estimates of ineligible adult civilians; Office of the Lieutenant Governor, 1992 election results.

Table 8.6-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS: 1972 TO 1992

Type and date of election	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1972: Oct. 7.....	326,906	(NA)	(NA)	203,160	62.1
1974: Oct. 5.....	333,527	(NA)	(NA)	235,982	70.8
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 <u>1/</u>	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
General elections:					
1972: Nov. 7.....	337,837	169,896	167,941	286,593	84.8
1974: Nov. 5.....	343,404	171,072	172,332	272,545	79.4
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 <u>2/</u>	464,495	222,721	241,774	382,882	82.4

NA Not available.

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

2/ Corrected from *Data Book 1992*, table 258.

Source: Office of the Lieutenant Government, *Result of Votes Cast* for each election, and records.

Table 8.7-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1992

[Excludes persons registered for only the Office of Hawaiian Affairs election but not for the regular primary or general elections]

Election and county	Registered voters			Votes cast ^{1/}	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total	432,723	206,642	226,081	251,582	58.1
Hawaii.....	58,331	28,104	30,227	41,296	70.8
Maui.....	43,464	20,938	22,526	24,251	55.8
Honolulu	304,539	144,793	159,746	172,046	56.5
Kauai	26,389	12,807	13,582	13,983	53.0
Overseas	-	-	-	6	-
GENERAL ELECTION					
State total	464,495	222,721	241,774	382,882	82.4
Hawaii.....	62,023	30,004	32,019	52,529	84.7
Maui.....	47,238	22,866	24,372	38,408	81.3
Honolulu	328,463	156,843	171,620	271,992	82.8
Kauai	26,771	13,008	13,763	19,864	74.2
Overseas	-	-	-	89	-

^{1/} Corrected from *Data Book 1992*, table 259.

Source: Office of the Lieutenant Governor, *Results of Votes Cast...1992*, and records.

**Table 8.8-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, SEPTEMBER 19, 1992**

Office, party, and candidate	Votes	Office, party, and candidates	Votes
U.S. SENATE		U.S. HOUSE, DIST. 2 -- Con.	
Democrat:		Republican:	
Inouye, D.....	141,273	Price, K.....	5,175
Nishiki, W.....	44,505	Heim, B.....	5,124
Republican:		Gregory, S.....	3,015
Reed, R.....	33,250	Deluze, J.....	2,341
Hustace, M.....	9,348	Pillos, J.....	913
James, J.....	2,250	Libertarian:	
Libertarian:		Mallan, L.....	540
Rowland, R.....	1,231	Non-partisan:	
Green:		Brayce, C.....	258
Martin, L.....	1,800	Ebel, B.....	214
Non-partisan:		Tataii, S.....	138
Hopkins, B.....	1,133	CITY & CO. OF HONOLULU MAYOR	
U.S. HOUSE, DIST. 1		Democrat:	
Democrat:		O'Connor, D.....	58,279
Abercrombie, N.....	70,676	Wilson, M.....	45,204
Republican:		Kaapu, K.....	7,183
Sutton, W.....	12,911	Souza, J.....	1,872
Rees, N.....	9,321	Ojerio, M.....	1,519
Libertarian:		Republican:	
Johnson, R.....	544	Fasi, F.....	22,123
Non-partisan:		Anderson, W.....	10,481
Devries, C.....	492	Hansen-Young, D.....	6,236
U.S. HOUSE, DIST. 2		Hirayasu, C.....	656
Democrat:		Libertarian:	
Mink, P.....	80,570	Schweigert, J.....	728
Bourgoin, D.....	16,441	Non-partisan:	
		Brewer, J.....	477
		Carnara, P.....	272
		Miracle, H.....	175

Continued on next page.

**Table 8.8-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, SEPTEMBER 19, 1992 -- Con.**

Office, party, and candidate	Votes	Office, party, and candidates	Votes
HAWAII COUNTY MAYOR		HAWAII COUNTY MAYOR -- Con.	
Democrat:		Green:	
Yamashiro, S.....	14,936	Davis, J.....	340
Inouye, L.	11,065		
Kokubun, R.	10,137	Non-partisan:	
		Mahoney, P.	89
Republican:		Cosmo	32
Kaehuaea, W.	1,158	Nesting, A.....	32
Begin, J.	1,038		
Libertarian:			
Anderson, A.	162		

Source: Office of the Lieutenant Governor, *1992 Primary and General Summary Reports*.

**Table 8.9-- PARTY OF VOTES IN PRIMARY ELECTION, BY COUNTIES:
SEPTEMBER 19, 1992**

Party	State total	Hawaii County	Maui County	City and County of Honolulu	Kauai County
Total votes cast.....	251,576	41,296	24,251	172,046	13,983
Democratic	194,945	37,134	19,342	125,649	12,820
Green	2,319	474	284	1,462	99
Libertarian	1,971	308	174	1,399	90
Republican	49,379	3,037	4,171	41,359	812
Non-partisan.....	1,815	229	136	1,383	67
Invalid.....	1,147	114	144	794	95

Source: Office of the Lieutenant Governor, records.

Table 8.10-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES CAST, BY ISLANDS: NOVEMBER 3, 1992

Island	Number of precincts	Registered voters	Votes cast
State total	317	464,495	382,882
Hawaii.....	53	62,023	52,529
Maui.....	34	43,038	35,630
Lanai.....	1	1,096	872
Molokai: Molokai District.....	4	3,015	1,835
Kalawao District	1	89	71
Oahu 1/.....	206	328,463	272,081
Kauai	17	26,648	19,760
Niihau	1	123	104

1/ Including the Northwestern Hawaiian Islands, part of the 6th Precinct of the 51st Representative District, in Waimanalo, Oahu.

Source: Office of the Lieutenant Governor, records.

Table 8.11-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 3, 1992

Age	Both sexes	Male	Female
All ages	464,495	222,721	241,774
18 or 19 years	10,970	5,042	5,928
20 to 29 years.....	68,408	31,534	36,874
30 to 39 years.....	99,333	46,582	52,751
40 to 49 years.....	101,271	49,079	52,192
50 to 64 years.....	95,592	45,862	49,730
65 years and over.....	88,905	44,621	44,284
Not reported	16	1	15

Source: Office of the Lieutenant Governor, records.

**Table 8.12-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1982 TO 1992**

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1984	335,846	Mondale...	147,154	Reagan.....	185,050	3,642
1988	354,461	Dukakis....	192,364	Bush	158,625	3,472
1992	372,842	Clinton	179,310	Bush	136,822	56,710
U.S. SENATOR						
1982	306,410	Matsunaga	245,386	Brown	52,071	8,953
1986	328,797	Inouye, D.	241,887	Hutchinson	86,910	-
1988	323,876	Matsunaga	247,941	Hustace	66,987	8,948
1990	349,666	Akaka.....	188,901	Saiki.....	155,978	4,787
1992	363,662	Inouye.....	208,266	Reed.....	97,928	57,468
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1982	149,907	Heftel	134,779	None.....	-	15,128
1984	138,865	Heftel	114,884	Beard.....	20,608	3,373
1986 1/	168,377	Hannemann	63,061	Saiki.....	99,683	5,633
1988	177,020	Bitterman .	76,394	Saiki.....	96,848	3,778
1990	162,711	Abercrombie	97,622	Liu.....	62,982	2,107
1992	177,476	Abercrombie	129,332	Sutton	41,575	6,569
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1982	148,008	Akaka.....	132,072	None.....	-	15,936
1984	136,741	Akaka.....	112,377	Shipley.....	20,000	4,364
1986	162,819	Akaka.....	123,830	Hustace	35,371	3,618
1988	162,808	Akaka.....	144,802	None.....	-	18,006
1990	178,288	Mink	118,155	Poepoe.....	54,625	5,508
1992	180,955	Mink	131,454	Price	40,070	9,431

Continued on next page.

Table 8.12-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1982 TO 1992 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
GOVERNOR						
1982	315,853	Ariyoshi.....	141,043	Anderson, D.	81,507	89,303
1986	334,115	Waihee	173,655	Anderson, D.	160,460	-
1990	340,132	Waihee	203,491	Hemmings .	131,310	5,331
MAYOR OF HONOLULU						
1984	253,853	Anderson, E.	117,841	Fasi	132,875	3,137
1988	263,882	Bornhorst...	117,479	Fasi	146,403	-
1992	263,328	O'Connor ...	124,719	Fasi	127,939	10,670

^{1/} For special election to fill unexpired term of Rep. Heftel, Sept. 20, 1986, see *Data Book 1987*, table 280.

Source: Office of the Lieutenant Governor, *Results of Votes Cast, General Election, State of Hawaii* for 1980-1990, and records.

Table 8.13-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 1992

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total	68,122	30,526	37,596	51,029	74.9
Hawaii.....	11,142	5,029	6,113	8,726	78.3
Maui.....	7,344	3,307	4,037	5,521	75.2
Honolulu	45,631	20,309	25,322	34,237	75.0
Kauai	4,005	1,881	2,124	2,545	63.5

Source: Office of the Lieutenant Governor, records.

**Table 8.14-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, 1992**

Office, candidate and party <u>1/</u>	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
PRESIDENT/ VICE PRESIDENT					
Clinton/Gore (D)	179,310	25,725	18,962	123,908	10,715
Bush/Quayle (R)	136,822	15,460	11,151	103,937	6,274
Perot/Stockdale (I)	53,003	8,889	6,630	35,728	1,756
Gritz/Minett (I)	1,452	404	125	850	94
Marrou/Lord (L)	1,119	233	104	706	55
Fulani/Munoz (NA)	720	119	80	472	49
Hagelin/Tompkins (NL)	416	86	73	240	17
U. S. SENATOR					
Inouye, D. (D)	208,266	27,461	18,761	148,831	13,213
Reed, R. (R)	97,928	15,130	12,646	66,094	4,058
Martin, L. (G)	49,921	6,715	4,406	37,722	1,078
Rowland, R. (L)	7,547	925	609	5,760	253
U.S. HOUSE, DIST. 1					
Abercrombie, N. (D)	129,332	-	-	129,332	-
Sutton, W. (R)	41,575	-	-	41,575	-
Johnson, R. (L)	6,569	-	-	6,569	-
U.S. HOUSE, DIST. 2					
Mink P. (D)	131,454	35,697	26,011	54,943	14,803
Price, K. (R)	40,070	10,783	7,423	19,264	2,600
Mallan, L. (L)	9,431	2,799	1,828	4,167	637
MAYOR OF HAWAII					
Yamashiro, S. (D)	27,787	27,787	-	-	-
Davis, J. (G)	14,117	14,117	-	-	-
Kaehuaea, W. (R)	6,971	6,971	-	-	-
Anderson, A. (L)	1,396	1,396	-	-	-

Continued on next page.

**Table 8.14-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, 1992 -- Con.**

Office, candidate and party ^{1/}	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
MAYOR OF HONOLULU					
Fasi, F. (R)	127,939	-	-	127,939	-
O'Connor, D. (D)	124,719	-	-	124,719	-
Schweigert, J. (L)	10,670	-	-	10,670	-

^{1/} D, Democrat; G, Hawaii Green; L, Libertarian; N, Nonpartisan; NA, New Alliance; NL, Natural Law; R, Republican.

Source: Office of the Lieutenant Governor, *1992 Primary and General Summary Reports*.

Table 8.15-- CAMPAIGN EXPENDITURES: 1992 ELECTIONS

[Dollars. Table excludes national races]

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 1993**

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

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

**Table 8.17-- PARTY MEMBERSHIP OF COUNTY COUNCILS:
1991 AND 1993**

[As of January]

County	Total seats	Democrats		Republicans		Hawaii Green	
		1991	1993	1991	1993	1991	1993
All counties	34	32	30	2	3	-	1
Hawaii.....	9	9	6	-	2	-	1
Mau.....	9	8	9	1	-	-	-
Honolulu	9	8	8	1	1	-	-
Kauai	7	7	7	-	-	-	-

Source: Legislative Reference Bureau, State of Hawaii, *Directory of State, County and Federal Officials* (February 1, 1991) and records.

Table 8.18-- LENGTH OF LEGISLATIVE SESSIONS: 1988 TO 1993

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1988	Jan. 20	99	May 20	4
1989	Jan. 18	99	None	-
1990	Jan. 17	108	None	-
1991	Jan. 16	111	June 24	5
1992	Jan. 15	107	None	-
1993	Jan. 20	104	Aug. 23	21

1/ Calendar days, including Saturdays, Sundays, holidays, and mandatory five-day recess required by Art. III, sec. 10, of the Hawaii Constitution.

Source: Legislative Reference Bureau, records.

**Table 8.19-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE:
1983 TO 1993**

Regular session	House of Representatives				Senate			
	Total	Demo- crats	Repub- licans	Other	Total	Demo- crats	Repub- licans	Other
1983	51	43	8	-	25	20	5	-
1985	51	40	11	-	25	21	4	-
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	-

Source: *Session Laws of Hawaii*, 1983-1991; President of the Senate; Speaker of the House of Representatives.

**Table 8.20-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
1992 AND 1993**

Action	1992: Regular	1993	
		Regular	Special
House bills:			
Carried over from previous year	2,040	-	-
Introduced	1,684	2,158	10
Passed <u>1/</u>	221	204	7
Vetoed	24	10	0
Became law <u>2/</u>	195	194	7
Senate bills:			
Carried over from previous year	1,973	-	-
Introduced	1,287	1,928	5
Passed <u>1/</u>	143	133	1
Vetoed	13	8	0
Became law <u>2/</u>	128	125	1
House resolutions:			
Offered	491	461	8
Adopted	266	122	7
House concurrent resolutions:			
Offered	466	489	1
Adopted	106	62	0
Senate resolutions:			
Offered	220	238	5
Adopted	87	117	3
Senate concurrent resolutions:			
Offered	256	260	1
Adopted	60	17	0

1/ Includes bills for constitution amendments: H.B. 2123, H.B. 2322, H.B. 2327, S.B. 1440, and S.B. 2234 in 1992.

2/ The 1992 total includes H.B. 2123, which contains a constitutional amendment.

3/ Includes bills which contained a vetoed item: S.B. 3278 in 1992.

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 State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and county governments in fiscal 1992 reached \$8.0 billion. The 1992 total included \$4.5 billion in U.S. taxes, \$2.8 billion in State taxes, and \$661 million in county taxes, licenses and fees. Individual income taxes accounted for 88 percent of Federal collections and 33 percent of State collections in Hawaii in 1992. State revenue receipts totaled \$4.6 billion, chiefly from the general excise and use tax (\$1.3 billion), individual income tax (\$890 million) and Federal grants-in-aid (\$775 million). The largest expenditure item in the State accounts for 1992 was education, with \$1.33 billion (out of \$5.13 billion) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax and departmental earnings for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed gross valuation of the State doubled between 1988 and 1993, reaching \$136 billion by the end of the period; of this total, \$38 billion was exempt from taxation. Public bonded debt outstanding at the end of 1992 stood at \$6.2 billion.

Total government employment in 1993 averaged 111,600, about 25 percent over the 1980 average. The 1991 total included 32,000 Federal workers, 64,000 persons employed by the State, and 16,000 persons on county payrolls. State civil service employees as of mid-1992 numbered 23,000.

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 Mainland statistics appear in the *Statistical Abstract of the United States: 1993*, Sections 9 and 10.

**Table 9.1-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1980 TO 1992**

[Thousands of dollars]

Year	All levels	Federal <u>1/</u>	State and counties <u>2/</u>		
			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	7,976,111	4,542,943	3,433,168	2,772,333	660,835

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.

2/ Fiscal years ended June 30. Totals include taxes collected from visitors and other nonresidents.

Source: Tax Foundation of Hawaii, *Government in Hawaii: A Handbook of Financial Statistics* (annual), and preliminary release of 1992 data.

Table 9.2-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1982, 1991, AND 1992

[In thousands of dollars. For fiscal year ended September 30 for federal collections and June 30 for others]

Source	1982	1991	1992
Total, all levels	3,314,105	7,904,148	7,976,111
Federal collections	1,876,627	4,570,534	4,542,943
Indiv. income and employment <u>1/</u>	1,662,349	3,954,688	3,980,629
Corp. income and excess profits.. ..	157,750	475,494	412,280
Excise.....	17,510	62,514	64,171
Estate	26,604	56,983	61,095
Gift.....	226	3,109	2,283
Unemployment insurance	12,188	17,746	22,485
State collections	1,132,699	2,753,562	2,772,333
General excise and use	577,265	1,279,550	1,295,431
Transient accommodations <u>2/</u>	0	79,230	79,994
Fuel	52,580	108,537	128,275
Liquor	7,701	40,795	41,492
Tobacco	14,011	26,263	27,384
Insurance	27,757	45,061	60,382
Public service companies	56,987	74,856	82,255
Corporate income <u>3/</u>	39,314	95,947	43,781
Indiv. income, net income <u>4/</u>	283,000	872,734	906,982
Inheritance and estate.....	5,106	11,861	16,416
Unemployment compensation.....	58,324	83,915	44,719
Other sources	10,654	34,814	45,222
County collections	304,779	580,052	660,835
Real property.....	255,058	488,573	556,460
Utility franchise.....	17,267	19,248	20,938
Motor vehicle weight <u>5/</u>	23,833	51,308	63,637
Other sources	8,621	20,923	19,800

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/ Includes State motor vehicle weight tax.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1992*, tables 13 and 29, and preliminary release of 1982-1992 data.

Table 9.3-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1972, 1990 AND 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 <u>1/</u>	670	3,764	4,033
Specific excise <u>2/</u>	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 9.4-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF FOUR, BY INCOME LEVEL, FOR HONOLULU AND 51 MAJOR CITIES: 1991

Gross family income level	Honolulu		51-city median <u>1/</u>	
	Taxes (dollars)	Percent of income	Taxes (dollars)	Percent of income
\$25,000	1,961	7.8	2,126	8.5
\$50,000	4,512	9.0	4,512	9.0
\$75,000	7,548	10.1	7,491	10.0
\$100,000	10,240	10.2	9,994	10.0

1/ 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: 1993*, p. 316.

Table 9.5-- STATE REVENUE RECEIPTS: 1991 AND 1992

[In thousands of dollars. Years ended June 30]

Source of revenues	1991: all funds	1992		
		All funds	General funds	Special funds
Total <u>1/</u>	4,397,559	4,634,690	2,653,112	1,981,578
Tax revenues.....	2,644,765	2,670,005	2,388,424	281,581
General excise	1,274,550	1,287,225	1,197,225	90,000
Specific excises <u>2/</u>	262,786	318,049	214,306	103,743
Individual income	872,339	889,532	889,532	0
Corporate income.....	95,947	37,514	37,514	0
Transient accommodations.....	16,442	4,205	4,205	0
Unemployment compensation....	78,362	78,362	0	78,362
Other taxes, licenses, permits <u>3/</u>	44,339	55,118	45,642	9,476
Fines, forfeits, and escheats	21,669	22,911	19,801	3,110
Federal grants-in-aid	644,703	775,253	4,444	770,809
Revenues from other agencies	17,756	20,871	4,332	16,539
Rents, royalties, land income <u>4/</u>	73,232	83,459	5,062	78,397
Earnings: general departments	294,393	362,428	103,980	258,448
Earnings: public service enterp.	309,715	324,777	0	324,777
Interest earned	237,916	253,404	100,915	152,489
Miscellaneous.....	153,410	121,582	26,154	95,428

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, 1992*, table 12, and preliminary release of 1992 data.

**Table 9.6-- STATE OPERATING EXPENDITURES, BY FUNCTION:
1982, 1991, AND 1992**

[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	1982	1991	1992
Total	1,958,473	4,459,808	5,132,936
General government: Control	34,922	98,227	106,266
Staff	79,581	280,980	331,926
Public safety: Police and fire	2,038	5,112	7,222
Other protection	60,095	151,733	151,290
Highways	48,937	100,074	114,516
Natural resources	19,094	36,240	40,363
Health and sanitation	67,810	152,265	171,209
Hospitals and institutions	84,152	216,147	271,018
Public welfare	317,195	523,488	657,728
Education: Higher	240,227	470,957	514,353
Public schools	370,356	729,425	770,671
Libraries and other	22,082	50,599	48,894
Recreation	12,848	37,070	40,118
Utilities and other enterprises	59,290	229,571	265,340
Debt service ^{1/}	175,330	285,732	301,937
Retirement and pension	94,878	165,176	163,137
Employees' health and hosp. insurance	19,715	927	1,076
Unemployment compensation	79,445	68,097	134,692
Grants-in-aid to counties	18,273	2,839	825
Urban redevelopment and housing	82,803	361,601	416,931
Miscellaneous	21,104	102,362	94,915
Cash capital improvements ^{2/}	48,298	391,184	528,510

^{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/} Special funds accounted for \$39.9 million in 1982, \$284.5 million in 1991, and \$400.1 million in 1992.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1992*, table 35, and preliminary release for 1992.

Table 9.7-- COUNTY OPERATING REVENUES, BY SOURCE, AND COUNTY OPERATING EXPENDITURES, BY OBJECT, FOR ALL COUNTIES COMBINED: 1982, 1991, AND 1992

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

Subject	1982	1991	1992
OPERATING REVENUES <u>1/</u>			
Total	497,948	952,148	1,103,919
Real property taxes	254,398	488,573	556,460
Other taxes	52,083	104,693	106,526
Fees, licenses, permits, and fines	11,524	26,659	26,871
Departmental earnings and charges	60,794	161,391	172,784
State grants	24,546	79,960	101,015
Federal grants	78,601	52,847	66,921
Other sources	16,002	38,025	73,342
OPERATING EXPENDITURES <u>2/</u>			
Total	494,392	943,355	1,028,104
General government: Control	9,012	11,817	12,397
Staff	46,666	98,724	110,141
Public safety: Police and fire	102,545	202,151	222,224
Other protection	15,815	38,047	37,730
Highways	27,569	42,354	42,074
Health and sanitation	43,434	101,716	109,416
Public welfare	8,770	21,626	25,794
Public schools	550	592	592
Recreation	35,982	68,758	70,248
Interest	18,267	78,995	77,397
Bond redemption	18,948	33,912	40,934
Pension and retirement	30,999	49,115	49,242
Salary adjustment	12	50	48
Economic and urban development	20,638	17,213	19,721
Mass transit	37,674	51,065	72,375
Miscellaneous	28,935	64,187	82,074
Cash capital improvements	48,577	63,034	55,697

Footnotes and source follow next table.

Table 9.8-- COUNTY OPERATING REVENUES, BY SOURCE, AND COUNTY OPERATING EXPENDITURES, BY OBJECT, BY COUNTIES: 1992

[In thousands of dollars. For year ended June 30, 1992]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES ^{1/}				
Total	767,865	137,578	124,534	73,943
Real property taxes	388,537	66,903	67,922	33,099
Other taxes	81,334	9,736	10,194	5,262
Fees, licenses, permits, and fines	17,319	3,617	4,724	1,211
Departmental earnings and charges	139,161	18,910	6,805	7,907
State grants	41,209	21,674	23,452	14,679
Federal grants	41,683	4,926	9,437	10,874
Other sources	58,621	11,811	1,999	911
OPERATING EXPENDITURES ^{2/}				
Total	720,422	127,691	121,179	58,812
General government: Control	6,478	2,111	2,233	1,575
Staff	77,112	11,539	12,429	9,060
Public safety: Police and fire	149,568	24,406	36,827	11,423
Other protection	20,995	4,442	10,003	2,289
Highways	26,480	7,725	5,409	2,460
Health and sanitation	89,396	10,358	6,433	3,228
Public welfare .....	...	10,932	12,051	2,811
Public schools .....	...	192	262	138
Recreation	51,452	7,231	8,299	3,267
Interest	61,525	6,579	6,138	3,156
Bond redemption	32,927	2,321	3,026	2,660
Pension and retirement	33,951	5,482	6,912	2,897
Salary adjustment .....	...	...	...	48
Economic and urban development	19,721	...	...	...
Mass transit	71,717	...	658	...
Miscellaneous	55,806	8,189	9,330	8,749
Cash capital improvements	23,294	26,184	1,169	5,050

^{1/} Excludes loan, bond, revolving, improvement district, and certain trust funds, and water revenues.

^{2/} Excludes certain revolving, bond, loan and enterprise funds, and urban redevelopment land purchases.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1992*, tables 24-27 and 36-39, as updated.

Table 9.9-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1970 TO 1991

Tax year	Number of returns	Number of exemptions ^{1/}	Adjusted gross income (less deficit)		
			Total (\$1,000)	Per return (dollars)	Per exemption ^{1/} (dollars)
1970	302,426	763,992	2,802,445	9,267	3,668
1971	308,814	809,612	3,010,051	9,747	3,718
1972	318,023	763,985	3,250,608	10,221	4,255
1973	345,211	832,636	3,749,212	10,861	4,503
1974	346,824	805,533	3,957,023	11,409	4,912
1975	358,510	841,976	4,269,028	11,908	5,070
1976	362,956	815,937	4,625,609	12,744	5,669
1977	380,937	847,098	5,218,740	13,700	6,161
1978	403,217	925,125	5,943,659	14,741	6,425
1979	412,922	880,845	6,493,228	15,725	7,372
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

^{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 1992, p. 90, Spring 1993, p. 148, and records.

Table 9.10-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1990 AND 1991

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)
1990					
All returns	555,488	17,462,616	481,830	2,463,848	5,114
Under \$15,000 ^{2/}	206,399	1,080,887	135,384	85,447	632
\$15,000 under \$30,000	152,346	3,299,330	150,127	313,734	2,090
\$30,000 under \$50,000	101,995	3,974,169	101,682	463,498	4,559
\$50,000 under \$75,000	58,877	3,560,820	58,797	477,233	8,117
\$75,000 under \$100,000 ..	19,035	1,617,371	19,022	260,882	13,715
\$100,000 under \$200,000	12,340	1,628,512	12,324	324,067	26,296
\$200,000 or more	4,496	2,301,526	4,494	538,987	119,935
Median income	\$22,025	...	...	...	...
1991					
All returns	567,412	17,778,657	489,654	2,416,278	4,935
Under \$15,000 ^{2/}	203,750	1,046,393	129,709	79,894	616
\$15,000 under \$30,000	155,107	3,369,249	152,066	312,093	2,052
\$30,000 under \$50,000	106,663	4,160,268	106,156	476,831	4,492
\$50,000 under \$75,000	62,790	3,803,959	62,691	495,476	7,903
\$75,000 under \$100,000 ..	21,879	1,861,390	21,853	287,827	13,171
\$100,000 under \$200,000	13,197	1,728,765	13,164	330,984	25,143
\$200,000 or more	4,026	1,808,633	4,015	433,174	107,889
Median income	\$22,732	...	...	...	...

^{1/} Filed in following year.

^{2/} Includes returns with adjusted gross deficit.

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin*, Summer 1992, p.132, and *SOI Bulletin*, Spring 1993, p. 148.

Table 9.11-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 1991

Subject	Number of returns	Amount (\$1,000)
All returns and adjusted gross income (AGI)	567,412	17,778,657
Salaries and wages	481,531	13,500,691
Dividends.....	117,610	333,360
Interest income.....	412,253	920,230
Net capital gain (less loss)	55,752	687,423
Taxable pensions and annuities.....	88,062	1,113,030
Unemployment compensation.....	25,743	58,634
Itemized deductions	169,234	2,811,198
Tax liability.....	489,654	2,416,278
Earned income credit	38,136	27,782

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin*, Spring 1993, p. 148

Table 9.12-- INTERNAL REVENUE SERVICE OPERATIONS: 1990 TO 1992

Subject	1990	1991	1992
Internal revenue collections (\$1,000)	4,264,127	4,570,534	4,542,943
Individual income and employment taxes	3,670,041	3,972,434	4,003,114
Total returns filed.....	964,868	988,225	1,000,625
Individual income tax.....	535,785	550,180	563,865
Returns examined	3,099	3,027	3,627
Individual.....	2,333	1,980	2,283
Additional tax and penalties recommended after examination (\$1,000)	30,616	56,294	59,773
Individual.....	9,946	11,310	19,975
Costs incurred (\$1,000).....	12,160	13,392	14,079

NA Not available.

Source: Internal Revenue Service, *Annual Report*, 1990, 1991, and 1992.

**Table 9.13-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1981 TO 1991**

Year income was received	Number of resident returns	Adjusted gross income ^{1/} (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
1981	448,320	6,884,575	4,479,808	336,497
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

^{1/} Exclusive of losses.

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

Table 9.14-- STATE INCOME TAX RATIOS: 1981, 1986, 1990, AND 1991

Ratio	1981	1986	1990	1991
Adjusted gross income per return (dollars)	15,356	19,624	26,802	27,743
Tax liability per return (dollars).....	751	1,025	1,526	1,592
Tax liability as percent of AGI.....	4.9	5.2	5.7	5.7

Source: Preceding table.

Table 9.15-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1991, 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	527,993	14,648,266,288	10,745,622,124	840,484,643
Taxable resident returns.....	437,929	14,443,457,347	10,745,622,124	840,484,643
Under \$5,000	42,367	132,769,174	54,089,778	1,487,524
\$5,000, under \$10,000	55,341	411,498,052	236,654,944	10,794,346
\$10,000, under \$20,000 ..	100,757	1,504,741,665	1,083,483,650	67,826,256
\$20,000, under \$30,000 ..	72,469	1,779,571,650	1,352,712,286	97,178,035
\$30,000, under \$40,000 ..	48,723	1,692,358,203	1,286,246,022	97,132,517
\$40,000, under \$50,000 ..	37,204	1,669,806,022	1,242,510,654	96,876,124
\$50,000, under \$75,000 ..	49,083	2,973,261,315	2,166,753,916	174,634,870
\$75,000, under \$100,000	17,901	1,536,781,759	1,140,808,321	97,456,475
\$100,000, under \$150,000	8,235	969,851,813	728,933,030	64,231,409
\$150,000, under \$200,000	2,653	454,033,816	355,807,898	32,088,042
\$200,000 and over	3,196	1,318,783,878	1,097,621,625	100,779,045
Nontaxable resident returns	90,064	204,808,941	...	...
Loss.....	3,165	(65,099,179)	...	...
Under \$5,000	75,835	74,497,698	...	...
\$5,000, under \$10,000	7,284	49,393,142	...	...
\$10,000 and over	3,780	80,918,101	...	...

^{1/} Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, 1991* (July 1993), p.25

Table 9.16-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN, 1981 TO 1991, AND BY COUNTIES, 1991

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Joint	Other ^{1/}	All returns	Joint	Other ^{1/}
1981	10,220	23,321	5,794	14,737	26,881	8,455
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
COUNTIES: 1991						
Honolulu	18,183	39,563	12,089	22,698	45,368	15,321
Maui.....	19,198	37,402	12,813	23,170	41,174	16,654
Hawaii.....	14,092	30,050	8,783	20,702	35,025	14,717
Kauai	16,866	30,050	10,639	21,039	37,672	13,702

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

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

**Table 9.17-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:
1992 AND 1993**

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

Source of revenue	Tax base		Tax collections	
	1992	1993	1992	1993
All sources	43,247,150	44,287,475	1,299,814	1,308,797
Sources taxed at 4 percent	30,353,512	30,322,104	1,214,140	1,212,884
Retailing.....	13,846,332	13,976,049	553,853	559,042
Services.....	5,032,682	5,092,656	201,307	203,706
Contracting.....	4,012,688	3,803,605	160,507	152,144
Theater, amusement, radio	229,091	226,443	9,164	9,058
Interest.....	227,017	193,203	9,081	7,729
Commissions.....	635,371	605,821	25,415	24,233
Hotel rentals	1,621,751	1,527,041	64,870	61,081
All other rentals.....	3,391,542	3,508,545	135,662	140,342
Use (4 percent).....	419,451	436,699	16,778	17,468
All others (4 percent).....	937,587	952,022	37,503	38,081
Sources taxed at other rates ^{1/} ...	12,893,638	13,965,371	61,668	64,733
Insurance solicitors.....	800,170	1,455,324	1,200	2,183
Sugar processing	28,096	35,867	140	179
Pineapple canning.....	6,620	6,892	33	34
Producing	408,662	474,859	2,043	2,374
Manufacturing.....	714,470	717,424	3,572	3,587
Wholesaling.....	7,498,621	7,646,217	37,493	38,231
Services (intermediary)	247,850	218,172	1,239	1,091
Use (1/2 percent).....	3,189,149	3,410,616	15,946	17,053
Unallocated net collections.....	-	-	24,006	31,180

^{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 9.18-- REAL PROPERTY TAX VALUATIONS:
ANNUALLY, 1983 TO 1993**

[Thousands of dollars. As of January 1. Government parcels assessed at \$1, 1983-1987, and at 100 percent thereafter]

Year	Assessment ratio <u>1/</u>	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1983	100	46,659,440	23,603,352	23,056,088	39,508,235
1984	100	49,085,380	24,900,368	24,185,012	41,672,612
1985	100	51,231,020	25,507,708	25,723,312	43,581,421
1986	100	52,814,463	26,442,872	26,371,591	45,222,885
1987	100	54,655,038	27,396,477	27,258,561	46,629,959
1988	100	67,628,063	36,730,370	30,897,693	50,219,249
1989	100	76,926,745	42,778,927	34,147,818	57,526,564
1990	100	99,942,540	61,554,968	38,387,572	71,080,524
1991	100	132,952,299	88,359,248	44,593,051	95,943,417
1992 <u>2/</u>	100	130,733,131	84,299,686	46,433,445	111,593,106
1993 <u>2/</u>	100	136,239,310	87,785,946	48,453,364	115,954,097

1/ Percent of fair market value.

2/ Values shown for gross valuation exclude nontaxable government and HHL properties (\$20,410,057,000 in 1992 and \$20,936,146,000 in 1993).

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

**Table 9.19-- REAL PROPERTY TAX VALUATIONS FOR THE STATE,
1991 TO 1993, AND BY COUNTIES, 1993**

[In thousands of dollars]

Subject	1991	1992	1993	
Assessor's gross valuation <u>1/</u>	132,952,299	130,733,131	136,239,310	
Land	88,359,248	84,299,686	87,785,946	
Improvement	44,593,051	46,433,445	48,453,364	
Exemptions <u>1/</u>	34,766,801	16,627,450	17,065,762	
Assessor's net taxable valuation	98,185,498	114,105,681	119,173,548	
Half of valuation on appeal.....	2,242,081	2,512,575	3,219,451	
Number of appeals.....	5,619	5,550	6,073	
Valuation for tax rate purposes	95,943,417	111,593,106	115,954,097	
Land	63,933,593	75,739,774	78,643,050	
Improvement	32,009,824	35,853,332	37,311,047	
Amount to be raised by taxation <u>2/</u> ...	547,033	609,266	632,442	
Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation <u>1/</u>	102,112,769	15,618,323	12,942,314	5,565,904
Land	68,331,779	8,359,697	7,351,565	3,742,905
Improvement	33,780,990	7,258,626	5,590,749	1,822,999
Exemptions <u>1/</u>	13,340,970	1,252,324	1,710,755	761,713
Assessor's net taxable valuation	88,771,799	14,365,999	11,231,559	4,804,191
Half of valuation on appeal.....	2,482,399	226,925	419,852	90,275
Number of appeals.....	3,748	394	1,219	712
Valuation for tax rate purposes	86,289,400	14,139,074	10,811,707	4,713,916
Land	60,859,970	7,831,862	6,650,056	3,301,162
Improvement	25,429,430	6,307,212	4,161,651	1,412,754
Amount to be raised by taxation <u>2/</u> ...	432,730	78,871	92,311	28,530

1/ Data for 1992 and 1993 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, 1993-1994 Tax Year, State of Hawaii* (July 1993), and earlier reports.

Table 9.20-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 1993

Type of exemption	Number	Amount <u>1/</u> (\$1,000)
All exemptions.....	205,001	38,908,366
Federal government.....	425	4,828,499
State government.....	7,160	11,333,186
County government.....	3,397	4,459,696
Homes-fee (basic and multiple).....	152,147	10,092,231
Homes-lease (basic and multiple).....	20,393	1,266,351
Churches.....	1,428	1,386,664
Hospitals.....	79	546,809
Low-moderate income housing.....	1,106	799,126
Charitable organizations.....	719	903,776
Public utilities.....	807	942,834
Schools.....	162	792,507
All others.....	17,178	1,556,687

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

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1993-1994 Tax Year, State of Hawaii* (July 1993), p. 6.

Table 9.21-- RESIDENTIAL PROPERTY TAX RATES IN HONOLULU AND 51 MAJOR CITIES: 1991

Subject	Effective tax rate per \$100 <u>1/</u>
Median city <u>2/</u>	1.47
Honolulu.....	0.37
Rank.....	51

1/ Adjusted to 100-percent assessment level.

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: 1993*, p. 316.

**Table 9.22-- REAL PROPERTY TAX RATES, BY COUNTIES:
FISCAL YEAR 1993-1994**

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

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential ^{1/}	3.12	4.75	8.50	4.93
Unimproved residential.....	3.92	4.75	10.00	4.04
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.....	...	3.50	4.45	...
Homestead.....	...	...	...	4.04
Improvement:				
Improved residential ^{1/}	3.92	4.75	8.50	3.94
Unimproved residential.....	3.92	4.75	8.50	3.18
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.....	...	3.50	4.45	...
Homestead.....	...	...	...	3.18

^{1/} Single family residential for Kauai.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1993-1994 Tax Year, State of Hawaii* (July 1993), p. 8.

Table 9.23-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1993

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

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, 1981-1993).

**Table 9.24-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES:
FISCAL YEARS 1988 TO 1993**

[Millions of dollars]

Type of expenditure	1988	1989	1990	1991	1992	1993
All categories.....	4,957	5,422	5,461	6,162	6,497	7,052
Grants to State and local governments	477	528	598	739	839	984
Salaries and wages	2,078	2,285	2,166	2,318	2,369	2,385
Direct payments for individuals	1,715	1,884	2,034	2,216	2,456	2,732
Procurement.....	591	624	547	761	695	743
Other direct expenditure.....	96	100	115	128	138	208
Department of Defense	2,562	2,821	2,604	2,936	2,893	2,928
Other federal agencies	2,395	2,601	2,857	3,226	3,604	4,123

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1993* (March 1993), tables 10 and 11 as corrected, corresponding data in earlier reports, and records.

**Table 9.25-- PER CAPITA FEDERAL EXPENDITURES IN HAWAII, BY TYPES:
FISCAL YEAR 1993**

Category	Amount (dollars)	Percent of U.S.	Rank ^{1/}
All categories	6,016.74	125.0	5
Grants to State and local governments	839.56	112.6	15
Salaries and wages	2,034.98	320.6	2
Direct payments for individuals	2,330.87	93.7	33
Procurement.....	633.56	82.4	23
Other direct expenditure.....	177.78	100.6	21
Department of Defense	2,498.46	282.8	3
All other Federal agencies.....	3,518.28	89.5	42

^{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 1993*, tables 8, 10, and 12.

**Table 9.26-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN
HAWAII, BY COUNTIES: FISCAL YEAR 1992**

[Thousands of dollars]

County	All agencies	Department of Defense	All other agencies
State total ^{1/}	6,636,322	2,895,590	3,740,732
City and County of Honolulu.....	5,555,419	2,810,163	2,745,256
Hawaii County	386,292	41,717	344,575
Kauai County	144,436	12,993	131,443
Maui County	250,486	30,717	219,769
State undistributed	299,688	-	299,688

^{1/} Figures differ somewhat from those in tables 9.23 and 9.24, because of treatment of Federal grants to State and local governments. In those tables, figure 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 1992*, Vol. I: *County Areas* (March 1993), pp. 14-15.

Table 9.27-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1982 TO 1992

[In millions of dollars. As of December 31]

Year	Total bonded debt ^{1/}	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
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

^{1/} Outstanding state and county bonds, both general obligation and revenue bonds.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual, 1982-1991), and preliminary release for 1992.

Table 9.28-- STATE GENERAL OBLIGATION BOND DEBT: 1988 TO 1993

[In dollars. As of June 30]

Year	Debt	Year	Debt
1988	1,847,982,810	1991	2,274,846,114
1989	1,978,039,494	1992	2,328,546,114
1990	2,026,100,383	1993	2,767,691,114

Source: Hawaii State Department of Accounting and General Services, records.

Table 9.29-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 1993

[For earlier years, see *Data Book 1987*, table 324]

Year	Government jobs (annual averages)				State civil service workers <u>1/</u>	State retirement system members <u>2/</u>
	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
1991	108,900	33,850	60,250	14,750	21,217	55,604
1992	111,100	33,250	62,600	15,250	22,920	57,401
1993	111,600	31,850	64,250	15,500	24,267	59,518

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.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1978), pp. 616-617; *The State of Hawaii Data Book 1978*, p. 158; Hawaii State Department of Labor and Industrial Relations; *Labor Force Data Book* (April 1994); Hawaii State Department of Personnel Services, records; Employees' Retirement System of the State of Hawaii, *58th Annual Report, June 30, 1984*, p. 17, and records.

**Table 9.30-- STATE SALARY SCHEDULES FOR SELECTED LEVELS:
1991 TO 1993**

[In dollars per month. Data refer to lowest and highest rates among the bargaining units]

Salary range	Lowest			Highest		
	July 1991	July 1992	July 1993	July 1991	July 1992	July 1993
SR-4	1,217	1,263	1,263	1,665	1,866	1,866
SR-11	1,600	1,660	1,660	2,190	2,457	2,457
SR-21	2,342	2,412	2,507	3,506	3,824	3,824
SR-31	3,750	3,863	4,016	5,337	5,497	5,497

Source: Hawaii State Department of Personnel Services, salary schedules and conversion tables.

**Table 9.31-- SALARIES OF SELECTED GOVERNMENT OFFICIALS:
1976, 1990, 1993, AND 1994**

[Annual rates, in dollars, as of January 1]

Government official	1976	1990	1993	1994
Governor	50,000	94,780	94,780	94,780
Lieutenant Governor.....	45,000	90,041	90,041	90,041
Mayor, Honolulu	44,903	84,725	100,000	100,000
Mayor, Hawaii.....	43,644	63,792	76,848	76,848
Mayor, Maui.....	36,070	80,000	85,390	87,098
Mayor, Kauai	34,000	58,500	69,969	69,969
Chief Justice, Supreme Court	47,500	94,780	94,780	94,780
Associate Justice, Supreme Court ...	45,000	78,500	93,780	93,780
President, University of Hawaii.....	45,000	95,000	126,504	150,000

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; DBEDT telephone surveys; newspaper articles; *Data Book* for 1987 (table 328) and 1992 (table 309).

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, military housing, and expenditures by the armed forces. Further information appears in sections 1, 2, 12, and 23.

There were approximately 53,000 officers and enlisted men (including 2,800 aboard ships homeported in Hawaii) and 57,000 military dependents in the Islands as of July 1, 1992. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy and Marine Corps account for half of the current total. More than 8,400 Hawaii residents were in the armed forces worldwide in 1992. The importance of national defense in Hawaii can be further measured by total expenditures (\$3.2 billion), military prime contract awards (\$697 million), civilian employment (19,000), veterans in civil life (119,000), military personnel receiving retired pay (11,400, receiving \$16 million monthly), military-connected pupils in public schools (19,800), military housing (19,700 units), and land owned or controlled by the armed forces (239,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Business, Economic Development & Tourism 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, Department of Defense, and Department of Education. Definitions used by these sources frequently differ to some degree, and care is accordingly 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 DBED. *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: 1993* presents data on national defense and veterans affairs for other states and the entire nation.

Table 10.1-- HAWAII RESIDENTS ON ACTIVE DUTY WITH THE U.S. ARMED FORCES WORLDWIDE: 1950 TO 1993

[As of June 30, unless otherwise specified. 1950-1979 based on preservice residence; 1980-1993, on home of record]

Year	Number	Year	Number	Year	Number
1950	7,699	1965	15,109	1980	11,851
1951	10,958	1966	15,875	1981	11,927
1952	16,594	1967	18,048	1982	11,926
1953	16,217	1968	22,433	1983	11,641
1954	16,189	1969	15,856	1984	11,466
1955	15,175			1985	10,827
1956	15,243	1970	15,331	1986	10,882
1957	14,687	1971	13,600	1987	10,896
1958	13,310	1972	11,600	1988	10,548
1959	12,596	1973	10,200	1989 <u>2/</u>	10,501
		1974	10,810		
1960 <u>1/</u>	12,662	1975	10,640	1990	10,052
1961	11,340	1976	10,600	1991	10,076
1962	13,464	1977	10,640	1992	8,432
1963	14,944	1978	10,715	1993	7,621
1964	15,000	1979 <u>1/</u>	11,069		

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).

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; 1970-1993 from U.S. Department of Defense, Defense Manpower Data Center, records, in Hawaii State Department of Business, Economic Development & Tourism, *The State of Hawaii Data Book* (annual).

**Table 10.2-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS:
1988 TO 1993**

[As of September 30. Excludes Coast Guard]

Year	Active-duty shore-based military personnel <u>1/</u>	Dependents of active-duty military personnel <u>2/</u>	Direct-hire civilian personnel <u>3/</u>
1988	45,843	54,820	20,133
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	...

1/ Excludes Navy personnel afloat or temporary shore-based.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Includes Army personnel performing civil functions.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, *Department of Defense Selected Manpower Statistics* (annual).

**Table 10.3-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES:
1990 TO 1993**

[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, reported elsewhere in this volume]

Date	Personnel and dependents	Military personnel <u>1/</u>			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
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

1/ Ship crews living ashore are included with the ashore total.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers. Air Force and Marine Corps data for 1993 partly estimated.

**Table 10.4-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES,
BY SERVICE AND ISLAND: JULY 1, 1993**

[See headnote to preceding table]

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				
State total	107,603	45,437	29,623	14,529	1,285	62,166	25,952	
By island:								
Oahu.....	107,136	45,246	29,472	14,489	1,285	61,890	25,819	
Hawaii.....	185	67	65	2	-	118	54	
Maui.....	32	15	15	-	-	17	8	
Kauai	250	109	71	38	-	141	71	
Kure Atoll ^{1/}	-	-	-	-	-	-	-	
By service:								
Air Force.....	11,712	4,708	4,302	406	-	7,004	2,931	
Army	43,061	18,540	11,407	7,133	-	24,521	9,416	
Coast Guard	2,444	1,172	847	118	207	1,272	568	
Marine Corps	15,217	8,147	3,444	4,703	-	7,070	2,729	
Navy	35,169	12,870	9,623	2,169	1,078	22,299	10,308	

^{1/} Disestablished effective July 2, 1992.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers. Air Force and Marine Corps data partly estimated.

Table 10.5-- NATIONAL GUARD STRENGTH: 1988 TO 1993

[Actual strength as of late June]

Service	1988	1989	1990	1991	1992	1993
Total.....	5,838	5,769	5,711	5,632	5,628	5,632
Air National Guard.....	2,187	2,159	2,124	2,078	2,128	2,241
Army National Guard.....	3,651	3,610	3,587	3,554	3,500	3,391

Source: Hawaii State Department of Defense, records.

Table 10.6-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1993

Category	All services	Army	Navy	Air Force	Marine Corps
Total.....	88,570	31,821	29,820	11,712	15,217
Military personnel <u>1/</u>	42,958	18,831	11,272	4,708	8,147
Dependents <u>2/</u>	45,612	12,990	18,548	7,004	7,070

1/ Active duty. Data exclude personnel afloat or temporary shore-based.

