

THE STATE OF HAWAII

DATA

BOOK

1992

A STATISTICAL ABSTRACT

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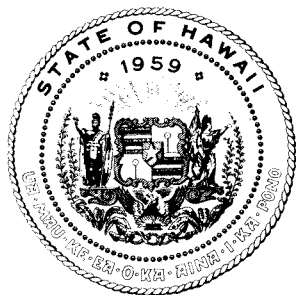
State of Hawaii Data
Book; A Statistical
Abstract

DBEDT

THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

WE'RE IN THE BUSINESS OF HELPING PEOPLE.

P.O. Box 2359 • Honolulu, Hawaii 96804
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1992

A STATISTICAL ABSTRACT

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MARCH 1993

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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 Robert C. Schmitt, State Statistician, with the assistance of Lynn Y. S. Zane, Michele Nishimoto, Minh-Chau Trinh, and Hans Meyer. The camera-ready copy was typed and proofread by Irene S. Fujimori, Judy F. Noda, 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.

Copies of this report are available from the DBEDT Information Resources Management Division, 220 South King Street, 4th floor, Room 405, P. O. Box 2359, Honolulu, Hawaii 96804. The price per copy is \$8.00 in Hawaii, \$12.00 air-mailed postpaid to the Mainland United States, \$15.00 air-mailed postpaid to Canada, \$20.00 air-mailed postpaid to Mexico, and \$40.00 air-mailed postpaid to all other countries.

ABOUT THIS BOOK

The Department of Business, Economic Development & Tourism is pleased to present the 1992 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 26th 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.

The Data Book was also the product of many individuals, particularly Robert C. Schmitt, whose name has by now become synonymous with this annual endeavor. Mr. Schmitt, who retired on February 28, 1992, after 39 years of exemplary public service, volunteered many hours of his time to the completion of this abstract. To him, we extend our heartfelt gratitude and aloha.



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

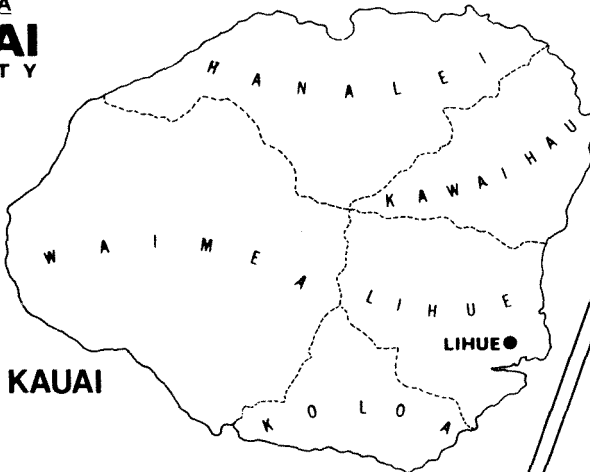
FRENCH FRIGATE SHOALS

NECKER ISLAND

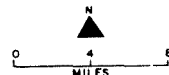
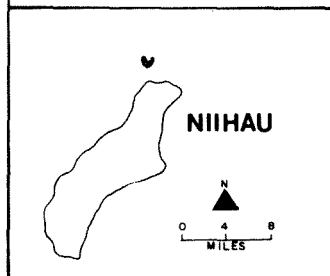
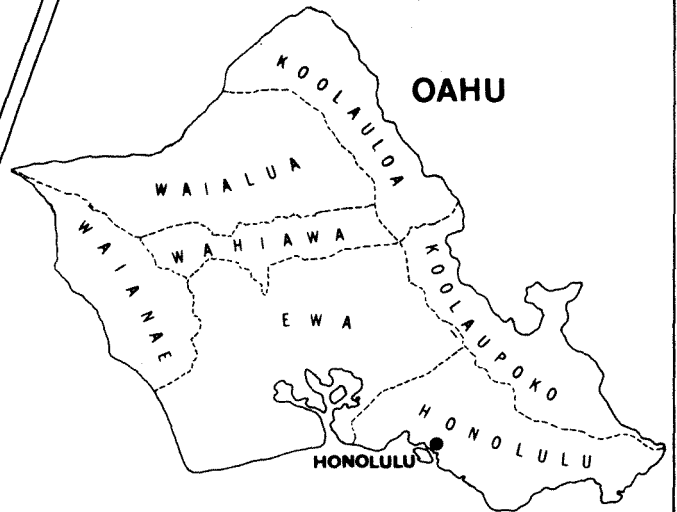
NOTE: The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession) are part of the Honolulu District.

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.