2/ Dependents of active-duty military personnel.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, letter dated June 16, 1994.

Table 10.7-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1992

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total	62,757	44,864	17,893
Aiea	886	648	238
Barbers Point NAS	1,569	1,302	367
Camp H. M. Smith	799	799	-
Ford Island	368	332	36
Fort Shafter	2,914	1,210	1,704
Hickam AFB	5,269	3,809	1,460
Honolulu	639	327	312
Kailua	151	134	17
Kaneohe	8,459	7,841	618
Kapalama	109	-	109
Kauai	253	131	122
Kunia	452	405	47
Lualualei	501	209	292
Pearl Harbor	18,857	9,464	9,393
Schofield Barracks	15,993	14,927	1,066
Tripler Army Medical Center.....	3,120	1,900	1,220
Wahiawa.....	726	580	146
Wheeler AFB	1,108	693	415
Other	484	153	331

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, 1992*, pp. 6 and 29.

Table 10.8-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1988 TO 1993

Service	1988	1989	1990	1991	1992	1993
Total.....	20,200	20,100	19,350	18,850	18,000	17,550
Air Force.....	2,450	2,350	2,300	2,250	2,200	2,200
Army.....	5,500	5,550	5,600	5,400	4,800	4,650
Navy.....	12,250	12,200	11,450	11,200	11,000	10,700

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (April 1994).

**Table 10.9-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM:
1990 TO 1992**

[In thousands of dollars. Fiscal years ended September 30. Net value of Department of Defense prime contracts over \$25,000]

Procurement program	1990	1991	1992
Total.....	511,893	697,127	622,729
Ships.....	16,086	6,771	14,621
Electronics and communication equipment.....	37,214	20,751	35,863
Petroleum.....	59,274	57,295	60,981
Construction.....	157,555	312,601	282,607
Services.....	198,244	254,257	177,612
All other procurement programs.....	43,520	45,452	51,045

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Prime Contract Awards by Region and State, Fiscal Years 1992, 1991, and 1990*, p. 29.

Table 10.10-- 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: *Honolulu Advertiser*, November 16, 1992, p. A2.

Table 10.11-- HOUSING UNITS OWNED BY THE ARMED FORCES, BY COUNTIES: APRIL 1, 1991 AND 1992

Year	State total	Honolulu	Hawaii	Kauai	Maui
1991.....	19,348	19,272	8	62	6
1992.....	19,688	19,612	8	62	6

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii* (annual).

**Table 10.12-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:
1960 TO 1990**

Veteran status	Civilian males			All civilians <u>1/</u>	
	1960 <u>2/</u>	1970	1980	1980	1990
Civilians 16 and over .	185,069	223,573	316,651	665,036	801,517
Veterans	55,938	89,098	98,633	103,774	119,256
War veterans <u>3/</u>	46,888	75,026	82,230	85,322	87,301
Vietnam era	-	20,548	36,441	38,136	41,860
Korean conflict.....	14,644	20,006	21,860	22,351	22,362
World War II.....	31,053	34,486	31,170	32,156	32,551
World War I.....	3,689	2,501	824	854	132
Peacetime veterans only	9,050	14,072	16,403	18,452	31,955
Nonveterans	129,131	134,475	218,018	561,262	682,261

1/ Not available for female civilians before 1980.

2/ 14 years old and over.

3/ Detail adds to more than subtotal because some veterans served in more than one war.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 48; *1970 Census of Population*, PC(1)-C13, table 50, *1980 Census of Population*, PC80-1-D13, table 204; 1990 Census of Population tapes tabulated by Hawaii State Data Center.

**Table 10.13-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE
DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1993**

Service	Number of personnel		Monthly payment <u>2/</u> (\$1,000)	Payment per person paid <u>2/</u> (dollars)
	Retired <u>1/</u>	Paid by DOD		
Dept. of Defense.....	13,020	11,795	17,203	1,458
Army	5,308	4,725	6,248	1,322
Navy	3,611	3,289	5,023	1,527
Marine Corps.....	882	792	1,332	1,682
Air Force.....	3,219	2,989	4,599	1,539

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.

Source: U.S. Department of Defense, Office of the Actuary, *FY 1993 DOD Statistical Report on the Military Retirement System* (1994), p. 20.

Section 11

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on disability, United Way campaigns, foundations, and the quality of life. Related data are cited in Sections 9 and 13.

Total social welfare costs reached \$573 million in fiscal 1992, compared with \$289 million a decade earlier. About 55 percent of the 1992 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1992 was 59,000, or 5.1 percent of the resident population of the State. Fifty-five percent of all public assistance payments and 43 percent of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was \$542, or 53 percent more than in 1982. Participation in the food stamp program included 37,000 households and 80,000 persons. Among workers receiving unemployment compensation in 1992, weekly benefits averaged \$235. Out of 673,000 persons 16 to 64 years of age, 27,000 reported a mobility or self-care limitation in 1990. About 155,000 Hawaii residents were receiving Social Security benefits in December 1992, and about 137,000 were enrolled for Medicare. There were also over 22,000 State and county government pensioners in 1993, with annual benefits of \$309 million. Child adoptions in 1992 numbered 557. The United Way reported revenues of \$21.4 million and agency allocations of \$13.5 million in 1992. A recent comparative study of the "quality of life" in 300 American metropolitan areas ranked Honolulu seventh.

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 United Way. *Historical Statistics of Hawaii*, Section 8, contains data for earlier years. Section 12 of the *Statistical Abstract of the United States: 1993* presents comparable Mainland data.

Table 11.1-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES: 1982 TO 1992, MONTHLY AVERAGES

[Years ended June 30]

Year	Financial assistance programs <u>1/</u>		Average financial assistance payments <u>2/</u> (dollars)		Service cases	Medical payments <u>3/</u>	
	Cases	Individuals	Per case	Per individual		Cases	Individuals
1982.....	26,130	68,835	355.42	135.05	8,124	11,629	12,228
1983.....	24,157	64,305	371.00	139.56	6,443	12,858	13,186
1984.....	23,378	62,430	369.92	138.72	6,586	12,642	12,939
1985.....	22,212	59,561	368.17	137.50	6,832	12,286	12,519
1986.....	21,119	56,140	368.25	138.67	7,186	12,481	12,710
1987.....	19,531	50,954	367.00	140.86	7,402	13,650	13,858
1988.....	18,394	48,108	414.00	158.00	7,217	12,197	13,731
1989.....	18,851	49,389	473.00	181.00	6,108	(NA)	16,829
1990.....	19,891	51,696	505.00	195.00	5,846	(NA)	18,773
1991.....	20,772	53,327	524.00	204.00	(NA)	(NA)	18,744
1992.....	23,217	59,206	542.00	213.00	(NA)	(NA)	20,532
COUNTIES: 1992							
Hawaii.....	4,981	12,949	555.00	213.00	(NA)	(NA)	3,070
Maui.....	1,506	4,011	554.00	208.00	(NA)	(NA)	1,522
Honolulu	15,815	39,900	537.00	213.00	(NA)	(NA)	14,652
Kauai	915	2,346	529.00	206.00	(NA)	(NA)	1,288

NA Not available.

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance, excluding SSI recipients.

2/ Gross obligation basis

3/ Ineligible for money assistance, receiving medical assistance only.

Source: Hawaii State Department of Human Services, records.

Table 11.2-- PERCENT OF RESIDENT POPULATION SERVED BY FINANCIAL ASSISTANCE PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES, BY COUNTIES: 1991 and 1992

[Based on fiscal year program data and July population estimates]

Year	State	Hawaii	Maui	Honolulu	Kauai
1991	4.7	9.2	3.3	4.3	3.6
1992	5.1	9.9	3.7	4.6	4.3

Source: Hawaii State Department of Human Services, records; present volume, table 1.6.

Table 11.3-- SELECTED SOCIAL WELFARE EXPENDITURES: 1982 TO 1992

[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
1982	289,391	121,911	167,480	22,271	143,068	114,811	9,241
1983	303,782	133,498	170,284	26,616	157,996	111,185	7,985
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	32,499	356,711	162,316	21,940

^{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, records.

**Table 11.4-- FINANCIAL ASSISTANCE PAYMENTS AND CASES:
1991 AND 1992**

[Years ended June 30]

Program	Total payments (\$1,000)		Cases (monthly average)		Average monthly payment (dollars)	
	1991	1992	1991	1992	1991	1992
All programs	190,787	216,121	34,949	37,702	455	478
Old age assistance <u>1/</u>	18,505	20,047	5,646	5,853	273	286
Aid to the blind <u>1/</u>	718	716	185	176	323	340
Aid to disabled <u>1/</u>	35,687	40,430	8,005	8,519	372	395
Aid to families with..... dependent children <u>2/</u> .	103,803	119,671	14,672	16,079	590	620
Child welfare foster..... care	6,394	5,666	1,066	944	500	500
General assistance.....	25,680	29,591	5,375	6,131	398	402

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Human Services, obligations FY report; Social Security Bulletin, tables 2.A8 and 2.A9; DHS Foster Care and PW5 Service for Kids report.

Table 11.5-- FOOD STAMP PROGRAM: 1991 AND 1992

[Years ended June 30]

Subject	1991	1992
Households, total participating (monthly averages)	33,559	37,294
Receiving food stamps and financial assistance.....	18,486	20,791
Receiving only food stamps	15,073	16,503
Persons, total participating (monthly averages)	81,346	89,465
Receiving food stamps and financial assistance.....	53,260	59,047
Receiving only food stamps	28,086	30,418
Value of food stamps given to recipients (\$1,000)	94,474	112,330

Source: Hawaii State Department of Human Services, Food Stamps and IM printout.

Table 11.6-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE, RACE, AND SEX: 1992 AND 1993

[December data. Based on 10-percent sample]

Age, race, and sex	December 1992	December 1993
Total.....	154,950	158,370
Age:		
17 years or under.....	9,550	9,750
18 to 64 years.....	27,010	26,940
65 to 69 years.....	38,250	37,910
70 to 74 years.....	33,300	35,300
75 years or older.....	46,840	48,470
Race:		
White.....	41,920	41,150
Black.....	1,080	2,190
Other.....	111,950	113,400
Beneficiaries other than children:		
Men.....	65,280	66,090
Women.....	77,770	80,120

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1993 and 1994, table 5.J5 in each.

**Table 11.7-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT
STATUS, BY TYPE OF BENEFIT: DECEMBER 1992**

Type of benefit and county	Number of OASDI beneficiaries	Amount of monthly benefits (\$1,000)
Total.....	154,950	90,840
Retirement program:		
Retired workers	108,520	69,770
Spouses	11,010	3,372
Children	3,180	889
Survivor program:		
Widows, widowers, and parents.....	14,550	8,270
Children	6,110	2,793
Disability program:		
Disabled workers.....	8,320	5,199
Spouses	650	100
Children	2,610	447
Age 65 and over:		
Men.....	54,300	38,700
Women	64,090	34,700

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement, 1993*, table 5.J2, 5.J3, 5.J4..

Table 11.8-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT STATUS, BY COUNTIES: DECEMBER 1992

County	Number of OASDI beneficiaries		Amount of monthly benefits (\$1,000)	
	Total	Aged 65 and over	Total	Aged 65 and over
State total 1/	155,120	118,261	90,589	73,328
Hawaii.....	21,505	15,550	12,469	9,749
Honolulu	109,670	84,970	63,993	52,355
Kalawao.....	135	120	75	69
Kauai	8,655	6,565	5,030	4,077
Maui.....	14,920	10,905	8,876	6,980
Unknown	235	155	125	95

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, December 1992*, tables 4 and 5.

Table 11.9-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS: 1987 TO 1992

Year	Number of beneficiaries, December	Monthly amounts, December (\$1,000)	Annual payments (million dollars)
1987.....	138,472	62,847	715
1988.....	141,730	67,493	770
1989.....	145,178	73,297	830
1990.....	148,522	79,859	893
1991.....	151,390	85,182	971
1992.....	154,950	90,840	1,041

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement, 1993*, tables 5.J1, 5.J2, and 5.J4 and earlier reports.

Table 11.10-- MEDICARE BENEFICIARIES ENROLLED AND BENEFIT PAYMENTS: 1991 AND 1992

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments ^{1/} (mil. dol.)	
	1991	1992	1991	1992	1991	1992
Hospital and/or medical insurance	131,091	136,507	121,946	(NA)	282	404
Hospital insurance	127,895	(NA)	118,750	(NA)	-	-
Supplementary medical insurance	123,295	(NA)	115,152	(NA)	-	-
Hospital and medical insurance (both)	120,099	(NA)	111,956	(NA)	-	-

NA Not available.

^{1/} Fiscal years.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, 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 CPH-L-80 and 81, table 1.

**Table 11.12-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM:
1988 TO 1993**

Year	Member- ship, <u>1/</u> March 31	Pensioners and beneficiaries, March 31	Assets, <u>2/</u> June 30 (\$1,000)	Total benefits paid <u>3/</u> (\$1,000)	Average monthly pension <u>3/</u> (dollars)	Adminis- tration expenses <u>3/</u> (dollars)
1988	51,534	19,108	3,419,753	189,131	710	1,954,151
1989	52,655	19,840	3,681,938	217,878	748	1,871,595
1990	53,509	20,495	3,906,923	244,568	787	2,067,028
1991	55,604	21,199	4,187,140	274,849	824	2,297,960
1992	57,401	21,787	4,816,388	284,194	933	2,446,107
1993	59,518	22,387	5,161,102	309,245	987	2,274,981

1/ State and county employees. Includes former employees who have not withdrawn their contributions 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: 1987 TO 1992

Type of adoption	1987	1988	1989	1990	1991	1992
Total	581	611	830	678	592	557
By relatives	414	409	577	479	408	375
By nonrelative	167	202	253	190	176	182
Placed by social agencies	134	167	207	174	153	172

Source: Hawaii State Department of Human Services, tabulations from SRS-NCSS-280 Adoption Cards.

Table 11.14-- UNEMPLOYMENT INSURANCE: 1983 TO 1993

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				
1983	413,289	13,451	45	310.31	70,392	123.22	15.8
1984	422,950	11,567	43	321.58	70,914	135.72	14.8
1985	434,637	10,091	37	332.90	62,123	134.03	14.6
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	(NA)	13,227	53	(NA)	165,877	246.31	17.6

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book, 1994*, and records.

Table 11.15-- CHILD DAY CARE SERVICES WITH PAYROLL, BY FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA: 1987 AND 1991

[Child day care services without payroll subject to Federal income tax, not included in this table, numbered 614 establishments in 1987 with receipts of \$2,812,000]

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
1991						
State total	134		(NA)	(NA)	1,564	
Oahu.....	100		(NA)	(NA)	1,357	
Neighbor Island	34		(NA)	(NA)	207	

NA Not available.

Source: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), tables 1a, 1b, 8a, and 8b; *1987 Census of Service Industries, Nonemployer Statistics Series, West*, SC87-N-4 (March 1990), table 2; *County Business Patterns 1991, Hawaii*, CBP-91-13 (December 1993), tables 1b and 2.

**Table 11.16-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS:
1990 TO 1992**

[Thousands of dollars]

Year and island	Total revenues	Contributions	Total outlays	Agency allocation
1990				
Total reported	16,539	15,549	16,100	11,601
Aloha United Way (Oahu)	14,273	13,355	13,918	9,883
Hawaii Island United Way	1,018	989	1,002	805
United Way of Kauai.....	(NA)	(NA)	(NA)	(NA)
Maui United Way	1,210	1,171	1,147	901
Friendly Isle United Way (Molokai).....	38	34	33	12
1991				
Total reported	17,499	16,665	17,036	13,060
Aloha United Way (Oahu) <u>1/</u>	14,967	14,230	14,800	11,346
Hawaii Island United Way	1,104	1,073	1,047	794
United Way of Kauai.....	(NA)	(NA)	(NA)	(NA)
Maui United Way	1,378	1,320	1,148	902
Friendly Isle United Way (Molokai).....	50	42	41	18
1992				
Total reported	21,365	19,884	18,433	13,455
Aloha United Way (Oahu)	18,683	17,265	15,899	11,574
Hawaii Island United Way	1,210	1,191	1,192	900
United Way of Kauai.....	(NA)	(NA)	(NA)	(NA)
Maui United Way <u>1/</u>	1,425	1,391	1,297	964
Friendly Isle United Way (Molokai).....	47	37	45	17

NA Not available.

1/ Unaudited numbers.

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 11.17-- QUALITY OF LIFE GENERAL INDEX RANKINGS, FOR THE STATE AND HONOLULU METROPOLITAN STATISTICAL AREA: 1988 TO 1993

Area, authority, and year of publication	Number of areas ranked	Honolulu rank
State:		
Morgan Quitno, 1991 <u>1/</u>	50	7
Morgan Quitno, 1992 <u>1/</u>	50	6
Morgan Quitno, 1993 <u>1/</u>	50	9
Honolulu MSA:		
Eisenberg and Englander, 1988 <u>2/</u>	300	43
Eisenberg and Smith, 1989 <u>3/</u>	300	14
Boyer and Savageau, 1989 <u>4/</u>	333	32
Eisenberg and Smith, 1990 <u>5/</u>	300	27
Smith and Englander, 1991 <u>6/</u>	300	27
Smith and Englander, 1992 <u>7/</u>	300	7
Smith and Nance-Nash, 1993 <u>8/</u>	300	124

1/ Morgan Quitno (publisher), *State Rankings* (annual), cited in *Honolulu Advertiser*, October 8, 1991, p. D5, March 10, 1992, p. A10, and April 14, 1993, p. A5.

2/ Richard Eisenberg and Debra Wishik Englander, "The Best Places to Live in America," *Money*, August 1988, pp. 76-84.

3/ Richard Eisenberg and Marguerite T. Smith, "The Best Places to Live in America," *Money* September 1989, pp. 124-141.

4/ Richard Boyer and David Savageau, *Places Rated Almanac*, rev. ed. (Prentice Hall, 1989), p. 397.

5/ Richard Eisenberg and Marguerite T. Smith, "The Best Places to Live Now," *Money*, September 1990, pp. 78-95.

6/ Marguerite T. Smith and Debra Wishik Englander, "The Best Places to Live Now," *Money*, September 1991, pp. 130-146.

7/ Marguerite T. Smith and Debra Wishik Englander, "The Best Places to Live in America," *Money*, September 1992, pp. 110-124.

8/ Marguerite T. Smith and Sheryl Nance-Nash, "The Best Places to Live Now," *Money*, September 1993, pp. 124-142.

**Table 11.18-- QUALITY OF LIFE SPECIAL INDEX RANKINGS, BY
GEOGRAPHIC AREAS: 1987 TO 1993**

Type of index, area ranked, authority, and year of publication	Areas ranked		Local rank
	Type	Number	
CHILDREN'S STRESS INDEXES			
Honolulu:			
ZPG, 1993 <u>1/</u>	MSAs	239	35
	Counties	493	155
	Cities	195	9
OVERALL STRESS INDEXES			
Honolulu:			
Levine, 1988 <u>2/</u>	MSAs	286	175
ZPG, 1988 <u>3/</u>	Cities	192	105
RETIREMENT LOCATION INDEXES			
Honolulu:			
Savageau, 1990 <u>4/</u>	Counties	151	14
Kauai:			
Boyer and Savageau, 1987 <u>5/</u>	Counties	131	83
Maui:			
Boyer and Savageau, 1987 <u>5/</u>	Counties	131	100
Savageau, 1990 <u>4/</u>	Counties	151	93

1/ Zero Population Growth, "ZPG's Children's Stress Index," *The ZPG Reporter*, May 1993.

2/ Robert Levine, "City Stress Index: 25 Best, 25 Worst," *Psychology Today*, November 1988, pp. 52-58.

3/ Zero Population Growth, Inc., *Urban Stress Test* (1988).

4/ David Savageau, *Retirement Places Rated*, 3rd ed. (Prentice Hall Press, 1990), pp. 214-215.

5/ Richard Boyer and David Savageau, *Retirement Places Rated*, 2nd ed. (Rand McNally & Co., 1987), pp. 200-203.

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.

The civilian labor force averaged 583,000 in 1993; of this total, 558,000 persons were employed and 25,000 were unemployed and seeking work. The civilian jobcount rose from 454,000 in 1983 to 590,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders--"moonlighters"--only once. Eight percent of all persons currently employed in the summer of 1988 held two or more jobs.) Areas with large concentrations of workers in 1980 included downtown Honolulu (46,000), Waikiki (30,000), and Pearl Harbor-Hickam (15,000); data for 1990 should soon become available. The unemployment rate averaged 4.2 percent in 1993, with individual island levels ranging from 3.2 to 11.4 percent. By occupation, three out of ten civilian workers are classified as professional or managerial. Activities with especially large numbers of employees include services (164,000 in 1993), retail trade (111,000), and government (112,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached \$25,500 in 1992, or 4.1 percent more than the 1982 average after adjustment for inflation. Average weekly hours in 1992 were 38.6 for all civilian workers and 48.6 for those on full-time schedules, and by industry ranged from 28.1 (for retail trade) to 44.9 (for communication and utilities). Labor union membership was estimated at 165,000 in 1992. Work stoppages in the five-year period ended in 1993 involved more than 7,600 workers.

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: 1993*.

Table 12.1-- 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	424,203
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, and 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 CPH-L-80, table 2.

Table 12.2-- LABOR FORCE CHARACTERISTICS, BY COUNTIES: 1990

Subject	The State	Hawaii	Hono- lulu	Kala- wao	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 12.3-- SELECTED LABOR FORCE AND COMMUTING CHARACTERISTICS, FOR THE STATE AND OAHU: 1990

Subject	State total	Oahu only
LABOR FORCE STATUS		
Females 16 years and over	421,315	320,345
With own children under 6 years	68,218	51,261
Percent in labor force	63.4	63.1
With own children 6 to 17 years only	68,083	50,385
Percent in labor force	81.6	81.6
Own children under 6 years in families and subfamilies....	95,622	71,395
All parents present in household in labor force	57,489	42,594
Own children 6 to 17 years in families and subfamilies	171,939	124,553
All parents present in household in labor force	126,493	91,916
Persons 16 to 19 years	57,184	43,946
Not enrolled in school and not high school graduate	4,267	3,096
Employed or in Armed Forces	2,063	1,440
Unemployed	564	408
Not in labor force	1,640	1,248
COMMUTING TO WORK		
Workers 16 years and over	567,765	437,518
Percent drove alone	60.5	57.6
Percent in carpools	20.5	20.9
Percent using public transportation	7.4	9.3
Percent using other means	2.6	2.8
Percent walked or worked at home	9.0	9.3
Mean travel time to work (minutes)	23.8	24.8

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 2.

Table 12.4-- LABOR FORCE STATUS OF THE CIVILIAN NON-INSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGES, 1991 AND 1992

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
1991				
Civilian noninstitutional population	817	387	430	50
Civilian labor force	561	296	265	22
Percent of population	68.6	76.4	61.7	44.6
Employment	546	288	258	20
Percent of population	66.8	74.3	60.0	39.8
Unemployment	15	8	7	2
Rate ^{1/}	2.8	2.7	2.8	10.9
Not in civilian labor force	256	91	165	28
1992				
Civilian noninstitutional population	832	393	438	51
Civilian labor force	572	301	271	26
Percent of population	68.8	76.5	61.9	50.9
Employment	547	287	260	22
Percent of population	65.7	72.9	59.3	42.5
Unemployment	26	14	11	4
Rate ^{1/}	4.5	4.8	4.2	16.4
Not in civilian labor force	260	92	167	25

^{1/} Percent of civilian labor force. The 1992 error ranges for these rates, at the 90-percent confidence level, are: both sexes, 3.9-5.1; men, 3.9-5.6; women, 3.4-5.1; 16-19, 11.6-21.2.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1991* (Bulletin 2410, August 1992), p. 40, and *Geographic Profile of Employment and Unemployment, 1992* (Bulletin 2428, July 1993), p. 40.

Table 12.5-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, BY RACE AND HISPANIC ORIGIN: 1992

Race or origin ^{1/}	Both sexes	Female
All races.....	573,000	271,200
White	187,050	86,050
Asian or Pacific Islander	367,850	176,700
Black	7,150	3,550
Amer. Indian, Eskimo, or Aleut	2,750	1,400
Other race.....	8,250	3,550
Minority group.....	385,950	185,150
Hispanic (all races)	34,750	16,250

^{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 12.6-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:
ANNUAL AVERAGES, 1970 TO 1993**

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976	410,000	370,000	40,000	9.8
1977	418,000	388,000	31,000	7.3
1978	420,000	388,000	32,000	7.7
1979	422,000	395,000	26,000	6.3
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	543,000	528,000	15,000	2.8
1991	567,000	551,000	16,000	2.8
1992	578,000	552,000	26,000	4.5
1993	583,000	558,000	25,000	4.2

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book*, April 1994.

Table 12.7-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1980 TO 1993

[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							
1980	338,350	43,550	19,550	37,550	1,300	33,900	2,350
1981	345,700	45,450	20,100	39,800	1,250	36,000	2,500
1982	350,100	47,200	20,800	42,850	1,300	38,950	2,600
1983	357,100	48,350	21,650	44,850	1,150	40,950	2,750
1984	357,100	48,650	21,300	44,950	1,150	41,250	2,550
1985	359,600	50,400	22,050	46,950	1,050	43,550	2,300
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	404,550	56,800	26,050	55,600	1,350	51,500	2,800
1991	416,950	62,050	28,200	59,800	1,500	55,500	2,800
1992	421,200	63,700	29,000	64,150	1,600	59,450	3,100
1993 <u>1/</u>	425,450	64,200	28,150	65,250	1,550	60,700	3,000
CIVILIAN EMPLOYMENT							
1980	322,800	40,850	18,700	35,650	1,200	32,450	2,050
1981	328,500	42,150	18,900	37,450	1,150	34,150	2,150
1982	328,600	42,700	19,150	39,550	1,100	36,250	2,200
1983	336,550	44,050	20,000	41,450	1,050	38,150	2,200
1984	338,050	44,900	19,800	42,250	1,000	39,000	2,200
1985	341,150	46,150	20,550	44,150	850	41,300	2,000
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	394,750	54,750	25,150	53,300	1,300	49,650	2,400
1991	407,550	59,450	27,100	56,950	1,450	52,950	2,550
1992	407,850	58,800	26,300	59,100	1,500	54,950	2,650
1993 <u>1/</u>	411,700	59,500	24,900	61,900	1,400	57,700	2,750

Continued on next page.

Table 12.7-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1980 TO 1993 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1980	15,550	2,700	850	1,900	100	1,500	350
1981	17,150	3,350	1,150	2,350	150	1,900	300
1982	21,500	4,500	1,700	3,300	250	2,700	400
1983	20,600	4,350	1,650	3,400	100	2,800	550
1984	19,100	3,700	1,500	2,700	150	2,200	350
1985	18,450	4,250	1,500	2,800	200	2,250	300
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	9,750	2,050	900	2,300	50	1,850	400
1991	9,400	2,600	1,100	2,900	100	2,550	250
1992	13,350	4,950	2,700	5,050	100	4,500	450
1993 ^{1/}	13,750	4,650	3,200	3,350	150	3,000	250
PERCENT UNEMPLOYED							
1980	4.6	6.2	4.2	5.1	7.7	4.4	13.9
1981	5.0	7.3	5.8	5.9	10.6	5.2	12.9
1982	6.1	9.6	8.1	7.7	17.1	6.9	15.2
1983	5.8	9.0	7.7	7.6	9.0	6.8	19.4
1984	5.3	7.7	7.0	6.0	11.1	5.4	13.8
1985	5.1	8.5	6.8	5.9	20.1	5.2	13.0
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	2.4	3.6	3.5	4.1	5.3	3.6	14.6
1991	2.3	4.2	3.9	4.8	5.5	4.6	8.5
1992	3.2	7.7	9.3	7.9	7.1	7.6	13.8
1993 ^{1/}	3.2	7.3	11.4	5.2	9.2	4.9	7.8

^{1/} Provisional.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book*, April 1994.

**Table 12.8-- CHARACTERISTICS OF THE INSURED UNEMPLOYED:
ANNUAL AVERAGES, 1992**

[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.....	100.0	Industry--con.:	
Age:		Fin., ins., real estate.....	3.8
Under 22 years.....	3.1	Services.....	22.8
22 to 24 years.....	6.1	Hotel.....	7.0
25 to 34 years.....	32.0	Others.....	1.7
35 to 44 years.....	30.9	Occupation:	
45 to 54 years.....	16.9	Prof., tech., mgr.....	19.0
55 to 64 years.....	8.6	Clerical, sales.....	14.2
65 years and over.....	2.5	Services.....	9.8
Sex:		Farm, fish., forest.....	3.4
Male.....	66.7	Processing.....	0.7
Female.....	33.3	Machine trades.....	1.8
Industry:		Bench work.....	1.1
Government.....	4.8	Structural work.....	24.9
Agriculture.....	4.3	Miscellaneous.....	5.0
Construction.....	34.2	Not available.....	20.1
Manufacturing.....	6.8	Duration:	
Trans., commun., util.....	7.1	1 to 4 weeks.....	35.6
Wholesale, retail trade.....	16.3	5 to 14 weeks.....	41.5
		15 weeks and over.....	22.9

Source: Hawaii State Department of Labor and Industrial Relations, *Characteristics of the Insured Unemployed in Hawaii 1992*.

**Table 12.9-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES,
1980 TO 1993**

[Persons holding more than one job are counted in each position. As a result, these data differ from corresponding estimates of employment, reported elsewhere in this section. Active-duty armed forces are excluded, unless also employed in civilian jobs. Persons not working because of labor disputes are included. Because of a change in the method of estimating nonagricultural self-employed and unpaid family workers, jobcount estimates for 1987 and later years are not exactly comparable to those for earlier years]

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1980	448,150	357,900	38,200	18,400	33,850
1981	449,900	357,350	39,050	18,300	35,150
1982	446,050	352,150	39,050	18,300	36,600
1983	453,750	357,100	39,850	18,900	37,850
1984	460,450	361,600	41,000	18,950	38,850
1985	473,150	369,800	42,400	19,900	41,100
1986	486,850	379,800	43,300	21,200	42,500
1987	504,950	391,800	45,600	22,450	45,100
1988	524,500	404,550	47,500	24,250	48,100
1989	552,000	421,650	52,000	26,600	51,850
1990	574,950	435,950	55,850	27,250	55,650
1991	588,200	411,850	59,400	28,800	58,250
1992	591,300	443,850	58,950	27,900	60,600
1993	590,250	442,900	58,850	25,800	62,750

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (April 1994).

**Table 12.10-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1980 AND
1990 TO 1993**

Industry	1980	1990	1991	1992	1993
Nonagriculture, wage and salary	404,100	528,400	539,150	542,800	539,400
Contract construction <u>1/</u>	23,950	32,300	33,550	31,550	32,300
Manufacturing.....	23,350	21,050	20,450	19,700	19,150
Durable goods	4,700	4,400	4,450	4,250	4,100
Nondurable goods	18,650	16,650	16,000	15,450	15,050
Food processing	11,150	9,350	8,750	8,350	7,850
Pineapple.....	2,900	1,650	1,350	1,200	900
Sugar.....	3,900	2,550	2,350	2,200	2,050
Other.....	4,350	5,150	5,050	4,950	4,900
Textile, apparel	3,050	2,200	2,100	2,100	2,250
Printing, publishing	3,100	3,600	3,650	3,500	3,500
Other nondurables.....	1,350	1,500	1,500	1,500	1,450
Transp., commun., utilities	31,200	42,250	43,300	43,250	41,100
Transportation	21,500	31,850	32,850	32,900	31,100
Communication.....	7,150	7,400	7,350	6,900	6,450
Utilities	2,550	3,000	3,100	3,400	3,550
Trade	105,250	135,950	136,450	135,750	132,700
Wholesale.....	18,600	22,500	22,750	22,500	21,850
Retail	86,700	113,450	113,700	113,250	110,850
Finance, insur., real estate	32,850	36,800	37,400	37,950	39,050
Services and miscellaneous..	98,450	154,400	159,100	163,550	163,550
Hotels	24,900	38,750	40,800	40,950	38,000
Other services, misc.....	73,550	115,650	118,300	122,600	125,550
Government.....	89,050	105,600	108,900	111,100	111,600
Federal	30,000	34,150	33,850	33,250	31,850
Air Force	2,650	2,300	2,250	2,200	2,200
Army	4,100	5,600	5,400	4,800	4,650
Navy	11,950	11,450	11,200	11,100	10,700
Other.....	11,250	14,800	15,000	15,150	14,300
State	45,150	57,050	60,250	62,600	64,250
Local	13,900	14,400	14,750	15,250	15,500
Agriculture, wage and salary	10,650	9,550	9,550	9,300	8,550
Sugar	4,950	3,100	2,950	2,850	2,500
Pineapple.....	2,500	1,850	1,700	1,450	1,350
Other	3,200	4,600	4,850	5,000	4,700
Nonagric., self-employed <u>2/</u>	28,300	32,750	35,250	34,850	38,350
Agric., self-employed <u>3/</u>	4,600	3,600	4,250	4,350	3,950
Labor disputes.....	500	650	-	-	(Z)

Footnotes and source follow next table.

**Table 12.11-- JOBCOUNT BY INDUSTRY, BY COUNTIES:
ANNUAL AVERAGE, 1993**

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	539,400	415,050	47,650	23,950	54,250
Construction, mining.....	32,300	24,050	3,000	1,400	2,500
Manufacturing.....	19,150	14,000	2,250	900	2,100
Durable goods	4,100	3,550	200	(Z)	250
Nondurable goods	15,050	10,450	2,050	900	1,850
Food processing.....	7,850	4,100	1,650	750	1,550
Textile, apparel.....	2,250	2,150	(NS)	(NS)	(NS)
Printing, publishing	3,500	2,900	(NS)	(NS)	(NS)
Other nondurables.....	1,450	1,300	400	150	300
Transp., commun., utilities	41,100	33,850	2,550	2,350	3,200
Transportation	31,100	26,000	1,650	(NS)	2,350
Communication.....	6,450	5,300	(NS)	(NS)	(NS)
Utilities	3,550	2,500	(NS)	(NS)	(NS)
Trade	132,700	100,150	12,350	7,050	14,750
Wholesale.....	21,850	18,200	1,800	500	1,350
Retail	110,850	81,950	10,550	6,550	13,450
Finance, insur., real estate	39,050	32,100	2,600	1,400	3,050
Services and miscellaneous..	163,550	120,500	14,950	7,500	21,500
Hotels	38,000	18,350	6,000	3,800	11,600
Other services, misc.....	125,550	102,150	8,950	3,700	9,900
Government.....	111,600	90,400	9,950	3,350	7,100
Federal	31,850	30,100	850	350	450
Air Force, Army, Navy .	17,550	17,250	(NS)	(NS)	(NS)
Other.....	14,300	12,850	(NS)	(NS)	(NS)
State	64,250	49,750	7,000	2,100	4,800
Local	15,500	10,550	2,100	900	1,850
Agriculture, wage and salary	8,550	2,100	3,200	1,150	2,200
Sugar	2,500	350	500	950	850
Pineapple.....	1,350	600	-	-	750
Other	4,700	1,150	2,700	200	650
Nonagric., self-employed <u>2/</u>	38,350	24,900	5,600	1,900	5,850
Agric., self-employed <u>3/</u>	3,950	850	2,400	250	450
Labor disputes.....	(Z)	(Z)	-	(Z)	-

Footnotes and source on next page.

**Table 12.11-- JOBCOUNT BY INDUSTRY, BY COUNTIES:
ANNUAL AVERAGE, 1993 -- Con.**

Z Fewer than 50.
 NS Not shown separately.
 1/ Construction and mining after 1990.
 2/ Includes unpaid family workers and domestics. Data for 1980 are not comparable to later years. Data for 1990-1992 are revised.
 3/ Includes unpaid family workers. Data for 1990-1992 are revised.
 Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (April 1994).

**Table 12.12-- CIVILIAN EMPLOYMENT, FULL- AND PART-TIME:
ANNUAL AVERAGES, 1992**

[Thousands]

Year, sex, and age	Full- and part-time	Full time	Part-time		
			Total	Voluntary	Economic reasons
Total.....	547	458	89	76	12
Male	287	254	32	27	5
Female	260	204	56	49	7
16 to 19 years (both sexes).....	22	7	15	14	1

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1992* (Bulletin 2428, July 1993), table 13.

Table 12.13-- 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 CPH-L-80, table 2.

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-C13 (June 1983), table 67; 1990 CPH-L-80, table 2.

Table 12.15-- OCCUPATION: 1970 TO 1990

Occupation	1970	1980	1990
Employed persons 16 years and over	285,556	415,181	529,059
Managerial and professional specialty occupations	58,242	97,606	139,523
Executive, administrative, and managerial occupations..	25,048	48,671	67,907
Professional specialty occupations	33,194	48,935	71,616
Technical, sales, and administrative support occupations ...	83,698	132,651	172,654
Technicians and related support occupation	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 CPH-L-80, table 2.

**Table 12.16-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX:
ANNUAL AVERAGES, 1992**

Occupation	Both sexes	Men	Women
All occupations (number in thousands)	547	287	260
Percent	100.0	100.0	100.0
Managerial and professional specialty:			
Executive, administrative, and managerial.....	14.1	15.1	12.9
Professional specialty.....	13.7	12.8	14.8
Technical, sales, and administrative support:			
Technicians and related support.....	3.4	2.8	4.0
Sales	11.8	9.3	14.5
Administrative support, including clerical	16.7	6.6	27.8
Service occupations	17.1	14.4	20.2
Precision production, craft, and repair.....	10.9	19.3	1.5
Operators, fabricators, and laborers:			
Machine operators, assemblers, and inspectors..	2.2	3.3	1.0
Transportation and material moving.....	2.8	4.7	0.6
Handlers, equipment cleaners, helpers, and laborers.....	3.7	6.3	0.9
Farming, forestry, and fishing.....	3.7	5.4	1.8

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1992* (Bulletin 2428, July 1993), table 15.

**Table 12.17-- 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 <u>1/</u>	Remainder of Oahu <u>1/</u>
Total.....	437,518	193,364	244,154
Oahu	432,293	191,982	240,311
Honolulu CDP <u>1/</u>	277,583	171,387	106,196
Remainder of Oahu <u>1/</u>	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 12.18-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1982 TO 1992

Year	Number of employers, December 1/	Average employment	Wages and salaries	
			Total (\$1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1982	20,259	408,791	6,281,953	15,367
1983	20,937	413,767	6,668,001	16,115
1984	21,288	421,821	7,050,512	16,714
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 (rev.)	26,149	510,232	11,038,771	21,635
1990 (rev.)	27,277	534,432	12,350,266	23,109
1991 (rev.)	29,688	543,397	13,069,372	24,051
1992	30,496	547,883	13,988,506	25,532
EXCLUDING GOVERNMENT				
1987	24,680	373,955	6,738,448	18,019
1988	24,781	389,024	7,564,054	19,444
1989 (rev.)	26,143	413,046	8,532,379	20,657
1990	27,271	432,910	9,625,759	22,235
1991 (rev.)	29,682	439,337	10,183,763	23,180
1992	30,490	440,881	10,837,155	24,581
PRIVATE NON-AGRICULTURAL				
1987	24,145	362,271	6,543,781	18,063
1988	24,211	376,884	7,341,568	19,480
1989 (rev.)	25,554	401,002	8,304,991	20,711
1990	26,647	420,717	9,386,430	22,311
1991 (rev.)	29,031	427,001	9,933,990	23,265
1992	29,823	429,022	10,584,046	24,670

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 12.19-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1990

[Revised from *Data Book 1991*, table 351]

County or island	Number of employers, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	27,277	534,432	12,350,266	23,109
City and Co. of Honolulu	19,432	409,756	9,816,024	23,956
Hawaii County	3,313	48,706	967,947	19,873
Kauai County	1,493	24,888	488,627	19,633
Maui County	3,045	51,083	1,077,667	21,096
EXCLUDING GOVERNMENT				
State total	27,271	432,910	9,625,759	22,235
City and Co. of Honolulu	19,429	325,809	7,562,150	23,210
Hawaii County	3,310	40,306	744,567	18,473
Kauai County	1,490	21,527	398,445	18,509
Maui County	3,042	45,268	920,596	20,337

Source: Hawaii State Department of Labor and Industrial Relations, *1990 Employment and Payrolls in Hawaii* (September 1991) and *1992 Employment and Payrolls in Hawaii* (September 1993).

**Table 12.20-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES, BY COUNTIES: 1991**

[Revised from *Data Book 1992*, table 364]

County or island	Number of employers, Dec. 1/	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	29,688	543,397	13,069,372	24,051
City and Co. of Honolulu	20,988	413,048	10,292,759	24,919
Hawaii County	3,684	50,955	1,071,832	21,035
Kauai County	1,646	26,393	541,485	20,516
Maui County	3,376	53,001	1,163,296	21,949
EXCLUDING GOVERNMENT				
State total	29,682	439,337	10,183,763	23,180
City and Co. of Honolulu	20,985	327,726	7,930,256	24,198
Hawaii County	3,681	42,056	825,104	19,619
Kauai County	1,643	22,857	442,419	19,356
Maui County	3,373	46,698	985,984	21,114

1/ Not comparable to data for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, *1991 Employment and Payrolls in Hawaii* (September 1992) and *1992 Employment and Earnings in Hawaii* (September 1993).

Table 12.21-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1992

County or island	Number of employers, Dec. 1/	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	30,496	547,883	13,988,506	25,532
City and Co. of Honolulu	21,528	417,055	11,064,438	26,530
Hawaii County	3,791	50,382	1,105,544	21,943
Kauai County	1,729	25,430	565,038	22,219
Maui County	3,454	55,016	1,253,486	22,784
EXCLUDING GOVERNMENT				
State total	30,490	440,881	10,837,155	24,581
City and Co. of Honolulu	21,525	329,820	8,492,229	25,748
Hawaii County	3,788	41,071	835,431	20,341
Kauai County	1,726	21,650	453,065	20,927
Maui County	3,451	48,340	1,056,430	21,854

1/ Not comparable to data for years before 1991.

Source: Hawaii State Department of Labor and Industrial Relations, *1992 Employment and Payrolls in Hawaii* (September 1993).

Table 12.22-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1992

Industry	Number of employers, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
All industries	30,496	547,883	13,988,506	25,532
Government.....	6	107,003	3,151,351	29,451
Federal	1	33,364	1,069,394	32,052
State	1	58,246	1,593,897	27,365
County	4	15,392	488,059	31,709
Private	30,490	440,881	10,837,155	24,581
Agriculture, forestry, fisheries.....	667	11,859	253,109	21,343
Sugar	16	2,999	75,178	25,068
Pineapple.....	6	1,512	33,556	22,193
Other.....	645	7,348	144,374	19,648
Mining	10	303	14,182	46,806
Construction	2,805	31,414	1,254,093	39,921
Manufacturing.....	1,046	19,725	535,064	27,126
Sugar mills.....	12	2,210	57,730	26,122
Pineapple canning	2	1,209	32,362	26,768
Other food processing	224	4,939	111,636	22,603
Other manufacturing.....	809	11,368	333,336	29,322
Transportation	1,343	33,017	948,542	28,729
Communications.....	200	6,894	266,781	38,698
Utilities.....	88	3,431	170,131	49,587
Wholesale trade.....	2,474	22,647	657,931	29,052
Retail trade	7,244	113,879	1,777,735	15,611
Eating and drinking places	2,376	47,039	567,099	12,056
Other retail trade.....	4,868	66,840	1,210,637	18,112
Finance, insurance, real estate	3,955	37,852	1,147,368	30,312
Services.....	10,517	159,551	3,805,106	23,849
Hotels, rooming houses, etc.	315	40,982	840,992	20,521
Health services.....	2,197	32,436	1,083,170	33,394
Other services	8,005	86,133	1,880,944	21,838
Nonclassifiable establishments	141	310	7,111	22,939

Source: Hawaii State Department of Labor and Industrial Relations, *1992 Employment and Payrolls in Hawaii* (September 1993), pp. 6-7.

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: 1969 TO 1992

Year	Current dollars	1982-1984 dollars ^{1/}	Year	Current dollars	1982-1984 dollars ^{1/}
1969	6,876	17,452	1981	14,471	15,781
1970	7,424	17,889	1982	15,367	15,810
1971	7,677	17,771	1983	16,115	16,229
1972	7,989	17,913	1984	16,714	16,149
1973	8,479	18,195	1985	17,335	16,231
1974	9,087	17,645	1986	18,069	16,516
1975	9,767	17,348	1987	19,060	16,588
1976	10,347	17,508	1988	20,454	16,807
1977	10,903	17,557	1989	21,635	16,810
1978	11,630	17,384	1990	23,156	16,768
1979	12,429	16,728	1991	24,116	16,295
1980	13,548	16,323	1992	25,532	16,462

^{1/} Deflated by the all-items consumer price index (CPI-U) for Honolulu.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual).

Table 12.24-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1992

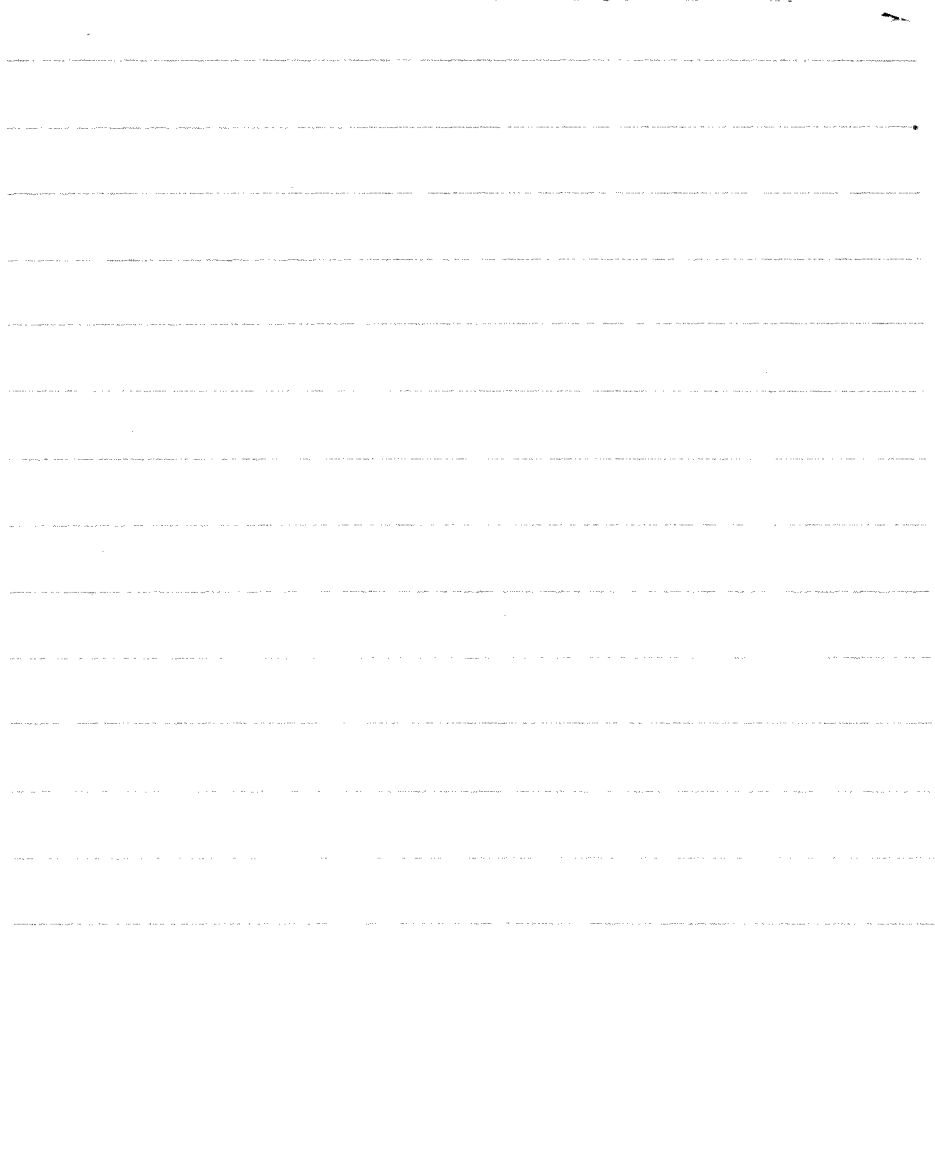
Subject	All units	Employment-size class					
		1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 or more
Reporting units	30,490	16,202	6,061	3,959	2,696	941	631
Employment	443,233	28,270	40,010	53,730	81,149	64,173	175,901

Source: Hawaii State Department of Labor and Industrial Relations, *1992 Employment and Payrolls in Hawaii* (September 1992), p. 20.

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**Table 12.25-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE:
1982 TO 1992**

[For earlier years, 1975-1981, see *Data Book 1987*, table 386]

Year	Annual wages per employee (dollars)		Hawaii as percent of U.S.		Rank ^{1/}	
	Total	Private only	Total	Private only	Total	Private only
1982	15,353	14,202	92.0	85.5	31	42
1983	16,108	14,898	92.1	85.8	30	40
1984	16,701	15,456	91.0	85.0	31	41
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	18

^{1/} Among 50 States and D.C. Excluding D.C., Hawaii ranked 12th for all workers and 19th for private workers in 1992.

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, 1988 TO 1993**

Subject	1988	1989	1990	1991	1992	1993
Average weekly earnings (dollars)						
Contract construction	706.10	756.56	778.95	803.32	792.06	864.88
Manufacturing.....	393.60	414.80	442.90	453.32	464.40	476.80
Food and kindred products.	362.03	368.34	385.28	392.20	399.34	420.21
Communication and utilities	650.62	683.65	694.85	714.60	788.00	826.10
Trade <u>1/</u>	245.70	259.20	282.94	306.24	262.84	275.40
Wholesale trade.....	342.88	358.27	381.21	417.20	437.31	441.60
Retail trade <u>1/</u>	216.04	228.30	251.84	269.70	229.86	245.10
Banking & credit agencies.....	305.33	321.48	343.49	373.46	387.39	397.17
Hotels	281.22	300.81	318.40	333.00	351.42	367.73
Average weekly hours						
Contract construction	37.8	38.6	38.6	38.0	36.4	37.9
Manufacturing.....	40.0	40.0	40.3	39.8	40.0	39.8
Food and kindred products.	41.0	40.3	40.9	40.6	41.0	41.4
Communication and utilities	44.2	44.8	44.8	43.1	44.9	44.2
Trade <u>1/</u>	32.5	32.4	32.9	33.0	29.8	30.0
Wholesale trade.....	38.7	38.9	39.3	39.1	38.7	38.3
Retail trade <u>1/</u>	30.6	30.4	30.9	31.0	28.1	28.5
Banking & credit agencies.....	38.6	38.5	38.9	38.7	38.7	38.3
Hotels	33.8	34.3	34.2	33.4	33.5	33.4
Average hourly earnings (dollars)						
Contract construction	18.68	19.60	20.18	21.14	21.76	22.82
Manufacturing.....	9.84	10.37	10.99	11.39	11.61	11.98
Food and kindred products.	8.83	9.14	9.42	9.66	9.74	10.15
Communication and utilities	14.72	15.26	15.51	16.58	17.55	18.69
Trade <u>1/</u>	7.56	8.00	8.60	9.28	8.82	9.18
Wholesale trade.....	8.86	9.21	9.70	10.67	11.30	11.53
Retail trade <u>1/</u>	7.06	7.51	8.15	8.70	8.18	8.60
Banking & credit agencies.....	7.91	8.35	8.83	9.65	10.01	10.37
Hotels	8.32	8.77	9.31	9.97	10.49	11.01

1/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (April 1994).

Table 12.27-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1989 TO 1993

[In dollars]

Job classification ^{1/}	1989	1990	1991	1992	1993
MONTHLY RATES					
Junior (entry level) clerk	1,112	1,181	1,228	1,299	1,367
Clerk-stenographer.....	1,769	1,737	1,849	1,961	2,170
Secretary	1,680	1,762	1,871	2,006	2,085
Switchboard operator	1,333	1,414	1,435	1,633	1,775
Bookkeeper, full-charge	1,914	2,108	2,244	2,055	2,296
Engineering drafting technician	2,216	2,065	2,440	2,577	2,564
Hospital attendant	1,306	1,376	1,533	1,650	1,690
Staff nurse	2,746	2,999	3,456	3,690	3,933
HOURLY RATES					
Housekeeper	7.503	7.856	8.499	8.943	9.394
Cook, general	9.082	9.603	10.909	10.928	9.977
Waiter/waitress	4.259	4.409	4.614	5.075	5.254
Laborer (light)	7.672	7.785	8.229	8.483	8.732
Carpenter (maintenance)	11.701	12.007	13.817	14.061	14.859
Electrician (maintenance).....	13.447	14.300	15.456	15.587	16.145
Automotive mechanic	11.872	12.486	13.110	13.567	14.688
Truck driver (trailer)	10.12	10.13	10.77	10.59	11.642

^{1/} The 16 job titles listed in this table are meant to be only illustrative of the 100 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: 1993

[In dollars]

Job classification ^{1/}	State average	Kauai	Oahu	Maui County	Hawaii County
ANNUAL RATES					
Junior (entry level) clerk	16,407	15,847	16,432	18,530	14,948
Clerk-stenographer.....	26,035	...	26,267	...	...
Secretary	25,016	23,952	25,114	25,326	22,667
Switchboard operator	21,303	...	21,315	21,520	...
Bookkeeper, full-charge	27,548	...	27,593	...	...
Engineering drafting technician	30,763	...	32,403	...	...
Hospital attendant	20,283	20,621	20,206	20,554	...
Staff nurse	47,191	47,725	47,267	40,649	49,157
HOURLY RATES					
Housekeeper	9.394	9.207	9.415	9.153	...
Cook, general	9.977	9.735	9.881	12.496	8.532
Wait help	5.254	...	5.254	5.259	...
Laborer (light)	8.732	...	8.827	8.831	6.212
Carpenter (maintenance)	14.859	...	14.995	14.438	...
Electrician (maintenance).....	16.145	...	16.916	15.328	...
Automotive mechanic.....	14.688	13.153	15.083	14.314	13.009
Truck driver (trailer).....	11.642	12.085	11.759	9.904	11.980

^{1/} See preceding table, footnote 1.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (Special Publication No. 226, September 1993).

Table 12.29-- WAGE RATES FOR SPECIFIED JOB TITLES: 1993

[In dollars. Data are shown for only a few of the more than 3,900 job titles listed in the source, primarily to suggest the type of information and occupational detail available there]

Job title	Data source	Pay period	Wage range	
			Low	High
Accountant	Private	Hourly	11.35	19.01
Cannery warehouse worker	Private	Hourly	6.35	7.90
Clerk, data entry	Private	Hourly	8.22	10.57
Engineer, civil	Local govt.	Monthly	2,229	4,887
Host/hostess.....	Private	Hourly	7.56	11.50
Laborer, general	Private	Hourly	6.59	8.54
Nurse, licensed practical	State govt.	Monthly	1,668	2,360
Police officer.....	Local govt.	Monthly	2,452	3,530
Professor	State govt.	Monthly	3,652	7,695
Secretary	Private	Hourly	10.34	17.49

Source: Hawaii State Department of Labor and Industrial Relations, *Selected Wage Information for Hawaii 1993* (November 1993).

Table 12.30-- TOTAL COMPENSATION PAID TO EXECUTIVES OF MAJOR CORPORATIONS AND LABOR UNION LEADERS: 1993

[\$1,000]

Category	Total	Less than 100	100 to 249	250 to 499	500 to 999	1,000 or more	Highest
Corporate executives <u>1/</u> ...	25	-	-	11	10	4	1,446.1
Union leaders <u>2/</u>	20	16	4	-	-	-	249.6

1/ Total compensation includes awards of stock and cash paid under long-term incentive plans.

2/ Gross salaries, excluding allowances and expense reimbursements.

Source: *Honolulu Advertiser*, May 1, 1994, pp. F1 and F2, and June 19, 1994, pp. E1 and E2.

Table 12.31-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1994

[Dollars per hour. As of July 1, unless otherwise specified]

Effective date	Oahu	Other islands	Effective date	State	Effective date	State
1942 <u>1/</u>	0.25	0.20	1962	1.15	1979.....	2.90
1943	0.30	0.25	1964 <u>2/</u>	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 <u>2/</u>	3.85
1955	0.75	0.65	1974	2.00	1992 <u>3/</u>	4.75
1957	0.90	0.85	1975	2.40	1993 <u>2/</u>	5.25
1958	1.00	1.00	1978.....	2.65	1994 <u>4/</u>	5.25

1/ At inception of minimum wage law, April 1, 1942.

2/ January 1.

3/ April 1.

4/ Current minimum as of June 15, 1994.

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, 1982 TO 1992**

Year	All civilians at work	Full-time schedules <u>1/</u>	Year	All civilians at work	Full-time schedules <u>1/</u>
1982	37.4	43.1	1988	39.0	44.6
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			

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-- WEEKLY HOURS OF WORK, FOR CIVILIAN WORKERS:
ANNUAL AVERAGES, 1992**

Hours of work	Civilian workers (1,000)	Age, sex, or race	Average hours
Total at work.....	513	Total at work.....	38.6
1 to 14 hours	20	Full-time schedules <u>1/</u> ...	48.6
15 to 29 hours	68	Men.....	40.6
30 to 34 hours	57	Women.....	36.3
35 to 39 hours	25	Both sexes, 15 to 19 years	23.9
40 hours	223	White.....	39.3
41 to 48 hours	38		
49 hours and over	81		

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, 1992* (Bulletin 2428, July 1993), table 18.

Table 12.34-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1987 TO 1992

Type of job-seeker	1987	1988	1989	1990	1991	1992
Island workers on Mainland <u>1/</u>	3,805	3,942	3,961	5,275	7,197	9,554
Mainland workers in Hawaii <u>2/</u>	3,161	2,974	2,679	2,910	3,453	4,432
Ratio <u>3/</u>	83	75	68	55	48	46

1/ Interstate liable initial claims, excluding UCFE and UCX. Covers Hawaii workers seeking work and filing for benefits on Mainland. Includes Federal civilian employees and ex-servicemen.

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 per 100 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, 1993*, p. 15.

Table 12.35-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1991

[Data exclude agricultural employers with fewer than 11 employees]

Subject	Total	Injuries	Illnesses
Recordable cases.....	36,249	35,531	718
Per 100 full-time workers.....	10.6	10.4	0.2
Lost workday cases.....	20,513	20,103	410
Lost workdays	426,454	415,137	11,317
Per lost workday case	21	21	28
Nonfatal cases without lost workdays	15,729	15,426	303

Source: Hawaii State Department of Labor and Industrial Relations, *1991 Occupational Injuries and Illnesses Survey, State of Hawaii*, p. 4.

Table 12.36-- WORK INJURIES, DEATHS, TIME LOST AND COMPENSATION COSTS: 1986 TO 1991

Year	Reported cases	Reported deaths	Time lost (compensated days)	Compensation costs (\$1,000)
1986	39,390	47	1,067,462	127,367
1987	43,108	45	1,266,460	159,196
1988	50,101	46	1,445,052	178,930
1989	52,030	53	1,323,074	173,049
1990	53,050	59	1,434,262	218,837
1991	56,738	51	1,636,375	234,971

Source: Hawaii State Department of Labor and Industrial Relations, *Work Injury Statistics (1987-1988)* and *Worker's Compensation Data Book (1989, 1990 and 1991)*.

Table 12.37-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1992

Subject	Total	AFL-CIO affiliated	Independent
Unions and associations	72	61	11
Membership <u>1/</u>	165,298	145,573	19,725

1/ Data exclude 3 unions and associations not reporting membership. The largest memberships were those reported by the HGEA (36,804), ILWU (28,000), and Hotel Employees & Restaurant Employees (12,000).

Source: Hawaii State Department of Labor and Industrial Relations, *Directory of Labor Organizations & Affiliates, 1992*.

Table 12.38-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS, BY EMPLOYING JURISDICTION: 1991 TO 1993

[As of December 31]

Employing jurisdiction	1991	1992	1993
Total.....	51,009	53,137	54,306
State of Hawaii	22,560	23,968	23,243
City and County of Honolulu.....	8,159	8,436	8,535
County of Hawaii	1,625	1,680	1,691
County of Maui	1,427	1,574	1,609
County of Kauai.....	768	801	881
Dept. of Education.....	11,958	12,031	12,184
Judiciary <u>1/</u>.....	...	...	1,459
University of Hawaii.....	4,512	4,647	4,704

1/ Not separately reported before 1993.

Source: Hawaii Labor Relations Board, *HLRB Informational Bulletin*, No. 31, June 8, 1994, and earlier issues.

Table 12.39-- WORK STOPPAGES: 1988 TO 1993

[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 <u>1/</u>	Workers involved <u>1/</u>	Man-days lost <u>2/</u>
1988	6	410	25,057
1989	2	48	3,046
1990	13	7,415	119,509
1991	-	-	-
1992	-	-	-
1993	2	160	6,018

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 12.40-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS: 1983 TO 1993

Year	Number of stoppages begun in year	Workers involved <u>1/</u>	Man-days idle during year	Percent of estimated nonagricultural working time
1983	1	2,800	5,600	0.01
1984	1	1,000	70,000	0.01
1985	1	1,000	11,000	0.01
1986-1993	-	-	-	0

1/ Workers counted more than once if involved in more than one stoppages 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 state income and product system 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.

Gross state product in 1992 was about \$29 billion. The major sources of outside income to Hawaii in 1990 were defense expenditures (\$3.2 billion), pineapple production (\$216 million), sugar production (\$329 million), and visitor expenditures (\$9.4 billion). Personal income in 1992 was \$25 billion, compared with \$12 billion only ten years earlier, and per capita personal income was \$21,800, or 81 percent above the 1982 level. The per capita figure for Hawaii was 11 percent over the national average, reflecting in part the Islands' higher cost of living. The median annual income of households, based on data for 1990, was \$39,000, third highest of the 50 States. The official poverty threshold for a 4-person family in Hawaii was set in February 1994 at \$17,020. In 1990, one-ninth of all Island residents were below the U.S. poverty level. A family expenditure survey taken in 1991 and 1992, reported that the largest items in the family budget on Oahu were housing (accounting for 32 percent of total spending), food (17 percent), and transportation (15 percent). Top wealthholders in 1989 included 22,300 persons with assets of \$600,000 or more.

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 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 *Statistical Abstract of the United States: 1993*, Section 14.

**Table 13.1-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1972 TO 1992**

[In millions of dollars]

Year	Value of production		Defense expenditures ^{2/}	Visitor expenditures ^{3/}
	Raw sugar and molasses ^{1/}	Fresh and processed pineapple		
1972	184.7	145.4	1,068.2	840
1973	222.2	142.4	1,223.1	1,020
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	2,810.1	5,244
1986	361.9	238.4	2,866.3	6,104
1987	335.9	251.4	2,923.6	6,868
1988	324.0	247.0	2,924.2	8,528
1989	322.0	241.9	3,050.8	9,282
1990	328.9	215.9	3,203.3	9,739
1991	270.7	224.6	3,300.0	10,634
1992	237.6	197.7	(NA)	9,559

NA Not available.

^{1/} Excludes government sugar support payments.

^{2/} For alternate estimates, see *Data Book 1992*, table 319. The 1991 figure is preliminary.

^{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.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records; data from DBEDT GSP accounts, cited in *Data Book 1992*, table 319; Hawaii Visitors Bureau, estimates cited in present report, table 7.21.

Table 13.2-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1972 TO 1992

[For 1958-1971 data, see *Data Book 1991*, table 373]

Year	Gross state product		Per capita gross state product	
	Millions of current dollars	Millions of 1982 dollars	Current dollars	1982 dollars
1972	5,305.4	10,464.5	6,405	12,633
1973	6,009.3	10,982.4	7,057	12,896
1974	6,901.7	10,948.5	7,951	12,614
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	9,363	13,181
1978	9,627.6	12,482.9	10,335	13,400
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	14,210.0	14,626	14,032
1984	15,826.5	14,637.0	15,397	14,240
1985	16,874.9	15,107.3	16,231	14,530
1986	18,115.5	15,807.6	17,223	15,029
1987	19,717.4	16,458.6	18,464	15,412
1988	21,803.2	17,506.0	20,192	16,212
1989	24,300.1	18,578.1	22,200	16,973
1990	26,945.3	19,525.6	24,190	17,529
1991	28,615.9	19,573.1	25,177	17,221
1992	29,324.0	19,084.4	25,288	16,458

Source: Hawaii State Department of Business and Economic Development, *Hawaii Gross State Product Accounts: 1958 to 1985; Summary Estimates: 1986, 1987, and 1988 (1989)*, as updated and revised.

**Table 13.3-- GROSS STATE (DOMESTIC) PRODUCT, BY INDUSTRY:
1977 TO 1990**

[Dollar amounts in millions]

Year	Total	Percent of U.S.	Rank <u>1/</u>	Year	Total	Percent of U.S.	Rank <u>1/</u>
1977	8,782	0.45	38	1984....	16,731	0.44	40
1978	9,774	.44	38	1985....	18,063	.45	39
1979	11,036	.45	38	1986....	19,583	.46	40
1980	12,402	.46	40	1987....	21,342	.47	39
1981	13,259	.44	40	1988....	23,550	.48	38
1982	14,183	.45	39	1989....	26,055	.50	38
1983	15,574	.46	39	1990....	28,649	.52	37
				Amount		Percent	
Industry				1977	1990	1977	1990
Total, all industries				8,782	28,649	100.0	100.0
Farms				201	362	2.3	1.3
Agric. services, forestry, fisheries				30	122	0.3	0.4
Mining				-	13	0	0.0
Construction				573	1,951	6.5	6.8
Manufacturing				551	1,096	6.3	3.8
Transportation, comm., utilities				952	2,821	10.8	9.8
Wholesale trade				443	1,190	5.0	4.2
Retail trade				473	3,286	11.1	11.5
Finance, insur., real estate				1,257	5,566	14.3	19.4
Services				1,455	6,447	16.6	22.5
Federal government:							
Civilian				579	1,367	6.6	4.8
Military				958	2,092	10.9	7.3
State and local government				810	2,337	9.2	8.2

1/ Among the 50 States.

Source: U.S. Bureau of Economic Analysis, "Gross State Product, 1977-90," *Survey of Current Business*, December 1993, pp. 28-49, and BEA diskette tabulated by DBEDT.

Table 13.4-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1969 TO 1993

[Data for 1969-1993 are revisions]

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	3,295	2,789	4,435	3,753	116	115
1970	3,770	3,214	4,942	4,212	122	120
1971	4,058	3,515	5,126	4,440	119	118
1972	4,468	3,816	5,462	4,665	117	116
1973	4,970	4,259	5,904	5,059	114	112
1974	5,721	4,933	6,666	5,749	118	118
1975	6,149	5,425	7,026	6,200	116	116
1976	6,655	5,822	7,458	6,524	113	113
1977	7,203	6,258	7,866	6,833	108	108
1978	8,016	6,922	8,630	7,452	106	106
1979	9,087	7,821	9,564	8,232	106	106
1980	10,431	8,991	10,774	9,286	108	108
1981	11,243	9,676	11,494	9,892	104	105
1982	11,933	10,486	12,007	10,551	104	106
1983	13,117	11,422	12,951	11,278	106	106
1984	13,969	12,314	13,588	11,979	102	103
1985	14,910	13,013	14,339	12,514	101	102
1986	16,055	14,062	15,263	13,368	102	103
1987	17,182	14,820	16,087	13,876	103	103
1988	18,924	16,239	17,522	15,036	105	104
1989	20,957	17,600	19,146	16,079	108	105
1990	23,266	19,691	20,905	17,693	112	109
1991	24,488	20,847	21,576	18,368	113	110
1992	25,657	21,934	22,200	18,978	110	108
1993	27,361	23,476	23,354	20,038	112	110

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1994.

Table 13.5-- PERSONAL INCOME BY MAJOR SOURCES: 1988 TO 1993

[In millions of dollars.]

Item	1988	1989	1990	1991	1992	1993
Labor and proprietors income						
By type:						
Wage and salary disbursements	11,750	12,998	14,448	15,335	16,343	16,816
Other labor income	1,016	1,158	1,315	1,491	1,632	1,757
Proprietors income	1,937	2,210	2,187	2,203	2,326	2,626
Farm.....	67	55	28	5	1	24
Nonfarm	1,870	2,155	2,159	2,198	2,325	2,602
By industry:						
Farm	244	243	247	224	210	238
Nonfarm.....	14,458	16,122	17,702	18,804	20,091	20,961
Private.....	10,596	12,013	13,297	14,068	14,992	15,654
Government and government enterprises	3,863	4,109	4,406	4,736	5,100	5,307
Federal, civilian	1,042	1,086	1,114	1,119	1,191	1,224
Federal military	1,303	1,338	1,401	1,539	1,632	1,653
State and local	1,519	1,686	1,891	2,079	2,277	2,430
Derivation of personal income						
Labor and proprietors income	14,702	16,365	17,950	19,027	20,301	21,199
Less: Personal contributions for social insurance	874	984	1,075	1,166	1,224	1,286
Net labor and proprietors income..	13,829	15,382	16,874	17,861	19,077	19,913
Plus: Dividends, interest, and rent	2,694	2,976	3,298	3,368	2,830	3,502
Plus: Transfer payments	2,402	2,599	3,095	3,259	3,651	3,946
Total personal income	18,924	20,957	23,267	24,488	25,657	27,361

Source: U.S. Department of Commerce, Bureau of Economic Analysis, diskettes dated April 1994.

**Table 13.6-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY
COUNTIES: 1980 TO 1992**

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
TOTAL (MIL. DOL.)						
1980	10,431.1	8,424.6	2,006.5	905.1	381.1	720.3
1981	11,242.7	9,214.3	2,028.5	899.3	383.6	745.6
1982	11,932.8	9,736.9	2,195.8	959.1	417.1	819.6
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	24,487.6	19,335.8	5,151.9	2,087.1	1,008.3	2,056.5
1992	25,657.4	20,597.0	5,060.3	2,196.4	635.6	2,228.3
PER CAPITA (DOLLARS)						
1980	10,774	11,026	9,836	9,723	9,670	10,053
1981	11,494	12,024	9,568	9,288	9,449	10,019
1982	12,007	12,567	10,026	9,613	9,973	10,589
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	20,905	22,009	17,457	16,032	17,996	19,107
1991	21,576	22,744	18,140	16,520	18,928	19,551
1992	22,200	23,864	17,330	16,846	11,721	20,633

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printout dated May 1994.

**Table 13.7-- PER CAPITA PERSONAL INCOME IN CURRENT AND
CONSTANT DOLLARS FOR THE UNITED STATES AND HAWAII:
1982 AND 1992**

Subject	United States	Hawaii
Per capita personal income (current dollars):		
1982.....	11,584	12,005
1992.....	20,114	21,779
Per capita personal income (1982-1984 dollars):		
1982.....	12,004	12,351
1992.....	14,336	14,042
Percent of U.S. average:		
1982.....	100.0	103.6
1992.....	100.0	108.3
Percent increase, 1982-1992:		
Current dollars.....	73.6	81.4
Constant dollars.....	19.4	13.7
Rank (50 States and D.C.):		
1982.....	(X)	15
1992.....	(X)	11
Consumer price index (1982-1984=100): ^{1/}		
1982.....	96.5	97.2
1992.....	140.3	155.1

X Not applicable.

^{1/} Hawaii index is for Honolulu MSA.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated October, 1993;
U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly).

Table 13.8-- 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 <u>1/</u>	Persons with income <u>1/</u>	
				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)	(NA)	(NA)

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 CPH-5-13 (April 1992), table 10 (for 1989 data).

Table 13.9-- MEDIAN MONEY INCOME OF HOUSEHOLDS (IN 1992 DOLLARS) FOR THE UNITED STATES AND HAWAII: 1987 AND 1992

Year	United States	Hawaii	Hawaii rank <u>1/</u>
Median income (1992 dollars):			
1987.....	32,186	43,253	1
1992.....	30,786	42,171	1
Standard error (1992 dollars):			
1987.....	153	1,326	---
1992.....	146	1,472	---

1/ Among 50 States and D.C.

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 P60-184 (Sept. 1993), tables B-2 and B-20.

Table 13.10-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1975 AND 1980 TO 1992

[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	37,246	(NA)	(NA)	(NA)	(NA)
1992	42,171	(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), tables B-1 and B-20.

Table 13.11-- 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
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, Release CB92-47 (April 29, 1992) and STF-3A.

Table 13.12-- INCOME OF HOUSEHOLDS, FAMILIES, AND NONFAMILY HOUSEHOLDS, FOR THE STATE AND OAHU: 1989

[Data refer to income before taxes, as reported in census of April 1990]

Annual income	Households		Families		Nonfamily households	
	State	Oahu	State	Oahu	State	Oahu
Total	356,748	265,625	266,439	199,597	90,309	66,028
Less than \$5,000	13,393	9,342	5,411	3,778	8,562	5,951
\$5,000 to \$9,999	18,011	11,331	8,763	5,515	9,910	6,218
\$10,000 to \$14,999	21,657	14,883	13,306	9,004	9,174	6,399
\$15,000 to \$24,999	53,305	38,547	36,267	26,112	18,528	13,493
\$25,000 to \$34,999	52,186	38,086	38,048	27,388	14,671	11,206
\$35,000 to \$49,999	68,063	50,116	53,675	39,144	14,434	11,164
\$50,000 to \$74,999	73,616	57,116	62,526	48,442	9,636	7,532
\$75,000 to \$99,999	31,076	25,221	26,985	22,260	2,812	2,108
\$100,000 to \$149,999	17,640	14,629	14,901	12,589	1,718	1,291
\$150,000 or more	7,801	6,354	6,557	5,365	864	666
Median income (dollars) .	38,829	40,581	43,176	45,313	24,376	25,685

Source: U.S. Bureau of the Census, Release CB92-47 (April 29, 1992), and STF-3A.

Table 13.13-- MEDIAN INCOME FOR FOUR-PERSON FAMILIES: 1992 ESTIMATE FOR FISCAL YEAR 1995 USE

Area	Amount
United States	\$ 44,615
Hawaii	\$ 50,821
Rank (50 States and D.C.)	6

Source: U.S. Dept. of Health and Human Services, Office of Community Services, "State Median Income Estimates for Four-Person Families (1995 FY); Notice of the Fiscal Year (FY) 1995 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 10, 1994, pp. 11281-11282.

**Table 13.14-- POVERTY STATUS OF PERSONS:
1969, 1975, AND 1979 TO 1992**

[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	1984	92,000	9.3
1975.....	67,000	7.9	1985	109,000	10.7
1979.....	91,618	9.9	1986	109,000	10.7
1989.....	88,408	8.3	1987	95,000	8.8
			1988	117,000	11.1
CPS: <u>1/</u>			1989	122,000	11.3
1980.....	81,000	8.5	1990	121,000	11.0
1981.....	108,000	11.3	1991	90,000	7.7
1982.....	132,000	13.2	1992 <u>2/</u>	129,000	11.0
1983.....	135,000	13.4			

1/ Current Population Survey. Based on small samples and subject to considerable sampling variation.

2/ Standard errors in 1992 were 19,000 for the number of poor and 1.7 for the poverty rate. For the entire United States in 1992, there were 36,880,000 persons below the poverty level and the poverty rate was 14.5 percent. Hawaii was the 14th lowest State in poverty rate in 1992.

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; *Current Population Reports, Consumer Income*, Series P-60, No. 175 (August 1991), pp. 219-221, and No. 185 (Sept. 1993), p. 1 and App. Table D-1; 1990 CPH-L-8Q, table 3.

**Table 13.15-- 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 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

Continued on next page.

**Table 13.15-- 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 13.16-- POVERTY INCOME GUIDELINES: 1992, 1993 AND 1994

[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. 14, 1992	Effective Feb. 12, 1993	Effective Feb. 10, 1994
1	7,830	8,040	8,470
2	10,570	10,860	11,320
3	13,310	13,680	14,170
4	16,050	16,500	<u>1/</u> 17,020
5	18,790	19,320	19,870
6	21,530	22,140	22,720
7	24,270	24,960	25,570
8	27,010	27,780	<u>2/</u> 28,420

1/ Corresponding levels for four-person families elsewhere in the United States were \$14,800 on the Mainland and \$18,500 in Alaska.

2/ For larger families, add \$2,850 for each additional member.

Source: U.S. Department of Health and Human Services, "Annual Update of the HHS Poverty Guidelines," *Federal Register*, Vol. 57, No. 31 (February 14, 1992), pp. 5455-5457; "Annual Update of the HHS Poverty Guidelines," *Federal Register*, Vol. 58, No. 28 (February 12, 1993), pp. 8287-8289, and "Annual Update of the HHS Poverty Guidelines," *Federal Register*, Vol. 59, No. 28 (February 10, 1994), pp. 6277-6278.

Table 13.17-- ANNUAL INCOME AND EXPENDITURES OF CONSUMER UNITS, FOR OAHU: 1989-90 TO 1991-92

[Annual averages for two-year periods. For detailed breakdowns, see source]

Item	Annual averages (dollars)		
	1989-90	1990-91	1991-92
Total expenditures.....	33,320	36,394	37,273
Food at home.....	3,025	3,163	3,455
Food away from home.....	2,430	2,471	2,878
Alcoholic beverages.....	407	470	449
Housing.....	10,359	11,196	11,863
Shelter.....	6,770	7,432	8,080
Utilities, fuels, and public services.....	1,248	1,272	1,448
Household operations.....	500	552	509
Housekeeping supplies.....	509	488	514
Housefurnishings and equipment.....	1,333	1,451	1,313
Apparel and services.....	1,477	1,728	2,166
Transportation.....	5,200	6,052	5,628
Health care.....	1,691	1,623	1,557
Entertainment.....	1,582	1,618	1,534
Personal care products and services.....	475	498	515
Reading.....	206	209	204
Education.....	656	693	573
Tobacco products and smoking supplies.....	231	181	228
Miscellaneous ^{1/}	919	1,854	1,837
Cash contributions.....	886	1,179	1,139
Personal insurance and pensions.....	3,777	3,459	3,245
Money income before taxes.....	40,533	41,499	42,156
Personal taxes.....	5,006	3,705	(NA)
Money income after taxes.....	35,527	37,794	(NA)
Net change in total assets.....	18,090	11,674	(NA)
Net change in total liabilities.....	18,213	7,214	(NA)
Other money receipts.....	342	702	(NA)
Mortgage principal paid on owned property..	-598	-724	(NA)
Gifts of goods and services.....	1,210	1,573	(NA)

NA Not available.

^{1/} The item "expenses for other properties" (not shown) is included in Miscellaneous in 1990-91 and later years. Prior to 1990-91 it was included in Shelter and Housing.

Source: U.S. Bureau of Labor Statistics, printouts.

Table 13.18-- 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 13.19-- 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 13.20-- WORTH OF RICHEST RESIDENTS: 1993

Name	Age (years)	Net worth (million dollars)
Barbara Cox Anthony	70	2,400
Doris Duke ^{1/}	80	750
Campbell family .....	...	700
Kelley family .....	...	430
James K. Schuler	55	345

^{1/} Also a resident of New Jersey and Rhode Island.

Source: "The Forbes Four Hundred," *Forbes*, October 18, 1993, pp. 110-313.

Section 14

PRICES

This section presents indexes of consumer prices for Honolulu, the implicit price deflator for gross state product, actual prices for selected foods, and comparisons of Honolulu and Hilo living costs with those in other urban areas. Other statistics on prices are reported in Sections 7, 16, 17, 18, 21, and 23.

During 1993, the Honolulu all-items consumer price index for all urban consumers (CPI-U) averaged 160.1, with the 1982-1984 level equal to 100. The index had increased 3.2 percent over the average for 1992, 31.6 percent since 1988, and 61.2 percent since 1983. Prices have risen most rapidly since the 1982-84 base period for shelter (83.5 percent) and medical care (97.4 percent) and have dropped most rapidly for utility gas (3.2 percent). The implicit price deflator for expenditures on gross state product (a measure of price changes used in the state product accounts) rose 53.7 percent between 1982 and 1992.

An "intermediate" budget for a four-person family living on Oahu was unofficially estimated at \$58,374 as of 1992. This family budget was 39.6 percent higher than the corresponding urban United States average. Differences were particularly marked for renter shelter costs (64.2 percent higher) and personal income taxes (83.0 percent higher).

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 1982-1984, the base period. Current data for Honolulu and other cities are published in *CPI Detailed Report*, issued monthly by BLS.

Important technical changes have been made in the consumer price index in recent years. In 1983, the basis for measuring homeowners' costs was substantially modified. In 1987, component weights based on a 1982-1984 survey replaced the older weights derived from 1972-1973 data. At the same time, the publication of the Honolulu indexes was moved from a bimonthly to a semi-annual basis. Beginning in 1988, the base period was shifted from 1967 to 1982-1984. Both the CPI-U and CPI-W have been linked by DBED to older indexes going back to 1940.

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, and are now maintained unofficially by the Bank of Hawaii. A comparison of prices in Hawaii

and Washington, D.C., compiled for the U.S. Office of Personnel Management to provide a basis for cost of living adjustments for Federal employees, was most recently published for 1990. The American Chamber of Commerce Researchers Association (ACCRA) included Hilo in its list of participating cities for comparative living cost surveys until 1991. All of 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 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 *Statistical Abstract of the United States: 1993*, Section 15. Long-term trends for Hawaii are traced in *Historical Statistics of Hawaii*, Section 5.

Table 14.1-- IMPLICIT PRICE DEFLATOR FOR EXPENDITURES ON GROSS STATE PRODUCT: SELECTED YEARS, 1958 TO 1992

[1982 = 100]

Year	Deflator	Year	Deflator	Year	Deflator
1958	34.1	1979	84.0	1986	114.6
1960	34.4	1980	89.3	1987	119.8
1965	37.7	1981	93.3	1988	124.5
1970	47.3	1982	100.0	1989	130.8
1975	63.9	1983	104.2	1990	138.0
1976	67.5	1984	108.1	1991	146.2
1977	71.0	1985	111.7	1992 <u>1/</u>	153.7
1978	77.1				

1/ Projected.

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 14.2-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: ANNUAL AVERAGES, 1940 TO 1993

[1982-1984 average = 100. Excludes rent before 1963]

Year	CPI-U	CPI-W	Year	CPI-U	CPI-W
1940	14.7	14.5	1968	37.7	37.2
1941	15.5	15.3	1969	39.4	38.8
1942	17.6	17.4			
1943	18.9	18.7	1970	41.5	40.9
1944	19.2	19.0	1971	43.2	42.6
1945	19.7	19.5	1972	44.6	44.0
1946	21.0	20.8	1973	46.6	45.9
1947	24.4	24.1	1974	51.5	50.8
1948	25.7	25.4	1975	56.3	55.5
1949	25.2	24.9	1976	59.1	58.3
			1977	62.1	61.2
1950	24.3	24.0	1978	66.9	65.9
1951	25.7	25.4	1979	74.3	73.2
1952	26.5	26.2			
1953	26.7	26.4	1980	83.0	81.9
1954	26.9	26.6	1981	91.7	90.5
1955	27.3	27.0	1982	97.2	96.0
1956	27.7	27.4	1983	99.3	99.8
1957	28.6	28.3	1984	103.5	104.3
1958	30.0	29.6	1985	106.8	107.9
1959	30.5	30.1	1986	109.4	110.3
			1987	114.9	115.9
1960	31.3	30.9	1988	121.7	122.8
1961	32.1	31.7	1989	128.7	129.7
1962	32.8	32.4			
1963	33.5	33.1	1990	138.1	138.9
1964	33.7	33.3	1991	148.0	148.9
1965	34.4	33.9	1992	155.1	155.9
1966	35.3	34.8	1993	160.1	160.7
1967	36.3	35.8			

Source: 1964-1993 from U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly) and BLS tapes tabulated by Hawaii State Data Center. 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.

Table 14.3-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1993

[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

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly), BLS tapes tabulated by Hawaii State Data Center, and BLS press releases.

Table 14.4-- PERCENT CHANGE IN SELECTED PRICE INDEXES: 1982 TO 1992

Index ^{1/}	1982 to 1992	1982 to 1987	1987 to 1992	1988 to 1989	1989 to 1990	1990 to 1991	1991 to 1992
Hawaii GSP deflator	53.7	19.8	28.3	5.1	5.5	5.9	5.1
Honolulu CPI-U	59.6	18.2	35.0	5.8	7.3	7.2	4.8
Honolulu CPI-W.....	62.4	20.7	34.5	5.6	7.1	7.2	4.7
U.S. CPI-U.....	45.4	17.7	23.5	4.8	5.4	4.2	3.0

^{1/} GSP deflator, the implicit price deflator for expenditures on Hawaii gross state product; CPI-U, consumer price index for all urban consumers; CPI-W, consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly); present report, tables 14.1 and 14.2.

Table 14.5-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1989 TO 1993

[Unless otherwise specified, 1982-1984 average=100]

Group	1989	1990	1991	1992	1993
All items.....	128.7	138.1	148.0	155.1	160.1
Food and beverages.....	128.1	137.8	145.9	148.5	152.9
Food.....	128.2	138.3	145.9	148.3	152.7
Food at home.....	131.5	145.0	152.8	155.0	158.0
Cereals and bakery products.....	139.3	151.7	159.5	163.3	166.0
Meats, poultry, fish, and eggs.....	133.1	147.2	154.5	157.3	154.5
Meats, poultry, and fish.....	133.9	148.0	155.5	159.1	156.0
Dairy products.....	115.5	121.9	125.6	128.2	130.3
Fruits and vegetables.....	142.2	167.4	175.8	172.9	181.0
Other foods at home.....	123.0	128.8	138.2	143.2	150.6
Food away from home.....	122.2	128.0	133.6	137.8	141.9
Alcoholic beverages.....	126.5	131.0	144.4	151.1	155.0
Housing.....	131.1	141.5	152.8	161.7	166.5
Shelter.....	141.1	154.5	169.3	179.6	183.5
Renters' costs ^{1/}	143.4	158.1	174.6	185.2	190.4
Rent, residential.....	139.3	152.2	165.5	175.8	181.4
Other renters' costs.....	136.3	158.6	191.0	201.9	203.1
Homeowners' costs ^{1/}	147.7	160.7	175.1	185.8	188.9
Owners' equivalent rent ^{1/}	148.1	161.4	176.0	186.8	189.9
Fuel and other utilities.....	90.9	98.0	101.3	106.1	117.5
Fuels.....	75.7	84.1	85.6	90.0	102.6
Gas (piped) and electricity.....	75.1	83.6	84.9	89.4	101.8
Electricity.....	73.7	82.3	83.2	88.0	101.6
Utility (piped) gas.....	85.9	91.4	99.0	98.8	96.8
Household furnishings and operation.....	125.8	126.8	130.7	137.3	140.0
Apparel and upkeep.....	104.3	107.0	110.5	114.2	116.5
Apparel commodities.....	102.4	104.3	107.8	111.1	113.2
Men's and boys' apparel.....	123.8	118.6	126.7	131.8	135.8
Women's and girls' apparel.....	97.1	99.4	98.3	100.5	103.8
Footwear.....	93.0	98.2	102.5	104.7	98.0
Transportation.....	123.9	131.1	139.3	147.4	150.5
Private transportation.....	124.3	130.8	141.0	149.8	152.1
Motor fuel.....	101.1	108.6	113.2	117.5	121.3
Gasoline.....	100.7	109.1	115.1	119.6	124.1
Public transportation.....	119.4	132.7	125.0	128.3	137.1
Medical care.....	139.3	154.2	171.3	182.6	197.4
Entertainment.....	124.3	128.4	134.3	136.3	138.3
Other goods and services.....	146.1	160.4	175.7	189.0	200.1
Personal care.....	122.1	136.6	144.8	153.3	158.6

Continued on next page.

Table 14.5-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1989 TO 1993-- Con.

Group	1989	1990	1991	1992	1993
All items.....	128.7	138.1	148.0	155.1	160.1
Commodities.....	121.6	128.1	134.9	138.5	141.4
Food and beverages.....	128.1	137.8	145.9	148.5	152.9
Commodities less food and beverages..	116.4	120.2	126.1	130.5	132.1
Nondurables less food and beverages	113.8	120.8	127.4	133.2	136.8
Durables.....	121.0	119.7	124.4	126.5	124.9
Services.....	135.2	147.2	159.6	169.9	176.6
Medical care services.....	139.2	155.3	173.1	183.6	199.1
Special indexes:					
All items less shelter.....	124.0	131.7	139.6	145.6	150.9
All items less medical care.....	128.0	137.1	146.6	153.5	158.0
All items less energy.....	132.7	142.3	152.7	160.2	164.9
Energy.....	89.2	97.1	100.2	104.6	112.6
Commodities less food.....	116.8	120.7	127.0	131.4	133.2
Nondurables less food.....	114.6	121.3	128.6	134.3	138.0
Nondurables.....	121.7	130.3	137.7	141.6	145.7
Services less rent of shelter ^{1/}	130.2	140.5	150.3	160.9	171.0
Services less medical care.....	134.5	146.1	158.1	168.3	174.4

^{1/} December 1982=100.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly), press releases, and printouts.

Table 14.6-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1993

[Percent of all items]

Group	CPI-U <u>1/</u>	CPI-W <u>2/</u>
EXPENDITURE CATEGORY		
All items	100.000	100.000
Food and beverages	19.244	20.383
Food	17.800	18.644
Food at home	11.617	11.717
Cereals and bakery products	1.548	1.776
Meats, poultry, fish, and eggs	3.407	3.691
Meats, poultry, and fish	3.179	3.400
Dairy products .....	.884	.834
Fruits and vegetables	3.195	2.976
Other foods at home	2.582	2.441
Food away from home	6.183	6.927
Alcoholic beverages	1.444	1.738
Housing	43.787	40.815
Shelter	33.258	30.778
Renters' costs	9.719	9.836
Rent, residential	8.242	8.821
Other renters' costs	1.477	1.015
Homeowners' costs	23.284	20.746
Owners' equivalent rent	23.104	20.618
Fuel and other utilities	4.411	4.736
Fuels	2.041	2.158
Fuel oil, coal, and bottled gas .....	.024	.029
Fuel oil .....	.002	.005
Other household fuel commodities .....	.022	.024
Gas (piped) and electricity	2.017	2.129
Electricity	1.864	1.906
Utility (piped) gas .....	.153	.223
Household furnishings and operation	6.119	5.300
Apparel and upkeep	4.479	4.756
Apparel commodities	4.148	4.409
Men's and boys' apparel	1.190	1.314
Women's and girls' apparel	1.679	1.771
Footwear .....	.551	.621

Continued on next page.

Table 14.6-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1993 -- Con.

Group	CPI-U <u>1/</u>	CPI-W <u>2/</u>
EXPENDITURE CATEGORY -- Con.		
Transportation.....	16.095	18.149
Private transportation.....	14.399	16.821
Motor fuel.....	2.902	3.556
Public transportation.....	1.696	1.328
Medical care.....	5.751	5.530
Entertainment.....	4.023	3.904
Other goods and services.....	6.622	6.464
Personal care.....	1.243	1.365
COMMODITY AND SERVICE GROUP		
All items.....	100.000	100.000
Commodities.....	40.036	43.441
Food and beverages.....	19.244	20.383
Commodities less food and beverages.....	20.792	23.059
Nondurables less food and beverages.....	13.265	14.673
Durables.....	7.526	8.385
Services.....	59.964	56.559
Medical care services.....	4.761	4.510
Special indexes:		
All items less shelter.....	66.742	69.222
All items less medical care.....	94.249	94.470
All items less energy.....	95.057	94.286
All items less food and energy.....	77.258	75.641
Energy.....	4.943	5.714
Commodities less food.....	22.236	24.797
Nondurables less food.....	14.710	16.412
Nondurables.....	32.509	35.056
Services less rent of shelter.....	27.153	26.117
Services less medical care services.....	55.203	52.049

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, printout.

Table 14.7-- EXPENDITURES ON A CHILD FROM BIRTH TO AGE 18: 1992

[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.....	<32,300	98,580	5,477
Middle income level.....	32,300 - 52,200	134,190	7,455
Higher income level.....	>52,200	184,830	10,268

Source: U.S. Department of Agriculture, *Family Economics Review*, Vol. 6, No. 3, 1993; pp. 34-36.

Table 14.8-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON FAMILY ON OAHU: 1971 TO 1992

Year	Dollars	Percent of urban U.S.	Year	Dollars	Percent of urban U.S.
1971	13,108	119.5	1982	33,403	124.5
1972	13,617	119.0	1983	33,890	124.3
1973	14,937	118.3	1984	35,484	124.4
1974	17,019	118.8	1985	36,926	122.7
1975	18,107	117.0	1986	38,437	123.2
1976	19,036	117.2	1987	41,790	126.7
1977	20,883	122.1	1988	44,414	129.2
1978	23,099	124.0	1989	47,950	130.7
1979	25,799	125.7	1990	52,139	134.1
1980	28,488	123.1	1991	55,833	137.7
1981	31,893	125.5	1992	58,374	139.6

Source: U.S. Bureau of Labor Statistics, annual releases for 1971-1981; 1982-1992 estimates by Paul Brewbaker, Economic Department, Bank of Hawaii.

Table 14.9-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY IN THE UNITED STATES AND ON OAHU: 1981 AND 1992

[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 1992 values are 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	1992	1981	1992	1981	1992
Total budget	25,409	41,804	31,893	58,374	125.5	139.6
Consumption	18,242	29,161	21,530	37,801	118.0	129.6
Food.....	5,843	8,530	7,626	12,404	130.5	145.4
Food at home	4,866	7,017	6,649	10,883	136.6	155.1
Food away from home...	977	1,512	977	1,521	100.0	100.6
Housing.....	5,547	8,814	6,493	12,159	117.1	137.9
Homeowner shelter costs	4,886	8,106	5,467	10,887	111.9	134.3
Renter shelter costs.....	2,732	4,729	3,991	7,764	146.1	164.2
Housefurnishings and operations.....	1,199	1,552	1,395	2,052	116.3	132.2
Transportation.....	2,372	3,221	2,421	3,729	102.1	115.8
Clothing.....	1,333	1,846	1,432	1,731	107.4	93.7
Personal care.....	508	786	590	1,034	116.1	131.6
Medical care	1,443	3,310	1,590	3,549	110.2	107.2
Other family consumption <u>1/</u>	1,196	2,654	1,378	3,196	115.2	120.4
Other items <u>2/</u>	1,021	1,576	1,137	1,923	113.6	122.0
Social Security payments.....	1,703	3,425	2,049	4,663	120.3	136.2
Personal income taxes.....	4,443	7,642	7,177	13,987	161.5	183.0

1/ Reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

2/ Includes gifts and contributions, life insurance, and occupational expenses.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release USDL: 82-139, April 16, 1981); 1992 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 1992.