INSET A KAUAI COUNTY

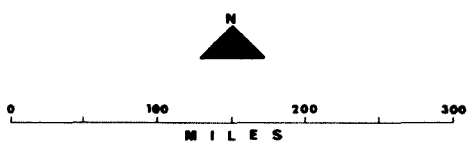
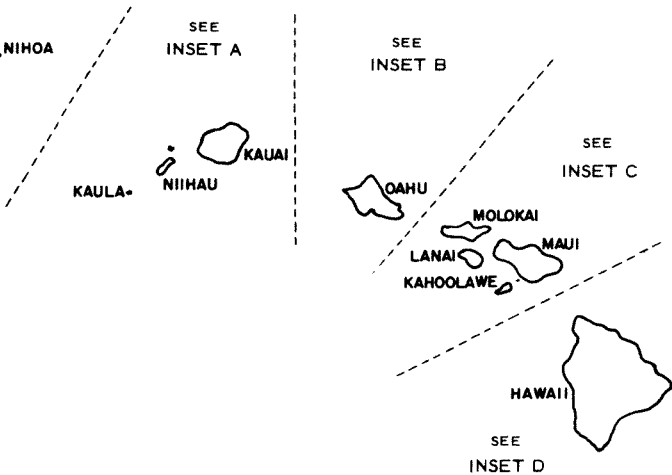
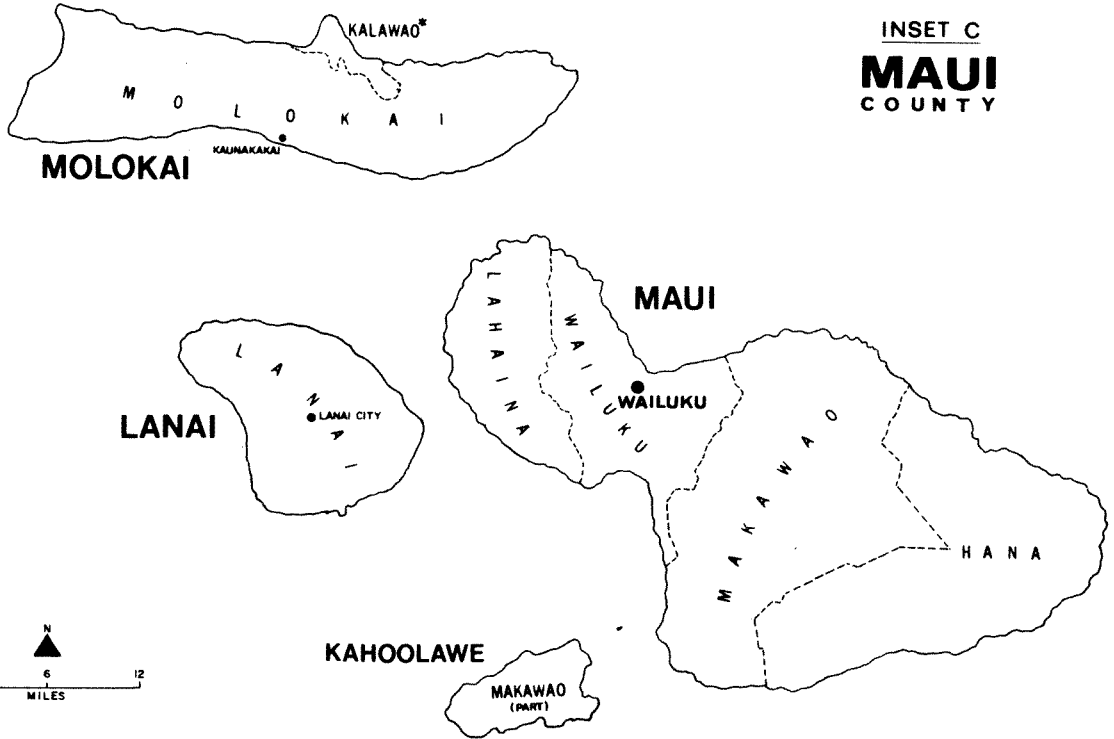