Table 14.10-- 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 4.11-- NONHOUSING FAMILY LIVING COSTS, FOR HONOLULU AND SELECTED OTHER CITIES: 1993

[For a four-person family with an annual income of \$60,000]

City	Dollars	City	Dollars
Most expensive:		Least expensive:	
New York City.....	22,178	Corbin, KY.....	15,438
Honolulu ^{1/}	20,128	San Antonio, Texas....	15,462
Washington, D.C.	18,469	Billings, Mont.....	15,489
New Haven, Conn.	17,981		
Los Angeles.....	17,949	Average U.S. city ^{1/}	16,690

^{1/} Honolulu was 20.6 percent above the U.S. average.

Source: Runzheimer International survey, cited in *Honolulu Star-Bulletin*, June 29, 1993, pp. A-1 and A-6.

Table 14.12-- 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 DBED.

Table 14.13-- COMPARATIVE ANNUAL LIVING COSTS IN HONOLULU AND SELECTED OTHER METROPOLITAN AREAS: 1993

[For a four-person suburban family with a standard of living requiring an income of \$60,000 in the median metropolitan area among the areas studied. Shown separately for the four costliest and two least costly areas]

Rank 1/	Metropolitan area	Cost (dollars)	Index
1	Honolulu, HI	80,715	134.5
2	Los Angeles, CA.....	75,975	126.6
3	New York, NY	74,028	123.4
4	Washington, DC.....	71,622	119.4
...	"Standard City, U.S.A.".....	60,000	100.0
...	Hobbs, NM.....	52,112	86.9
...	Casper, WY	51,755	86.3

1/ Among reported areas.

Source: Study by Runzheimer International, Rochester, Wis, cited in *Honolulu Star-Bulletin*, Sept. 8, 1993, p. F-1.

Table 14.14-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C., BY COUNTIES: 1990-1993

Allowance category <u>1/</u>	City and Co. of Honolulu	Kauai County	Maui County	Hawaii County
INDEXES <u>2/</u>				
"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 <u>3/</u>				
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 and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were 8 banks with 181 locations, six savings and loan associations with 142 locations, four trust companies with six branches, and 42 industrial loan or small loan licensees with 185 branch offices in Hawaii as of December 31, 1992. Deposits in all financial institutions reached \$23.5 billion at the end of 1992, compared with \$10.8 billion a decade earlier. Assets of savings and loan associations stood at \$764 million in 1993, 19 percent below their 1988 level. There were 124 credit unions with combined assets of \$3.5 billion at the end of 1992.

Life insurance in force in Hawaii at the end of 1991 amounted to \$39 billion, almost twice the figure reported ten years earlier. For all 835 insurance companies doing business in the Islands, Hawaii premiums amounted to \$1.98 billion in 1992 and losses, claims, and benefits paid came to \$1.9 billion. Fire losses in fiscal 1992 amounted to \$21 million. Persons covered by the three major prepaid health insurance plans as of December 31, 1992 numbered 833,000, with annual membership dues of \$1.1 billion.

By mid-1993, about 49,000 corporations and partnerships were registered to do business in Hawaii: 34,400 local ("domestic") corporations, 6,300 out-of-State ("foreign") corporations, and 8,200 partnerships. Business establishments with one or more employees in 1991 numbered 29,700; over half had fewer than five employees. During fiscal 1993, 3,200 new local corporations were formed. Business receipts of corporations in 1989 exceeded \$33 billion; business receipts of partnerships and proprietorships in the same year amounted to respectively \$4.1 billion and \$2.1 billion. Hawaii's largest corporation, Dole Food Co., reported 1992 annual sales of \$3.4 billion. Business failures in 1992 numbered 289.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs and Department of Taxation, county fire departments, major island banks, Dun and Bradstreet, Inc., local health insurance plans, the Hawaii Credit Union League, 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 Mainland data appear in Sections 16 and 17 of *Statistical Abstract of the United States: 1993*.

**Table 15.1-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES:
1983 TO 1993**

[Excludes out-of-State branches of Hawaii-based institutions. As of December 31]

Type of charter, island, and year	Banks		Savings and loans associations		Trust companies		Financial services loan companies	
	Firms	Loca- tions	Asso- cia- tions	Loca- tions	Firms	Loca- tions	Firms	Loca- tions
1983	10	162	8	166	4	7	72	209
1984	10	178	8	163	4	7	77	223
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
TYPE OF CHARTER: 1993								
Federal	2	13	4	121	-	-	-	-
State	6	166	2	25	4	7	66	160
ISLANDS: 1993								
Hawaii.....	5	22	5	17	2	2	10	16
Maui.....	5	21	6	14	1	1	8	13
Lanai.....	1	1	1	1	-	-	-	-
Molokai.....	1	1	1	1	-	-	1	1
Oahu.....	7	120	6	105	4	4	40	122
Kauai	3	14	5	8	-	-	7	8
Niihau	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

**Table 15.2-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS:
1972 TO 1992**

[In millions of dollars. As of December 31]

Year	Deposits			Debits to bank demand deposits <u>1/</u>	Loans	
	All financial institutions	Bank demand deposits <u>1/</u>			All financial institutions	Banks <u>1/</u>
		Private	Other			
1972	3,616.2	809.9	1,384.5	27,006.9	3,120.0	1,502.7
1973	4,071.7	865.4	1,584.5	31,803.8	3,674.8	1,731.8
1974	4,379.3	870.4	1,682.4	38,495.2	4,042.7	1,859.9
1975	4,896.7	919.8	1,760.9	42,198.2	4,318.9	1,834.2
1976	5,580.7	1,007.0	1,989.4	44,908.5	4,797.2	1,987.1
1977	6,196.1	1,064.1	2,168.7	50,492.9	5,468.2	2,176.4
1978	7,107.4	1,214.8	2,494.4	58,264.4	6,617.7	2,603.7
1979	8,227.1	1,328.9	3,034.1	72,492.7	7,790.1	3,051.9
1980	9,043.6	1,274.9	3,517.3	84,336.9	8,721.0	3,493.5
1981	9,834.0	1,139.7	4,293.6	90,280.9	9,383.3	3,931.8
1982	10,792.2	1,216.6	4,803.8	89,384.3	9,802.4	4,115.5
1983	11,615.8	1,155.0	5,429.4	89,147.3	9,601.8	4,143.1
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	18,641.2	2,166.7	9,358.0	130,612.3	14,059.2	7,766.6
1989	21,360.7	2,026.5	11,651.4	172,698.3	16,655.7	9,704.2
1990	23,608.5	2,150.0	12,988.9	217,639.4	18,824.3	11,206.3
1991	23,818.0	2,050.0	12,798.2	239,886.5	21,052.7	11,620.0
1992	23,528.5	2,200.3	11,713.8	(NA)	21,920.6	12,729.3

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 1993, Annual Economic Report* (1993), p. 39.

Table 15.3-- CHARACTERISTICS OF STATE-CHARTERED FINANCIAL INSTITUTIONS, BY TYPES: 1991 TO 1993

[As of December 31]

Subject	1991	1992	1993
BANKS			
Number of banks	7	6	6
Number of branches and facilities	188	183	193
Assets (million dollars)	18,624.9	20,106.5	19,891.4
Deposits (million dollars)	14,843.9	13,911.2	12,940.4
Debits to demand deposits (mil. dol.)	239,886.5	(NA)	(NA)
Clearings (million dollars)	59,542.0	(NA)	(NA)
SAVINGS AND LOAN ASSOCIATIONS			
Number of associations	2	2	2
Number of branches and facilities	23	23	21
Assets (million dollars)	905.8	778.8	764.1
Withdrawable shares (million dollars)	616.0	519.0	486.8
TRUST COMPANIES			
Number of companies	4	4	4
Number of branches and facilities	2	3	3
Assets (million dollars)	62.0	80.9	81.6
FINANCIAL SERVICES LOAN COMPANIES			
Number of companies	46	43	44
Number of branches	151	143	119
Assets (million dollars)	2,809.3	3,196.2	3,263.6

NA Not available (discontinued after July 1992).

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, *Comparative Statements of Condition* (semi-annual).

Table 15.4-- CREDIT UNIONS: 1988 TO 1993

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1988	136	2,305,569,314	2,059,966,207	479,610
1989	132	2,284,832,750	2,020,219,693	473,700
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

Source: Hawaii Credit Union League, records.

**Table 15.5-- RESIDENTS INVESTING IN SPECIFIED CATEGORIES:
1990 TO 1992**

[Responses to question, "Besides the money you keep as savings, how else do you invest your money? Do you invest in ...?" The 1992 survey was based on a telephone survey of 305 Hawaii residents, conducted January 10-12]

Type of investment	Percent of respondents		
	1990	1991	1992
Money market mutual funds	46	44	33
Stocks and bonds	42	37	33
Real estate	31	37	25
Own business	20	19	17
Trust fund	17	21	13
Antiques, gems, other collectibles	16	17	11
Gold, silver, precious metals	10	9	7

Source: Surveys by Omnitrak Research & Marketing Group, Inc., cited in *Honolulu Star-Bulletin*, April 30, 1991, p. D-1, and March 3, 1992, p. D-1.

**Table 15.6-- INSURANCE BUSINESS TRANSACTED IN HAWAII:
1986 TO 1992**

[Includes data for all insurance companies, life or other, licensed in Hawaii, as of Dec. 31]

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)
1986	752	1,307,192	611,105	3,060,664
1987	782	1,456,508	694,331	2,864,352
1988	805	1,484,743	787,603	3,082,836
1989	807	1,572,949	842,917	3,261,900
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

^{1/} Excluding bank balances.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii* (annual).

**Table 15.7-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII:
1987 TO 1992**

[Including fraternal benefit societies]

Year	Number of companies authorized 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)
1987	446	8,202,902	37,429,250	354,952	217,871
1988	465	7,856,086	41,060,540	348,614	207,391
1989	465	5,890,849	35,461,017	325,467	221,071
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

^{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 15.8-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1992

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	1,984,304,018	1,901,549,492
Life ^{1/}	378,069,316	282,688,031
Fraternal.....	4,297,958	2,470,224
Fire, marine, casualty, and miscellaneous:		
Accident and health.....	146,971,974	77,716,047
Fire.....	16,595,563	24,410,562
Allied lines ^{2/}	13,816,866	131,359,578
Homeowners multiple peril.....	71,413,902	470,720,446
Commercial multiple peril.....	92,200,927	153,966,794
Private passenger auto no-fault.....	136,498,886	90,808,594
Other private passenger auto liability.....	298,241,367	174,659,857
Commercial auto no-fault.....	8,654,450	8,649,854
Other commercial auto liability.....	77,487,042	51,456,305
Private passenger auto physical damage....	130,645,772	81,483,937
Commercial auto physical damage.....	18,212,807	11,666,612
Workers' compensation.....	308,760,163	224,662,031
Other liability.....	103,612,586	24,619,979
Medical malpractice.....	16,718,540	5,648,714
Financial Guaranty.....	2,721,942	194
Glass.....	61,014	26,976
Burglary and theft.....	350,039	22,735
Boiler and machinery.....	2,345,502	1,248,847
Fidelity and surety.....	30,785,450	1,455,895
Ocean marine.....	4,653,247	3,100,056
Inland marine.....	20,384,871	54,118,348
Earthquake.....	413,265	102,044
All other ^{3/}	50,655,820	18,541,718
Surplus lines.....	49,734,749	5,945,114

^{1/} Excludes annuities and premiums for insurance on nonresidents.

^{2/} Includes extended coverage; tornado, windstorm and hail; sprinkler and water damage; explosion, riot and civil commotion; growing crops; flood; rain; and damage from aircraft and vehicle.

^{3/} Aircraft (all risks); title, credit, mortgage guaranty; livestock; farmowners multiple peril; contact lens; and miscellaneous casualty.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1993*, p. 6.

**Table 15.9-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY
LOCATION OF HOME OFFICE: 1992**

[Money amounts in millions of dollars. For insurance companies licensed to do business in
Hawaii]

Subject	All companies	Domestic com- panies <u>1/</u>	Foreign com- panies <u>2/</u>	Alien com- panies <u>3/</u> (U.S. business only)
Number of companies, Dec. 31.....	468	6	454	8
Financial condition, Dec. 31:				
Assets.....	1,991,373.2	2,001.8	1,946,658.1	42,713.3
Liabilities exc. capital and surplus.....	1,777,790.6	1,774.7	1,735,817.1	40,198.7
Policyholder's surplus inc. capital.....	213,582.6	227.1	210,840.9	2,514.5
Capital.....	4,496.6	30.8	4,436.6	29.2
Net gain or loss.....	-16,687.1	-203.7	-16,121.7	-361.7
Hawaii business:				
Direct premiums written.....	2,175.1	680.2	1,430.3	64.7
Claims and benefits paid.....	2,081.3	763.8	1,264.9	52.7
Investments in Hawaii, Dec. 31.....	3,380.1	194.3	3,159.3	26.5
Mortgage loans (principal indebtedness).....	771.4	123.9	632.8	14.7
Collateral loans (amount loaned)	18.3	7.9	10.4	-
State and county bonds <u>4/</u>	954.1	14.6	937.4	2.1
Utilities stocks and bonds <u>5/</u>	334.3	0.4	328.1	5.7
Industrial and misc. stocks and bonds <u>4/</u>	1,273.5	40.6	1,228.9	3.9
Real estate <u>4/</u>	28.4	6.8	21.6	-
Balances in Hawaii banks.....	25.5	22.4	3.1	-

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 less encumbrances for real estate.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1993*.

Table 15.10-- HEALTH INSURANCE COVERAGE, BY AGE: 1992

[Detail adds to more than indicated totals and subtotals because of multiple coverage of some persons]

Coverage	Number (thousands)			Percent		
	All ages	Under 65	65 and over	All ages	Under 65	65 and over
Total persons.....	1,169	1,028	140	100.00	100.0	100.0
Covered by health insurance.....	1,099	958	140	94.0	93.2	100.0
Private health insurance.....	878	790	88	75.1	76.8	62.6
Group health.....	732	682	49	62.6	66.4	35.1
Government health insurance	411	278	132	35.2	27.1	94.3
Medicaid.....	129	120	9	11.0	11.7	6.3
Medicare.....	146	15	132	12.5	1.4	93.6
Champus.....	163	153	10	13.9	14.9	7.0
Not covered by health insurance.	70	70	-	6.0	6.8	0

Source: U.S. Bureau of the Census, March 1993 Current Population Survey, records.

Table 15.11-- PERCENT OF PERSONS NOT COVERED BY HEALTH INSURANCE: 1989 TO 1991

Subject	1989	1990	1991
Percent not covered.....	7.3	7.4	7.0
Standard error.....	1.0	1.0	1.0
Rank ^{1/}	1	4	1

^{1/} 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: 1991," *Current Population Reports, Consumer Income*, Series P-60, No. 180, Aug. 1992, table E.

Table 15.12-- HEALTH PLANS: 1990 TO 1993

Subject	1990	1991	1992	1993
Hawaii Medical Service Association: <u>1/</u>				
Persons covered, Dec. 31 <u>2/</u>	605,127	620,285	623,074	(NA)
Membership dues <u>3/</u> (\$1,000).....	660,623	753,462	847,195	(NA)
Island Care:				
Persons covered, Dec. 31 <u>2/</u>	22,337	20,872	21,753	16,662
Membership dues <u>3/</u> (\$1,000).....	22,709	26,092	27,719	24,976
Kaiser Foundation Health Plan:				
Persons covered <u>2/</u>				
Annual average	179,450	183,393	188,141	190,225
Dec. 31	182,580	186,289	189,414	190,680
Membership dues <u>3/</u> (\$1,000).....	165,145	195,225	225,538	254,226
Commercial carrier premiums for accident and health insurance (\$1,000)	130,836	137,030	146,972	(NA)

NA Not available.

1/ Includes both Straub Plan and Pacific Health.

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, Island Care, and Kaiser Foundation Health Plan, Inc.; *Report of the Insurance Commissioner* (annual).

Table 15.13-- AVERAGE AUTOMOBILE INSURANCE PREMIUMS, FOR THE UNITED STATES AND HAWAII: 1992

Subject	1992
United States (dollars).....	617.36
Hawaii (dollars).....	974.39
Rank.....	1

Source: Insurance Information Institute, cited in *Honolulu Star-Bulletin*, Feb. 17, 1994, p. C-1.

**Table 15.14-- FIRES, FIRE DEATHS, AND FIRE LOSSES, BY COUNTIES:
1988 TO 1993**

[Years ended June 30]

Subject and year	State total	Honolulu	Hawaii	Kauai	Maui
Number of fires:					
1988 <u>1/</u>	4,817	2,966	599	216	1,036
1989 <u>1/</u>	5,137	3,327	625	245	940
1990 <u>1/</u>	5,722	3,487	854	228	1,153
1991 <u>1/</u>	5,949	3,248	934	253	1,514
1992	4,919	2,948	1,111	361	499
1993	(NA)	4,939	710	(NA)	428
Fire deaths:					
1988	7	5	-	2	-
1989	12	11	1	-	-
1990	4	3	1	-	-
1991	4	4	-	-	-
1992	8	6	2	-	-
1993	(NA)	2	2	(NA)	-
Fire losses (\$1,000):					
1988	13,351	6,632	4,454	802	1,463
1989	19,546	13,272	3,384	707	2,183
1990	26,764	18,972	2,370	793	4,629
1991	24,517	13,408	2,355	1,286	7,468
1992	21,158	10,078	3,892	1,454	5,734
1993	(NA)	12,992	3,203	(NA)	2,260

NA Not available.

1/ Maui data refer to alarms rather than actual fires.

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 15.15-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS:
1981 TO 1991**

[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
1981	312,195	984,003	4,092,561	21,264	10,969	4,337
1982	309,546	1,026,323	4,264,863	21,655	11,095	4,592
1983	308,627	1,094,458	4,505,090	24,519	13,320	5,039
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

Year	Number of establishments by employment-size class ^{2/} --Con.						
	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more
1981	2,973	1,905	663	309	63	28	17
1982	2,921	2,005	648	296	56	24	18
1983	3,093	2,001	667	305	51	26	17
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

^{1/} For week including March 12.

^{2/} Data for 1983 and later years refer to establishments active anytime during the year; data for 1982 and earlier years refer to establishments in business at the end of the year.

Source: U.S. Bureau of the Census, *County Business Patterns* (annual).

Table 15.16-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1990 AND 1991

[Excludes government employees and self-employed persons]

Year and county	Number of establishments <u>1/</u>	Number of employees <u>2/</u>	Payroll (\$1,000)	
			First quarter	Annual
1990				
State total	29,313	432,663	2,157,724	9,296,865
Hawaii.....	3,376	38,421	161,544	698,002
Honolulu	21,176	333,400	1,732,947	7,482,469
Kauai	1,515	18,325	77,128	317,352
Maui.....	3,239	42,427	185,548	796,187
Statewide.....	7	90	557	2,855
1991				
State total	29,736	442,743	2,341,662	9,893,345
Hawaii.....	3,536	40,839	181,434	764,039
Honolulu	21,252	340,829	1,879,219	7,948,956
Kauai	1,577	19,096	82,897	352,543
Maui.....	3,367	41,895	197,370	824,993
Statewide.....	4	84	742	2,814

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, 1991, Hawaii*, CBP-91-13 (December 1993), p. 19.

Table 15.17-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1991

[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	29,736	442,743	9,893,345
Agricultural services, forestry, fishing.....	305	2,324	46,453
Mining.....	11	183	8,053
Construction	2,523	32,937	1,170,964
Manufacturing ^{3/}	1,029	22,188	541,285
Food and kindred products.....	221	9,639	213,774
Apparel and other textile products.....	147	2,169	29,850
Printing and publishing	204	3,597	102,130
Transportation and public utilities.....	1,467	41,545	1,177,035
Wholesale trade	2,119	22,956	610,322
Retail trade ^{3/}	7,799	115,876	1,634,012
Food stores	907	14,866	214,652
Eating and drinking places	2,395	47,287	506,406
Finance, insurance, real estate	4,007	39,805	1,088,954
Services ^{3/}	9,924	164,101	3,584,317
Hotels and other lodging places	288	37,798	707,111
Health services	2,237	37,128	1,110,680
Unclassified establishments.....	552	828	31,950

^{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, 1991, Hawaii*, CBP-91-13 (December 1993), pp. 1-2.

Table 15.18-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1991

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments	Number of employees	Annual payroll (\$1,000)
Total	29,736	442,743	9,893,345
1 to 4	15,082	27,800	731,482
5 to 9	6,392	42,270	859,601
10 to 19	4,000	54,274	1,117,316
20 to 49	2,715	81,961	1,673,598
50 to 99	924	62,907	1,303,887
100 to 249	452	67,137	1,580,221
250 to 499	100	34,629	801,933
500 to 999	45	30,024	629,353
1,000 or more	<u>1</u> / 26	41,741	1,195,954

1/ 1,000-1,499 employees, 17 establishments; 1,500-2,499, 7 establishments; 2,500-4,999, 2 establishments.

Source: U.S. Bureau of the Census, *County Business Patterns, 1991, Hawaii*, CBP-91-13 (December 1992), pp. 3, 14, and 18.

Table 15.19-- AUXILIARIES AND CORPORATE HEADQUARTERS: 1987

[Auxiliaries are separate locations of multiunit companies providing administrative or other support services to the operating establishments of the same company]

Subject	Number of auxiliaries	Employees	Annual payroll (\$1,000)
All auxiliaries	<u>1</u> / 215	6,558	154,433
Responding to inquiry on corporate headquarters	156	5,259	131,471
Corporate headquarters	79	3,110	87,750

1/ By principal function: administration, 147; research, development, and testing, 2; warehousing, 30; other activities, 36.

Source: U.S. Bureau of the Census, *1987 Enterprise Statistics, Auxiliary Establishments*, ES87-2 (December 1990), tables 2 and 3.

Table 15.20-- CHARACTERISTICS OF BUSINESS AND PROFESSIONAL FIRMS, BY COUNTIES: 1993

Characteristic	State total	Honolulu	Maui	Kauai	Hawaii
Business type, total <u>1/</u>	24,003	17,703	2,310	1,322	2,662
Corporation.....	15,214	11,502	1,469	721	1,522
Partnership.....	1,220	853	130	98	139
Proprietorship.....	7,569	5,348	717	503	1,001
Employees, total <u>1/</u>	24,030	17,727	2,327	1,466	2,510
1 to 4.....	12,689	8,961	1,345	927	1,456
5 to 9.....	4,460	3,346	417	221	476
10 to 19.....	2,853	2,203	238	145	267
20 to 49.....	2,372	1,895	184	96	197
50 to 99.....	885	700	76	47	62
100 to 199.....	414	339	34	18	23
200 to 499.....	221	169	21	10	21
500 to 999.....	70	53	8	1	6
1,000 and over	66	59	4	1	2
Sales volume, total <u>1/</u>	16,921	12,950	1,308	889	1,774
Under \$500,000.....	11,312	8,449	843	640	1,380
\$500,000 to \$999,999.....	2,392	1,912	170	113	197
\$1.0 to \$4.9 million	1,972	1,572	172	97	131
\$5.0 to \$9.9 million	437	345	55	15	22
\$10.0 to \$24.9 million	387	307	45	17	18
\$25.0 million and over	421	365	23	7	26
Year established, total <u>1/</u>	23,670	18,156	1,943	1,177	2,394
1820 to 1849.....	25	14	4	2	5
1850 to 1899.....	155	110	14	10	21
1900 to 1949.....	1,643	1,201	134	88	220
1950 to 1959.....	1,582	1,288	98	59	137
1960 to 1969.....	3,089	2,485	227	110	267
1970 to 1979.....	7,235	5,385	772	316	762
1980 and later.....	9,941	7,673	694	592	982

1/ For the entire State, 33,269 firms were listed. Distributions exclude non-responding firms and those for which item (typically sales volume) was not applicable.

Source: CD Systems Corp., *Hawaii Business Directory 1993* (March 1993), pp. 5-7.

**Table 15.21-- REGISTERED CORPORATIONS AND PARTNERSHIPS:
1990 TO 1993**

[Excludes eleemosynary corporations]

Subject	1990	1991	1992	1993
Domestic (Hawaii) corporations:				
Formed <u>1/</u>	3,822	3,559	3,294	3,193
Dissolved or merged <u>2/</u>	6,589	2,560	2,365	2,606
On record, June 30 <u>3/</u>	31,844	32,943	33,804	34,430
Foreign (non-Hawaii) corporations:				
Qualified <u>1/</u>	858	770	685	734
Withdrawn, merged, or cancelled <u>2/</u>	1,183	287	468	301
On record, June 30 <u>3/</u>	5,665	5,903	6,125	6,314
Partnerships:				
Registered <u>1/</u>	1,575	1,430	1,358	1,297
Dissolved or cancelled <u>2/</u>	3,098	1,423	1,196	1,314
On record, June 30 <u>3/</u>	8,311	8,229	8,372	8,239

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, May 11, 1994.

Table 15.22-- BUSINESS CLIMATE INDEXES: 1989 TO 1993

Index	1989	1990	1991	1992	1993	
					Index	Rank
Economic performance	A	A	A	A	A	8
Business vitality	D	D	D	F	F	50
Development capacity	B	B	B	B	B	12

Source: The Corporation for Enterprise Development, *The 1993 Development Report Card for the States* (7th ed., 1993), pp. 30-32.

**Table 15.23-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS,
AND PROPRIETORSHIPS: 1985, 1987, AND 1989**

[Money amounts in millions of dollars]

Subject	1985	1987	1989
CORPORATIONS ^{1/}			
Number of corporations.....	19,513	19,493	20,776
Taxable.....	8,708	9,404	9,969
Nontaxable.....	10,805	10,089	10,807
Business receipts.....	22,714.3	26,583	33,383
Taxable corporations.....	12,554.7	17,753	20,435
Nontaxable corporations.....	10,159.6	8,830	12,948
Taxable income, excluding net losses ^{2/}	845.7	1,114.3	1,614.1
PARTNERSHIPS			
Number of partnerships.....	7,398	6,752	6,274
With net profit.....	3,389	3,697	3,853
With net loss.....	4,009	3,055	2,421
Number of partners.....	^{3/} 80,208	146,170	219,388
Business receipts.....	1,918.1	3,510.2	4,089.7
Businesses with net profit.....	1,294.0	2,800.5	3,272.9
Businesses with net loss.....	624.1	709.7	816.8
Net profit reported.....	431.1	906.0	1,425.9
Net loss reported.....	439.1	548.5	578.9
PROPRIETORSHIPS			
Number of proprietorships.....	59,475	61,733	65,561
With net profit.....	41,510	46,870	49,716
With net loss.....	17,965	14,863	15,845
Business receipts.....	1,579.1	1,767.7	2,078.2
Businesses with net profit.....	1,439.4	1,584.4	1,857.5
Businesses with net loss.....	139.7	183.3	220.7
Net profit reported.....	321.3	444.2	635.1
Net loss reported.....	53.3	66.4	60.2

^{1/} Includes domestic, foreign, and small business corporations.

^{2/} Includes taxable income reported by small business corporations, taxable to individual stockholders only.

^{3/} For Oahu only.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Corporation, Proprietorship, Partnership* (biennial), and records.

Table 15.24-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: 1992

[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	3,376	50,000
2	BHP Petroleum Americas (Hawaii) Inc.	1904/1970/1993	1,700	1,250
3	Hawaiian Electric Industries Inc.....	1891/1983	1,031	3,521
4	Bancorp Hawaii Inc.....	1897/1971	940	4,275
5	Hawaii Medical Service Assn. (HMSA)	1938	847	1,400
6	Alexander & Baldwin Inc.....	1870/1900	754	2,857
7	DFS Hawaii.....	1962	600	1,450
8	GTE Hawaiian Tel.....	1883	559	3,887
9	First Hawaiian Inc.....	1858/1974	547	2,900
10	Chevron USA Products Co.....	1904	470	255

^{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: "The Hawaii Business Top 250," *Hawaii Business*, August 1993, pp. 68 and 70.

Table 15.25-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1991 AND 1992

[Based on 1992 ranks for reporting companies]

Company	Net income or loss (\$1,000)		Revenues (\$1,000,000)	
	1991	1992	1991	1992
Largest net incomes:				
Bancorp Hawaii.....	112,690	127,520	1,022.8	940.0
First Hawaiian Inc.....	81,710	86,900	577.8	547.0
Dole Food Co.....	133,700	65,213	3,216.0	3,375.5
Largest net losses:				
First Insurance.....	10,614	(42,397)	156.9	159.4
Hawaiian Electric.....	54,826	(11,582)	993.2	1,031.4
Hawaii Dental Service.....	(1,700)	(3,495)	66.0	75.7

Source: "The Hawaii Business Top 250," *Hawaii Business*, August 1993, p. 50.

Table 15.26-- WOMEN-OWNED BUSINESSES: 1987

Subject	Total firms	Women-owned firms <u>1/</u>	Percent women-owned <u>1/</u>
All firms:			
Number.....	60,928	21,696	35.6
Sales and receipts <u>2/</u>	\$6,522	\$856,930	13.1
Firms with paid employees:			
Number.....	10,589	2,404	22.7
Sales and receipts <u>2/</u>	\$5,342	\$546,087	10.2
Employees.....	65,058	9,548	14.7
Annual payroll <u>2/</u>	\$913	\$105,425	11.5

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, *1987 Economic Censuses*, WB87-1, *Women-Owned Businesses* (August 1990), tables 2 and 11.

Table 15.27-- BUSINESS FAILURES, BY INDUSTRY SECTOR: 1990 TO 1993

Industry sector	1990	1991	1992	1993 <u>1/</u>
Firms, all sectors.....	149	74	290	305
Agriculture, forestry, fishing.....	-	1	2	3
Mining.....	-	-	-	-
Construction.....	4	4	15	26
Manufacturing.....	4	5	17	12
Transportation, public utilities.....	2	4	20	18
Wholesale trade.....	6	7	15	19
Retail trade.....	22	16	58	58
Finance, insurance, real estate.....	2	4	17	11
Services.....	105	13	37	58
Unclassifiable.....	4	20	109	100

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.

Hawaii is served by all major communications media. In 1993 it had 145 post offices and stations handling 504 million pieces of mail and accounting for postal receipts of \$161 million. There were 629,000 telephone access lines in service, 418,000 telephone homes, and uncounted millions of local, interisland, and transpacific calls in 1992. The 60 commercial, public and educational radio stations in the Islands in 1993 included 29 on the regular broadcast band and 31 FM stations. The State also had 22 television stations (20 commercial and 2 public), including satellites but excluding translators. Seven cable TV companies served 324,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in May 1992 numbered 93,000 households. Island publishers printed ten daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 191,000 in 1991-1992. Statistics on fax machines and cellular telephones are unavailable.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, the CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, and A. C. Nielsen Co. Earlier figures appear in *Historical Statistics of Hawaii*, Section 18. Data on communications for other states and for the nation as a whole are carried in *Statistical Abstract of the United States: 1993*, Section 18.

**Table 16.1-- TELEPHONE ACCESS LINES, BY ISLANDS AND TYPE:
1983 TO 1993**

[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:						
1983	458,339	342,094	116,245	332,051	102,923	23,365
1984	472,229	348,936	123,293	339,296	107,830	25,103
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

1/ In 1992, GTE Hawaiian Telephone Company changed its definition of total switched access lines.
Source: GTE Hawaiian Telephone Company, data provided June 14, 1994.

**Table 16.2-- RESIDENTIAL TELEPHONES IN SERVICE, BY ISLANDS:
1990 TO 1993**

[Estimates based on 1987 survey data reporting 1.74 telephones per residence access line]

Islands	1990	1991	1992	1993
State total	692,106	710,969	726,615	747,594
Oahu	504,215	515,228	525,094	537,282
Other islands	187,890	195,741	201,522	210,312

Source: GTE Hawaiian Telephone Company, data provided June 14, 1994.

Table 16.3-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1988 TO 1993

[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/	
1988	0.25	1.04	2.00	0.92	2.47	19.51
1989	0.25	1.00	2.00	0.76	3.26	20.43
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

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 primary service charge (\$13.50 in 1992), desk phone rental (\$3.45 for rotary phone), interstate subscriber line charge (\$3.50), hearing impaired relay service fee (\$0.07), and federal and state taxes (\$0.85).

Source: Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

Table 16.4-- TELEPHONE ACCESS LINES AND NON-LIST AND NON-PUBLISHED NUMBERS IN SERVICE: 1989 TO 1993

[Data include both residence and business telephone numbers]

Category	1989	1990	1991	1992	1993
Access lines	555,966	586,065	606,899	629,214	649,268
Non-list and non-published.	146,416	161,608	173,110	182,205	193,282
Non-list 1/	2,511	2,572	2,189	2,215	2,195
Non-published 2/	143,905	159,036	170,921	179,990	191,087

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.

Source: GTE Hawaiian Telephone Company data provided June 15, 1994.

**Table 16.5-- HAWAIIAN TELEPHONE COMPANY OPERATIONS:
1990 TO 1992**

Subject	1990	1991	1992
Operating revenues (\$1,000)	539,283	545,910	559,022
Operating expenses (\$1,000).....	443,089	448,917	460,926
Net income (\$1,000).....	51,963	46,698	43,590
Net investment in property, plant, and equipment (\$1,000)	944,095	983,243	1,053,127
Total assets (\$1,000) <u>1/</u>	1,121,529	1,217,705	1,281,007
Access lines <u>2/</u>	630,885	659,844	681,171
Total salaries and wages (\$1,000)	154,222	153,261	167,366
Number of employees	4,185	4,099	3,887

1/ Prior years's data exclude deferred income tax benefits.

2/ Prior year's data have been restated to the current year presentation.

Source: *GTE Hawaiian Tel 1992 Annual Report*.

**Table 16.6-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS:
SEPTEMBER 30, 1993**

Island	Total	Post offices			Stations	
		1st class	2nd class	3rd class	Classi- fied <u>1/</u>	Con- tract <u>2/</u>
State total	145	34	29	9	34	39
Hawaii.....	36	8	15	2	2	9
Maui.....	18	8	2	-	2	6
Lanai.....	1	-	1	-	-	-
Molokai.....	5	1	-	4	-	-
Oahu.....	65	12	4	1	28	20
Kauai	20	5	7	2	2	4
Niihau	-	-	-	-	-	-

1/ Staffed by career postal employees.

2/ Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu Division, records.

Table 16.7-- POSTAL SERVICE: 1989 TO 1993

[Years ended September 30]

Subject	1989	1990	1991	1992	1993
Post offices, September 30	74	74	74	73	72
Stations, September 30 <u>1/</u>	74	70	70	70	73
Gross postal receipts (\$1,000)	129,177	136,087	151,429	158,134	161,493
Pieces of mail <u>2/</u> (millions).....	434	463	473	478	504

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 16.8-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1991 AND 1992

County	Number of companies Dec. 31 <u>1/</u>		Subscribers, Dec. 31		Basic service revenue <u>2/</u> (\$1,000)	
	1991	1992	1991	1992	1991	1992
State total	8	7	320,657	324,118	61,842	70,285
Hawaii.....	3	3	29,410	29,524	7,205	8,036
Maui.....	2	2	40,785	42,101	7,651	8,077
Honolulu	2	2	231,817	236,231	42,825	50,846
Kauai <u>3/</u>	3	2	18,645	16,262	4,161	3,327

1/ State totals are unduplicated figures; one company provided service to three counties.

2/ Revenue for Jones Spacelink estimated.

3/ Decline after 1991 reflects Hurricane Iniki.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 16.9-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY: 1990 TO 1992

[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 <u>1/</u>	Persons <u>2/</u>	Households <u>1/</u>	Persons <u>2/</u>
1990: Feb.....	88	145	190	353
May.....	84	129	174	301
Nov.....	86	135	177	306
1991: Feb.....	83	126	184	317
May.....	85	133	180	316
Nov.....	151	211	100	140
1992: Feb.....	149	209	90	126
May.....	160	224	93	130

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 16.10-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA: 1991 AND 1992

Subject	January 1991			January 1992		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households.....	370,300	279,200	91,100	366,900	271,500	95,400
With television.....	359,670	272,220	87,450	356,760	264,960	91,800
Percent.....	97.1	97.5	96.0	97.2	97.6	96.2

Source: *Nielsen Station Index, Honolulu, Hawaii*, February 1991 and February 1992, table 1.

Table 16.11-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION, 1930 TO 1993, AND BY COUNTIES, 1992 AND 1993

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV <u>1/</u>	AM	FM	TV <u>1/</u>
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
1992: June 30 <u>2/</u>	29	26	20	-	4	2
1993: June 30.....	29	27	20	-	4	2
COUNTIES: 1992 <u>2/</u>						
Hawaii.....	5	7	6	-	-	-
Maui.....	4	6	5	-	1	1
Honolulu <u>3/</u>	18	11	9	-	3	1
Kauai.....	2	2	-	-	-	-
COUNTIES: 1993						
Hawaii.....	5	8	6	-	-	-
Maui.....	4	6	5	-	1	1
Honolulu <u>3/</u>	18	11	9	-	3	1
Kauai.....	2	2	-	-	-	-

1/ Includes satellites but excludes translators and cable television.

2/ Revised from *Data Book 1992*, table 463.

3/ 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, Field Operations Bureau, Honolulu, records.

**Table 16.12-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY
ENGLISH-LANGUAGE NEWSPAPERS: 1989-90 TO 1992-93**

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the *Hawaii Hochi*, Japanese and English; *The Korea Times and Han Kook Ilbo* and *Korea Central Daily*, Korean; and *United Chinese Press*, Chinese]

Newspaper	1989-90	1990-91	1991-92	1992-93
Daily:				
Honolulu Advertiser <u>1/</u>	98,400	101,220	103,114	104,665
Honolulu Star-Bulletin <u>2/</u>	92,811	89,704	87,809	87,052
Hawaii Tribune-Herald (Hilo) <u>3/</u>	20,354	20,486	20,193	(NA)
West Hawaii Today (Kailua-Kona) <u>4/</u>	10,781	11,733	11,698	11,860
Maui News (Wailuku) <u>3/</u>	17,861	18,170	18,494	(NA)
Garden Island.(Lihue) <u>3/</u>	8,664	8,246	7,478	(NA)
Sunday morning:				
Sunday Star-Bulletin and Advertiser .	200,798	200,199	200,378	197,597
Hawaii Tribune-Herald (Hilo).....	23,291	23,879	23,999	(NA)
West Hawaii Today (Kailua-Kona)	11,576	12,684	12,971	13,434
Maui News (Wailuku)	19,405	19,939	20,822	(NA)
Garden Island (Lihue)	9,157	8,552	8,058	(NA)

1/ Mornings, Monday through Saturday.

2/ Afternoons, Monday through Saturday.

3/ Afternoons, Monday through Friday.

4/ Mornings, Monday through Friday.

Source: Audit Bureau of Circulations data provided to DBEDT by newspaper publishers.

Table 16.13-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1984 TO 1994

[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			
1984	20	17	13	25	100
1985	22	17	14	35	100
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

^{1/} Street sales, for the daily *Honolulu Advertiser* (all years), daily *Honolulu Star-Bulletin* (all years), *Sunday Star-Bulletin and Advertiser* (through Feb. 27, 1993), and *Sunday Honolulu Advertiser* (beginning March 7, 1993).

Source: Postal rates from *Statistical Abstract of the United States: 1993*, p. 560, as updated by Postal Service Customer Information. Newspaper rates from Hawaii Newspaper Agency.

Table 16.14-- COMMUNICATION AND RELATED ESTABLISHMENTS: 1991

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
27	Printing and publishing	204	482	Telegraph & other.....	4
271	Newspapers	19	483	Radio, TV broadcast.....	40
272	Periodicals.....	26	484	Cable, other pay TV	14
273	Books	8	489	Commun. services, n.e.c	16
274	Miscell. publishing..	17	5942	Book stores	60
48	Communication	213	731	Advertising.....	82
481	Telephone	137	7311	Advertising agencies...	56

Source: U.S. Bureau of the Census, *County Business Patterns 1991, Hawaii*, CBP-91-13 (December 1993), table 1b.

Table 16.15-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1989 TO 1993

Year	Published titles <u>1/</u>		New books and journals published <u>3/</u>		Volumes sold <u>3/</u>	Book sales revenues <u>3/</u> (dollars)
	Cumulative total <u>2/</u>	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

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 (on utility employment), 14 (prices), and 18 (gasoline consumption).

Total energy consumption in 1992 amounted to 322 trillion British thermal units, compared with 272 trillion Btu a decade earlier. Fully 90 percent in 1992 was provided by petroleum. Transportation, accounted for 57 percent of the total. Total expenditures for fuels and electricity in 1992 were \$2.3 billion.

Electricity sales amounted to 8.7 billion kilowatt-hours in 1993, a total that has increased 35 percent since 1983. Manufactured gas sales reached 33 million therms in 1993, six percent above the figure ten years earlier. Residential rates in 1993 averaged 12.3 cents per kilowatt-hour and \$1.76 per therm. Average residential use (7,197 kWh and 178 therms in 1993) has declined since the early 1970s.

The liquid fuel tax base for 1993 was approximately 1.2 billion gallons, compared with 920 million in 1993. The 1993 total included 384 million gallons of gasoline, 600 million of aviation fuel, and 185 million of diesel oil. The average price for automotive gasoline was \$1.56 per gallon during 1991.

The State is well served with scientific resources. Especially noteworthy is the cluster of large astronomical telescopes at the summits of Mauna Kea and Haleakala--twelve major facilities, including the world's most powerful. Federal research and development obligations in Hawaii totaled \$100 million in 1990. Eighty-five patents were granted to Hawaii residents in 1992.

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 and its Division of Consumer Advocacy, the DBEDT Energy Division, UH Institute for 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: 1993*, Sections 19 and 20.

**Table 17.1-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS):
1970 TO 1991**

Year	Petroleum ^{1/} (1,000 barrels)	Hydro- electric 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	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	45,858	87	0	37	0

^{1/} For data by type of petroleum, see source. Revised data, 1987-1990.

^{2/} Includes industrial and electric utility production.

^{3/} Wood, waste, wind, photovoltaic, and solar thermal energy sources consumed at electric utilities to produce electricity. Excludes natural gas and nuclear electric power.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1991, Consumption Estimates* (May 1993), p. 105.

**Table 17.2-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU):
1970 TO 1991**

[Revised data, 1984-1990]

Year	Total energy consumed	Petroleum <u>1/</u>	Hydro-electric power <u>2/</u>	Geo-thermal energy	Coal	Natural gas	Other types <u>3/</u>
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	231.8	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	271.6	266.9	0.9	0.0	0.9	2.9	0.0

1/ For data by type of petroleum, see source.

2/ Includes industrial and electric utility production.

3/ Wood, waste, wind, photovoltaic, and solar thermal energy sources consumed at electric utilities to produce electricity.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1991, Consumption Estimates* (May 1993), p. 105.

**Table 17.3-- CONSUMPTION OF ENERGY BY END-USE SECTOR:
1970 TO 1991**

[Trillion Btu. Revised data for 1987-1990]

Year	Consumption ^{1/}				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	153.4	79.2

^{1/} Excludes small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1991, Consumption Estimates* (May 1993), pp. 106-110.

Table 17.4-- PRIMARY ENERGY CONSUMPTION AND ELECTRICITY SALES, TOTAL AND PER CAPITA: 1970 TO 1992

Year	Primary energy consumption		Electricity sales by utilities	
	Total (trillion Btu)	Per capita ^{1/} (million Btu)	Total (1,000 kWh)	Per capita ^{1/} (kWh)
1970	225.22990	282.031	3,758,094	4,706
1971	241.09159	289.391	4,167,127	5,002
1972	245.12817	281.821	4,562,568	5,246
1973	250.54211	277.979	4,867,850	5,401
1974	237.26587	256.865	5,113,906	5,536
1975	238.35719	252.631	5,334,755	5,654
1976	240.51954	247.882	5,615,210	5,787
1977	254.54840	256.524	5,831,610	5,877
1978	259.11475	255.462	6,004,891	5,920
1979	278.45009	267.047	6,197,426	5,944
1980	273.88094	259.504	6,345,531	6,012
1981	273.32263	257.221	6,424,016	6,046
1982	272.11290	250.888	6,332,707	5,839
1983	279.03031	251.560	6,425,578	5,793
1984	276.36995	244.467	6,606,255	5,844
1985	266.21778	233.976	6,635,158	5,832
1986	271.05620	232.168	7,025,739	6,018
1987	282.71678	238.278	7,298,178	6,151
1988	306.72360	255.518	7,719,029	6,430
1989	314.96310	252.861	7,970,360	6,399
1990	306.70400	243.803	8,310,537	6,606
1991	315.50600	246.952	8,524,088	6,672
1992 ^{2/}	321.72220	247.364	8,666,889	6,664

^{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 17.5-- PRIMARY ENERGY CONSUMPTION, BY SOURCE: 1970 TO 1992

[Trillion Btu]

Year	Total	Petroleum	Biomass ^{1/}	Solar water heating	Hydro-electricity	Coal	Wind	Geo-thermal
1970	225.2299	197.2279	26.9020	-	1.1000	-	-	-
1971	241.0916	212.8486	27.3430	-	0.9000	-	-	-
1972	245.1282	218.3842	25.8440	-	0.9000	-	-	-
1973	250.5421	223.7861	25.7560	-	1.0000	-	-	-
1974	237.2659	212.2739	23.9920	-	1.0000	-	-	-
1975	238.3572	213.4572	24.0000	-	0.9000	-	-	-
1976	240.5195	215.5195	24.0000	-	1.0000	-	-	-
1977	254.5484	229.5889	24.0000	0.0595	0.9000	-	-	-
1978	259.1148	233.5357	24.4000	0.2791	0.9000	-	-	-
1979	278.4501	253.0344	24.0000	0.5157	0.9000	-	-	-
1980	273.8809	248.0109	24.2000	0.7700	0.9000	-	-	-
1981	273.3226	245.5086	24.0900	1.1185	0.7356	1.8700	-	-
1982	272.1129	244.3151	23.9200	1.3567	1.0939	1.2700	-	0.1572
1983	279.0303	250.6283	24.8500	1.5269	0.8865	0.9500	-	0.1886
1984	276.3700	248.4026	24.3650	1.7683	0.7796	0.8470	-	0.2075
1985	266.2178	238.6470	23.1430	2.1327	0.9808	0.9560	0.1697	0.1886
1986	271.0562	242.5857	23.9670	2.1644	1.0562	0.4970	0.6036	0.1823
1987	284.2043	256.4061	22.1840	2.1914	0.9670	1.4875	0.8236	0.1446
1988	306.9212	279.1052	22.7080	2.1931	0.9826	1.3509	0.4185	0.1629
1989	314.9631	289.2301	20.9498	2.3310	1.0183	0.8715	0.4189	0.1435
1990	306.7040	280.8740	21.2400	2.3400	1.0700	0.8900	0.2900	-
1991	315.5060	289.9000	21.2000	2.3000	1.0000	0.8000	0.3060	-
1992 ^{2/}	321.7222	290.8500	20.6548	2.3000	0.7226	6.9207	0.2573	0.0168

^{1/} Beginning 1989, includes solid waste.

^{2/} Preliminary.

Source: U.S. Energy Information Administration; Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records.

Table 17.6-- ELECTRICITY GENERATION BY SOURCE: 1987 TO 1992

[Millions of kWh generated]

Year	Total	Petroleum	Biomass	Hydro-electric	Geo-thermal	Wind	Other <u>1/</u>
1987	8,368	7,577	605	93	14	79	-
1988	8,952	8,115	681	98	16	42	-
1989	9,280	8,511	614	100	14	41	(Z)
1990	9,565	8,589	538	105	-	28	306
1991	9,610	8,664	495	92	-	30	329
1992	10,104	8,556	460	67	1	21	999

Z Less than 500,000 kWh.

1/ Coal, photovoltaic, and solid waste.

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 17.7-- ELECTRICITY PRODUCTION, BY SOURCE, BY ISLANDS: 1992

[Million kWh]

Island	Total	Petroleum	Biomass <u>1/</u>	Hydro-electric	Wind	Other <u>2/</u>
State total..	10,103.8	8,556.2	833.2	66.5	20.7	627.2
Hawaii.....	962.0	764.0	142.7	12.7	15.0	27.6
Maui.....	1,087.8	862.7	157.1	20.3	-	47.7
Lanai.....	26.6	26.6	-	-	-	-
Molokai.....	33.4	32.7	-	-	0.7	-
Oahu.....	7,558.6	6,547.0	454.7	-	5.0	551.9
Kauai.....	435.4	323.2	78.7	33.5	-	-

1/ Includes generation from Honolulu municipal solid waste plant.

2/ Coal, geothermal (ceased operation in 1989), and photovoltaic.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

**Table 17.8-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SOURCE:
1970 TO 1992**

[Millions of dollars]

Year	Total energy expend.	Fuel expenditures			Less: electric utility fuel expend.	Plus: electric purch. by end-user
		Total	Electric utility	Other		
1970	282.7	215.9	17.3	198.6	17.3	84.1
1971	320.8	246.8	24.8	222.0	24.8	98.8
1972	332.4	250.4	27.3	223.1	27.3	109.3
1973	391.1	300.9	36.3	264.6	36.3	126.5
1974	534.5	433.2	49.8	383.4	49.8	151.1
1975	669.9	546.1	91.9	454.2	91.9	215.7
1976	735.6	600.0	100.4	499.6	100.4	236.0
1977	844.5	696.5	123.5	573.0	123.5	271.5
1978	932.2	767.8	149.3	618.5	149.3	313.7
1979	1,261.3	1,083.7	177.0	906.7	177.0	354.6
1980	1,721.3	1,529.8	267.8	1,262.0	267.8	459.3
1981	2,195.2	1,947.7	451.5	1,496.2	451.5	699.0
1982	2,153.8	1,869.6	439.4	1,430.2	439.4	723.6
1983	2,019.9	1,730.1	369.3	1,360.8	369.3	659.1
1984	2,048.4	1,724.8	379.3	1,345.5	379.3	702.9
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 ^{1/}	2,262.0	1,681.2	238.2	1,443.0	238.2	819.0

^{1/} Preliminary.

Source: Hawaii State Department of Business, Economic Development and Tourism, Division of Energy, records.

Table 17.9-- ELECTRIC UTILITIES: 1983 TO 1993

Year	Customers, Dec. 31 ^{1/}			Installed capacity (nameplate), Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential ^{2/}	Other		Total	Residential ^{2/}	Other
1983	319,449	276,194	43,255	1,578,780	6,425,578	1,814,336	4,611,242
1984	324,384	280,518	43,866	1,578,780	6,606,255	1,837,954	4,768,301
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/} .	394,825	340,932	53,893	1,717,914	8,657,903	2,453,830	6,204,075
Year	Average annual use (kWh ^{3/})		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential ^{2/}	Other	Residential ^{2/}	Other	Total	Residential ^{2/}	Other
1983	6,569	106,606	.11348	.09828	659,089	205,889	453,200
1984	6,552	108,702	.11831	.10181	702,899	217,447	485,452
1985	6,590	105,015	.11361	.09653	672,600	213,478	459,122
1986	6,728	109,326	.09294	.07505	562,345	182,110	380,234
1987	6,905	110,466	.09431	.07792	602,553	195,198	407,355
1988	7,011	114,832	.08829	.07141	587,528	189,689	397,839
1989	7,168	114,772	.09265	.07585	642,101	207,436	434,665
1990	7,247	118,060	.10261	.08544	749,857	238,103	511,754
1991	7,187	116,716	.10539	.08726	779,382	249,104	530,278
1991 ^{4/} .	7,252	117,524	.10546	.08733	785,896	251,553	534,343
1992 ^{4/} .	7,301	119,049	.10932	.08898	818,525	265,667	552,858
1993 ^{4/} .	7,197	115,118	.12309	.10005	922,796	302,054	620,743

^{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: 1992

[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 (nameplate) Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential 1/	Other		Total	Residential 1/	Other
State total.....	385,055	332,863	52,192	1,650,639	8,666,889	2,430,152	6,213,410
Oahu.....	257,442	225,229	32,213	1,188,600	6,650,449	1,730,537	4,919,912
Hawaii.....	55,412	46,144	9,268	184,700	790,731	301,079	489,652
Kauai.....	21,938	18,678	3,260	110,550	335,028	108,892	226,136
Maui County.....	50,263	42,812	7,451	166,789	890,681	289,644	577,710
Lanai.....	1,259	1,107	152	10,760	23,327	5,504	17,823
Maui.....	46,233	39,422	6,811	151,029	837,513	277,617	559,896
Molokai.....	2,771	2,283	488	5,000	29,841	12,027	17,814

Continued on next page.

Table 17.10-- ELECTRIC UTILITIES, BY ISLANDS: 1992 - Con.

County or island	Average annual use (kWh) <u>2/</u>		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential <u>1/</u>	Other	Residential <u>1/</u>	Other	Total	Residential <u>1/</u>	Other
State total.....	7,301	119,049	0.10932	0.08898	818,525	265,667	552,858
Oahu.....	7,683	152,731	0.09925	0.07984	564,574	171,756	392,818
Hawaii.....	6,525	52,833	0.14210	0.12598	104,470	42,784	61,686
Kauai.....	5,830	69,367	0.13645	0.13476	45,332	14,859	30,473
Maui County.....	6,765	77,535	0.12522	0.11750	104,149	36,268	67,881
Lanai.....	4,972	117,257	0.15388	0.13643	3,279	847	2,432
Maui.....	7,042	82,205	0.11992	0.11120	95,554	33,291	62,263
Molokai.....	5,268	36,504	0.17713	0.17891	5,317	2,130	3,187

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. Hawaiian Electric Company, Inc., *1992-1987 Financial and Statistical Data Booklet* (June 14, 1993).

Table 17.11-- ELECTRIC UTILITIES, BY ISLANDS: 1993

[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 (nameplate) Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential <u>1/</u>	Other		Total	Residential <u>1/</u>	Other
State total.....	394,825	340,932	53,893	1,717,914	8,657,903	2,453,830	6,204,075
Oahu.....	263,478	230,192	33,286	1,188,600	6,607,424	1,725,507	4,881,917
Hawaii.....	55,979	46,713	9,266	210,095	802,079	310,642	491,437
Kauai.....	24,304	20,484	3,820	110,550	332,677	113,553	219,125
Maui County.....	51,064	43,543	7,521	208,669	915,723	304,128	611,596
Lanai.....	1,263	1,110	153	10,760	23,879	5,916	17,963
Maui.....	47,035	40,163	6,872	189,029	861,002	286,013	574,990
Molokai.....	2,766	2,270	496	8,880	30,842	12,199	18,643

Continued on next page.

Table 17.11-- ELECTRIC UTILITIES, BY ISLANDS: 1993 - Con.

County or island	Average annual use (kWh) <u>2/</u>		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential <u>1/</u>	Other	Residential <u>1/</u>	Other	Total	Residential <u>1/</u>	Other
State total.....	7,197	115,118	0.12309	0.10005	922,796	302,054	620,743
Oahu.....	7,496	146,666	0.11414	0.09158	644,029	196,952	447,077
Hawaii.....	6,650	53,037	0.15155	0.13407	112,967	47,078	65,889
Kauai.....	5,543	57,363	0.16197	0.15695	52,783	18,392	34,391
Maui County.....	6,985	81,318	0.13031	0.11999	113,017	39,632	73,385
Lanai.....	5,330	117,405	0.16802	0.15087	3,704	994	2,710
Maui.....	7,121	83,671	0.12752	0.11715	103,839	36,476	67,363
Molokai.....	5,374	37,587	0.17719	0.17768	5,474	2,162	3,312

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: 1983 TO 1993

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residen- tial 1/	Other	Total	Residen- tial 1/	Other
1983	32,880	28,933	3,947	31,307	6,338	24,970
1984	32,643	28,859	3,784	30,928	5,853	25,075
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	32,295	3,613	33,268	5,750	27,518

Year	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residen- tial 1/	Other	Residen- tial 1/	Other	Total	Residen- tial 1/	Other
1983	219	6,326	1.79719	1.44022	47,352	11,390	35,962
1984	203	6,627	1.78958	1.37488	44,949	10,474	34,475
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	7,616	1.75962	1.22594	43,853	10,117	33,735

1/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.13-- GAS UTILITIES, BY ISLANDS: 1992

[Excludes bottled gas]

Island	Customers, December 31			Gas sold (1,000 therms)		
	Total	Residential ^{1/}	Other	Total	Residential ^{1/}	Other
State total	35,236	31,625	3,611	33,662	5,733	27,929
Oahu.....	32,598	29,375	3,223	30,528	5,285	25,243
Hawaii.....	1,781	1,461	320	2,278	310	1,969
Kauai.....	426	426	-	69	69	-
Maui.....	402	334	68	784	67	717
Molokai ^{3/}	29	29	-	3	3	-
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	181	7,735	1.79054	1.25466	45,307	10,265	35,042
Oahu.....	180	7,832	1.81127	1.26372	41,473	9,573	31,900
Hawaii.....	212	6,153	1.53474	1.17955	2,798	475	2,322
Kauai.....	161	-	1.61156	-	111	111	-
Maui.....	200	10,548	1.49967	1.14186	919	100	819
Molokai ^{3/}	135	-	2.31088	-	6	6	-
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.

^{3/} Utility service to Molokai began in May 1992; annual usage estimated.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.14-- GAS UTILITIES, BY ISLANDS: 1993

[Excludes bottled gas]

Island	Customers, December 31			Gas sold (1,000 therms)		
	Total	Residen- tial <u>1/</u>	Other	Total	Residen- tial <u>1/</u>	Other
State total	35,908	32,295	3,613	33,268	5,750	27,518
Oahu.....	33,206	29,984	3,222	30,027	5,287	24,739
Hawaii.....	1,780	1,458	322	2,372	308	2,064
Kauai.....	501	501	-	83	83	-
Maui.....	394	325	69	782	67	715
Molokai.....	27	27	-	5	5	-
Lanai.....	-	-	-	-	-	-

Island	Average annual use (therms) <u>2/</u>		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residen- tial <u>1/</u>	Other	Residen- tial <u>1/</u>	Other	Total	Residen- tial <u>1/</u>	Other
State total	178	7,616	1.75962	1.22594	43,853	10,117	33,735
Oahu.....	176	7,678	1.77992	1.23456	39,953	9,411	30,542
Hawaii.....	211	6,410	1.50929	1.16002	2,859	465	2,394
Kauai.....	165	-	1.59599	-	132	132	-
Maui.....	206	10,360	1.47629	1.11795	898	99	799
Molokai.....	174	-	2.26418	-	11	11	-
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 17.15-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC COMPANY, INC., ON OAHU: 1988 TO 1993

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					
1988	244,965	214,429	6,439,768	6,095,707	7,386	0.07973	1,258,000
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

^{1/} Net generation plus purchased power.

^{2/} Based on average number of customers during the year.

^{3/} Including firm purchase power.

Source: Hawaiian Electric Company, Inc., records.

Table 17.16-- GAS UTILITY SERVICE BY GAS COMPANY, INC., FOR OAHU: 1988 TO 1993

Calendar year	Customers, Dec. 31		Gas sold ^{1/} (1,000 therms)		Average annual residential usage ^{1/} (therms)
	Total	Residential	Total	Residential	
1988	31,613	28,331	29,689	5,342	189
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

^{1/} Includes liquefied petroleum gas.

Source: The Gas Company, BHP Petroleum, records.

Table 17.17-- LIQUID FUEL TAX BASE: 1983 TO 1993

[In thousands of gallons]

Year reported ^{1/}	All types		Gasoline	Diesel oil	
	Total	Excluding aviation		Non-hwy.	Hwy. use
1983.....	919,865	418,217	310,085	86,790	16,440
1984.....	925,871	440,061	322,410	95,956	17,892
1985.....	970,555	432,500	327,021	83,147	17,636
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

Year reported ^{1/}	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1983.....	3,013	1,052	501,648	213	624
1984.....	2,600	873	485,810	114	215
1985.....	2,804	1,028	538,055	187	676
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

^{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 ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distributions" (annual report).

Table 17.18-- LIQUID FUEL TAX BASE, BY COUNTIES: 1993

[In thousands of gallons]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	1,173,458	927,930	92,744	96,702	56,082
Gasoline.....	384,444	256,027	48,211	57,542	22,664
Diesel oil, non-hwy.....	160,121	62,130	38,421	27,909	31,660
Diesel oil, hwy. use.....	24,987	16,702	2,616	4,633	1,045
Liq. pet. gas, off hwy.....	3,343	1,993	515	542	293
Liq. pet. gas, hwy. use.....	477	383	36	32	27
Small boats, gasoline.....	35	35	-	-	-
Small boats, diesel oil.....	349	12	-	337	-
Aviation fuel.....	599,691	590,647	2,944	5,707	393

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections & Distributions, Calendar Year Ending December 31, 1993" (annual release).

Table 17.19-- IMPORTS AND EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS: 1992

[1,000 barrels]

Product	Imports			Exports		
	Total	Domestic	Foreign	Total	Domestic	Foreign
Crude oil.....	48,199	21,698	26,501	-	-	-
Distillates.....	358	242	116	971	971	-
Jet fuel 1/.....	3,968	2,984	984	199	199	-
Residual fuel oil.....	1,995	636	1,359	1,935	485	1,450
Naphtha.....	0.2	0.2	-	993	320	673
Motor gasoline.....	33.1	33.1	-	1,804	1,164	640

1/ Excludes imports of unknown origin (3,686,500 in 1988).

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records.

Table 17.20-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL, BY COUNTIES: 1987 AND 1991

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
1991	331	217	56	23	(1/)	35	(1/)

1/ Included with Maui.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade, Hawaii* RC87-A-12 (May 1989), table 5, and *County Business Patterns 1991, Hawaii*, CBP-91-13 (December 1993), tables 1b and 2.

Table 17.21-- GASOLINE AVERAGE PRICES PER GALLON, FOR ALL U.S. CITIES AND OAHU: ANNUAL AVERAGES, 1984 TO 1991

[In dollars. Average prices include all applicable federal, state, and county taxes. For earlier years, 1903-1983, see Robert C. Schmitt, *What People Paid to Travel* (Hawaiian Historical Society, 1991), p. 33]

Year	U.S.	Oahu	Year	U.S.	Oahu
1984	1.198	1.450	1988	0.964	1.293
1985	1.196	1.392	1989	1.060	1.365
1986	0.931	1.206	1990	1.217	1.479
1987	0.957	1.233	1991	1.196	1.560

Source: Based on data in the U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly). The 1984-1986 Honolulu prices and all U.S. averages are actual values; the 1987-1991 Honolulu prices are estimates based on actual prices for the last half of 1986 and CPI (U) changes for gasoline for subsequent years.

Table 17.22-- BOILERS AND PRESSURE VESSELS: 1992 AND 1993

Date	Total	Power boilers	Heating boilers	Pressure vessels
1992: Dec. 31.....	9,052	613	2,564	5,875
1993: Dec. 31.....	9,110	615	2,582	5,913

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 17.23-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY SUGAR PLANTATIONS, BY ISLANDS: 1992

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated <u>1/</u>	755.27	231.92	149.35	253.93	120.08
Purchase	24.17	1.21	4.42	3.87	14.67
Sold	389.66	164.10	81.31	106.13	38.11
Used <u>2/</u>	389.78	69.02	72.45	151.68	96.63
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	21,836	7,429	4,124	6,344	3,938
Bagasse	16,068	5,809	3,353	4,562	2,344
Fuel oil	4,852	1,621	739	1,604	889
Other fuels	916	-	32	178	706

1/ Includes electricity generated by steam and by hydroelectric or diesel engine generators.

2/ Includes transmission losses and electricity used to operate power plant auxiliaries.

Source: Hawaiian Sugar Planters' Association, *Energy Inventory of Hawaiian Sugar Plantations - 1992* (Energy Report 32, July 1993), pp. 7-10.

Table 17.24-- HIGH TECHNOLOGY COMPANIES, EMPLOYEES, AND REVENUES: 1990-1991

Characteristics	Companies ^{1/}	Employees ^{1/}	Revenues ^{2/} (\$1,000)
All companies	300	12,204	988,112
Excluding GTE Hawaiian Tel....	299	8,004	448,829
Type of company:			
Products	91	3,946	192,581
Services.....	137	6,549	725,344
Support.....	72	1,709	70,187
Year established:			
Before 1984.....	166	10,512	902,411
1984 to 1987.....	84	1,156	49,107
1988 to 1990.....	50	536	36,594

^{1/} As of late 1990 or early 1991.

^{2/} Annual total for 1990. Excludes 82 companies not reporting revenues.

Source: High Technology Development Corporation, *The Hawaii High Technology Business Directory 1991* (1991), and records.

Table 17.25-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT AND R&D PLANT IN HAWAII: 1985 TO 1990

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

Type of obligation	1985	1986	1987	1988	1989	1990
Obligations for R&D.....	58.2	54.7	63.9	82.2	97.4	100.0
Obligations for R&D plant....	0.9	0.6	0.6	6.9	0.4	1.4

Source: National Science Foundation, *Federal Funds for Research and Development: Fiscal Years 1990, 1991, and 1992*, Volume XL, NSF 92-322 (July 1992), pp. 283-284.

**Table 17.26-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING,
FOR THE UNIVERSITY OF HAWAII: 1988-89 TO 1992-93**

[Research and non-research awards received through the Office of Research Administration,
University of Hawaii]

Fiscal year	Total		Research		Non-research	
	Awards	Amount (dollars)	Awards	Amount (dollars)	Awards	Amount (dollars)
1988-89	777	71,898,382	466	46,990,238	311	24,908,144
1989-90	851	83,689,450	488	49,362,792	363	34,326,658
1990-91	910	106,095,750	510	58,058,097	400	48,037,653
1991-92	1,108	120,150,263	595	61,725,694	513	58,424,569
1992-93	1,093	128,575,372	584	58,454,596	509	70,120,776

Source: Office of Research Administration, University of Hawaii, *1992-1993 Extramural Awards* (1993), p. i.

**Table 17.27-- RESEARCH AND DEVELOPMENT EXPENDITURES AT
DOCTORATE-GRANTING INSTITUTIONS: 1987 TO 1991**

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

Type of expenditure	1987	1988	1989	1990	1991
Total R&D expenditures.....	57,345	64,278	70,733	76,525	78,166
Federally financed.....	34,472	38,560	40,574	42,665	44,857

Source: National Science Foundation, *Academic Science and Engineering: R&D Expenditures, Fiscal Year 1991*, NSF 93-308, Detailed Statistical Tables (July 1993), tables B-23 and B-24.

**Table 17.28-- TELESCOPES AT THE SUMMITS OF MAUNA KEA AND
HALEAKALA: 1991**

Location and facility	Mirror size (meters)	Year completed	Primary use	Local staff ^{1/}
Mauna Kea:				
UH 24-inch Telescope #1	0.61	1968	Optical	} 12
UH 24-inch Telescope #2	0.61	1969	Optical	
UH 88-inch Telescope	2.24	1970	Optical/infrared	
NASA Infrared Telescope Facility	3.0	1979	Infrared	15
Canada-France-Hawaii Telescope	3.6	1979	Optical/infrared	51
United Kingdom Infrared Telescope	3.8	1979	Infrared	29
Caltech Submillimeter Observatory	10.4	1986	mm/submm	11
James Clerk Maxwell Telescope	15.0	1986	mm/submm	37
W.M. Keck Observatory	10.0	1991	Optical/infrared	40
Haleakala (on UH land):				
Mees Solar Observatory .....	...	1956	...	9
Lunar Ranging Facility .....	...	1976/84	...	8
Gamma Ray Facility .....	...	1985	...	1

^{1/} Based in same county as observatory.

Source: University of Hawaii at Manoa, Institute for Astronomy, *Fact Sheet--1991-92* (July 1991).

**Table 17.29-- PATENTS ISSUED TO HAWAII RESIDENTS:
1984 TO 1992**

[Fiscal years ended September 30. Data include design, plant, and reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1984	43	1989	74
1985	33	1990	78
1986	37	1991	78
1987	52	1992	^{1/} 85
1988	62		

^{1/} Hawaii ranked 46th among the 50 States.

Source: U.S. Department of Commerce, Patent and Trademark Office, *Commissioner of Patents and Trademarks Annual Report, Fiscal Year '92*, pp. 62-63, and earlier editions.

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.

Motor vehicle registration in Hawaii increased from 703,000 in 1983 to 880,000 in 1993. Vehicle miles rose during the decade ending in 1992 from 6.0 billion to 8.1 billion. In 1992 over 72,000 new passenger cars and 11,000 trucks were registered. By the end of that year, 717,000 licensed drivers had access to over 4,100 miles of streets and highways throughout the State. Bus passengers carried by the City and County of Honolulu bus system increased from 74 million in 1982 to 78.4 million in 1992.

Almost all scheduled interisland travel is by air. In 1993, airlines and air taxis reported 9.3 million interisland passengers, some 33 percent more than in 1983, and carried 74,000 tons of cargo. The State has seven commercial airports, 15 general aviation, military or semi-private airports, 13 civilian heliports, 3,300 active pilots, and about 500 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1993, 6,925,000 overseas passengers arrived by air, a 10-year growth of 45 percent. Overseas air cargo received that year weighed 128,000 tons.

Undocumented State-registered vessels as of December 31, 1993 numbered 13,832, compared with 8,000 in 1970. Median length was 18.1 feet, and five-sixths were stored on land. There were 1,775 documented vessels in the State in 1991, triple the 1970 total. Overseas vessels brought 15,700 passengers into the State in 1992. Receipts of cargo in 1989 included 10.4 million tons in overseas cargo and 5.7 million tons in interisland cargo.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, 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 *Statistical Abstract of the United States: 1993*, Sections 21 and 22.

Table 18.1-- HIGHWAY DISTANCES: 1993

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	OAHU <u>1/</u>	
Hilo-Kailua, via Saddle Rd.....	84.3	Honolulu-Ala Moana Center	1.6
Hilo-Kailua, via Hamakua	91.2	Honolulu-UH, via King Street.....	3.2
Hilo-Waimea, via Saddle Rd. ...	57.9	Honolulu-Waikiki	3.2
Hilo-Waimea, via Hamakua.....	55.3	Honolulu-Waimanalo, via Koko Head ..	21.8
Hilo-Upolu Pt., via Hamakua ...	83.7	Honolulu-Waimanalo, via Nuuanu	13.3
Hilo-Kawaihae, via Hamakua ...	69.5	Honolulu-Kailua, via Nuuanu	11.6
Waimea-Hawi	21.4	Honolulu-Kaneohe, via Kalihi.....	10.8
Waimea-Kawaihae	11.5	Honolulu-Kahuku, via Kahaluu	36.2
Kawaihae-Hawi	18.0	Honolulu-Kahuku, via Wahiawa.....	46.2
Kawaihae-Kailua	48.4	Honolulu-Kaena Pt., via Wahiawa	42.4
Kailua-Keahole Airport	6.8	Honolulu-Kaena Pt., via Waianae.....	44.3
Kailua-Keauhou.....	6.9	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	KAUAI	
Wailuku-Lahaina, via Olowalu ..	20.9	Lihue-Haena	38.0
Kahului-Kihei	7.9	Lihue-Wailua.....	5.9
Lahaina-Wailea	32.4	Lihue-Lihue Airport	2.0
Lahaina-Napili	8.9	Lihue-Poipu.....	11.9
Lahaina-Kaanapali	3.7	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 18.2-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1970 TO 1991

[Excludes private thoroughfares and military roads not regularly open to public use]

Excludes	1970	1975	1980	1985	1990	1991
Total mileage	3,529	3,743	3,912	4,070	4,101	4,102
Paved	3,047	3,355	3,591	3,808	3,887	3,888
Unpaved	482	389	321	262	214	214

Source follows next table.

Table 18.3-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1992

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways ^{1/}	Other	
State total	4,105.94	96.82	3,811.12	198.00
Hawaii ^{2/}	1,433.10	6.56	1,367.17	59.37
Maui ^{2/}	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	-	-	-	-

^{1/} Classified as interstate and freeways and expressways.

^{2/} Significant changes since 1991 are due to reinventories of roads.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.4-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1992

Island	Number of bridges ^{1/}	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State	700	Airport Viaduct .	14,890	Nanue	208
Hawaii.....	129	Hakalau	775	Nanue	208
Maui.....	93	Honokahua	600	Uaoa.....	79
Lanai.....	-	None .....	...	None.....	...
Molokai	19	Manawainui	360	Manawainui	50
Oahu.....	406	Airport Viaduct .	14,890	Kipapa	156
Kauai	53	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 18.5-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1992

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 18.6-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1983 TO 1993**

[Taxable and non-taxable. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles <u>1/</u>	Ambulances, hearses, patrol wagons	Buses
1983	(NA)	702,854	(NA)	(NA)	(NA)
1984	735,458	717,171	599,845	68	4,034
1985	767,892	749,034	625,823	66	4,189
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
		Motor vehicles -- continued			
Year	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor scooters <u>2/</u>	Trailers and semi-trailers
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	101,233	1,428	364	10,199	18,287
1985	106,673	1,334	342	10,607	18,858
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

Footnotes and source on next page.

**Table 18.6-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1983 TO 1993 -- Con.**

NA Not available.

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: City and County of Honolulu, Department of Data Systems, records.

**Table 18.7-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1983 TO 1993**

[Taxable and non-taxable. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers. Also includes vehicles registered but subsequently scrapped or shipped out of the State]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1983	702,854	515,002	80,090	35,365	72,397
1984	717,171	525,599	80,840	35,236	75,496
1985	749,034	544,976	85,806	37,659	80,593
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

Source: City and County of Honolulu, Department of Data Systems, records.

**Table 18.8-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1990 TO 1993**

[Taxable and non-taxable. 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
1990 (revised)					
All vehicles.....	911,283	625,373	115,460	58,182	112,268
Motor vehicles	889,096	612,742	110,834	55,927	109,593
Passenger vehicles <u>1</u> /	718,204	497,661	88,037	44,522	87,984
Ambulances.....	55	37	10	1	7
Buses	4,308	3,476	258	96	478
Trucks <u>1</u> /.....	152,453	101,253	20,686	10,629	19,885
Truck tractors	1,043	466	244	112	221
Truck cranes.....	313	109	51	35	118
Motorcycles <u>2</u> /	12,720	9,740	1,548	532	900
Trailers and semi-trailers	22,187	12,631	4,626	2,255	2,675
1991					
All vehicles.....	920,124	626,052	118,171	60,108	115,793
Motor vehicles	897,193	613,119	113,265	57,751	113,058
Passenger vehicles <u>1</u> /	717,907	494,177	88,140	45,688	89,902
Ambulances.....	54	36	10	1	7
Buses	4,309	3,530	234	76	469
Trucks <u>1</u> /.....	159,831	104,573	22,757	11,277	21,224
Truck tractors	972	425	222	101	224
Truck cranes.....	323	114	44	30	135
Motorcycles <u>2</u> /	13,797	10,264	1,858	578	1,097
Trailers and semi-trailers.....	22,931	12,933	4,906	2,357	2,735

Continued on next page.

**Table 18.8-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1990 TO 1993 -- Con.**

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1992					
All vehicles.....	908,738	624,390	118,128	53,624	112,596
Motor vehicles.....	885,761	611,513	113,080	51,165	110,003
Passenger vehicles <u>1/</u>	703,983	489,093	86,897	41,778	86,215
Ambulances.....	53	34	10	-	9
Buses.....	4,282	3,558	203	68	453
Trucks <u>1/</u>	160,952	107,027	23,675	8,543	21,707
Truck tractors.....	871	377	210	91	193
Truck cranes.....	298	115	33	27	123
Motorcycles <u>2/</u>	15,322	11,309	2,052	658	1,303
Trailers and semi-trailers.....	22,977	12,877	5,048	2,459	2,593
1993					
All vehicles.....	903,550	617,847	116,024	56,606	113,073
Motor vehicles.....	880,152	604,602	111,138	54,068	110,344
Passenger vehicles <u>1/</u>	693,283	483,237	84,507	39,409	86,130
Ambulances.....	48	34	9	0	5
Buses.....	4,032	3,316	212	58	446
Trucks <u>1/</u>	165,209	105,477	24,072	13,747	21,913
Truck tractors.....	757	330	184	86	157
Truck cranes.....	283	120	31	22	110
Motorcycles <u>2/</u>	16,540	12,088	2,123	746	1,583
Trailers and semi-trailers.....	23,398	13,245	4,886	2,538	2,729

1/ Vans 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 18.9-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,
BY COUNTIES: 1990**

County	All occupied units	None	1	2	3 or more
State total	356,267	35,159	128,513	127,011	65,584
Hawaii.....	41,461	3,100	14,676	16,154	7,531
Honolulu	265,304	29,406	98,542	91,032	46,324
Kalawao.....	62	26	6	24	6
Kauai	16,295	777	4,573	6,699	4,246
Maui.....	33,145	1,850	10,716	13,102	7,477

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 4.

**Table 18.10-- NEW PASSENGER CARS AND MOTOR TRUCKS
REGISTERED: 1987 TO 1992**

Year	Total	Passenger cars	Motor trucks
1987	73,138	51,446	21,692
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

Source: R.L. Polk and Co., cited in American Automobile Manufacturers Association, *AAMA Motor Vehicle Facts and Figures* (annual).

**Table 18.11-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1988 TO 1993**

Year	State total	Honolulu	Maui	Hawaii	Kauai
1988	74,962	49,401	11,413	8,410	5,738
1989	85,425	52,855	13,733	11,362	7,475
1990	102,821	57,524	19,737	14,527	11,033
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

Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual), as revised.

**Table 18.12-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY
NAMEPLATE: 1992 AND 1993**

Nameplate ^{1/}	1992: Total		1993			
	Rank	Number	Total		Retail	Fleet ^{2/}
			Rank	Number		
All nameplates .....	...	83,357	...	79,168	44,925	34,243
Ford	1	17,818	1	19,438	7,222	12,216
Chevrolet	2	16,363	2	7,409	3,447	3,962
Toyota	3	6,877	3	7,136	6,218	918
Nissan	4	5,585	4	6,989	3,742	3,247
Honda	5	5,575	5	5,289	5,289	0
Pontiac	6	4,163	6	3,909	481	3,428
All others .....	...	26,976	...	28,998	18,526	10,472

^{1/} Shown separately for first six in 1993.

^{2/} "Program" cars sold to car rental companies through local and mainland dealers.

Source: Hawaii Automobile Dealers Association, *HADA Yearbooks for 1993 and 1994*.

Table 18.13-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, RETAIL AND FLEET, BY PLACE OF MANUFACTURE: 1992 AND 1993

Year and place of manufacture	Cars and trucks	Cars			Trucks (all retail)
		Total	Retail	Fleet	
1992, total.....	83,357	72,392	33,901	38,491	10,965
Domestic	54,535	47,369	14,142	33,227	7,166
Imports	28,822	25,023	19,759	5,264	3,799
Percent imports	34.6	34.6	58.3	13.7	34.6
1993, total.....	79,168	70,735	36,816	33,919	8,433
Domestic	50,329	44,935	15,858	29,077	5,394
Imports	28,839	25,800	20,958	4,842	3,039
Percent imports	36.4	36.5	57.0	14.3	36.0

Source: Hawaii Automobile Dealers Association, *1993 HADA Yearbooks*, for 1993 and 1994.

Table 18.14-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1987 TO 1992

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1987	628,027	463,522	72,142	31,831	60,532
1988	634,880	465,331	74,545	33,007	61,997
1989	657,156	478,078	78,448	34,963	65,667
1990	677,626	488,119	82,730	37,026	69,751
1991	699,664	501,260	86,181	38,894	73,329
1992	716,545	510,901	89,436	39,947	76,261

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1992**

Age	Both sexes	Male	Female
Total.....	716,545	385,639	330,906
15 to 19 years.....	37,969	20,725	17,244
20 to 24 years.....	66,674	36,073	30,601
25 to 34 years.....	170,064	89,246	80,818
35 to 44 years.....	173,986	90,817	83,169
45 to 54 years.....	115,421	61,938	53,483
55 to 64 years.....	74,144	39,675	34,469
65 to 74 years.....	57,280	33,116	24,164
75 to 84 years.....	19,210	12,721	6,489
85 years and over.....	1,797	1,328	469
Median age (years)	39.8	40.2	39.4

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.16-- MOTOR VEHICLE-MILES OF TRAVEL PER MILE OF
HIGHWAY, 1970 TO 1991, AND BY COUNTIES, 1991**

[1,000]

Year	Vehicle-miles per highway mile	County	Vehicle-miles per highway mile
1970	966	State, 1991	1,985
1975	1,108		
1980	1,424	Hawaii	772
1985	1,661	Maui	1,312
1990	1,967	Honolulu	3,680
1991	1,985	Kauai	1,477

Source: Calculated from data supplied by Hawaii State Department of Transportation, Highways Division.

**Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1982 TO 1992**

Year and county	Highway fuel consumption ^{1/}		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle ^{2/}	Total (millions)	Per vehicle ^{2/}
1982	323,827	482	6,048.3	9,007
1983	327,769	(NA)	(NA)	(NA)
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
COUNTIES: 1992				
Honolulu	272,706	448	5,384.4	8,846
Hawaii.....	60,630	531	1,113.8	9,746
Kauai	23,642	421	579.0	10,316
Maui.....	48,985	445	988.3	8,971

NA Not available.

^{1/} Includes gasoline, diesel oil, and butane gas. Gasohol was no longer used in motor vehicles after June 1982.

^{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 18.18-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1990 TO 1992

Site	1990	1991	1992
Pali Highway at tunnels	50,590	61,046	58,384
Likelike Highway at tunnels	54,296	60,217	59,678
H-1 Freeway at Manoa-Palolo Drainage Canal ^{1/}	123,621	123,915	129,811
H-1 Freeway at Kapalama Drainage Canal Bridge	193,983	208,530	209,922
Nimitz Highway at Kapalama Drainage Canal Bridge.....	73,188	81,593	76,555
Kalaniana'ole Highway east of Ainako'a Ave.	80,135	77,703	73,944

^{1/} Includes Kapiolani on- and off-ramps.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.19-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1987 TO 1992

[Average speeds, in miles per hour. Years ended September 30]

Year	Statewide	Urban interstate	Rural	
			Arterials ^{1/}	Major collectors
1987	55.0	58.4	51.3	52.1
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	^{2/} 56.2	57.8	53.4	55.5

^{1/} Other than freeways and expressways.

^{2/} The corresponding U.S. average was 56.7. Hawaii ranked 36th among the 50 states.

Source: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* (annual).

Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1981 TO 1991, AND BY COUNTIES, 1991

Year	Major traffic accidents ^{1/}		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1981	16,582	136	11,999	150
1982	16,407	143	11,865	161
1983	16,372	131	11,852	139
1984	17,657	127	12,390	136
1985	19,577	118	12,613	126
1986	20,852	108	10,941	117
1987	23,618	126	11,987	138
1988	26,039	129	12,801	149
1989	26,893	127	12,834	147
1990	26,633	154	14,060	176
1991	21,826	119	12,792	135
COUNTIES: 1991				
Honolulu	16,037	51	8,548	54
Hawaii.....	3,390	38	2,298	46
Kauai	726	10	556	11
Maui.....	1,673	20	1,390	24

^{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, *Major Traffic Accidents, State of Hawaii* (annual) and records.

**Table 18.21-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1993**

[As of December 31]

Island	Taxicabs <u>1/</u>	Bicycles and mopeds <u>2/</u>
Hawaii.....	97	6,039
Maui.....	178	3,424
Lanai.....	-	67
Molokai.....	4	106
Oahu.....	1,683	100,572
Kauai.....	-	<u>3/ 1,834</u>

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 18.22-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1993

[Average rates 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

Source: Information provided by listed companies.

**Table 18.23-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS
(SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1987**

Subject	State total ^{1/}		Counties (SIC 751)			
	SIC 751	SIC 7514	Hono- lulu	Hawaii	Kauai	Maui
No. of establishments.....	101	77	48	19	11	23
Receipts (mil. dol.).....	243.3	231.1	134.5	23.5	23.9	61.4

^{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, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), tables 1a, 4a, 7, and 8a.

**Table 18.24-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES:
JULY 1992**

County	Passenger carriers ^{1/}			Property carriers ^{2/}	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	501	2,856	61,140	2,741	14,647
Hawaii.....	37	233	6,377	523	2,954
Maui.....	73	497	10,824	380	1,953
Honolulu	367	1,903	38,788	1,652	8,696
Kauai	24	223	5,151	186	1,044

^{1/} Includes mostly tour bus operators; excludes public transit (such as MTL, Inc.), 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 18.25-- PUBLIC TRANSIT, FOR OAHU: 1983 TO 1993

[Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage ^{1/}	Total passengers ^{2/}	Revenues (dollars)
1983	395	16,654,568	75,051,618	18,157,876
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

^{1/} Estimated number of revenue vehicle miles.

^{2/} Estimated number of revenue passengers, including senior citizens and handicapped.

Source: City and County of Honolulu, Honolulu Public Transit Authority.

Table 18.26-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1991 TO 1993

[Calendar year data for City and County of Honolulu bus system]

Fare category	1991	1992	1993
All passengers	76,540,997	78,416,523	79,343,403
Adults, full fare.....	45,539,491	46,773,053	47,953,391
Students	11,021,547	11,174,889	11,074,425
School subsidy	191,298	201,451	235,487
Stadium express.....	7,551	8,365	8,608
Senior citizens and handicapped	14,642,226	15,002,787	15,356,463
Free transfers.....	5,138,884	5,255,978	4,715,029
Average bus speed (m.p.h.).....	15.0	14.8	14.8

Source: City and County of Honolulu, Honolulu Public Transit Authority.

Table 18.27-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1994

[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 3/.....	.85	.25	20.00	7.50

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 March 23, 1994.

Source: Oahu Transit Service, Inc. (The Bus), records.

**Table 18.28-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1983 TO 1993**

[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
1983	6	171,892	1989	6	296,391
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			

Source: Lahaina, Kaanapali and Pacific Rail Road, records.

**Table 18.29-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1992**

Island	Airports <u>1/</u>				Helicopters <u>2/</u>	
	State <u>3/</u>		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
State total	7	7	6	2	-	13
Hawaii.....	2	2	1	-	-	8
Maui.....	1	1	-	1	-	-
Kahoolawe.....	-	-	-	-	-	-
Lanai.....	1	-	-	-	-	-
Molokai.....	1	1	-	-	-	-
Oahu.....	1	2	3	-	-	1
Kauai.....	1	1	1	1	-	2
Niihau.....	-	-	-	-	-	2
Kure Atoll.....	-	-	1	-	-	-

1/ Excludes private airports (not available).

2/ Excludes military and private helicopters (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 18.30-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN
OPERATIONS AND ENPLANED PASSENGERS: 1990 AND 1991**

Subject	Rank <u>1/</u>		Number	
	1990	1991	1990	1991
Total aircraft operations.....	17	16	407,093	403,570
Air carrier operations	22	21	194,455	196,047
Total enplaned passengers <u>2/</u>	15	15	9,002,217	8,772,316

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: *FAA Statistical Handbook of Aviation* (annual).

**Table 18.31-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1983 TO 1993**

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	Hilo International Airport ^{1/}	Keahole Airport	Kahului Airport	Lihue Airport	Molokai Airport
1983	333,038	54,470	66,581	124,288	71,739	54,882
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

^{1/} Formerly General Lyman Field; new name became effective July 1, 1989.
Source follows next table.

**Table 18.32-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT
MAJOR STATE-OWNED AIRPORTS: 1993**

[An FAA directive dated December 8, 1987, requires all aircraft with 60 seats or less to be designated as air taxi, 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 ...	358,505	185,959	53,742	96,504	22,300
Hilo International	92,297	20,779	34,886	23,999	12,633
Kahului	172,265	51,648	77,212	37,097	6,308
Lihue.....	70,910	20,139	33,751	7,053	9,967
Keahole	59,904	25,353	10,697	18,326	5,528
Molokai	39,057	100	26,512	9,465	2,980

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.33-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1989 TO 1992

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines and other air taxi service]

Service	1989	1990	1991	1992
All carriers.....	44	43	43	45
Transpacific only	27	26	25	25
Domestic	12	11	10	9
Foreign	15	15	15	16
Transpacific and interisland.....	5	4	5	5
Interisland only	12	13	13	15
Passenger carriers	8	9	9	9
Cargo and mail only.....	4	4	4	6

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.34-- CIVIL FLYING: 1988 TO 1991

Item	1988	1989	1990	1991
Aircraft facilities, Dec. 31.....	54	53	50	48
Airports	35	34	34	33
Heliports.....	19	19	16	15
Public aircraft facilities, Dec. 31	18	17	16	17
Paved and lighted facilities, Dec. 31	12	12	12	12
Large aircraft in operation, Dec.	51	51	52	56
Aloha Airlines	12	13	17	19
Hawaiian Airlines	31	31	35	29
Mid Pacific Airlines.....	8	7	-	8
General aviation: <u>1/</u>				
Active civil aircraft, Dec.....	600	519	561	484
Hours flown (1,000)	426	290	278	259
Active personnel, Dec. 31:				
Pilots, except instructors.....	3,598	3,814	3,505	3,339
Flight instructors	293	284	309	350
Nonpilot airmen <u>2/</u>	3,008	3,185	3,306	3,492

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1991, 27.9 percent for aircraft and 34.1 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 18.35-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR ARRIVING FLIGHTS: 1989 TO 1993

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

Source: Hawaii Visitors Bureau, records.

Table 18.36-- OVERSEAS AND INTER-ISLAND AIR PASSENGER MOVEMENTS: 1983 TO 1993

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Overseas passengers ^{1/}			Inter-island passenger arrivals
	Arrivals	Departures	Through	
1983	4,760,459	4,714,389	777,490	7,037,687
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

^{1/} Includes West Coast, Canada, Europe, and the Central and South Pacific.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.37-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1993

Airport	Passengers <u>1/</u>		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total.....	6,907,236	6,924,571	153,651	127,758	26,162	56,485
Honolulu	6,147,034	6,102,968	141,643	117,274	26,162	56,485
Hilo	86	86	-	-	-	-
Kahului	610,124	666,067	5,581	7,004	-	-
Keahole	145,980	150,796	6,269	3,300	-	-
Lihue.....	4,012	4,654	158	180	-	-
INTERISLAND						
Total.....	9,345,320	9,345,320	73,527	73,527	13,203	13,203
Honolulu	4,251,863	4,261,404	46,928	24,749	8,163	5,014
Hilo	785,043	802,227	15,044	10,322	1,164	1,983
Upolu	-	-	-	-	-	-
Waimea- Kohala	1,128	1,205	1	2	-	-
Keahole	952,901	929,385	4,062	7,934	1,009	1,659
Kahului	2,044,021	2,037,827	4,999	17,738	1,937	2,878
Hana.....	8,987	8,854	-	2	-	-
Kapalua	156,712	150,651	190	504	1	1
Molokai.....	139,012	141,032	149	382	85	14
Kalaupapa	6,878	6,431	-	10	-	-
Lanai.....	71,220	71,375	33	468	23	3
Lihue.....	911,993	918,968	2,121	11,416	821	1,651
Princeville <u>2/</u>	15,562	15,961	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,298,684, passing through Honolulu International Airport).

2/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.38-- AIR CARGO AND AIRMAIL: 1983 TO 1993

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
1983	174,582	136,354	23,620	28,288	109,828	16,024
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

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.39-- HELICOPTER TOURS: 1977 TO 1993

Subject	1977	1982	1987	1990	1991	1992	1993
Companies	9	14	36	37	33	31	27
Aircraft	15	26	71	78	90	91	87

Source: Hawaii Helicopter Operators Association, records.

Table 18.40-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: JANUARY 1993

[Data for the 643 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination	Flights during week		
	Total	Final destination	Intermediate point
Tokyo.....	84	63	21
Nagoya.....	17	17	-
Osaka.....	20	20	-
Taipei.....	12	7	5
Seoul.....	28	21	7
Singapore.....	5	5	-
Hong Kong.....	-	-	-
Manila.....	20	20	-
Sydney.....	45	36	9
Auckland.....	38	24	14
Melbourne.....	9	2	7
Guam.....	21	18	3
Vancouver.....	30	30	-
Toronto.....	8	8	-
Detroit.....	21	21	-
Seattle.....	21	14	7
Portland.....	7	7	-
San Francisco.....	80	58	22
Los Angeles.....	149	99	50
Denver.....	3	-	3
Dallas/Fort Worth.....	28	21	7
Chicago.....	42	35	7
Atlanta.....	12	12	-
New York.....	-	-	-
All others.....	155	102	53

Source: Greeters of Hawaii, *Jiffisked* [tm] January 1993. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 18.41-- STATE COMMERCIAL HARBORS: 1992

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	496
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	10	123
Oahu:							
Honolulu:							
Main	} 45	{ 40	3,300	1,520	} 28,007	1,733	8,461
Kapalama			3,400	1,000			
Barbers Point			2,100	1,800			
Barbers Point	42	38	2,100	1,800	1,600	-	1,280
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,291	66	498
Port Allen.....	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, December 24, 1992.

**Table 18.42--SMALL CRAFT MOORING FACILITIES CAPACITY,
BY ISLANDS: 1993**

Island	State-operated <u>1/</u>				Non-State <u>2/</u>	
	Catwalks and piers		Other moorage		Slips	Other moorage <u>3/</u>
	Total	Vacant	Total	Vacant		
State total	1,695	61	510	49	2,948	1,512
Hawaii.....	251	4	120	3	-	200
Maui	46	1	144	5	-	50
Lanai	27	4	2	0	-	-
Molokai.....	2	0	27	7	-	-
Oahu	1,287	38	181	17	2,948	1,211
Kauai.....	82	14	36	17	-	51

1/ As of December 31, 1993. At that time, 2,088 vessels were moored (1,634 at catwalks and piers, 454 at other moorage), and valid applications on file numbered 2,224.

2/ As of December 31, 1993. Totals for 20 organizations controlling moorage.

3/ Includes moorings (82), ramps (16), and dry storage (1,414).

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 18.43-- 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	2 ₂ / 25	3 ₃ / 913	4 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 18.44-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1993**

Subject	Number	Subject	Number
Certificates outstanding	13,832	Type of vessel:	
Length:		Cabin motorboat	2,223
Under 16 feet.....	5,509	Open motorboat.....	5,139
16 to less than 26 feet.....	6,835	Runabout	2,775
26 to less than 40 feet.....	1,309	Sail/inboard.....	533
40 to 65 feet.....	166	Sail/outboard.....	527
Over 65 feet.....	13	Sail only	900
Median (feet).....	18.1	Motor vessel over 65 feet.....	8
Hull material:		Other	1,727
Wood	959	Uses:	
Fiberglass.....	10,964	Pleasure.....	12,175
Metal.....	569	Commercial fishing	726
Inflatable.....	1,095	Charter fishing.....	24
Other	245	Commercial passenger	238
Propulsion:		Other commercial.....	74
Inboard	5,114	Livery	230
Outboard	3,957	Dealer or manufacturer.....	21
Inboard/outboard	2,056	Youth group	49
Sail/inboard.....	533	Government.....	241
Sail/outboard	527	Other	54
Sail only.....	800	Island kept:	
Manual.....	288	Hawaii	1,994
Other	557	Kauai.....	1,473
Type of storage:		Lanai	53
On water.....	2,336	Maui	1,345
On land.....	11,496	Molokai.....	166
		Oahu	8,801

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

Table 18.45-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1988 TO 1993

Category	1988	1989	1990	1991	1992	1993
Documented <u>1/</u>	1,380	1,600	1,700	1,775	(NA)	(NA)
Numbered <u>2/</u>	14,250	13,501	14,081	13,592	13,973	13,832

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 Transportation, *Report of Undocumented Vessel Registration* (annual).

Table 18.46-- BOATING ACCIDENTS: 1988 TO 1993

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non fatally		
1988	31	4	5	11	41	209.6
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

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 Accidents Statistics (Reportable) 1989 to 1991*; Hawaii State Department of Land and Natural Resources, *Recreational Boating Accident Statistics 1991 through 1993*.

Table 18.47-- HARBOR DEPTHS AND VESSEL ARRIVALS, BY DRAFT: 1989

[Excludes domestic fishing craft]

Harbor	Controlling depth (feet)		Inbound vessels, by draft		
	Entrance channel	Basin	Total	18 feet and less	19 feet and more
Hilo .....	...	34	1,445	1,278	167
Kawaihae.....	42	36	800	792	8
Kahului .....	...	34	1,766	1,630	136
Kaunakakai.....	...	...	738	738	-
Kalaupapa .....	...	...	8	8	-
Honolulu	45	40	<u>1/</u> 7,104	6,415	689
Barbers Point.....	42	37	558	475	83
Nawiliwili.....	41	34	1,079	966	113
Port Allen.....	...	...	100	(NA)	(NA)

NA Not available.

1/ By type of vessel: self propelled, 4,195 (1,133 passenger and dry cargo, 70 tanker, 2,992 towboat or tugboat); non-self propelled, 2,909 (2,335 dry cargo, 574 tanker).

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1989*, Part 4 (1991), pp. 30-36 and 111-112.

**Table 18.48-- SHIP ARRIVALS AT THE PORT OF HONOLULU:
1982 TO 1992**

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1982	1,943	9,604,985	2,496	2,598,632
1983	1,775	10,406,544	2,662	2,623,321
1984	1,686	10,397,905	2,660	3,649,085
1985	1,749	9,398,179	2,412	4,480,660
1986	1,825	9,450,373	2,697	4,913,219
1987	2,080	9,974,948	2,848	5,200,667
1988	2,014	10,548,893	3,172	(NA)
1989	2,024	11,219,662	3,101	(NA)
1990	2,159	11,752,880	3,212	(NA)
1991	2,066	13,862,771	3,190	(NA)
1992	2,104	14,802,598	3,207	(NA)

NA Not available.

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.49-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND
DEPARTURES, FOR HONOLULU HARBOR: 1987 TO 1992**

[Fiscal years ended June 30]

Type of passenger	1987	1988	1989	1990	1991	1992
Overseas:						
In.....	8,681	5,815	15,993	9,770	17,503	15,730
Out.....	8,103	5,350	16,716	9,084	17,812	15,766
Interisland:						
In.....	71,049	77,731	78,710	67,199	67,409	72,493
Out.....	69,337	71,804	78,711	67,199	67,409	72,493

Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 18.50-- OVERSEAS AND INTERISLAND SHIPPING: 1987 TO 1989

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1987	12,379,815	9,767,966	2,611,849	10,358,749	5,071,134	5,287,615
1988	13,140,832	11,019,824	2,121,008	10,844,603	5,267,754	5,576,849
1989	12,139,988	10,411,122	1,728,866	11,483,387	5,653,950	5,829,437

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual) and printouts, as tabulated by the Hawaii State Department of Transportation, Harbors Division.

Table 18.51-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1985 TO 1989

Harbor	1985	1986	1987	1988	1989
FREIGHT 1/ (SHORT TONS)					
Hilo	1,318,518	1,198,692	1,365,768	1,455,589	1,569,142
Kawaihae.....	526,639	592,018	871,202	654,600	732,392
Kahului	1,516,509	1,626,650	2,035,247	2,156,631	2,278,516
Honolulu	7,986,133	8,603,760	9,736,688	10,654,845	10,360,134
Barbers Point.....	6,751,709	5,629,312	7,135,064	7,511,140	7,374,418
Nawiliwili.....	933,477	745,396	916,422	875,753	1,038,452
PASSENGERS 2/					
Hilo	-	-	-	-	9,082
Kahului	-	-	-	-	9,083
Honolulu	1,102,398	708,268	154,082	825,377	626,671
Nawiliwili.....	-	-	-	-	9,082

1/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

2/ Total arrivals and departures for transpacific, interisland, and local travel.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1989*, Part 4 (1991), pp. 30-37.

Table 18.52-- SUMMARY STATISTICS FOR TRANSPORTATION SERVICES ESTABLISHMENTS: 1987 AND 1991

[Includes only establishments with payroll]

1987 SIC code	Kind of business	No. of establishments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees, Mar. 12
1987					
42	Motor freight transportation, warehousing	215	192,336	66,389	3,734
44	Water transportation	58	147,349	44,168	1,547
47	Transportation services	550	241,602	83,405	5,755
1991					
42	Trucking and warehousing	268	(NA)	104,937	4,320
44	Water transportation	56	(NA)	(D)	(D)
47	Transportation services	597	(NA)	163,792	7,581

D Withheld to avoid disclosure.

NA Not available.

Source: U.S. Bureau of the Census, *1987 Census of Transportation*, TC87-S-1 (July 1991), table 1, and *County Business Patterns 1991, Hawaii*, CBP-91-13 (December 1993), table 1a.

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 6 (on land use), 12 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,500 farms in Hawaii in 1992, with a total area of 1.7 million acres. The value of crop sales in 1992 was \$435 million, or about 1.5 percent more than the total for 1982. Livestock sales amounted to \$88 million, or 12.6 percent more than the 1982 level. Combined crop and livestock sales in 1992 ranged from \$49 million in Kauai County to \$169 million on the Big Island. Major crops were sugar (\$154 million in sales, down 33 percent over the decade), pineapple (\$102 million, or 8 percent over the 1982 total), flowers and nursery products (\$70 million, or 128 percent more than in 1982), and macadamia nuts (\$33 million, up 20 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from \$104 million in 1982 to \$179 million in 1992, or 73 percent. About 686 farms sold \$70 million of flowers and nursery products in 1992, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1992 included cattle and calves (\$29 million in sales), milk (\$32 million), and eggs (\$16 million). In 1992, Hawaii produced 32 percent of the fresh market vegetables consumed locally, 46 percent of the fresh market fruits, 19 percent of the beef and veal, 14 percent of the pork, and 88 percent of the eggs.

Aquaculture aggregate value rose from \$11,000 in 1970 to \$9.2 million in 1990 and declined to \$7 million in 1992. Shellfish production amounted to 445,000 pounds in 1992, with a value of \$2.2 million.

Statistics on Hawaiian agriculture exclude marijuana and other illicit plants. Authorities confiscated or destroyed marijuana with a potential street value of almost \$1 billion in 1993, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the *United States Census of Agriculture*, most recently published for 1987, the annual report on *Statistics of Hawaiian Agriculture* issued by the Hawaii Agricultural Statistics Service, and data compiled by the Hawaiian Sugar Planters' Association and the Aquaculture Development Program of the 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: 1993*.

Table 19.1-- FARMS, LAND IN FARMS, AND SELECTED ITEMS: 1987 AND 1982

Item	All farms		Farms with sales of \$10,000 or more	
	1987	1982	1987	1982
Farms.....number ...	4,870	4,595	2,049	1,775
Land in farms acres ...	1,721,521	1,957,501	1,634,955	1,858,568
Average size of farm acres ...	353	426	798	1,047
Value of land and buildings:				
Average per farm dollars ...	603,435	778,471	1,096,618	1,693,553
Average per acre dollars ...	1,707	1,826	1,374	1,617
Estimated market value of all machinery and equipment:				
Average per farm dollars ...	41,208	41,735	85,275	94,031
Farms by size:				
1 to 9 acres	2,855	2,743	976	820
10 to 49 acres	1,401	1,261	734	629
50 to 179 acres	341	320	151	145
180 to 499 acres	128	126	62	64
500 to 999 acres	31	33	21	21
1,000 acres or more.....	114	112	105	96
Total cropland farms ...	4,170	3,836	1,814	1,536
..... acres ...	327,396	346,113	299,180	324,830
Harvested cropland farms ...	3,837	3,538	1,758	1,485
..... acres ...	152,719	155,960	145,422	149,843
Irrigated land farms ...	1,827	1,544	975	777
..... acres ...	148,884	145,982	146,907	143,986
Market value of agricultural products				
sold \$1,000...	609,740	558,608	600,637	549,601
Average per farm dollars ...	125,203	121,569	293,137	309,635
Crops, including nursery and greenhouse crops \$1,000...	498,317	456,069	491,320	449,457
Livestock, poultry, and their products \$1,000...	111,424	102,539	109,317	100,144
Farms by value of sales:				
Less than \$2,500	1,402	1,454	-	-
\$2,500 to \$4,999	674	706	-	-
\$5,000 to \$9,999	745	653	-	-
\$10,000 to \$24,999	911	788	911	788
\$25,000 to \$49,999	476	397	476	397
\$50,000 to \$99,999	287	237	287	237
\$100,000 or more.....	375	353	375	353

Continued on next page.

**Table 19.1-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1982 -- Con.**

Item	All farms		Farms with sales of \$10,000 or more	
	1987	1982	1987	1982
Operators by principal occupation:				
Farming.....	2,816	2,565	1,557	1,352
Other.....	2,054	2,030	492	423
Operators by days worked off farm:				
Any.....	2,728	2,534	909	722
200 days or more.....	1,476	1,371	470	375
Average age of operator..... years ...	53.0	52.7	51.1	51.5
Total farm production				
expenses..... \$1,000....	495,759	(NA)	482,975	(NA)
Average per farm..... dollars ...	101,840	(NA)	235,828	(NA)
Selected farm production expenses:				
Livestock and poultry				
purchased..... \$1,000....	15,230	17,581	14,646	17,032
Feed for livestock and				
poultry..... \$1,000....	42,629	41,548	42,095	40,889
Interest expense..... \$1,000....	22,930	17,771	21,407	16,665
Petroleum products..... \$1,000....	17,197	19,864	16,065	18,759
Livestock and poultry:				
Cattle and calves inventory..... farms ...				
number ...	1,003	1,040	259	268
Beef cows..... farms ...	211,045	241,969	193,062	219,651
number ...	724	784	198	208
Milk cows..... farms ...	83,427	90,523	76,126	81,629
number ...	73	88	27	38
Cattle and calves sold..... farms ...	11,836	12,767	11,736	12,662
number ...	807	817	225	241
Hogs and pigs inventory..... farms ...	101,315	91,675	96,239	86,603
number ...	372	371	136	132
Hogs and pigs sold..... farms ...	47,564	49,029	42,784	42,683
number ...	307	319	127	126
Sheep and lambs	69,019	66,875	64,618	61,919
inventory..... farms ...	42	34	11	8
number ...	(D)	(D)	(D)	(D)
Chicken 3 months old or				
older inventory..... farms ...	181	201	56	58
number ...	(D)	929,210	(D)	921,810
Broilers and other meat-type				
chickens sold..... farms ...	12	23	8	15
number ...	2,069,316	3,173,500	2,069,219	3,172,382

Continued on next page.

**Table 19.1-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1982 -- Con.**

Item	All farms		Farms with sales of \$10,000 or more	
	1987	1982	1987	1982
Selected crops harvested:				
Sugarcane for sugar				
farms ...	79	188	62	157
acres ...	79,234	89,696	79,140	(D)
tons....	7,934,181	8,950,242	7,929,989	8,941,044
Pineapples harvested				
farms ...	18	15	12	14
acres ...	22,262	23,141	22,254	(D)
tons....	683,182	626,860	683,086	(D)
Vegetables harvested				
for sale				
farms ...	710	746	428	366
acres ...	5,587	4,673	5,165	4,133
Land in orchards				
farms ...	2,128	1,825	796	612
acres ...	33,564	23,178	27,525	18,656
Macadamia nuts.....				
farms ...	1,036	879	377	307
acres ...	23,233	15,472	20,284	13,960
pounds	44,464,884	35,594,548	42,380,242	34,258,992
Nursery and greenhouse				
crops				
farms ...	1,139	1,050	573	467
sales, \$1,000....	56,527	35,973	(D)	34,062

(D) Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1987 Census of Agriculture, Advance State Report, Hawaii*, AC87-A-15-000(A) (May 1989), and *Geographic Area Series, Hawaii, State and County Data*, AC87-A-11 (August 1989).

Table 19.2-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT: 1970 TO 1992

Year	Number of farms <u>1/</u>	Farm acreage <u>2/</u> (1,000)	Farm employment <u>3/</u>		
			Self-employed farm operators	Unpaid family members	Hired workers
1970	4,500	2,300	3,200	1,450	12,450
1971	4,400	2,300	3,050	1,500	11,810
1972	4,300	2,300	3,050	1,550	11,220
1973	4,300	2,300	3,050	1,550	10,770
1974	3,800	2,200	3,040	1,660	10,180
1975	3,900	2,150	3,060	1,720	11,040
1976	4,000	2,100	2,890	1,560	11,240
1977	4,100	2,050	2,840	1,550	11,300
1978	4,300	1,980	2,890	1,810	11,600
1979	4,300	1,980	3,020	1,520	10,800
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	4,600	1,710	2,500	1,000	9,600
1991	4,500	1,710	3,100	1,100	9,600
1992	4,500	1,710	3,100	1,300	9,500

1/ Based on farm definition of \$600 or more of agricultural sales prior to 1974 and \$1,000 or more thereafter.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

3/ Annual averages through 1980, and varying dates thereafter.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records.

Table 19.3-- VALUE OF CROP AND LIVESTOCK SALES: 1970 TO 1992

[\$1,000]

Year	All crops and livestock	Crops				Live-stock
		All crops	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	
1970	213,950	172,302	110,600	39,500	22,202	41,648
1971	221,829	178,776	115,800	40,300	22,676	43,053
1972	232,760	186,518	117,300	43,900	25,318	46,242
1973	266,161	210,892	141,900	39,600	29,392	55,269
1974	575,432	517,523	442,300	40,259	34,964	57,909
1975	377,575	319,304	237,000	41,616	40,688	58,271
1976	327,820	265,498	164,700	52,983	47,815	62,322
1977	325,182	260,164	144,200	62,249	53,715	65,018
1978	380,655	308,098	182,700	63,090	62,308	72,557
1979	441,253	362,789	217,600	69,409	75,780	78,464
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 ^{1/}	552,082	464,839	174,900	107,775	182,164	87,243
1992	523,163	434,869	153,700	102,100	179,069	88,294

^{1/} Revised from *Data Book 1992*, table 563.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records.

Table 19.4-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1982, 1991, AND 1992

County or island	Number of farms <u>1/</u>	Farm acreage (1,000) <u>2/</u>	Farm employment <u>3/</u>		
			Self-employed farm operators	Unpaid family members	Hired workers
State total:					
1982	4,500	1,960	2,600	1,300	13,000
1991	4,500	1,710	3,100	1,100	9,600
1992	4,500	1,710	3,100	1,300	9,500
Hawaii County:					
1982.....	2,600	1,145	1,700	800	3,950
1991.....	2,600	1,005	1,915	640	3,640
1992.....	2,600	1,005	1,840	740	3,740
Maui County:					
1982.....	525	420	400	100	4,200
1991.....	600	355	350	140	2,540
1992.....	600	355	390	130	2,300
Oahu:					
1982.....	1,000	125	700	150	3,050
1991.....	900	125	625	290	2,300
1992.....	900	125	630	330	2,350
Kauai County:					
1982.....	375	275	150	50	1,550
1991.....	400	225	215	75	1,140
1992.....	400	225	210	100	1,090

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.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.5-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1982, 1991, AND 1992

[\$1,000]

County and year	All crops and livestock	Crops				Live-stock
		All crops	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	
State total:						
1982	507,268	428,860	230,800	94,364	103,696	78,408
1991	552,082	464,839	174,900	107,775	182,164	87,243
1992	523,163	434,869	153,700	102,100	179,069	88,294
Hawaii County:						
1982.....	176,021	152,244	86,900	-	65,344	23,777
1991.....	179,733	149,026	43,600	-	105,426	30,707
1992.....	168,864	140,670	38,200	-	102,470	28,194
Maui County:						
1982.....	118,774	107,416	55,000	38,602	13,814	11,358
1991.....	142,376	132,510	57,900	45,700	28,910	9,866
1992.....	152,768	141,058	55,600	56,659	28,799	11,710
Oahu:						
1982.....	151,995	113,446	37,900	55,762	19,784	38,549
1991.....	171,378	129,602	30,600	62,075	36,927	41,776
1992.....	152,679	109,161	27,300	45,430	36,431	43,518
Kauai County:						
1982.....	60,478	55,754	51,000	(Z)	4,754	4,724
1991.....	58,595	53,701	42,800	(Z)	10,901	4,894
1992.....	48,852	43,980	32,600	(Z)	11,380	4,872

Z Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual and records).

Table 19.6-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1982, 1991, 1992

Subject	1982	1991	1992
Acreage in crop (1,000 acres):			
Sugarcane	204.8	155.6	145.7
Pineapples (land used for pineapple)	36.0	28.4	26.2
Vegetables and melons (harvested acreage)	4.1	5.2	5.1
Fruits, excluding pineapples	5.6	6.9	6.8
Coffee	2.0	<u>1/</u> 2.3	<u>1/</u> 2.7
Macadamia nuts	15.0	22.5	20.5
Miscellaneous crops	11.3	5.5	5.2
Number of crop farms:			
Sugar	285	55	55
Pineapples	18	10	<u>3/</u> 21
Vegetables and melons	620	490	535
Fruits (excluding pineapples)	700	800	830
Coffee	620	<u>1/</u> 615	<u>1/</u> 600
Macadamia nuts	550	690	660
Taro	127	180	175
Flowers and nursery products	650	735	686
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	8,808	5,857	5,430
Pineapples, fresh equivalent (1,000 tons)	670	555	550
Vegetables and melons (1,000 lb.)	72,740	91,740	81,080
Fruits, excluding pineapples (1,000 lb.)	70,820	83,990	98,930
Coffee, parchment (1,000 lb.)	990	<u>1/</u> 2,300	<u>1/</u> 2,000
Macadamia nuts, in shell (1,000 lb.)	36,720	49,500	48,000
Taro (1,000 lb.)	6,460	6,500	6,900
Value of crop sales (\$1,000):			
Sugar (unprocessed cane)	230,800	174,900	153,700
Pineapples (fresh equivalent)	94,364	107,775	102,100
Vegetables and melons	23,024	38,693	36,451
Fruits (excluding pineapples)	14,834	24,330	22,418
Coffee (parchment)	2,129	<u>1/</u> 4,600	<u>1/</u> 4,100
Macadamia nuts (in shell)	27,136	34,650	32,640
Taro	1,447	2,795	3,002
Field crops (not estimated separately)	4,376	<u>2/</u> 8,740	<u>2/</u> 10,412
Flowers and nursery products	30,600	68,078	69,796

1/ Excludes Kauai.

2/ Includes Kauai coffee value.

3/ Includes specialty pineapple.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.7-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1992

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	47.3	42.2	22.5	33.7
Pineapples (land used for pineapple)	(1/)	14.1	12.1	(1/)
Vegetables and melons (harvested acreage)	1.6	2.6	0.9	(1/)
Fruits, excluding pineapples	5.5	0.1	0.5	0.7
Coffee	(D)	(D)	-	-
Macadamia nuts	(D)	(D)	(D)	(D)
Miscellaneous crops	1.9	1.9	0.6	0.8
Number of crop farms:				
Sugar	45	2	3	5
Pineapples	13	3	2	3
Vegetables and melons	295	110	110	20
Fruits (excluding pineapples)	600	55	125	50
Coffee	(D)	(D)	(D)	-
Macadamia nuts	640	9	3	8
Taro	100	20	5	50
Flowers and nursery products	314	104	224	44
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	1,674	1,715	932	1,109
Pineapples, fresh equivalent (1,000 tons) ..	(2/)	306	244	(2/)
Vegetables and melons (1,000 lb.)	30,940	38,260	11,570	310
Fruits, excluding pineapples (1,000 lb.)	87,330	740	4,030	6,830
Coffee, parchment (1,000 lb.)	(D)	(D)	(D)	-
Macadamia nuts, in shell (1,000 lb.)	(D)	(D)	(D)	(D)
Taro (1,000 lb.)	1,610	(D)	(D)	4,250
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	38,200	55,600	27,300	32,600
Pineapples (fresh equivalent)	(3/)	56,659	45,430	(3/)
Vegetables and melons	13,765	13,558	8,952	176
Fruits (excluding pineapples)	18,702	413	1,834	1,469
Coffee (parchment)	(D)	(D)	(D)	-
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	689	(D)	(D)	1,870
Flowers and nursery products	34,764	8,245	24,752	2,035

D Withheld to avoid disclosure of individual operations.

1/ Less than 50 acres.

2/ Less than 500 tons.

3/ Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture 1992*.

**Table 19.8-- VEGETABLES, MELONS, FRUITS, NUTS, COFFEE, AND TARO:
1992**

[Data shown for crops with sales in excess of \$1,000,000]

Crop	Acreage harvested ^{1/}	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Vegetables and melons:					
Chinese cabbage	420	18.3	7,700	23.8	1,833
Head cabbage	600	22.5	13,500	21.0	2,835
Cucumbers	250	14.0	3,500	49.0	1,715
Lettuce (head, semi-head) .	240	10.0	2,400	45.0	1,080
Dry onions	125	9.4	1,170	111.0	1,299
Green onions	200	7.5	1,500	98.0	1,470
Green peppers	200	14.0	2,800	57.0	1,596
Tomatoes	240	20.0	4,800	62.0	2,976
Watermelons	640	12.5	8,000	16.0	1,280
Watercress	35	...	1,200	110.0	1,320
Fruits:					
Bananas	870	13.8	12,000	41.0	4,920
Guavas	765	...	13,260	14.3	1,896
Papayas	2,415	29.5	77,300	20.2	14,415
Macadamia nuts (1992-1993) .	17,500	2.7	53,000	61.6	32,640
Coffee (1992-1993) ^{2/}	1,600	1.2	2,000	205.0	4,100
Taro	900	...	6,900	43.5	3,002

^{1/} Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

^{2/} Excludes Kauai.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture 1992*.

**Table 19.9-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1972 TO 1992**

Year	Total cane land	Irrigated cane land		Unirrigated cane land
		Drip	Furrow or overhead	
1972	229,611	327	119,704	109,580
1973	226,580	2,544	116,136	107,900
1974	224,227	5,662	112,919	105,646
1975	221,426	12,719	103,998	104,709
1976	221,551	21,250	98,797	101,504
1977	220,729	30,042	91,368	99,319
1978	220,697	39,167	80,207	101,323
1979	218,773	49,202	70,936	98,635
1980	217,718	60,241	58,966	98,511
1981	216,099	69,665	48,493	97,941
1982	204,749	73,551	41,896	89,302
1983	194,258	80,019	33,459	80,780
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

Source: Hawaiian Sugar Planters' Association, records; Alexander & Baldwin, Inc., "Water to the Roots," *Ampersand*, Spring 1987, pp. 3-6.

**Table 19.10-- 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 <u>1/</u>	26,347	24,924	20,190
Other islands <u>2/</u>	60,063	55,497	62,988
Hawaii <u>2/</u>	26,853	26,407	29,643
Maui <u>2/</u>	15,565	14,249	15,409
Molokai <u>2/</u>	17,457	14,603	17,866
Kauai <u>2/</u>	188	238	70
From U.S. Mainland <u>2/</u>	198,149	211,082	213,981
From foreign countries <u>2/</u>	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.

**19.11-- GOVERNMENT PAYMENTS FOR AGRICULTURE:
1982 TO 1992**

[1,000]

Year	Amount	Year	Amount	Year	Amount
1982	586	1986.....	2,810	1990	657
1983	6,775	1987.....	344	1991	730
1984	2,675	1988.....	465	1992	734
1985	1,184	1989.....	396		

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

**Table 19.12-- LIVESTOCK INVENTORY, 1982 TO 1992, AND BY
GEOGRAPHIC AREAS, 1992**

[In thousands]

Year and geographic area	All cattle and calves <u>1/</u>	Milk cows <u>1/</u>	Hogs and pigs <u>2/</u>	Chickens (excluding broilers) <u>2/</u>	Bee colonies
1982	230	12	49	1,148	8
1983	226	12	48	1,140	9
1984	221	12	47	1,195	9
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	214	11	36	1,183	10
1991	200	10	34	1,213	10
1992	178	11	35	1,109	9
GEOGRAPHIC AREAS: 1992					
Hawaii County	117.0	1.7	2.7	(D)	(NA)
Maui.....	26.0	0.9	9.9	(D)	(NA)
Molokai and Lanai	8.5	-	(<u>3/</u>)	(D)	(NA)
Oahu.....	15.5	7.7	20.1	915	(NA)
Kauai County.....	11.0	0.5	2.3	(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 19.13-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1982, 1991, AND 1992

Subject	1982	1991 ^{1/}	1992
Number of livestock operations, Dec. 31:			
Cattle ^{2/}	1,000	900	900
Hogs	650	450	450
Milk	90	80	80
Eggs	55	55	55
Broilers	10	8	(<i>Z/</i>)
Honey	8	13	14
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) ^{3/}	28,527	27,328	21,429
Pork (dressed weight; 1,000 lb.)	6,032	6,059	5,994
Milk (million lb.)	106.4	138.8	141.9
Eggs (million)	202.2	224.5	222.4
Broilers and chickens (1,000 lb.) ^{4/}	8,571	5,545	(<i>Z/</i>)
Honey (1,000 lb.)	920	1,310	1,242
Value of livestock sales (\$1,000):			
Cattle ^{5/}	27,619	29,787	29,235
Hogs ^{5/}	8,465	6,463	6,521
Milk	21,908	30,328	32,495
Eggs	14,542	15,996	15,846
Broilers and chickens	5,073	3,214	(<i>Z/</i>)
Other ^{6/}	634	1,295	4,197

^{1/} Revised from *Data Book 1992*, table 573.

^{2/} Includes beef, dairy, and dairy replacement farms.

^{3/} Includes slaughter cattle, but excludes calves shipped out-of-State.

^{4/} Ready-to-cook weight.

^{5/} Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

^{6/} Includes sheep, wool, turkeys, horses, honey, and beeswax.

^{7/} Not published to avoid disclosure.

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, BY GEOGRAPHIC AREAS: 1992

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle <u>1/</u>	460	210	70	160
Hogs	70	80	230	70
Milk	41	7	20	12
Eggs	25	7	19	4
Broilers	(D)	(D)	(D)	(D)
Honey	10	2	0	2
Volume of livestock marketings:				
Beef <u>2/</u> (dressed weight; 1,000 lb.).....	14,350	5,082	928	1,070
Pork (dressed weight; 1,000 lb.).....	491	1,470	3,260	773
Milk (million lb.).....	(D)	(D)	103.2	(D)
Eggs (million).....	(D)	(D)	180.7	(D)
Broilers and chickens <u>3/</u> (1,000 lb.).....	(D)	(D)	(D)	(D)
Honey (1,000 lb.).....	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):				
Cattle <u>4/</u>	21,578	5,596	835	1,226
Hogs <u>4/</u>	534	1,597	3,478	912
Milk	(D)	(D)	23,891	(D)
Eggs	(D)	(D)	12,597	(D)
Broilers and chickens	(D)	(D)	(D)	(D)
Other <u>5/</u>	6,082	4,517	2,717	2,734

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

5/ Includes sheep, wool, turkeys, horses, honey, and beeswax.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture 1992*.

**Table 19.15-- FLORICULTURE AND NURSERY PRODUCTS, 1990 TO 1992,
AND BY ISLANDS, 1992**

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:							
1990	710	2,364	3,950	24,775	35	1,670	70,393
1991	735	2,555	4,145	27,665	35	1,790	68,078
1992	686	2,495	3,880	22,025	11	1,890	69,796
Islands, 1992:							
Hawaii	314	1,458	2,815	16,665	11	1,000	34,764
Kauai	44	113	25	340	-	105	2,035
Maui/Molokai	104	461	275	650	-	440	8,245
Oahu	224	463	765	4,370	0	345	24,752

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary* (Aug. 13, 1993), pp. 10 and 13.

Table 19.16-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1988 TO 1992

[\$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

Type	1988	1989	1990	1991	1992
Total sales	33,042	37,475	37,734	40,920	32,320
Anthuriums, cut	8,816	9,280	11,185	10,595	8,930
Foliage, potted.....	8,609	8,130	8,525	9,595	8,015
Other flowers, nursery products.....	15,617	20,065	18,024	20,730	15,375

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers and Nursery Products, Annual Summary* (Aug. 13, 1993), p. 15.

**Table 19.17-- FLORICULTURE AND NURSERY PRODUCTS,
BY COMMODITY: 1992**

[Shown for commodities with value of sales over \$700,000
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	69	1,000 dozens	828	6,360
Ginger, red	63	1,000 dozens	124	711
Heliconias.....	56	1,000 dozens	146	880
Proteas.....	23	1,000 stems	1,183	710
Roses, Tea.....	12	1,000 dozens	745	3,829
Orchids:				
Sprays: Dendrobium	58	1,000 dozens	423	3,147
Potted: Dendrobiums	55	1,000 pots	635	3,471
Lei or individual flowers:				
Carnations.....	15	Million blooms	16.5	853
Vanda, Miss Joaquim.....	15	Million blooms	27.9	797
Dendrobiums.....	41	Million blooms	42.0	1,119
Foliage:				
Potted, primarily for--				
Indoor or patio use	80	...	(NA)	13,209
Landscape use.....	63	...	(NA)	3,449
Unfinished stock (for further growing on)	25	...	(NA)	886
Potted flowering plants:				
Chrysanthemums.....	(D)	1,000 pots	(D)	(D)
Poinsettias.....	25	1,000 pots	225	848
Ornamentals and trees.....	44	...	(NA)	3,341
Plant rentals	42	...	(NA)	3,985

NA Not available.

D Withheld to avoid disclosure of individual operations.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary* (Aug. 13, 1993), pp. 3-9.

**Table 19.18-- MARKET SUPPLY OF SPECIFIED FOODS:
1982, 1991, AND 1992**

Commodity and year	Total market supply ^{1/}			Per capita market supply ^{2/}	Percent from Hawaii
	Total	Inship-ment	Hawaii		
Fresh market fruits:					
1982.....	99,628	77,763	21,865	91.9	22.0
1991.....	173,659	90,018	83,641	135.9	48.2
1992.....	191,211	102,863	88,348	147.0	46.2
Fresh market vegetables:					
1982.....	185,568	117,366	68,202	171.1	36.8
1991.....	229,435	153,130	76,305	179.6	33.3
1992.....	229,178	156,938	72,240	176.2	31.5
Beef and veal: ^{3/}					
1982.....	97,030	67,982	29,048	89.5	29.9
1991.....	114,320	86,992	27,328	89.5	23.9
1992.....	115,131	93,702	21,429	88.5	18.6
Pork: ^{3/}					
1982.....	34,976	26,419	8,557	32.2	24.5
1991.....	42,934	36,875	6,059	33.6	14.1
1992.....	43,538	37,544	5,994	33.5	13.8
Chickens:					
1982.....	34,928	26,357	8,571	32.2	24.5
1991.....	49,304	43,759	5,545	38.6	11.3
1992.....	50,849	(4/)	(4/)	-	-
Eggs:					
1982.....	22,250	5,400	16,850	20.5	75.7
1991.....	21,153	2,445	18,708	16.6	88.4
1992.....	21,067	2,534	18,533	16.2	88.0

^{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 in table 4.

^{3/} Carcass weight equivalent.

^{4/} Not published to avoid disclosure.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.19-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER AND LIME: 1978 TO 1987

Chemicals used	1978	1982	1987
Any chemicals, fertilizer, or lime used..... farms	3,568	3,532	4,105
Commercial fertilizer..... farms	3,172	3,158	3,524
acres on which used	284,452	228,982	225,457
\$1,000	26,530	33,477	30,717
Lime..... farms	525	525	825
acres on which used	12,488	9,547	21,544
tons	12,011	10,423	23,220
Agricultural chemicals ^{1/} farms	3,277	3,084	3,881
\$1,000	13,700	16,417	18,233
Sprays, dusts, granules, fumigants, etc., to control --			
Insects on hay and other crops..... farms	1,204	1,702	2,008
acres on which used	28,787	45,671	68,150
Nematodes in crops..... farms	441	654	663
acres on which used	9,806	9,638	15,792
Diseases in crops and orchards..... farms	912	1,067	1,151
acres on which used	12,310	18,085	(D)
Weeds, grass, or brush in crops and pasture... farms	2,325	2,385	2,887
acres on which used	269,801	213,551	235,871
Chemicals used for defoliation or for growth control of crops or thinning of fruit..... farms	160	165	212
acres on which used	57,280	50,455	57,481

D Withheld to avoid disclosing data for individual farms.

^{1/} Data after 1978 exclude the cost of lime.

Source: U.S. Bureau of the Census, *1987 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, AC87-A-11 (August 1989), table 15, p. 19.

Table 19.20-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 1992

Year	Number of operations, Dec. 31		Acreage, Dec. 31	Production (1,000 lb.)	Value (\$1,000)
	Total	Prawn producers			
1970	2	1	193	20	11
1971	2	1	193	17	17
1972	2	1	193	18	23
1973	3	2	203	34	34
1974	4	3	213	41	136
1975	10	3	234	82	178
1976	14	6	235	94	210
1977	25	13	246	123	281
1978	25	16	320	178	525
1979	23	19	493	246	1,531
1980	37	24	575	320	1,655
1981	41	21	547	338	1,868
1982	44	22	643	551	2,625
1983	42	21	496	345	1,605
1984	47	17	474	441	2,300
1985	48	20	465	583	2,780
1986	44	20	444	1,015	3,549
1987	45	14	437	1,689	6,263
1988	44	12	477	1,170	5,560
1989	46	10	479	1,264	6,835
1990	53	10	489	1,452	9,241
1991	71	12	595	1,207	6,884
1992	83	14	615	1,272	7,134

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

**Table 19.21-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION,
AND VALUE, BY COUNTIES: 1992**

Subject	State total	Hawaii	Maui	Honolulu	Kauai
Number of operations.....	83	23	9	36	15
Prawn producers.....	14	2	-	10	2
Acreage (Dec. 31).....	615	92	16	481	26
Production (1,000 lb.).....	1,271.6	617.4	62.5	587.7	4.0
Shellfish.....	444.7	61.0	38.5	343.2	2.0
Finfish.....	266.1	157.0	19.0	88.1	2.0
Algae.....	560.8	399.4	5.0	156.4	(NA)
Other ^{1/}	(NA)	(NA)	(NA)	(NA)	(NA)
Value (\$1,000).....	7,133.6	3,968.3	243.1	2,902.2	20.0
Shellfish.....	2,193.4	492.0	188.6	1,500.8	12.0
Finfish.....	1,075.4	583.5	46.0	437.9	8.0
Algae.....	3,259.8	2,892.8	8.5	358.5	(NA)
Other ^{1/}	605.0	(NA)	(NA)	605.0	(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

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest reserves, commercial fishing and fish populations, and mining and mineral products.

The most recent available statistics show 1.7 million acres of forest and 700,000 acres of timberland in the State, most of it on the Big Island. Over 46,000 acres had been planted in eucalyptus and other species of trees by mid-1992. Recent surveys of vegetation on three islands show ohia lehua to be the most common type of tree on Oahu and Kauai (with acreages of 38,000 and 109,000, respectively) and kiawe the leading type (at 33,000 acres) on Molokai. Forest and brushland fires burned 19 square miles in fiscal 1992.

The commercial fish catch in fiscal year 1993 amounted to 25 million pounds, with a value of \$60 million to primary producers. *Ahi* (yellowfin and bigeye tuna) and *aku* (skipjack) accounted for 45 percent of the total value. Other important species are swordfish, marlin, spiny lobster, *opakapaka*, *mahimahi*, *akule*, and *ono*. Commercial fishermen numbered 3,836. Among Marine Life Conservation Districts, those with the most fish per acre were Honolua Bay (6,775), Molokini Shoal (5,522), and Hanauma Bay (4,208).

The value of mineral production reached \$135 million in 1993, almost all of it in cement (\$45 million) and crushed stone (\$89 million).

Important sources of data on these subjects are the United States Census of Mineral Industries and reports and records of the U.S. Bureau of Mines and Hawaii State Department of Land and Natural Resources, Aquatic Resources Division and Forestry and Wildlife Division. *Historical Statistics of Hawaii*, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the *Statistical Abstract of the United States: 1993*, Sections 24 and 25.

Table 20.1-- FOREST AND NATURAL AREA ACREAGE: JUNE 30, 1992

Island	Conservation district forest land		Planted forest		Natural areas ^{3/}	
	Forest reserve land ^{1/}	Private forest land ^{2/}	Planted in preceding year	Total standing	Number of areas	Acres
State total	643,134	327,845	79	46,060	21	122,703
Hawaii	438,416	106,745	36	17,124	9	86,135
Maui	73,227	53,180	35	11,872	4	17,123
Kahoolawe	-	-	-	-	-	-
Lanai	-	6,150	-	512	-	-
Molokai	16,030	-	-	3,219	2	2,950
Oahu	32,462	87,920	1	7,098	3	1,770
Kauai	82,999	73,850	7	6,235	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 20.2-- WOODLAND ON FARMS, 1978 TO 1987, AND BY COUNTIES, 1987

[Acres]

Use	1978	1982	1987				
			State total	Hawaii	Maui	Honolulu	Kauai
Total	145,802	117,270	99,135	75,331	14,024	7,085	2,695
Pastured	40,242	36,550	27,517	22,973	992	2,797	755
Not pastured	105,560	80,720	71,618	52,358	13,032	4,288	1,940

Source: U.S. Bureau of the Census, *1987 Census of Agriculture, Hawaii AC87-A-11* (August 1989), pp. 15 and 36.

Table 20.3-- LAND AREA, BY VEGETATION TYPE AND FOREST RESERVE STATUS, FOR MOLOKAI, OAHU, AND KAUAI: 1986

[In acres. Excludes land in forest plantations]

Vegetation type	Molokai		Oahu		Kauai	
	Total	Forest reserve	Total	Forest reserve	Total	Forest reserve
Total, all types...	163,214	44,288	370,002	34,931	347,088	88,127
Tree type:						
Ohia lehua.....	32,833	30,161	37,563	9,524	109,040	50,702
Koa.....	-	-	28,548	6,601	13,438	6,223
Kukui.....	4,773	4,009	2,775	617	7,634	2,029
Kiawe.....	33,215	-	17,354	241	10,358	116
Eucalyptus.....	1,527	954	1,131	411	3,157	1,288
Guava.....	5,918	4,200	10,287	1,421	12,143	3,099
Other trees.....	2,673	573	36,700	6,776	32,763	6,043
Shrub type.....	16,417	1,527	33,974	2,965	36,061	7,189
Forb type.....	191	-	11,338	2,718	4,120	2,043
Grassland.....	38,751	764	45,102	3,261	34,168	5,198
Cultivated land.....	18,325	-	55,770	-	64,741	387
No vegetation.....	3,819	-	822	-	6,709	3,810
Urban and other.....	4,772	2,100	88,638	396	12,756	-

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, multi-resource inventory reports.

**Table 20.4-- FOREST AND BRUSSLAND FIRES, 1990 TO 1992,
AND BY COUNTIES, 1992**

[Years ended June 30]

Subject	1990	1991	1992, by counties				
			State total	Hawaii	Maui	Honolulu	Kauai
Number of fires	210	205	199	96	60	41	2
Acres burned	3,384	38,352	11,851	10,206	1,168	475	2

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

Table 20.5-- COMMERCIAL FISHING: 1988 TO 1993

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch ^{1/}		
		Pounds landed	Pounds sold	Value to primary producers (dollars)
1988	3,155	11,052,502	10,592,287	20,541,580
1989	3,491	13,493,866	13,010,973	28,003,055
1990	3,551	15,370,302	14,836,135	35,984,313
1991	4,043	22,264,343	21,380,976	53,412,797
1992	3,800	23,567,168	22,750,156	55,365,194
1993	3,836	24,955,038	24,313,713	60,373,716

^{1/} Represents the total catches of all licensed commercial fishers. Includes both sea and pond catches, but excludes coral harvests. Particularly for 1979-1988, data may be incomplete due to unreported aku (skipjack tuna) and longline boat catches.

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 20.6-- COMMERCIAL FISH CATCH, BY SPECIES: 1992

[Year ended June 30, 1992]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	23,567,168	22,750,156	55,365,194
Sea catch, all species.....	23,541,084	22,724,248	55,309,735
Tunas	9,198,135	8,922,952	21,593,601
Aku (Skipjack).....	2,467,690	2,344,694	3,175,332
Ahipalaha.....	700,812	692,886	830,579
Bigeye (ahi).....	2,764,162	2,741,154	10,576,677
Yellowfin (ahi)	3,239,558	3,124,138	6,973,412
Billfishes	9,792,356	9,545,734	24,284,777
Blue marlin.....	1,233,388	1,117,203	1,011,235
Striped marlin.....	1,027,735	1,004,837	1,319,064
Swordfish.....	7,320,460	7,224,162	21,739,160
Miscellaneous pelagic species.....	1,889,352	1,788,552	3,396,538
Mahimahi	1,060,425	995,262	1,762,286
Ono	428,871	396,907	1,054,915
Deep bottom fishes	768,134	728,151	2,582,442
Opakapaka	263,991	258,108	1,057,396
Uku	133,338	129,061	404,000
Ulaula.....	123,210	120,465	613,029
Akule/opelu	1,167,719	1,101,445	1,740,106
Akule	763,458	715,437	1,133,198
Opelu	404,261	386,008	606,908
Jacks.....	129,726	116,759	184,714
Inshore fishes.....	301,261	278,591	510,298
Sharks.....	145,483	108,188	100,970
Lobsters	39,318	38,617	547,228
Spiny lobster	33,196	32,518	487,536
Crabs.....	58,728	53,895	229,251
Shrimps.....	3,603	3,603	12,807
Coral.....	1,480	1,410	28,200
Seaweeds	8,083	6,899	22,768
Miscellaneous	5,452	5,259	7,039
Pond landings, all species.....	26,084	25,908	55,459

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Year 1991-1992*.

Table 20.7-- COMMERCIAL FISH CATCH, BY SPECIES: 1993

[Year ended June 30, 1993]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	24,955,038	24,313,713	60,373,716
Sea catch, all species	24,930,632	24,289,689	60,322,021
Tunas	9,687,016	9,470,536	22,436,341
Aku (Skipjack)	1,756,759	1,663,497	2,477,258
Ahipalaha	878,427	869,583	989,345
Bigeye (ahi)	3,590,994	3,576,865	11,901,648
Yellowfin (ahi)	3,413,565	3,319,127	6,931,724
Billfishes	10,762,038	10,647,280	28,172,670
Blue marlin	708,343	650,512	631,367
Striped marlin	1,254,016	1,224,751	1,447,439
Swordfish	8,636,063	8,615,826	25,935,348
Miscellaneous pelagic species	1,925,601	1,818,016	3,099,205
Mahimahi	993,400	928,274	1,640,231
Ono	439,898	401,867	945,180
Deep bottom fishes	624,750	598,698	2,191,037
Opakapaka	230,468	225,294	973,729
Uku	113,140	109,471	354,516
Ulaula	72,904	71,650	401,663
Akule/opelu	1,128,278	1,053,643	1,618,111
Akule	803,018	736,841	1,124,481
Opelu	325,260	316,802	493,630
Jacks	123,627	112,599	195,311
Inshore fishes	286,784	259,635	503,457
Sharks	115,176	88,511	80,666
Lobsters	154,905	131,059	1,566,651
Spiny lobster	111,422	91,681	1,227,858
Slipper lobster	43,483	39,378	338,793
Crabs	45,976	42,114	180,632
Shrimps	35,631	35,631	169,726
Coral	1,013	918	18,360
Seaweeds	8,501	7,067	25,951
Miscellaneous	3,774	3,603	2,781
Pond landings, all species	24,406	24,024	51,695

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Year 1992-1993*.

Table 20.8-- COMMERCIAL SEA LANDINGS, BY ISLANDS: 1992 AND 1993

[Years ended June 30]

Island	Pounds landed	Pounds sold	Value (dollars)
1992			
State total	23,541,084	22,724,248	55,309,735
Hawaii.....	3,570,920	3,404,622	5,666,977
Maui.....	760,903	622,424	1,417,223
Lanai.....	34,789	27,524	67,010
Molokai.....	58,590	42,922	112,343
Oahu.....	18,295,734	17,948,603	46,398,528
Kauai and Niihau.....	820,148	678,153	1,647,654
1993			
State total	24,930,632	24,289,689	60,322,021
Hawaii.....	3,666,169	3,516,948	6,002,218
Maui.....	435,115	342,106	894,581
Lanai.....	26,825	23,399	56,630
Molokai.....	52,001	41,660	94,066
Oahu.....	20,232,589	19,926,382	52,272,031
Kauai and Niihau.....	517,933	439,194	1,002,495

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii*-for fiscal years 1991-1992 and 1992-1993.

**Table 20.9-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD: 1992
AND 1993**

[Years ended June 30]

Fishing method	Pounds landed	Pounds sold	Value (dollars)
1992			
All methods.....	23,541,084	22,724,248	55,309,735
Aku pole and line.....	2,017,976	2,008,644	2,683,529
Longline.....	14,114,193	13,951,021	38,981,571
Handline.....	3,244,064	3,097,496	6,772,650
Trolling.....	2,973,116	2,542,115	4,497,004
Net.....	983,699	941,506	1,440,719
Trap.....	81,684	80,184	642,017
All other methods.....	126,352	103,282	292,245
1993			
All methods.....	24,930,632	24,289,689	60,322,021
Aku pole and line.....	1,453,461	1,443,408	2,119,505
Longline.....	16,444,614	16,361,765	44,144,401
Handline.....	3,379,117	3,296,646	6,960,446
Trolling.....	2,314,538	1,967,293	3,665,847
Net.....	999,984	929,195	1,359,011
Trap.....	227,500	203,551	1,831,157
All other methods.....	111,418	87,831	241,654

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Year 1990-1991*.

**Table 20.10-- FISH POPULATIONS AROUND SELECTED SHORELINE
AREAS: YEAR ENDED JUNE 30, 1993**

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu:			
Outer bay	89	3,224	473
Inner bay	70	4,208	2,928
Pupukea, Oahu	77	1,484	148
Waikiki, Oahu	46	1,786	913
Molokini Shoal, Maui	100	5,522	528
Honolua Bay, Maui	64	6,775	1,852
Manele-Hulopoe Bays, Lanai	99	2,754	500
Lapakahi, Hawaii	44	2,124	515
Old Kona Airport, Hawaii	35	3,220	236
Artificial reefs:			
Maunalua Bay, Oahu (tire modules)	(NA)	(NA)	606
Waianae, Oahu (tire modules)	(NA)	(NA)	47
Keawakapu, Maui	(NA)	5,675	787
Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	63	1,913	235
Puako Bay and Reef, Hawaii	(NA)	2,898	401
Keahu O Lu	53	6,559	813

NA Not available.
Source follows next table.

Table 20.11-- MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED LOCATIONS: YEAR ENDED JUNE 30, 1993

[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 (inshore), Oahu:				
Manini (<i>Acanthurus triostegus</i>).....	1	955	6	94
Mamo (<i>Abudefduf abdominalis</i>)	2	540	(1/)	(NA)
Nenuue (<i>Kyphosus</i> sp.).....	3	257	2	444
Awa awa (<i>Elops hawaiiensis</i>)	(1/)	(NA)	1	1,145
Pualu (<i>Acanthurus xanthopterus</i>).....	(1/)	(NA)	3	270
Waikiki MLCD, Oahu:				
Manini (<i>Acanthurus triostegus</i>).....	1	357	2	43
Saddle-back wrasse (<i>Thalassoma duperrey</i>).....	2	261	6	20
Kala (<i>Naso unicornis</i>)	3	177	1	622
Maiii (<i>Acanthurus nigrofuscus</i>)	5	157	3	41
Mane-le-Hulopoe MLCD, Lanai:				
Blackfin damsel (<i>Chromis vanderbilti</i>)	1	452	(1/)	(NA)
Maiii (<i>Acanthurus nigrofuscus</i>)	2	365	6	24
Kole (<i>Ctenochaetus strigosus</i>)	3	240	(1/)	(NA)
Clown tang (<i>Naso lituratus</i>)	9	109	1	117
Bullethead parrot (<i>Scarus sordidus</i>).....	10	89	2	48
Achilles tang (<i>Acanthurus achilles</i>).....	7	129	3	34
Old Kona Airport MLCD:				
Blackfin damsel (<i>Chromis vanderbilti</i>)	1	780	(1/)	(NA)
Chocolate dip damsel (<i>Chromis hanui</i>)	2	639	4	18
Kole (<i>Ctenochaetus strigosus</i>)	3	515	3	19
Nae Nae (<i>Acanthurus olivaceus</i>).....	10	65	1	111
Yellow tang (<i>Zebrasoma flarescens</i>).....	4	272	2	20

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, 1992 to June 30, 1993.*

Table 20.12 MINERAL INDUSTRIES: 1958 TO 1987

[Excluding mines at manufactures]

Subject	1958	1963	1967	1972	1977	1982	1987
Number of establishments ^{1/}	20	44	12	15	7	12	9
With 20 employees or more.....	8	4	3	5	2	4	4
All employees:							
Number (1,000) .....	.4	.3	.2	.3	.1	.2	.2
Payroll (million dollars).....	1.7	1.7	1.6	2.4	1.9	3.8	7.4
Production, development, and ex- ploration workers:							
Number (1,000) .....	.4	.2	.2	.2	.1	.1	.2
Hours (millions).....	.7	.6	.4	.4	.2	.2	.4
Wages (million dollars)	1.4	1.5	1.3	1.8	1.5	2.6	5.7
Value added by mining (million dollars).....	4.6	4.9	5.0	9.0	8.1	9.7	23.5
Cost of supplies used, purchased machinery installed, etc. (million dollars).....	2.0	2.1	2.3	4.1	2.9	5.9	10.4
Value of shipments and receipts (million dollars).....	5.8	6.5	5.5	11.0	9.7	12.8	31.1
Capital expenditures (million dollars).....	.7	.5	1.8	2.0	1.3	2.7	2.8

^{1/} After 1963, data for single-unit establishments without paid employees were excluded from the census of mineral industries. In 1987, seven of the nine establishments reported, including three of the four with 20 employees or more, were in SIC 142, crushed and broken stone, including riprap.

Source: U.S. Bureau of the Census, *1982 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC82-a-9 (April 1985), tables 1 and 2a, and *1987 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC87-A-9 (October 1990), Hawaii table 1.

Table 20.13-- NONFUEL MINERAL PRODUCTION: 1991 TO 1993

[Estimated production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Minerals	1991	1992 ^{1/}	1993 ^{2/}
QUANTITY (1,000 SHORT TONS)			
Cement:			
Masonry	10	8	8
Portland	547	573	474
Gem stones	(NA)	(NA)	(NA)
Sand and gravel (construction)	400	(W)	-
Stone (crushed) ^{3/}	10,486	10,500	10,200
VALUE (\$1,000)			
Total ^{3/}	141,112	148,857	134,583
Cement:			
Masonry	600	1,421	664
Portland	47,589	53,936	44,619
Gem stones	60	(W)	(W)
Sand and gravel (construction)	2,300	(W)	-
Stone (crushed) ^{3/}	90,563	93,500	89,300

W Withheld to avoid disclosing company proprietary data.

NA Not available.

^{1/} Revised.

^{2/} Preliminary.

^{3/} Excludes certain stores, to avoid disclosing data for individual firms.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii 1993," *Mineral Industry Surveys* (1994).

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).

There were 24,700 building permits issued in 1993, with an estimated value of \$1.8 billion. The total included \$808 million for new private residential construction, and \$449 million for private nonresidential structures. The value in 1992 of government construction contracts awarded was \$1.2 billion. Construction put in place, as indicated by the contracting tax base, totaled \$3.8 billion in 1993. The value of land conveyed in 1992 was \$7.9 billion. The construction cost index for Honolulu in 1992 had doubled since 1978.

The number of housing units in the State increased from 334,000 in 1980 to 390,000 in 1990 and 408,000 in 1992. Owner occupied units numbered 137,000 in 1980 and 171,000 in 1992; the latter total included 25,000 on leased land. Condominium units, first authorized in 1961, numbered 81,000 by 1990, and cooperative units, first built in 1956, totaled 2,800. Government-owned housing, mostly military and low-rent, accounted for 28,000 units as of 1992. Housing has been in short supply; at the time of the 1990 census, the homeowner vacancy rate was 0.8 percent, and the rental vacancy rate was 5.4 percent. The median selling price of single-family homes on Oahu during 1993, based on Multiple Listing Service data, was \$358,500; for condominium units it was \$193,000. The median gross monthly rent for Oahu rose from \$271 in 1980 to \$599 in 1990, and the median value of owner occupied single-family units increased from \$118,100 to \$245,300.

The principal sources for these data are the 1990 U.S. Census of Housing, 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. Mainland statistics appear in Section 26 of *Statistical Abstract of the United States: 1993*.

**Table 21.1-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES:
1983 TO 1993**

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1983	19,733	13,018	2,649	2,165	1,901
1984	20,582	14,404	2,834	1,437	1,907
1985	23,332	16,011	2,933	1,544	2,844
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	24,692	17,277	4,145	<u>1/</u> 1,063	2,207
ESTIMATED VALUE (\$1,000)					
1983	767,305	410,763	95,979	142,859	117,704
1984	710,661	473,943	102,805	74,076	59,837
1985	990,879	619,689	132,735	59,522	178,933
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	1,775,692	1,249,882	248,236	<u>1/</u> 74,397	203,177

1/ First 10 months only.

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 21.2-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES:
1988 TO 1993**

[Thousands of dollars. Limited to private construction, including additions, alterations,
and repairs]

Category	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1988 (revised)					
Total.....	1,546,474	743,057	181,228	213,679	408,508
Residential.....	689,178	314,421	127,283	83,615	163,860
Hotel	244,200	-	-	75,890	168,310
Non-residential	296,999	187,219	33,194	29,044	47,543
Additions and alterations	316,097	241,418	20,751	25,131	28,796
1989 (revised)					
Total.....	1,882,397	1,047,747	338,060	178,689	317,902
Residential.....	910,675	402,591	208,969	103,746	195,368
Hotel	87,174	-	39,528	-	47,646
Non-residential	474,654	350,183	58,446	23,739	42,285
Additions and alterations	409,895	294,973	31,116	51,203	32,604
1990 (revised)					
Total.....	2,101,767	998,921	429,964	238,968	433,916
Residential.....	952,282	342,644	260,189	160,250	189,200
Hotel	169,168	65,630	67,027	2,800	33,711
Non-residential	528,842	272,968	72,017	25,994	157,864
Additions and alterations	451,475	317,679	30,729	49,925	53,142
1991 (revised)					
Total.....	2,151,849	1,462,676	369,454	118,547	201,174
Residential.....	1,191,987	721,693	296,525	65,482	108,288
Hotel	157,532	152,300	1,047	-	4,185
Non-residential	398,661	281,396	39,338	35,694	42,233
Additions and alterations	403,667	307,287	32,543	17,370	46,467

Continued on next page.

**Table 21.2-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES:
1988 TO 1993 -- Con.**

Category	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1992 <u>1/</u>					
Total.....	1,728,507	1,060,700	379,158	87,733	200,916
Residential.....	792,565	486,663	154,590	57,356	93,956
Hotel	113,230	-	113,230	-	-
Non-residential	416,246	267,761	70,486	21,723	56,277
Additions and alterations	406,464	306,277	40,851	8,654	50,682
1993 <u>2/</u>					
Total.....	1,775,692	1,249,882	248,236	74,397	203,177
Residential.....	807,639	512,347	155,523	51,578	88,191
Hotel	13	13	-	-	-
Non-residential	448,736	348,103	43,786	10,606	46,241
Additions and alterations	519,306	389,420	48,928	12,213	68,745

1/ Excludes Kauai County data from September-December 1992 which were not available.

2/ Excludes Kauai County data from November-December.

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 21.3-- GENERAL EXCISE TAX BASE FOR CONTRACTING:
1983 TO 1993**

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

<u>Year 1/</u>	Amount	<u>Year 1/</u>	Amount	<u>Year 1/</u>	Amount
1983	1,353,405	1987	2,003,056	1991	4,334,051
1984	1,242,929	1988	2,487,571	1992	4,012,688
1985	1,367,733	1989	3,112,846	1993	3,803,605
1986	1,808,024	1990	4,003,650		

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.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

**Table 21.4-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY
AWARDING AGENCY AND LOCATION OF CONSTRUCTION: 1989 TO 1992**

[In thousands of dollars. By date of publication. Data before 1992 have been revised]

Awarding agency and location	1989	1990	1991	1992
Total.....	729,390	800,975	668,090	1,151,337
Awarding agency:				
Federal agencies.....	135,055	101,007	140,471	123,853
State agencies.....	400,445	549,883	381,842	763,503
City and County of Honolulu.....	146,609	110,179	81,952	202,355
Other counties.....	47,281	39,906	63,826	61,626
Location of construction:				
City and County of Honolulu.....	582,922	539,871	519,402	906,022
County of Hawaii.....	26,862	54,804	48,941	84,828
County of Kauai.....	47,811	50,763	39,603	59,169
County of Maui.....	71,794	155,537	60,145	101,316

Source: Compiled by Hawaii State Department of Business and Economic Development from Trade Publishing Company, *BID Service Weekly*.

Table 21.5-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1972 TO 1987

[Excludes establishments without payroll]

Subject	1972	1977	1982	1987
Number of establishments in business during year	1,570	1,732	1,861	1,891
Proprietors and working partners	590	530	396	456
All employees	25,012	20,792	18,665	21,706
Construction workers, average.....	20,163	15,784	13,953	16,582
Other employees, March	4,949	5,032	4,711	4,861
Payroll (\$1,000,000)	282.6	323.4	409.7	606.9
Value of business done (\$1,000,000)...	1,085.5	1,435.2	1,853.3	2,963.1
Value added (\$1,000,000)	477.5	636.2	855.2	1,288.7

Source: U.S. Bureau of the Census, *1987 Census of Construction Industries, Pacific States, CC87-A-9* (July 1990), Hawaii table 4.

Table 21.6-- GENERAL STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS, BY GEOGRAPHIC AREA: 1987

[Excludes establishments without payroll]

Subject	State total	Oahu	Other islands
Number of establishments in business during year	1,891	1,284	607
All employees, average	21,706	17,851	3,855
Payroll, all employees (mil. dol.)	606.9	525.2	81.7
Value of construction work (mil. dol.)	2,849.8	2,441.6	408.2
Net value of construction work (mil. dol.)	1,958.3	1,647.9	310.4
Value added (mil. dol.)	1,288.7	1,082.9	205.9
Cost of materials, components, supplies, and fuels (mil. dol.)	759.0	635.3	123.7
Cost of construction work subcontracted to others (mil. dol.)	891.5	793.7	97.8
Capital expend. other than land (mil. dol.)	44.6	36.1	8.4

Source: U.S. Bureau of the Census, *1987 Census of Construction Industries, Pacific States, CC87-A-9* (July 1990), Hawaii tables 3 and 12.

**Table 21.7-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION
AUTHORIZED BY PERMITS, BY COUNTIES: 1987 TO 1992**

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1987.....	5,813	2,684	3,129	1,391	543	1,195
1988.....	6,067	2,001	4,066	1,715	692	1,659
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
New duplex units:						
1987.....	182	124	58	50	6	2
1988.....	205	172	33	28	5	-
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
New apartments:						
1987.....	1,671	785	886	314	-	572
1988.....	2,802	1,377	1,425	446	21	958
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
Units demolished: ^{1/}						
1987.....	825	741	84	40	2	42
1988.....	753	629	124	57	9	58
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

^{1/} 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 21.8-- HONOLULU CONSTRUCTION COST INDEXES: 1971 TO 1993

[January 1992=100. Data are annual averages unless otherwise specified. Reindexed in 1992. Separate data for materials prices and labor costs not available before 1983]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor <u>1/</u>	All components	Materials prices	Labor <u>1/</u>
1971	26.9	...	...	25.4	...	...
1972	29.0	...	...	27.2	...	...
1973	33.2	...	...	29.5	...	...
1974	35.3	...	...	33.3	...	...
1975	37.7	...	...	36.4	...	...
1976	41.5	...	...	40.5	...	...
1977	47.4	...	...	45.1	...	...
1978	52.1	...	...	49.1	...	...
1979	57.0	...	...	53.7	...	...
1980	60.7	...	...	59.0	...	...
1981	62.4	...	...	62.7	...	...
1982	65.3	...	...	67.1	...	...
1983	71.5	73.8	68.8	71.7	76.0	68.2
1984	74.6	75.0	74.3	74.4	76.4	73.0
1985	76.6	76.4	77.0	76.2	76.9	75.6
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 (June)	114.1	119.3	107.9	101.9	99.4	104.0

1/ Wages and benefits.

Source: First Hawaiian Bank, Research Department, records.

Table 21.9-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1987 TO 1991

Subject	1987	1988	1989	1990	1991
Projects	94	104	153	201	204
Residential units	2,289	2,060	2,575	4,301	2,695

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 1991

Subject	1963-1985	1986	1987	1988	1989	1990	1991
Projects	308	36	35	34	47	80	102
Housing units.....	12,094	151	398	99	150	545	333

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-- LEASEHOLD CONDOMINIUMS, COOPS, CLUSTERS, AND P.U.D.s, BY SCHEDULED RENEGOTIATION AND TERMINATION DATES, FOR OAHU: 1992

[Excludes 7,812 units already converted to fee simple ownership and 3,086 units in 23 Bishop Estate and Campbell Estate projects recently opened to conversion. Including these recent and potential conversions, leasehold condo and similar projects on Oahu number 491, with 54,470 units]

Years	Renegotiation		Years	Termination	
	Projects	Units		Projects	Units
Total.....	468	43,572	Total	468	43,572
Before 1992.....	8	310	Through 2010.....	10	306
1992-1995	40	1,740	2011-2020	46	2,670
1996-2000	80	5,887	2021-2030	112	8,627
2001-2005	114	8,983	2031-2040	173	15,942
2006-2010	115	10,690	2041-2050	100	11,834
After 2010.....	111	15,962	After 2050.....	27	4,193

Source: Honolulu Board of Realtors, Research Department, *Leasehold Condominiums, Coops, Clusters & PUDs on Oahu* (January 29, 1992).

Table 21.12-- TIME SHARE PROPERTIES AND UNITS, BY GEOGRAPHIC AREAS: FEBRUARY 7, 1994

[Time sharing refers to the use, occupancy, or possession of accommodations among various persons for less than 60 days in any year, for any occupant]

Subject	State total	Oahu		Hawaii	Kauai	Maui	Molokai
		Waikiki	Other Oahu				
Properties	79	17	3	9	20	29	1
Units	4,163	1,642	182	225	1,220	877	17

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Time Sharing Office, records.

**Table 21.13-- TENURE AND CONTROL OF HOUSING UNITS: ANNUALLY,
1980 TO 1993**

[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	(NA)	152,147	20,393	(NA)	(NA)	(NA)

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.

^{4/} As of April 1.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1992* (Statistical Report 225, August 1992).

**Table 21.14-- TENURE AND CONTROL OF HOUSING, BY COUNTIES:
1990, 1991, AND 1992**

[Some condominium units occupied by nonresidents are included in these estimates]

Year and county	All housing units <u>1/</u>	Owner occupied units <u>2/</u>		Renter occupied and vacant units		
		Land owned	Land leased	Pri- vate <u>3/</u>	Feder- al <u>1/</u>	State and County <u>1/</u>
1990						
State total	389,810	138,520	29,047	195,601	19,245	7,397
City & Co. of Hon.....	281,683	96,304	26,498	134,257	19,123	5,501
County of Hawaii	48,253	20,475	1,277	25,310	48	1,143
County of Kauai.....	17,613	7,705	357	9,161	65	325
County of Maui <u>4/</u>	42,261	14,036	915	26,873	9	428
1991						
State total	398,325	141,846	26,915	202,266	19,358	7,940
City & Co. of Hon.....	284,835	98,271	24,284	137,162	19,279	5,839
County of Hawaii	50,579	21,101	1,287	27,027	8	1,156
County of Kauai.....	18,649	8,045	375	9,840	65	324
County of Maui <u>4/</u>	44,262	14,429	969	28,237	6	621
1992						
State total	407,606	146,631	24,599	208,226	19,697	8,453
City & Co. of Hon.....	288,805	101,036	22,046	139,771	19,618	6,334
County of Hawaii	53,421	22,169	1,167	28,909	8	1,168
County of Kauai.....	19,439	8,455	387	10,200	65	332
County of Maui <u>4/</u>	45,941	14,971	999	29,346	6	619

1/ As of April 1.

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 (114 units in 1990 and 1991 and 92 in 1992).

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1992* (Statistical Report 225, August 1992).

**Table 21.15-- RESIDENT AND NONRESIDENT HOUSING UNITS,
BY COUNTIES: ANNUALLY, 1983 TO 1993**

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
RESIDENT ^{1/}						
1983	336,583	254,402	82,181	36,495	15,038	30,648
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 (revised)	370,682	276,618	94,064	46,138	15,047	32,879
1991 (revised)	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	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
NONRESIDENT ^{2/}						
1983	13,413	4,747	8,666	1,769	1,006	5,891
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 (revised)	19,128	5,065	14,063	2,115	2,566	9,382
1991 (revised)	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

NA Not available.

^{1/} Estimated as of April 1. Includes all housing units other than condominium units in rental pools and intended for transient occupancy.

^{2/} Condominium units in rental pools and intended for transient occupancy, based on February 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, 1980-1992* (Statistical Report 225, August 1992), and Hawaii Visitors Bureau, *Visitor Plant Inventory Report* (annual).

**Table 21.16-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES:
1990**

[Data include some condominium units used or intended for use by transients]

Subject	State total 1/	Hono-lulu	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 21.16-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES:
1990 -- Con.**

Subject	State total ^{1/}	Hono- lulu	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 21.17-- SELECTED HOUSING CHARACTERISTICS, FOR THE STATE
AND OAHU: 1990**

Subject	State total	Oahu only
Total housing units	389,810	281,683
YEAR STRUCTURE BUILT		
1989 to March 1990	10,218	4,353
1985 to 1988	31,692	17,243
1980 to 1984	39,178	23,154
1970 to 1979	118,872	84,114
1960 to 1969	83,455	70,835
1950 to 1959	54,048	45,188
1940 to 1949	26,229	20,501
1939 or earlier	26,118	16,295
BEDROOMS		
No bedroom.....	27,589	21,667
1 bedroom	74,135	55,510
2 bedrooms	105,195	75,155
3 bedrooms	130,658	87,850
4 bedrooms	38,635	30,680
5 or more bedrooms	13,598	10,821
SELECTED CHARACTERISTICS		
Lacking complete plumbing facilities	4,312	1,809
Lacking complete kitchen facilities	6,218	3,661
Condominium housing units	81,127	66,264
SOURCE OF WATER		
Public system or private company	380,375	280,997
Individual drilled well.....	755	259
Individual dug well	113	36
Some other source	8,567	391
SEWAGE DISPOSAL		
Public sewer	312,812	263,552
Septic tank or cesspool	72,940	16,724
Other means.....	4,058	1,407

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**Table 21.17-- SELECTED HOUSING CHARACTERISTICS, FOR THE STATE
AND OAHU: 1990 -- Con.**

Subject	State total	Oahu only
Occupied housing units	356,267	265,304
YEAR HOUSEHOLDER MOVED INTO UNIT		
1989 to March 1990	82,540	61,267
1985 to 1988	105,675	79,715
1980 to 1984	44,821	32,358
1970 to 1979	60,549	44,549
1960 to 1969	32,697	25,873
1959 or earlier	29,985	21,542
TELEPHONE		
No telephone in unit	9,394	5,557
MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS		
Specified owner-occupied housing units	147,510	100,903
With a mortgage	102,601	73,972
Less than \$300	4,257	2,385
\$300 to \$499	13,840	8,289
\$500 to \$699	13,468	8,435
\$700 to \$999	19,258	12,778
\$1,000 to \$1,499	27,309	21,165
\$1,500 to \$1,999	14,316	12,201
\$2,000 or more	10,153	8,719
Median (dollars)	1,008	1,121
Not mortgaged	44,909	26,931
Less than \$100	5,407	1,383
\$100 to \$199	24,665	14,610
\$200 to \$299	10,804	7,900
\$300 to \$399	2,474	1,898
\$400 or more	1,559	1,140
Median (dollars)	170	185

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Table 21.17-- SELECTED HOUSING CHARACTERISTICS, FOR THE STATE AND OAHU: 1990 -- Con.

Subject	State total	Oahu only
SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989		
Specified owner-occupied housing units.....	147,510	100,903
Less than 20 percent.....	88,050	58,641
20 to 24 percent.....	16,115	11,137
25 to 29 percent.....	12,897	9,309
30 to 34 percent.....	9,154	6,808
35 percent or more.....	20,626	14,630
Not computed.....	668	378
GROSS RENT		
Specified renter-occupied housing units.....	162,820	126,739
Less than \$200.....	9,062	5,764
\$200 to \$299.....	7,502	5,276
\$300 to \$499.....	28,197	21,009
\$500 to \$749.....	43,705	35,028
\$750 to \$999.....	31,353	24,617
\$1,000 or more.....	20,923	16,568
No cash rent.....	22,078	18,477
Median (dollars).....	650	663
GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989		
Specified renter-occupied housing units.....	162,820	126,739
Less than 20 percent.....	41,635	31,305
20 to 24 percent.....	19,386	14,803
25 to 29 percent.....	17,633	13,914
30 to 34 percent.....	12,774	10,149
35 percent or more.....	47,224	36,431
Not computed.....	24,168	20,137

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 8i, table 4.

**Table 21.18-- TENURE AND VALUE OF CONDOMINIUM UNITS,
BY COUNTIES: 1990**

County	All housing units	Condominium housing units				Median value <u>2/</u> (dollars)
		Total	Owner occupied	Renter occupied	Vacant <u>1/</u>	
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 21.19-- VACANCY AND HOMEOWNERSHIP RATES, FOR THE STATE AND HONOLULU MSA: 1986 TO 1993

[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	7.1	3.9	3.1	1.3	53.2	52.4
U.S. 1993	7.4	<u>1/</u> 7.6	1.4	<u>1/</u> 1.4	64.5	<u>1/</u> 62.0

1/ Rate for all U.S. metropolitan statistical areas.

Source: U.S. Bureau of the Census, "Housing Vacancies and Homeownership Annual Statistics: 1993," *Current Housing Reports*, Series H111/93-A (May 1994), pp. 17-20 and 37-38.

Table 21.20-- HOUSING VACANCY SURVEY OF OAHU: 1989

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers]

Year and month	Total units	Vacant units				Units under construction
		Used and new		Used	New	
		Number	Percent			
All types	257,050	3,730	1.5	3,414	316	3,027
Single-family units:						
Detached	125,051	1,034	0.8	906	128	1,573
Attached	22,716	356	1.6	308	48	538
Multi-family units.....	108,934	2,340	2.1	2,200	140	916
Mobile homes.....	349	-	0	-	...	...

Source: Federal Home Loan Bank of Seattle, *Honolulu Housing Vacancy Survey, 1989*.

Table 21.21-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: ANNUAL AVERAGES, 1970 TO 1991

[Based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients]

Year	Units sampled			Percent vacant		
	State total	Oahu	Other islands	State average	Oahu	Other islands
1970 ^{1/}	6,107	3,217	2,890	3.2	3.5	3.0
1971	5,370	2,493	2,877	3.6	3.2	5.1
1972	7,177	5,423	1,754	3.9	3.5	5.4
1973	6,735	5,456	1,279	3.1	2.6	5.0
1974	6,301	4,982	1,319	4.1	3.9	4.7
1975	6,632	5,360	1,272	5.6	5.2	6.9
1976 ^{2/}	2,440	1,817	623	5.1	5.0	5.6
1977	6,899	4,526	2,373	5.9	6.1	5.1
1978	6,690	4,102	2,588	4.0	3.8	4.5
1979	5,936	3,519	2,417	3.2	2.8	4.4
1980	6,499	3,613	2,886	4.2	3.9	5.0
1981	6,174	3,195	2,979	4.8	4.4	5.8
1982	6,509	3,468	3,041	3.9	3.4	5.4
1983	6,139	3,147	2,992	3.8	3.1	5.8
1984 ^{3/}	7,238	3,827	3,411	4.0	3.1	6.5
1985	7,485	3,872	3,613	5.0	4.7	5.7
1986	7,143	3,653	3,490	4.5	4.5	4.5
1987	7,441	3,738	3,703	4.8	4.3	6.1
1988	7,330	3,625	3,705	3.2	3.0	3.7
1989	7,679	3,734	3,945	3.0	2.6	4.0
1990	7,922	3,717	4,205	3.1	2.7	4.2
1991	6,833	3,586	3,247	3.4	2.6	5.4

^{1/} Neighbor Island data based on last 9 months of 1970.

^{2/} Survey suspended during the first 6 months of 1976.

^{3/} Sample excluded housing units on military bases, included in other years.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 21.22-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN, CHANGING RESIDENCE IN PAST YEAR: 1980 TO 1990

[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:				
1980.....	122,691	89,981	13.5	11.1
1981.....	137,717	105,767	15.0	12.8
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
Household heads:				
1980.....	40,654	29,370	14.3	11.5
1981.....	48,264	36,780	16.5	14.0
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	10.4

^{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 21.23-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS:
1990**

[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 <u>1/</u>	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent <u>2/</u>	
State total	346,750	292,239	52,624	15.2	1,887
Military or dependent.....	43,889	27,275	16,392	37.3	222
Military	43,165	26,858	16,085	37.3	222
Military dependent.....	724	417	307	42.4	-
Civilian.....	302,861	264,963	36,232	12.0	1,665

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 21.24-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE
SPACE FOR HONOLULU, BY LOCATION: 1989 TO 1992**

[Rates are percent of space reported vacant in survey. No surveys were conducted in October 1990 and October 1991]

Location	Oct. 1989	May 1990	May 1991	May 1992	Oct. 1992
Downtown.....	4.2	3.1	1.8	14.2	9.2
Downtown to Waikiki	9.2	4.5	5.4	2.4	2.1
Waikiki.....	2.0	6.1	10.3	11.5	14.4
Other	3.0	8.3	7.4	7.3	9.0

Source: Semi-annual survey by Hastings, Martin, Conboy, Braig & Associates, Ltd., cited in Building Owners & Managers Association, Hawaii, *Newsletter*, (monthly).

Table 21.25-- HAWAII HOUSING AUTHORITY OPERATIONS: 1991 TO 1993

Subject	1991	1992	1993
Total units owned by HHA, June 30	5,929	6,069	<u>1/</u> 6,069
Occupied	5,794	6,040	5,783
Population in units, June 30	17,039	17,295	16,845
Per occupied unit.....	2.94	2.86	2.91
Total assets, June 30 (million dollars).....	178	215	277
Operating revenues of HHA, fiscal year: <u>2/</u>			
Gross (\$1,000)	17,003	17,428	17,728
Net (\$1,000)	-299	-353	5
Operating revenues per unit per month, fiscal year (dollars) <u>2/</u>	271.80	278.59	283.37
Rent charged per unit per month, fiscal year (dollars) <u>2/</u>	221.63	227.57	232.95

1/ Federal low-rent, 5,213; State low-rent, 542; State Elderly 314.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 21.26-- 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 21.27-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE OF LICENSE AND LOCATION: MARCH 5, 1993

[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.....	11,723	6,936	Oahu	8,497	4,841
			Hawaii	1,359	653
Broker:			Maui	1,348	507
Individual	4,028	731	Kauai	475	259
Corporation or partnership.....	1,158	64	Molokai.....	34	8
Salesman	6,537	6,141	Lanai	2	5
			U.S. mainland.....	4	613
			Foreign.....	4	50

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, March 5, 1993.

**Table 21.28-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY
TYPE OF PROPERTY, FOR OAHU: 1991 TO 1993**

Year and type of property	Number listed	Number sold	Percent sold	Sales price (dollars)	
				Mean	Median
1991					
Total	15,280	5,682	37.2	299,599	...
Residential (1-family).....	4,895	1,912	39.1	432,338	340,000
Condominium/cooperative.....	9,157	3,607	39.4	219,318	192,000
Vacant land	560	84	15.0	414,723	335,000
Multi-family	183	22	12.0	894,000	675,000
Commercial	201	29	14.4	925,379	750,000
Business opportunities	284	28	9.9	116,783	75,000
1992					
Total	13,421	5,509	41.0	292,342	...
Residential (1-family).....	4,430	1,985	44.8	411,868	349,000
Condominium/cooperative.....	7,909	3,341	42.2	211,649	193,000
Vacant land	508	104	20.5	381,550	350,000
Multi-family	152	31	20.4	727,734	662,500
Commercial	185	25	13.5	847,200	440,000
Business opportunities	237	23	9.7	105,022	70,000
1993					
Total	13,124	5,371	40.9	297,149	...
Residential (1-family).....	4,181	1,944	46.5	436,898	358,500
Condominium/cooperative.....	7,868	3,262	41.5	210,573	193,000
Vacant land	483	88	18.2	344,913	307,500
Multi-family	144	21	14.6	638,143	540,000
Commercial	174	28	16.1	437,681	250,000
Business opportunities	274	28	10.2	134,350	49,500

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.29-- MULTIPLE LISTING SERVICE UNITS SOLD, SINGLE-FAMILY RESIDENTIAL AND CONDOMINIUM, BY SELLING PRICE RANGE, FOR OAHU: 1992 AND 1993

Selling price range	Single-family residential		Condominium	
	1992	1993	1992	1993
All properties.....	1,985	1,944	3,342	3,262
Less than \$50,000.....	-	1	2	3
\$50,000, less than \$75,000.....	1	0	12	10
\$75,000, less than \$100,000.....	2	2	55	50
\$100,000, less than \$125,000.....	1	3	167	209
\$125,000, less than \$150,000.....	5	4	423	425
\$150,000, less than \$175,000.....	15	10	502	441
\$175,000, less than \$200,000.....	46	27	665	624
\$200,000, less than \$225,000.....	50	51	493	521
\$225,000, less than \$250,000.....	70	62	396	359
\$250,000, less than \$275,000.....	136	102	170	153
\$275,000, less than \$300,000.....	218	212	115	131
\$300,000, less than \$400,000.....	787	742	210	219
\$400,000, less than \$500,000.....	286	324	66	56
\$500,000, less than \$600,000.....	157	160	26	26
\$600,000, less than \$700,000.....	70	93	14	13
\$700,000, less than \$800,000.....	41	35	11	6
\$800,000, less than \$900,000.....	35	33	8	7
\$900,000, less than \$1,000,000.....	19	19	1	2
\$1,000,000 or more.....	46	64	6	7
Median value.....	\$349,000	\$358,500	\$193,000	\$193,000
Mean value.....	\$411,868	\$436,898	\$211,649	\$210,573

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.30-- LEASEHOLD TO FEE SIMPLE CONVERSIONS OF RESIDENTIAL PROPERTIES: 1967 TO SEPTEMBER 1991

[Leasehold 1-family properties converted to fee simple ownership under the Hawaii Land Reform Act of 1967]

Characteristics	Lots	Characteristic	Lots
Converted properties	23,754	Percent resold: <u>1/</u>	
Oahu	23,459	At least once	18.5
Other islands	295	Twice	3.4
		Three times	0.1
Bishop Estate land	13,616		
Other landowners	10,138	Percent now foreign owned <u>1/</u>	3.6

1/ Oahu properties only.

Source: Locations Inc., Research & Consulting Division, *Study of Leasehold Properties Converted to Fee Simple Ownership Under the Hawaii Land Reform Act of 1967* (March 1992), pp. I-9, 19, and 45.

Table 21.31-- AVERAGE MONTHLY RENTS FOR A THREE-ROOM, ONE-BATH, 800-SQ. FT. APARTMENT IN HONOLULU AND OTHER CITIES: 1993

[Estimates for 10 highest U.S. cities and national median]

City	Dollars	City	Dollars
Honolulu	1,040	Chicago	614
San Francisco	777	Philadelphia	575
Washington, D.C.	743	Providence	575
New York	734	San Diego	570
Boston	732	U.S. median city	425
Los Angeles	659		

Source: Runzheimer International, cited in *Honolulu Star-Bulletin*, March 6, 1993, p. A-1.

Table 21.32-- CHARACTERISTICS OF PRIVATE SINGLE-FAMILY AND MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1988 TO 1993

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					
1988	1,264	4,429	1,399	168,543	683	293	113,696
1989	1,270	4,838	950	205,284	837	510	119,630
1990	1,342	5,174	617	286,549	891	579	140,391
1991	1,663	5,426	519	360,384	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

^{1/} Four stories or less.

Source: Bank of Hawaii, *Construction in Hawaii 1994* (1994), p. 14.

Table 21.33-- MORTGAGES AND AGREEMENTS OF SALE: 1988 TO 1993

Year	Mortgages recorded			Agreements of sale (\$1,000)
	Number	Total value (\$1,000)	Average value (dollars)	
1988	41,841	7,159,347	171,104	239,933
1989	47,826	10,464,959	218,834	234,280
1990	50,450	14,671,725	290,817	268,457
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

Source: Data from Title Guaranty of Hawaii, cited in the Bank of Hawaii, *Construction in Hawaii 1994* (1994), p. 27.

Table 21.34-- MORTGAGE LOANS OUTSTANDING: 1969 TO 1993

[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
1969	1,579.6	1978	5,320.8	1987	5,750.3
1970	1,790.2	1979	6,323.2	1988	5,917.3
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 ^{1/}	8,779.1
1976	3,959.5	1985	6,291.3		
1977	4,496.0	1986	4,714.6		

^{1/} Excludes insurance and trust companies loans.

Source: Bank of Hawaii, *Construction in Hawaii 1994* (1994), p. 27.

Table 21.35-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1990 TO 1993

[Years ended June 30. Data include leases, agreement of sales assignments, subleases, timeshares, etc., as well as deeds. Revised from *Data Book 1992*, table 636]

Subject	1990	1991	1992	1993
Number of deeds filed and recorded ^{1/}	78,083	71,233	68,075	68,871
Approximate value of land conveyed (\$1,000).....	16,154,886	11,304,180	8,020,905	7,521,374

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.36-- APPROXIMATE VALUE OF LAND TRANSFERS,
BY COUNTIES: 1990 TO 1992**

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1990	1991	1992
State total.....	14,262,953,800	7,483,343,700	7,850,446,800
Honolulu	8,764,531,600	4,793,932,600	5,590,377,000
Maui.....	2,046,874,000	1,028,857,100	1,027,393,500
Hawaii.....	2,893,085,800	983,727,600	886,726,000
Kauai	558,462,400	676,826,400	345,950,300

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 21.37-- FORECLOSURES: 1984 TO 1989

[For earlier years, 1976-1983, see source]

Subject	1984	1985	1986	1987	1988	1989
Number of foreclosures.....	440	261	156	154	55	39
Amount (mil. dol.)	96	33	22	25	13	35
Percent of total mortgages	3.8	1.3	0.9	0.9	0.4	1.0

Source: U.S. Office of Thrift Supervision, *1989 Savings & Home Financing Source Book*, table B9, p. B-83.

**Table 21.38-- CHARACTERISTICS OF SINGLE FAMILY HOMES INSURED
UNDER FHA SECTION 203(B): 1991 AND 1992**

Subject	1991	1992
Number insured.....	813	(NA)
Proposed.....	591	(NA)
Existing.....	222	(NA)
Amount (\$1,000).....	100,996	(NA)
Averages:		
Age of structure (years).....	13.9	12.7
Improved living area (square feet).....	1,307	1,175
Lot size (square feet).....	8,243	6,832
Number of rooms.....	6.0	5.6
Market price of site (dollars).....	*73,750	*84,967
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).....	182,812	174,017
Sales price per square foot (dollars).....	*100.02	108.18
Annual effective income (dollars).....	45,151	49,812

*Sample under 25.

B Sample under 10.

NA Not available.

Source: U.S. Department of Housing and Urban Development, Information Systems Division, *FHA Homes - 1991, Sec. 203(b)*, pp. 31-51, and *FHA Homes - 1992, Sec. 203(b)*, pp. 31-51.

**Table 21.39-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES:
DECEMBER 31, 1993**

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	5,211	4,195	130	184	485	2	22	193
Elevators	4,447	3,541	103	171	434	-	20	178
Under 9 stories:								
Hydro.....	1,174	776	46	73	159	-	9	111
Roped.....	1,497	1,080	47	98	209	-	11	52
9 to 18 stories	1,095	1,004	10	-	66	-	-	15
19 to 28 stories	389	389	-	-	-	-	-	-
29 to 38 stories	207	207	-	-	-	-	-	-
39 stories or more	85	85	-	-	-	-	-	-
Escalators and moving walks .	344	323	6	-	13	-	-	2
Inclined lifts	10	4	3	1	1	-	-	1
Private industrial elevators.....	11	1	-	3	7	-	-	-
Manlifts.....	12	10	-	2	-	-	-	-
Handicap chair lifts.....	55	41	1	5	2	-	-	6
Dumbwaiters	328	273	17	1	27	2	2	6
Other facilities	4	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 21.40-- TALLEST STRUCTURES, BY ISLANDS: MARCH 1993

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: 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.

The number of manufacturing establishments in Hawaii increased from 697 in 1967 to 1,020 in 1987. The value added by manufacture rose from \$326 million in 1967 to \$786 million in 1977, \$1.41 billion in 1987, and \$1.56 billion in 1990. More than three-fourths of all manufacturing activity in the State in 1987 was on Oahu. Food processing--mostly sugar and pineapple--accounted for 36 percent of the value added by manufacture in 1990. In 1993, the general excise and use tax base for diversified manufacturing (that is, manufacturing exclusive of sugar processing, pineapple canning, and petroleum refining) was \$717 million. There were one pineapple cannery and 11 sugar mills in Hawaii in 1993. Canned and fresh pineapple sales in 1992 totaled \$198 million. Sugar production in 1992 amounted to 652,000 short tons, the lowest total in 46 years. The value of sugar production (including commercial molasses) in 1992 was \$238 million, compared with the record of \$677 million set in 1974. Important manufactures other than food processing include apparel, printing and publishing, and stone, clay, and glass products. Industrial and technology parks and areas in 1990 numbered 40, with 7,591 acres.

Sources for data on this subject include the quinquennial United States Census of Manufactures, most recently published for 1987, the Annual Survey of Manufactures, publications of the Hawaii State Department of Agriculture and Department of Taxation, and the Hawaiian Sugar Planters' Association's annual report, *HSPA Sugar Manual*. *Historical Statistics of Hawaii*, Section 16, contains the figures for earlier years. Statistics for the nation as a whole appear in Section 27 of the *Statistical Abstract of the United States: 1993*.

**Table 22.1-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1991**

Subject	1963	1967	1972	1977	1982
All establishments: <u>1/</u>					
Total	672	697	773	949	966
With 20 employees or more	203	215	238	231	237
All employees:					
Number (1,000)	25.1	25.4	24.8	25.0	23.6
Payroll (million dollars)	109.0	139.6	191.1	276.8	360.3
Production workers:					
Number (1,000)	18.7	19.0	17.7	17.4	16.0
Hours (millions)	33.2	35.9	33.1	31.3	29.9
Wages (million dollars)	67.5	86.9	113.7	160.5	217.5
Value added by manufacture <u>2/</u> (million dollars)	261.1	326.2	410.0	785.5	1,119.6
Cost of materials <u>3/</u> (million dollars)	(NA)	399.6	548.3	1,176.1	2,357.5
Value of shipments <u>3/</u> (million dollars)	(NA)	723.4	955.6	1,974.0	3,443.0
New capital expenditures (million dollars)	15.4	26.0	46.7	44.4	89.4

Continued on next page.

**Table 22.1-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1991 -- Con.**

Subject	1987	1988	1989	1990	1991
All establishments: <u>1/</u>					
Total	1,022	(NA)	(NA)	(NA)	(NA)
With 20 employees or more	225	(NA)	(NA)	(NA)	(NA)
All employees:					
Number (1,000)	22.2	21.7	20.5	20.7	19.3
Payroll (million dollars)	440.2	452.4	432.6	476.7	466.1
Production workers:					
Number (1,000)	15.2	14.3	13.0	13.2	11.5
Hours (millions)	28.8	27.4	25.2	26.1	22.9
Wages (million dollars)	254.2	255.0	244.2	263.1	248.6
Value added by manufacture <u>2/</u> (million dollars)	1,405.3	1,376.8	1,609.8	1,557.5	1,383.3
Cost of materials <u>3/</u> (million dollars)	2,048.8	1,980.1	2,220.7	2,680.5	2,368.8
Value of shipments <u>3/</u> (million dollars)	3,447.9	3,337.3	3,813.4	4,202.9	3,805.3
New capital expenditures (million dollars)	102.0	76.1	98.4	126.9	64.1

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 includes 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; *1989 Annual Survey of Manufactures, Geographic Area Statistics*, M89 (AS)-3 (September 1991), table 1; *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.

Table 22.2- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES: 1987

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All establishments <u>1/</u> (number)	1,022	800	100	34	88
With 20 employees or more.....	225	182	21	6	16
All employees:					
Number (1,000)	22.2	16.5	2.2	0.7	2.8
Payroll (million dollars).....	440.2	330.7	40.7	13.8	54.9
Production workers:					
Number (1,000)	15.2	10.9	1.6	0.5	2.2
Hours (millions).....	28.8	19.9	3.2	1.1	4.6
Wages (million dollars)	254.2	178.2	27.5	9.5	39.0
Value added by manufacture (million dollars).....	1,405.3	1,077.1	117.4	51.8	159.0
Cost of materials <u>2/</u> (million dollars).....	2,048.8	1,716.6	129.6	47.7	154.9
Value of shipments <u>2/</u> (million dollars).....	3,447.9	2,783.8	250.5	99.5	314.2
New capital expenditures (million dollars).....	102.0	66.1	11.6	5.9	18.5

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, *1987 Census of Manufactures, Geographic Area Series, Hawaii, MC87-A-12* (October 1990), table 4.

Table 22.3-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1991

[Includes operating manufacturing establishments and auxiliaries]

Subject	All manu- factures	Food and kindred products (SIC 20)		Men's and boys' furnishings (SIC 232)	Commercial printing (SIC 275)	Stone, clay, and glass products (SIC 32)
		Total	Sugar and confect. prod. (SIC 206)			
All employees:						
Number (1,000)	19.3	8.4	3.2	1.0	1.3	1.2
Payroll (mil. dol.).....	466.1	183.0	71.1	12.1	32.4	44.5
Production workers:						
Number (1,000)	11.5	5.8	2.4	0.8	0.8	0.9
Hours (millions)	22.9	11.8	4.8	1.5	1.9	1.9
Wages (mil. dol.)	248.6	109.8	48.8	8.4	20.3	32.6
Value added by manufacture (mil. dol.).....	1,383.3	567.2	243.1	19.9	53.3	97.5
Cost of materials (mil. dol.).....	2,368.8	725.6	252.0	19.9	41.7	141.9
Value of shipments (mil. dol.).....	3,805.3	1,293.5	493.7	39.8	94.6	240.2
New capital expenditures (mil. dol.).....	64.1	27.1	12.7	(D)	1.7	5.5
End-of-year inventories (mil. dol.).....	358.5	178.0	88.2	8.4	5.3	27.5

D Withheld to avoid disclosing data.

Source: U.S. Bureau of the Census, *1991 Annual Survey of Manufactures, Geographic Area Statistics*, M91(AS)-3 (February 1993), table 2.

Table 22.4-- MANUFACTURING SALES RECEIPTS: 1989 TO 1992

[Millions of dollars]

Category	1989	1990	1991	1992
Total manufacturing	2,259.0	2,615.1	2,402.6	2,263.0
Sugar processing	342.1	353.3	302.0	280.5
Pineapple canning	182.7	161.6	172.7	141.8
Petroleum	1,076.4	1,345.9	1,214.8	1,144.4
Diversified manufacturing	657.9	754.4	713.2	696.4

Source: Bank of Hawaii, *Hawaii 1993, Annual Economic Report*, p. 39.

Table 22.5-- 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 22.6-- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1940 TO 1993

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies	Canneries	Companies <u>1/</u>	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
1992	3	2	12	12
1993	3	1	11	11
ISLANDS: 1993				
Hawaii.....	-	-	2	2
Maui.....	1	1	2	3
Oahu.....	2	-	2	2
Kauai.....	-	-	5	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 22.7-- SUGAR AND MOLASSES PRODUCTION: 1972 TO 1992

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	
1972	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979	218,773	100,610	9,632,135	1,059,737	990,430	325,843
1980	217,718	97,358	9,214,136	1,023,232	956,313	315,088
1981	216,099	97,573	8,831,477	1,047,541	979,032	311,719
1982	204,749	89,261	8,807,998	982,913	918,630	287,190
1983	194,258	92,808	8,926,358	1,044,204	975,913	303,254
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	78,715	7,602,414	928,195	867,491	274,375
1989	170,813	74,660	7,078,479	863,614	817,752	229,377
1990	161,991	71,999	6,540,925	819,631	776,027	220,859
1991	155,609	67,716	5,852,668	724,100	684,619	202,214
1992	145,790	62,123	5,432,286	652,304	609,643	196,991

^{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, *HSPA Sugar Manual* (annual), and records.

Letter 0547H

**Table 22.8-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY
EMPLOYMENT AND EARNINGS: 1972 TO 1992**

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
1972	9.10	8,127	1,934,563	29.09	11.23
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

^{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.

Source: Hawaiian Sugar Planters' Association, *HSPA Sugar Manual* (annual), as revised and updated.

Table 22.9-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1970 TO 1992

[In millions of dollars. Calendar year data unless otherwise specified]

Year	Pineapple		Sugar		
	Canned fruit and juices ^{1/}	Fresh market sales ^{2/}	Value of production		Government sugar support payments
			Raw sugar ^{96°}	Commercial molasses	
1970	135.0	3.6	180.7	7.1	10.3
1971	137.7	3.7	196.3	6.7	10.7
1972	140.5	4.9	176.6	8.1	9.7
1973	135.0	7.4	203.8	18.4	9.5
1974	118.2	8.9	659.2	17.4	8.6
1975	126.6	10.1	354.6	11.5	-
1976	130.0	14.5	245.5	11.5	-
1977	140.0	21.6	219.1	7.7	48.7
1978	133.4	29.5	269.5	15.7	8.1
1979	176.3	30.1	322.2	23.5	-
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	-

^{1/} Processor value of canned fruit and juice production and by-products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

^{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.

These activities have undergone rapid growth in recent decades, largely because of surging tourism and higher price levels. Retail sales increased from \$5.2 billion in 1982 to \$8.3 billion in 1987 and \$11.4 billion in 1991. Wholesale sales rose from \$4.1 billion in 1982 to \$5.4 billion in 1987. Hotels, amusements, and other services have reported similar increases during this period. General excise and use tax base data indicate continued increases; between 1988 and 1993, the retailing tax base rose 35 percent, the wholesaling base by 35 percent, and the base for services by 55 percent. Major retail concentrations include Waikiki, Ala Moana Center, Pearlridge Center, and downtown Honolulu. In addition to civilian retail outlets, there are many commissaries, exchanges, clubs, package stores, gasoline stations and food services maintained by the armed forces; these facilities had sales of \$558 million in 1988.

Growth has been especially rapid for hotels and related facilities. The number of units in the State rose from 58,800 in 1983 to 70,500 in 1993. There were 701 hotels, motels, transient condominiums, and apartment-hotels in Hawaii on the latter date, including 493 on the Neighbor Islands. Almost 30 percent of all transient units were in condominium structures. Occupancy rates averaged 77 percent in Waikiki and 64 percent on the Neighbor Islands during 1992. The average daily room rate was \$103 in 1993. Total hotel rentals in 1993 amounted to \$1.5 billion.

Fully 245 feature motion pictures and television specials and series were filmed in Hawaii in 1992, accounting for local expenditures of \$57 million.

The major sources of these data are the United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently published for 1987. 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 Bureau and the firm of Pannell Kerr Forster. The Film Industry Branch of the 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: 1993*, Section 28, presents similar data for other states and the nation as a whole.

Table 23.1-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1983 TO 1993

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

Year reported ^{1/}	Retailing	Services ^{2/}	Amusement, etc. ^{3/}	Intermediary services	Wholesaling
1983.....	7,438,193	2,134,524	144,095	102,227	3,694,220
1984.....	8,111,893	2,368,415	153,723	128,875	4,025,324
1985.....	8,499,254	2,481,669	154,830	116,300	4,095,220
1986.....	9,239,373	2,784,169	159,881	127,992	4,443,166
1987.....	9,449,673	2,896,159	157,824	148,557	5,188,215
1988.....	10,385,974	3,287,715	165,729	182,138	5,683,815
1989.....	11,607,779	3,699,003	184,154	189,018	6,595,569
1990.....	12,827,883	4,276,876	201,003	349,111	7,494,330
1991.....	13,398,382	4,888,164	209,128	451,078	7,722,752
1992.....	13,846,332	5,032,682	229,091	247,850	7,498,621
1993.....	13,976,049	5,092,656	226,443	218,172	7,646,217

^{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).

Table 23.2-- RETAIL ESTABLISHMENTS, BY PAYROLL STATUS: 1977 TO 1987

[Coverage differed somewhat from census to census]

Payroll status	Number of establishments			Sales (million dollars)		
	1977	1982	1987	1977	1982	1987
All retail establishments ...	7,388	8,917	11,143	3,294	5,193	8,267
With payroll	5,273	6,139	7,195	3,223	5,102	8,084
Without payroll	2,115	2,778	3,948	71	92	183

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

Table 23.3-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS WITH PAYROLL, FOR THE STATE, 1982 AND 1987, AND OAHU AND THE NEIGHBOR ISLANDS, 1987

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

Subject	1982	1987		
		State total	Oahu	Neighbor islands
Number of establishments	6,564	7,195	4,918	2,277
Sales (\$1,000)	5,100,237	8,084,416	6,079,556	2,004,860
Annual payroll (\$1,000).....	696,064	1,016,127	752,824	263,303
First quarter payroll (\$1,000)	(NA)	242,236	178,477	63,759
Paid employees for pay period including March 12	81,950	101,969	74,485	27,484
Unincorporated businesses:				
Individual proprietorships.....	(NA)	1,215	792	423
Partnerships	(NA)	408	250	158

NA Not available.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade, Hawaii*, RC87-A-12 (May 1989), tables 1, 2, 8, and 9.

**Table 23.4-- RETAIL ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS:
1982 AND 1987**

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

SIC code	Kind of business	Number of establishments		Sales		
		1982	1987	1982 (\$1,000)	1987 (\$1,000)	Percent change
	Retail trade	6,569	7,204	5,101,671	8,087,398	58.5
52	Building materials and garden supplies	136	149	149,622	230,051	53.8
53	General merchandise.....	160	151	748,493	1,253,965	67.5
54	Food stores	836	921	1,081,175	1,571,829	45.4
55 ex. 554	Automotive dealers	239	281	540,566	1,221,516	126.0
554	Gasoline service stations	389	355	400,141	427,232	6.8
56	Apparel and accessory stores	828	963	379,746	578,467	52.3
57	Furniture and home- furnishings stores.....	365	402	160,828	280,781	74.6
58	Eating and drinking places	1,894	2,209	872,558	1,350,648	54.8
591	Drug and proprietary stores	129	112	337,590	441,584	30.8
59 ex. 591	Miscellaneous retail stores	1,593	1,661	522,198	731,325	40.0

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade, Hawaii*, RC87-A-12 (May 1989), table 3.

Table 23.5-- RETAIL SALES, BY TYPE OF STORE: 1990 AND 1991

[In millions of dollars]

Kind of store	1990	1991
All stores ^{1/}	^{2/} 11,204	^{2/} 11,412
Food stores	2,137	2,224
Supermarkets	1,964	2,043
General merchandise stores	1,502	1,527
Department stores	1,191	1,224
Automotive dealers.....	1,476	1,390
Eating and drinking places	1,913	2,095
Gasoline service stations	692	655
Building materials, hardware dealers	339	343
Apparel and accessories stores	892	883
Furniture, home furnishings, appliance stores	413	409

^{1/} Includes other types of stores, not shown separately.^{2/} Sales per household were \$31,095, highest of the 50 States. The U.S. ratio was \$19,443.Source: Market Statistics estimates cited in *Statistical Abstract of the United States: 1993*, pp. 782-783.**Table 23.6- SHOPPING CENTER CHARACTERISTICS: 1989 TO 1992**

Characteristic	1989	1990	1991	1992
Number.....	141	148	152	153
Gross leasable area (mil. sq. ft.)	14	14	14	15
Retail sales (bil. dol.).....	2.4	2.6	2.6	2.7

Source: National Research Bureau data cited in *Statistical Abstract of the United States: 1993*, (p. 781) and earlier editions.

Table 23.7-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1992

[Includes all centers on Oahu with more than 200,000 square feet of gross leaseable area and all centers on other islands with more than 150,000 square feet of building area]

Island and name of center	Location	Year opened	Site area (acres)	Gross leaseable area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center.....	Honolulu	1959	50	1,500	7,800	200
Hawaii Kai Towne Center.....	Honolulu	1993	20	202	1,013	19
Kahala Mall.....	Honolulu	1970	10	377	1,580	81
Kapolei S.C.....	Makakilo	1993	30	250	1,030	40+
Moanalua S.C.....	Honolulu	1953	15	250	500	40
Pearl City S.C.....	Pearl City	1967	14	252	830	34
Pearlridge Center.....	Aiea	1972	54	1,199	6,014	173
Royal Hawaiian S.C.....	Honolulu	1980	6	281	620	140
Waikiki Shopping Plaza ..	Honolulu	1977	1	300	300	50
Waipahu Town Center....	Waipahu	1988	11	244	700+	30
Windward City S.C.....	Kaneohe	1956	15	232	744	39
Windward Mall S.C.....	Kaneohe	1982	32	530	2,300	109
Hawaii:						
Kaiko'o Mall S.C.....	Hilo	1970	14	220	950	33
Kuakini S.C.....	Kailua	1993	17	150	750	50
Prince Kuhio Plaza.....	Hilo	1985	39	324	2,200	70+
Maui:						
Kaahumanu Center.....	Kahului	1973	34	290	1,450	60
Lahaina Market Place.....	Lahaina	1969	2	208	15	18+
Maui Mall.....	Kahului	1972	27	188	1,050	41
Kauai:						
Kukui Grove Center.....	Lihue	1982	35	311	1,590	57

Source: Hawaii Chapter, International Council of Shopping Centers, *Hawaii 1992 Shopping Center Directory*.

Table 23.8-- DUTY-FREE STORE REVENUES: 1983 TO 1993

[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
1983	150,424,959	1989	451,185,041
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		

Source: DFS Hawaii, records.

Table 23.9-- RETAIL SALES AND HOTEL RECEIPTS OF FACILITIES OPERATED FOR THE ARMED FORCES, BY TYPE AND FACILITY: 1986 TO 1988

[In dollars]

Type of facility	1986	1987	1988
Retail sales ^{1/}	454,092,570	465,168,573	558,243,976
Commissaries.....	139,076,522	145,795,399	159,079,031
Exchanges.....	240,951,904	247,501,620	326,197,701
Clubs and food services.....	46,520,878	46,166,032	45,454,512
Package stores.....	16,268,682	13,207,235	8,495,505
Gas stations	5,025,084	6,110,441	10,022,536
Vending outlets.....	6,249,500	6,387,846	8,994,691
Hotel receipts ^{2/}	15,839,089	16,901,584	17,887,611
Room.....	7,481,014	8,027,520	8,324,284
Food	6,367,191	6,923,720	7,599,969
Beverage	1,990,884	1,950,344	1,963,358

^{1/} Calendar year data. Excludes Hale Koa Hotel.

^{2/} Hale Koa Hotel receipts for fiscal years ended September 30.

Source: Hawaii State Data Center, annual facilities survey.

Table 23.10-- TOBACCO TAX BASE, TOTAL AND PER CAPITA: 1982 TO 1992

[Wholesale value. Excludes sales on military bases. By calendar year in which reported; data accordingly refer in general to tobacco sales for 12-month periods ended November 30]

Year	Tax base (\$1,000)	Per capita tax base ^{1/} (dollars)	Year	Tax base (\$1,000)	Per capita tax base ^{1/} (dollars)
1982	37,338	34.43	1988.....	58,819	48.99
1983	49,580	44.69	1989.....	59,836	48.04
1984	48,262	42.69	1990.....	62,376	49.58
1985	47,188	41.47	1991.....	69,800	54.63
1986	51,796	44.36	1992.....	68,920	52.97
1987	46,622	39.29			

^{1/} Based on estimated de facto population.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release).

Table 23.11-- ALCOHOLIC BEVERAGE SALES, BY TYPE: 1991 TO 1993

[Wine gallons of 128 fluid ounces]

Type of beverage	1991	1992	1993
All types	35,740,219	36,299,029	35,418,339
Distilled spirits	1,550,172	1,546,441	1,479,093
Sparkling wine	289,350	278,900	255,405
Still wine	2,158,942	2,212,174	2,168,233
Cooler beverage.....	348,380	294,924	277,787
Draft beer	1,540,197	1,631,686	1,569,064
Beer other than draft	29,853,178	30,334,904	29,668,757

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 23.12-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1987

Type of operation and kind of business	Number of establishments	Sales (\$1,000)
Wholesale trade	1,998	5,362,490
Type of operation:		
Merchant wholesalers	1,718	3,762,672
Manufacturers' sales branches and offices.....	130	1,060,066
Agents, brokers, and commission merchants.....	150	539,752
Kind of business:		
Motor vehicles and motor vehicle parts and supplies	121	409,040
Furniture and home furnishings	69	105,823
Professional and commercial equipment and supplies	193	427,975
Lumber and other construction materials.....	82	217,920
Metals and minerals, except petroleum	18	41,947
Electrical goods.....	116	367,006
Hardware, and plumbing and heating equipment and supplies	93	164,382
Machinery, equipment, and supplies	144	241,390
Miscellaneous durable goods	202	226,496
Paper and paper products	69	203,601
Drugs, drug proprietaries, and druggists' sundries	40	133,740
Apparel, piece goods, and notions.....	108	146,805
Groceries and related products	388	1,453,873
Farm-product raw materials.....	10	7,477
Chemicals and allied products	39	105,375
Petroleum and petroleum products.....	50	468,694
Beer, wines, and distilled alcoholic beverages	41	270,773
Miscellaneous nondurable goods	215	370,173

Source: U.S. Bureau of the Census, *1987 Census of Wholesale Trade, Hawaii*, WC87-A-12 (April 1989), table 1.

**Table 23.13-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS,
FOR THE STATE, 1982 AND 1987, AND OAHU AND THE NEIGHBOR
ISLANDS, 1987**

Subject	1982	1987		
		State total	Oahu	Neighbor Islands
Number of establishments	1,810	1,998	1,577	421
Sales (\$1,000).....	4,084,369	5,362,490	4,501,802	860,688
Annual payroll (\$1,000).....	287,626	415,114	357,469	57,645
First quarter payroll (\$1,000)	69,858	100,963	(NA)	(NA)
Paid employees for pay period				
including March 12 (number)	17,210	20,157	16,907	3,250
Operating expenses (\$1,000)	620,882	883,223	(NA)	(NA)
Inventories (\$1,000):.....				
Beginning of year.....	457,525	472,167	(NA)	(NA)
End of year.....	440,723	579,212	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *1982 Census of Wholesale Trade, Hawaii*, WC82-A-12 (September 1984), table 1; *1987 Census of Wholesale Trade, Hawaii*, WC87-A-12 (April 1989), tables 1, 3, 8, and 9.

Table 23.14-- SERVICE ESTABLISHMENTS, BY PAYROLL STATUS: 1977 TO 1987

[Excludes firms exempt from Federal income tax for all years, hospitals prior to 1987, and most other health services before 1982]

Payroll status	Number of establishments			Receipts (million dollars)		
	1977	1982	1987	1977	1982	1987
All service establishments ...	8,023	(NA)	30,114	1,276	(NA)	4,902
With payroll	3,306	6,124	7,458	1,216	2,660	4,456
Without payroll	4,717	(NA)	22,656	60	(NA)	446

NA Not available.

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

Table 23.15-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH PAYROLL, FOR THE STATE, 1982 AND 1987, AND OAHU AND THE NEIGHBOR ISLANDS, 1987

Subject	1982	1987		
		State total	Oahu	Neighbor islands
FIRMS SUBJECT TO FEDERAL INCOME TAX				
Number of establishments.....	(NA)	7,458	5,704	1,754
Excluding hospitals.....	6,469	7,456	5,702	1,754
Receipts (\$1,000).....	(NA)	4,455,953	3,234,314	1,221,639
Excluding hospitals.....	2,659,651	(D)	(D)	1,221,639
Annual payroll (\$1,000).....	(NA)	1,499,500	1,124,039	375,461
Excluding hospitals.....	904,328	(D)	(D)	375,461
First quarter payroll (\$1,000).....	(NA)	356,723	268,298	88,425
Paid employees <u>1/</u>	(NA)	91,673	66,533	25,140
Excluding hospitals.....	71,051	(D)	(D)	25,140
Unincorp. businesses or operations:				
Individual proprietorships	(NA)	2,146	1,578	568
Partnerships	(NA)	452	321	131
FIRMS EXEMPT FROM FEDERAL INCOME TAX				
Number of establishments.....	(NA)	998	685	313
Excluding hospitals.....	881	973	672	301
Revenue (\$1,000).....	(NA)	1,222,359	1,044,911	177,448
Expenses, except hospitals (\$1,000) .	315,006	464,222	(NA)	(NA)
Annual payroll (\$1,000).....	(NA)	521,108	444,007	77,101
Excluding hospitals.....	122,302	176,335	145,635	30,700
First quarter payroll (\$1,000).....	(NA)	128,303	109,597	18,706
Paid employees <u>1/</u>	(NA)	28,541	23,594	4,947
Excluding hospitals.....	12,442	13,811	11,186	2,625

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ For pay period including March 12.

Source: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), tables 1a, 1b, 3a, 3b, 8a, 8b, 9a, and 9b.

Table 23.16-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION: 1982 AND 1987

1972 SIC code	Kind of business or operation	Number of establishments		Receipts		
		1987	1982	1987 (\$1,000)	1982 (\$1,000)	Percent change
	Total.....	7,456	6,469	(D)	2,659,651	(D)
70	Hotels, motels, other lodging.....	237	213	1,562,043	973,328	60.5
72	Personal services.....	727	704	(D)	100,785	(D)
73	Business services.....	1,435	1,097	548,807	313,686	75.0
75	Automotive repair, services, & parking.....	653	615	416,441	249,342	67.0
76	Miscellaneous repair services.....	255	250	72,490	47,779	51.7
78, 79	Amusement & recreation services, including motion pictures.....	429	346	(D)	128,452	(D)
80, ex. 806	Health services, except hospitals.....	1,979	1,711	(D)	420,211	(D)
81	Legal services.....	721	672	315,500	173,129	82.2
823, 4, 9	Selected educational services.....	62	63	11,829	8,032	47.3
83	Social services.....	90	69	19,319	6,401	201.8
891	Engineering, architectural, surveying services.....	409	350	281,543	158,104	78.1
893	Accounting, auditing, bookkeeping services....	386	325	111,178	75,046	48.1
892, 9	Other services.....	73	(NC)	11,001	(NC)	(X)

D Withheld to avoid disclosing data for individual companies.

NC Not comparable.

X Not applicable.

Source: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), table 3.

Table 23.17-- VISITOR ACCOMMODATIONS, BY TYPE, 1983 TO 1993, AND BY ISLANDS, 1993

[As of February 1983-1991 and Spring 1992 and June 1993]

Year and island	Properties			Units		
	Total	Hotels <u>1/</u>	Condo-miniums <u>2/</u>	Total	Hotels <u>1/</u>	Condo-miniums <u>2/</u>
1983	426	218	208	58,765	45,352	13,413
1984	443	209	234	62,448	44,846	17,602
1985	481	207	274	65,919	44,115	21,804
1986	523	201	322	66,308	43,309	22,999
1987	510	196	314	65,318	43,422	21,896
1988	481	203	278	69,012	47,892	21,120
1989	453	197	256	68,034	48,894	19,140
1990	534	264	270	71,566	52,438	19,128
1991	596	313	283	72,575	52,468	19,887
1992	671	374	297	73,779	51,134	22,645
1993	701	407	294	70,542	49,461	21,081
ISLANDS: 1993						
Oahu.....	208	149	59	37,032	29,212	7,820
Waikiki <u>3/</u>	126	74	52	31,966	24,741	7,225
Rest of Oahu ..	82	75	7	5,066	4,471	595
Other islands	493	258	235	33,510	20,249	13,261
Hawaii.....	150	96	54	9,490	7,270	2,220
Maui.....	208	77	131	18,443	9,374	9,069
Lanai.....	5	5	-	367	367	-
Molokai.....	9	4	5	579	276	303
Kauai.....	121	76	45	4,131	2,962	1,669

1/ Hotels, apartment hotels, bed-and-breakfast, 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.

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*, 1983 to 1993. The 1990 and 1991 data have been revised.

Table 23.18-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA: JUNE 1993

Type of accommodation	Properties			Units		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All types	701	208	493	70,542	37,032	33,510
Apartment-hotel.....	21	13	8	423	310	113
Bed and breakfast	121	20	101	534	47	487
Condominium	208	29	179	10,337	2,617	7,720
Condo and hotel	86	30	56	10,744	5,203	5,541
Cottage.....	58	21	37	333	42	291
Hotel.....	163	82	81	47,638	28,626	19,007
Other <u>1</u> /	44	13	31	538	187	351

1/ Hostel, lodge, etc.

Source: Hawaii Visitors Bureau, *1993 Visitor Plant Inventory*, pp. 4-10.

Table 23.19-- HOTELS AND MOTELS (SIC 701), BY COUNTIES: 1986 TO 1991

County	1986	1987	1988	1989	1990	1991
State total	238	240	221	243	233	260
Hawaii.....	37	43	36	38	35	36
Honolulu	132	131	123	132	124	138
Kauai	27	24	22	27	24	33
Maui.....	42	42	40	46	50	53

Source: U.S. Bureau of the Census, *County Business Patterns, Hawaii* (annual).

Table 23.20-- HOTEL ROOMS, OCCUPANCY RATES, AND DAILY ROOM AND GUEST RATES: 1983 TO 1993

[Includes condominium units in rental pools for transient occupancy]

Year	Hotel units, February <u>1/</u>			Percent occupied <u>2/</u>	Daily rates per room <u>2/</u> (dollars)	Guests per room <u>2/</u>
	State total	Oahu	Other islands			
1983	58,765	34,354	24,411	69.7	54.78	1.98
1984	62,448	36,848	25,600	76.0	59.25	2.00
1985	65,919	38,600	27,319	76.1	68.84	2.00
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

1/ Except 1992, which was Spring, and 1993, which was June. Data for 1990 and 1991 have been revised.

2/ Annual averages for hotels in PKF sample.

Source: Hawaii Visitors Bureau, *1993 Visitor Plant Inventory Report*, p. 67; PKF-Hawaii, *Trends in the Hotel Industry, Hawaii* (December issues), and records.

Table 23.21-- HOTEL ROOM OCCUPANCY AND ROOM RATES, AND FOOD AND BEVERAGE SALES, BY GEOGRAPHIC AREAS: 1993

[Includes condominium units in rental pools for transient occupancy]

Geographic area	Percent occupied	Average daily room rate (dollars)	Average revenue per available room (dollars)	Average daily sales per guest		Average food sales per cover (dollars)
				Food (dollars)	Beverage (dollars)	
State total	71.99	103.26	74.33	21.20	5.35	15.20
Oahu	76.40	96.16	73.47	18.84	4.14	15.02
Waikiki.....	76.71	97.24	74.59	18.81	4.18	15.44
Other Oahu	71.71	78.68	56.42	19.14	3.72	11.88
Hawaii	58.18	121.26	70.55	29.63	8.34	17.56
Hilo.....	60.84	61.48	37.41	15.18	2.90	11.57
Kona.....	58.94	74.74	44.05	15.21	3.96	11.27
Kohala.....	57.02	173.31	98.82	40.98	12.01	20.90
Maui	67.56	122.88	83.02	23.04	7.16	14.17
Kaanapali.....	72.74	128.15	93.22	19.94	6.50	13.14
West Maui.....	69.92	116.27	80.94	16.31	6.68	16.68
Other.....	58.19	119.86	69.74	36.41	9.41	15.53
Kauai.....	76.66	65.14	49.94	5.73	2.14	10.94
North .....	...	...	...	...	...	...
Central	76.66	65.14	49.94	5.73	2.14	10.94
South.....	...	...	...	...	...	...
Molokai.....	42.66	74.69	31.87	32.27	10.45	10.66
All Neighbor Islands.....	64.30	117.92	75.82	15.91	4.73	15.45

Source: PKF-Hawaii, *Trends in the Hotel Industry, Hawaii*, December 1993, and records.

**Table 23.22-- GENERAL EXCISE TAX BASE FOR RENTALS:
1983 TO 1993**

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

Year reported ^{1/}	Total	Hotel rentals	All other rentals ^{2/}
1983	2,470,820	876,227	1,594,593
1984	2,743,855	984,518	1,759,337
1985	3,037,254	1,122,268	1,914,986
1986	3,278,450	1,212,782	2,065,668
1987	3,443,271	1,369,401	2,073,870
1988	3,715,546	1,408,891	2,306,655
1989	4,108,740	1,505,071	2,603,669
1990	4,401,733	1,572,994	2,828,739
1991	4,825,777	1,512,990	3,312,787
1992	5,013,293	1,621,751	3,391,542
1993	5,035,586	1,527,041	3,508,545

^{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).

Table 23.23-- ARRANGEMENT OF PASSENGER TRANSPORTATION: 1987

[Includes only establishments with payroll]

Kind of business	Establish- ments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees, Mar. 12
All establishments.....	486	197,360	68,128	4,796
Travel agencies.....	327	79,850	25,688	1,975
Tour operators.....	110	99,542	35,273	2,400
Arrangement of passenger transportation, n.e.c.....	49	17,968	7,167	421

n.e.c. Not elsewhere classified.

Source: U.S. Bureau of the Census, *1987 Census of Transportation*, TC87-S-1 *Miscellaneous Subjects* (July 1991), tables 15 and 16.

Table 23.24-- PASSENGER TRANSPORTATION ARRANGEMENT: 1991

SIC code	Industry	Number of establishments		Number of employees, week incl. March 12	Annual payroll (\$1,000)
		State total	Oahu		
472	Passenger transp. arrangement ...	509	405	6,251	131,486
4724	Travel agencies.....	343	265	2,572	60,170
4725	Tour operators.....	114	96	2,973	56,445
4729	Pass. transport arrangement, n.e.c.....	36	31	652	13,300

n.e.c. Not elsewhere classified.

Source: U.S. Bureau of the Census, *County Business Patterns 1991, Hawaii*, CBP-91-13 (December 1993), pp. 7 and 24.

Table 23.25-- MOTION PICTURE SERVICES: 1977 TO 1991

[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
1991 <u>1</u> /.....	31	(NA)	3,229	139
Motion picture theaters (SIC 783):				
1977 <u>2</u> /.....	50	17,444	(D)	(D)
1982.....	36	21,329	3,195	519
1987.....	35	(D)	(D)	(D)
1991.....	35	(NA)	(D)	(D)
Video tape rental (SIC 784):				
1987.....	78	12,319	2,456	376
1991.....	76	(NA)	4,860	513

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Excludes motion picture distribution (SIC 782).

2/ 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); *County Business Patterns 1991, Hawaii*, CBP-91-13 (December 1993).

**Table 23.26-- MOTION PICTURE AND TELEVISION PRODUCTION:
1989 TO 1992**

Subject	1989	1990	1991	1992
Number of features and programs filmed <u>1/</u>	173	170	246	(NA)
Feature films for theater viewing	5	2	9	(NA)
TV movie of the week viewing <u>2/</u>	7	2	1	(NA)
Television episodics, specials and series <u>1/</u>	161	166	236	(NA)
Expenditures in Hawaii (million dollars) <u>3/</u>	61.6	48.3	35.4	56.8
Commercials	20.0	16.5	4.2	6.3
Hawaii-based TV series <u>4/</u>	27.0	16.4	-	12.9
Feature films.....	12.0	5.5	3.8	5.4
TV specials/episodics/movie of week.....	.8	4.8	8.2	3.4
Others (still photography, sports, exercise or music video, cable, misc.) .....	.5	3.5	3.3	4.8
Documentaries/industrials/news/educational/ travelog/video stock.....	1.3	1.6	2.9	2.0
Annual permit holders.....	(NA)	(NA)	1.6	<u>5/</u> 4.9
Private property projects	(NA)	(NA)	7.5	8.5
Sports events, annual (private)	(NA)	(NA)	4.0	<u>5/</u> 8.6
Tax revenues generated (million dollars)	9.2	7.2	5.3	9.1
Spending effect on economy (million dollars).....	120.0	96.6	70.8	115.9

NA Not available.

1/ Each program in a series counted separately. Includes Hawaii TV network affiliates' locally produced programs. However, expenditures do not reflect the costs of such production.

2/ Previously referred to as feature films for TV viewing.

3/ 1991 and 1992 total expenditures include private filming and annual permit holders, which were not previously included.

4/ Previously referred to as TV series.

5/ Increase attributable to improved reporting rather than actual growth.

Source: Hawaii State Department of Business, Economic Development & Tourism, Film Industry Branch, records.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Hawaii's imports from foreign nations increased from \$1.7 billion in 1982 to \$2.4 billion in 1992. Exports to foreign countries amounted to only \$219 million in 1982, but by 1992 reached \$604 million. These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State. Exports actually originating in Hawaii, first compiled for 1987, totaled only \$206 million in 1992.

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from \$4.8 billion in 1980 to \$8.8 billion in 1990. Estimates of the value of merchandise shipped to the Mainland are no longer available.

Among foreign nations, Hawaii's leading trading partner in 1989, both for imports and exports, was Japan. Imports for consumption from Japan amounted to \$452 million, or 23 percent of the total, while exports to Japan reached \$222 million or 41 percent of all foreign exports. Almost one-fourth of all imports for consumption were petroleum and other mineral fuels and products.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at \$65 million in fiscal 1992. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at \$1.1 billion, almost all of it in petroleum and petroleum products. The other four subzones accounted for a combined total of \$727 billion.

Foreign-owned businesses in Hawaii had property, plant, and equipment with a gross book value of \$10.7 billion in 1990 and employed 53,000 persons. Foreign investments in Hawaii between 1959 and 1992 totaled \$14 billion, over five-sixths of it Japanese.

Sources for statistics on interstate and foreign commerce and foreign investment include the U.S. Bureau of the Census and Bureau of Economic Analysis, Foreign Trade Zone No. 9 and its subzones, the DBEDT Business Development and Marketing Division, and Kenneth Leventhal & Co. Further information is found in waterborne cargo data compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 29 of *Statistical Abstract of the United States: 1993*. Long-term Island trends are summarized in *Historical Statistics of Hawaii*, Section 21.

Table 24.1-- INTERSTATE AND FOREIGN TRADE: 1970 TO 1990

[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 <u>1/</u>
	Total	Domestic			Foreign	
		Total	Waterborne	Air <u>1/</u>		
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.....	7,468.9	5,910.3	4,465.4	445.0	1,558.6	1,452.9
1988.....	9,298.4	7,459.9	7,029.8	430.2	1,838.5	1,467.6
1989.....	10,062.3	8,076.1	7,606.5	469.6	2,393.7	1,509.2
1990.....	10,945.5	8,784.9	8,281.1	503.9	2,613.5	1,617.4

1/ Not available separately for foreign and domestic exports.

Source: Hawaii State Department of Business and Economic Development, *Hawaii Gross State Product Accounts: 1958 to 1985; Summary Estimates: 1986, 1987, and 1988* (June 1989), and records.

Table 24.2-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1982 TO 1992

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu 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 foreign and domestic merchandise ^{2/}
1982	1,732.7	1,509.4	219.0
1983	1,828.0	1,433.5	203.3
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
1988	1,839.6	1,559.1	572.6
1989	1,970.1	1,735.9	537.4
1990	2,260.6	2,100.3	512.2
1991	1,620.9	1,892.4	568.3
1992	2,395.8	2,119.8	604.2

^{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.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT990, cumulative totals in December issues, 1982-1988; *U.S. Merchandise Trade: Selected Highlights*, FT920, December 1989 to 1992.

**Table 24.3-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS
DISTRICT, BY CLASSIFICATION: 1991 AND 1992**

[In millions of dollars]

Classification	1991	1992
General imports by district of entry:		
Customs value <u>1/</u>	1,620.91	2,395.77
C.i.f. value <u>2/</u>	1,698.33	2,510.07
General imports by district of unloading:		
Customs value <u>1/</u>	2,254.18	2,733.60
C.i.f. value <u>2/</u>	2,375.10	2,866.43
Imports for consumption by district of entry (customs value <u>1/</u>).....	1,892.43	2,119.77
Exports of domestic and foreign merchandise by district of export (f.a.s. value <u>3/</u>).....	568.32	604.23
Exports of merchandise by district of origination.....	147.7	206.2
Manufactured commodities	97.6	150.1
Non-manufactured commodities	50.1	56.1

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.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Selected Highlights*, FT920, for December 1991 and 1992, tables 1, 4, 5 and 6, and *U.S. Merchandise Trade*, FT900 Supplement, for December 1991 and 1992, exhibit 2.

Table 24.4-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1991 AND 1992

[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/}					
1991.....	2,254.18	601.23	1,634.65	618.82	23.68
1992.....	2,733.60	1,117.26	1,439.90	4,604.17	15.26
Exports: ^{3/}					
1991.....	568.32	149.94	202.26	507.34	12.73
1992.....	604.23	153.67	184.64	677.98	12.54

^{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 1991 and 1992, tables 1 and 6.

**Table 24.5-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1991 TO 1993**

[Years ended September 30, unless otherwise specified]

Subject	1991	1992	1993
Zone No. 9:			
Firms using zone.....	351	335	327
User employment at zone 1/.....	195	178	168
Value of merchandise (\$1,000):			
In/out.....	48,308	65,214	61,568
Exports.....	7,290	13,466	15,773
Revenue 2/ (\$1,000).....	1,821	1,984	1,935
Expenditures 2/ (\$1,000).....	1,387	1,431	1,534
Subzone No. 9-A:			
User employment at subzone.....	672	672	628
Quantity (1,000 metric tons):			
Merchandise, in/out.....	8,622.0	8,751.3	9,424.4
Exports.....	1,891.0	1,737.3	2,043.9
Value (million dollars):			
Merchandise, in/out.....	1,428.4	1,125.2	1,163.8
Exports.....	332.4	182.2	278.4
Subzone No. 9-B:			
User employment at subzone.....	19	19	14
Value (\$1,000):			
Merchandise, in/out.....	2,759	2,602	3,183
Exports.....	1,371	1,292	1,582
Subzone No. 9-C:			
User employment at subzone.....	925	455	225
Value (million dollars):			
Merchandise, in/out.....	199.9	68.0	17.6
Exports.....	12.6	.034	2.0
Subzone No. 9-D:			
User employment at subzone.....	910	963	785
Value (\$1,000):			
Merchandise, in/out.....	102,215	119,787	144,098
Exports.....	6,630	5,224	10,154

Continued on next page.

**Table 24.5-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1991 TO 1993 -- Con.**

Subject	1991	1992	1993
Subzone No. 9-E:			
User employment at subzone	410	396	332
Quantity (1,000 metric tons):			
Merchandise, in/out	6,004.7	5,417.7	5,544.0
Exports.....	443.3	403.5	262.7
Value (million dollars):			
Merchandise, in/out	915.3	656.4	718.3
Exports.....	65.7	48.1	32.9

1/ For firms occupying facilities on a continuing basis only.

2/ Years ended June 30.

Source: Hawaii State Department of Business, Economic Development & Tourism, Foreign-Trade Zone No. 9, annual reports and records.

**Table 24.6-- EMPLOYMENT AND SHIPMENTS RELATED TO
MANUFACTURED EXPORTS: 1988 AND 1989**

Subject	1988	1989
Employment related to manufactured exports	6,300	9,900
Percent of civilian employment.....	1.2	1.9
Manufacturing industries	900	2,700
Direct export related	300	2,000
Supporting exports.....	600	700
Nonmanufacturing industries.....	5,400	7,200
Trade	4,300	5,200
Other	1,100	2,000
Value of export related manufacturers' shipments 1/	191.4	535.4
Percent of total manufacturers' shipments	5.7	14.0
Direct exports 1/.....	62.0	377.4
Supporting exports 1/	129.4	158.0

1/ Million dollars.

Source: U.S. Bureau of the Census, "Exports from Manufacturing Establishments: 1988 and 1989," *Manufacturing, Analytical Report Series*, AR89-1 (Nov. 1992), pp. 20-23.

Table 24.7-- EMPLOYMENT AND PROPERTY, PLANT AND EQUIPMENT OF HAWAII AFFILIATES OF FOREIGN-OWNED COMPANIES: 1989 TO 1991

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person]

Subject	1989	1990 <u>1/</u>	1991 <u>2/</u>
Employment by nonbank affiliates (1,000)	45.0	53.0	55.6
Percent of all nonbank businesses	10.5	11.8	12.1
Employment by country of ultimate beneficial owner (1,000)	45.0	53.0	55.6
Canada .....	.8	.7	.7
Europe	4.0	6.2	6.1
Latin America, other W. Hemisphere	3.7	3.6	4.0
Africa and Middle East	0	0	0
Asia and Pacific	36.1	42.3	44.4
Australia	2.6	2.7	3.2
Japan	30.3	36.0	38.1
United States .....	.4	.3	.3
Gross property, plant, and equipment (million dollars).....	8,224	10,658	(NA)
Commercial property <u>3/</u>	5,169	7,495	(NA)
Other	3,055	3,163	(NA)

NA Not available.

1/ Revised.

2/ Preliminary.

3/ The book value of commercial property owned by all U.S. affiliates is a measure of U.S. affiliates' ownership of U.S. real estate.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, "U.S. Affiliates of Foreign Companies: Operations in 1991," *Survey of Current Business*, May 1993, pp. 89-112, and earlier reports.

Table 24.8-- 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 24.9-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 31, 1991 AND 1992

Subject	1991	1992
Parcels owned by foreigners.....	78	86
Individuals.....	15	19
Organizations	63	67
Acres owned by foreigners.....	175,517	179,321
Percent of all privately owned agricultural land ^{1/}	8.8	9.0
Individuals.....	1,492	1,586
Organizations	174,025	177,735
Value of foreign-owned agricultural land (\$1,000):		
At time of acquisition	598,184	631,979
Adjusted current value.....	623,502	664,054

^{1/} The 1992 percent for Hawaii ranked second among the 50 States, exceeded only by Maine (14.1 percent), and well above the national percentage (1.1).

Source: U.S. Department of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural and Land Through December 31, 1991* (Staff Report No. AGES 9211, [1992]), pp. 6, 9, and 13, and *Foreign Ownership of U.S. Agricultural Land Through December 31, 1992* (Statistical Bulletin No. 853, ND), pp. 6, 9, and 13.

**Table 24.10-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND JAPANESE:
PRE-1970 TO 1992**

[In thousands of dollars. Data are preliminary estimates based on incomplete reporting, and do not include undisclosed amounts]

Year	Total foreign investments	Investments by Japanese
Total completed.....	14,040,238	12,064,231
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.....	1,864,363	1,725,382
1989.....	2,638,450	2,137,150
1990.....	1,970,530	1,924,330
1991.....	2,407,175	2,107,375
1992.....	671,952	633,452
Future investments.....	5,727,595	5,395,595

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Development & Marketing Branch, *A Listing of Foreign Investments in Hawaii*, Annual 1991 and 1992.

Table 24.11-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR: PRE-1970 TO 1992

[In thousands of dollars. Data are preliminary estimates based on incomplete reporting, and do not include undisclosed amounts]

Country of investor	Pre-1970 through 1992	1990	1991	1992
All countries	14,040,238	1,970,530	2,407,175	671,952
Australia	857,431	14,250	206,800	-
Bermuda	500	-	-	-
British West Indies	575	-	-	-
Canada	222,570	(NA)	43,000	-
Cayman Islands	8,500	-	-	-
France	19,900	(NA)	-	-
Germany	(NA)	(NA)	-	-
Hong Kong	323,345	11,450	(NA)	20,000
Indonesia	151,100	-	-	2,500
Italy	(NA)	-	-	-
Japan	12,064,231	1,924,330	2,107,375	633,452
Korea, Republic of	12,550	-	-	1,000
Liechtenstein	(NA)	(NA)	-	-
Netherlands	19,600	-	-	-
Netherlands Antilles	70,735	-	50,000	3,000
New Zealand	58,900	20,500	-	(NA)
Singapore	(NA)	-	-	-
Spain	(NA)	(NA)	-	-
Switzerland	(NA)	-	(NA)	-
Taiwan	34,000	-	-	12,000
United Arab Emirates	(NA)	-	-	-
United Kingdom	193,801	(NA)	-	(NA)
Vanuatu	2,500	-	-	-

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Development & Marketing Branch, *A Listing of Foreign Investments in Hawaii*, Annual 1991 and 1992.

Table 24.12-- FOREIGN INVESTMENTS IN HAWAII, BY TYPE OF INVESTMENT: PRE-1970 TO 1992

[In thousands of dollars. Data are preliminary estimates based on incomplete reporting, and do not include undisclosed amounts]

Type of investment	Pre-1970 through 1992		All countries		
	All countries	Japanese investments	1990	1991	1992
All types	14,040,238	12,064,231	1,970,530	2,407,175	671,952
Agriculture	84,100	22,400	27,500	(NA)	-
Financial institutions	34,301	22,501	3,000	(NA)	2,500
Condominiums	998,950	564,350	79,900	228,000	-
Golf courses & club houses	305,650	305,650	-	212,100	-
Hotels, resorts	7,596,983	7,318,802	1,395,600	837,900	529,182
Manufacturing	497,155	71,405	41,550	-	-
Other real estate	2,828,855	2,329,100	331,500	458,900	20,000
Residential property	439,300	427,300	55,980	30,600	12,270
Restaurants	614,345	609,620	1,000	558,600	5,000
Retailing, wholesaling	317,879	254,654	(NA)	63,500	103,000
Science, education	94,001	7,500	(NA)	6,800	(NA)
Miscellaneous	228,719	130,949	34,500	10,775	(NA)

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Development & Marketing Branch, *A Listing of Foreign Investments in Hawaii*, Annual 1991 and 1992.

Table 24.13-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU: 1991 AND 1992

[Foreign investments in real property on Oahu, reported in accordance with Honolulu Ordinance No. 90-68, requiring all foreign persons to report their real property holdings to the City and County Director of Finance. Reporting is thought to be seriously incomplete]

Subject	Parcels		Assessed value (millions of dollars)	
	1991	1992	1991	1992
All property	227,449	231,893	<u>1/</u> 72,542	<u>1/</u> 84,520
Foreign holdings	3,160	4,642	2,766	5,828
Percent	1.4	2.0	3.8	6.9
Foreign holdings by land class:				
Improved residential	362	753	333	702
Apartment	2,487	3,489	952	1,447
Commercial	162	209	1,157	1,661
Industrial	13	23	106	141
Agricultural	35	42	9	15
Conservation	20	26	25	122
Hotel and resort	66	89	151	1,716
Unimproved residential	15	11	33	25
Foreign holdings by country:				
Canada	294	330	87	112
Hong Kong	115	128	52	58
Japan	2,553	3,763	2,547	5,413
Korea	13	42	5	87
Other countries	185	379	75	158

1/ Net taxable valuation.

Source: City and County of Honolulu, Department of Finance, *Foreign Investments in Real Property Within Honolulu* for 1991 (January 16, 1992) and 1992 (December 1, 1992), submitted to Honolulu City Council.

Table 24.14-- JAPANESE INVESTMENT IN REAL ESTATE, FOR THE UNITED STATES, HAWAII AND HONOLULU METROPOLITAN STATISTICAL AREA: 1992 AND EARLIER YEARS

Period	United States (mil. dol.)	Hawaii		Honolulu MSA	
		Amount (mil. dol.)	Rank	Amount (mil. dol.)	Rank
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)
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)

NA Not available.

Source: Kenneth Leventhal & Company, *1990 Japanese Investment in United States Real Estate* (1991), pp. 15, 16, and 23; and *1991 Japanese Investment in United States Real Estate* (1992), pp. 16, 17, and 24; and *1992 Japanese Investment in United States Real Estate* (1993), pp. 15 and 17.

BIBLIOGRAPHY

This volume is the 27th of its type published by the Hawaii State Department of Business, Economic Development & Tourism (DBEDT) and its predecessor agencies. The first was *Statistical Abstract of Hawaii, 1962*, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled *The State of Hawaii Data Book* were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. The 1987 edition was the first one issued by DBEDT. All of the volumes issued before 1991 are now out of print, but copies can be consulted in the DBEDT Library, Hawaii State Library, University of Hawaii and community college libraries, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in the underlying reports.

Although most of the series in the *Data Book* are shown only for recent years, many earlier figures appear in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century.

Statistical abstracts have also been published recently for the Big Island, Maui County, Molokai, and Kauai. In December 1992, the Hawaii County Department of Research & Development issued *1992 County of Hawaii Data Book*. A similar work for Maui, *Maui County Data Book*, published by the County of Maui Office of Economic Development and Maui Economic Development Board, Inc., appeared in December 1993. In 1990, the Cooperative Extension Service, College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa produced *The Moloka'i Data Book: A Statistical Abstract*. On Kauai, *Statistical Abstract of the Kauai Economy, 1993 Edition*, prepared by the Kauai County Office of Economic Development, was published in July 1993. H & S Publishing released the sixth edition of its *Kauai Data Book* as well in 1993.

Persons interested in data for other States or the nation as a whole should consult the *Statistical Abstract of the United States* and its companion volumes, the *State and Metropolitan Area Data Book* and *County and City Data Book*. The *Abstract* is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 113th, dated 1993; copies are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The *State and Metropolitan Area Data Book, 1991* and *County and City Data Book, 1988* are sold by the same agency.

**Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK:
1962 TO 1994**

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 <u>1/</u>	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 <u>2/</u>	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	<u>3/</u> 18.00	21,620.00	3,000
1990	667	732	8.00	<u>3/</u> 18.00	22,500.00	3,000
1991	657	717	8.00	<u>3/</u> 18.00	25,312.00	3,000
1992	618	707	8.00	<u>4/</u> 12.00	24,673.00	3,000
1993-94	571	639	8.00	<u>4/</u> 12.00	20,430.00	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.

Source: DBEDT records.

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Early in 1988, the Hawaii State Department of Business, Economic Development and Tourism initiated a pilot program to make *Data Book* tables and selected other statistical series available to anyone with a personal computer and a modem.

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For further information about available data or system specifications, users should call the Information Resources Management Division at (808) 586-2486. For access information through Hawaii FYI call 586-1919 from Oahu or 1-800-252-1132 from the Neighbor Islands.

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

P.O. Box 2359 • Honolulu, Hawaii 96804
Walk in address: 220 South King Street