INSET B HONOLULU CITY AND COUNTY



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

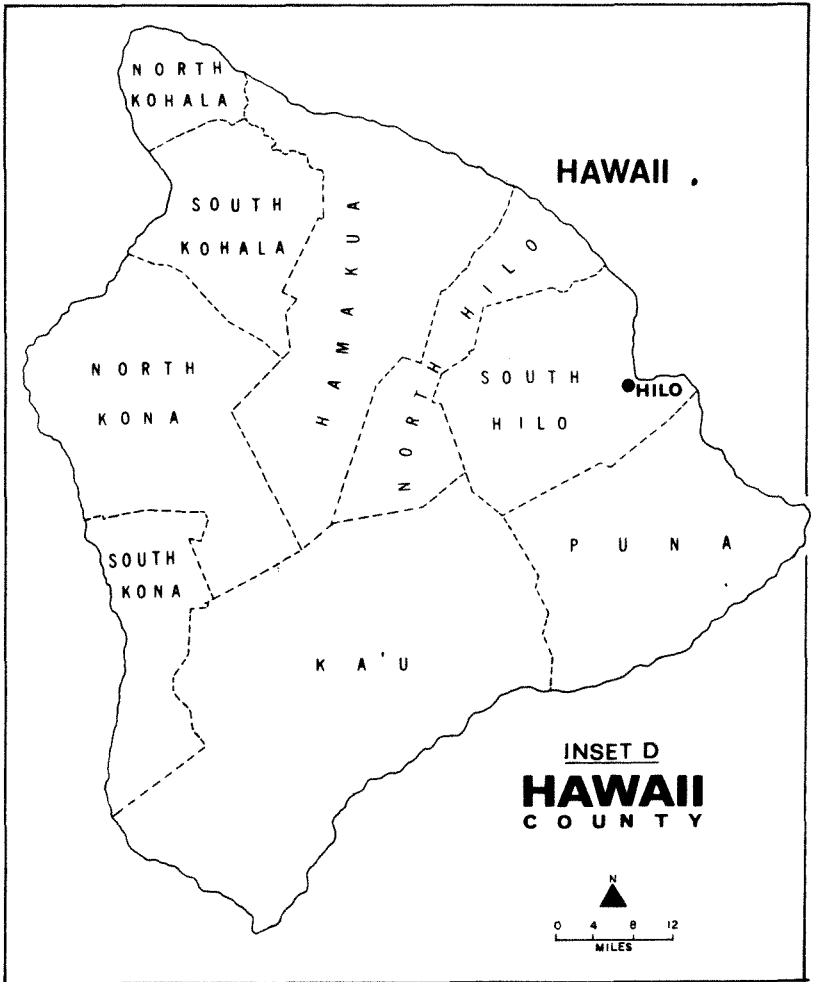
**INSET C
MAUI
COUNTY**



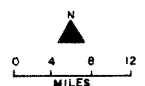
STATE OF HAWAII

DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM

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							
1 short ton = 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.

Final results of the 1990 census reported a Statewide resident population 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 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 1990 de facto population--which included over 158,000 visitors present on an average day in that year but excluded 18,000 residents temporarily absent--was 1,248,360. Almost 73 percent of the 1990 de facto total was on Oahu, giving that island a density of 1,513 persons per square mile. 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: 1992.

Table 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 and 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 2.-- CHARACTERISTICS OF THE POPULATION: 1831 TO 1990

[See headnote to table 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	21.6	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; Hawaii State Data Center, 1990 census tapes.

Table 3.-- RESIDENT POPULATION, BY MILITARY STATUS: 1980 TO 1992

[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 ..	1,113,900	55,200	1,058,700	60,600	998,100
1991: July 1 ..	1,136,600	54,700	1,081,900	63,300	1,018,600
1992: July 1 ..	1,159,600	53,000	1,106,600	57,000	1,049,600

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 4.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS:
1980 TO 1992

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 ...	1,113,900	18,000	1,258,000	162,100	1.129
1991: July 1 ...	1,136,600	16,600	1,277,600	157,600	1.124
1992: July 1 ...	1,159,600	(NA)	1,300,600	(NA)	1.122

NA Not available.

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.

Source: Federal-State Cooperative Program for Population Estimates, intercensal and postcensal estimates.

Table 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 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 <u>1/</u>
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	1,113,900	839,400	121,500	51,600	101,400
1991: July 1	1,136,600	852,000	126,400	53,300	105,000
1992: July 1	1,159,600	864,800	130,500	55,300	109,000

1/ Including Kalawao County (Kalaupapa Settlement).

Source: Federal-State Cooperative Program for Population Estimates.

Table 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	1,130,500	852,300	109,600	54,100	114,400
1985: July 1	1,137,800	854,800	112,500	55,200	115,400
1986: July 1	1,167,500	871,000	116,600	59,700	120,100
1987: July 1	1,186,500	881,000	120,400	62,100	123,100
1988: July 1	1,200,400	888,200	122,200	64,200	125,700
1989: July 1	1,245,600	905,900	132,300	68,100	139,200
1990: April 1 ...	1,248,300	908,000	135,100	68,000	137,300
July 1	1,258,000	913,200	136,500	69,000	139,300
1991: July 1	1,277,600	919,200	143,200	71,500	143,700
1992: July 1	1,300,600	932,100	147,300	73,600	147,700

1/ Including Kalawao County (Kalaupapa Settlement).

Source: Federal-State Cooperative Program for Population Estimates.

Table 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; Hawaii State Data Center estimates of de facto population based on Hawaii Visitors Bureau survey data on visitors present and residents absent.

Table 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 7; density computed.

Table 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 <u>1/</u>	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
Lanai	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 <u>2/</u>	37,329	41,562	43,886	11.3	5.6
Waianae	24,077	31,487	37,411	30.8	18.8
Ewa <u>2/</u>	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, 1980 Census of Population, Number of Inhabitants, Hawaii, PC80-1-A13 (October 1981), table 4 and 1990 census printouts transmitted February 21, 1991.

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

Continued on next page.

Table 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 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 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 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

NA Not available.

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).

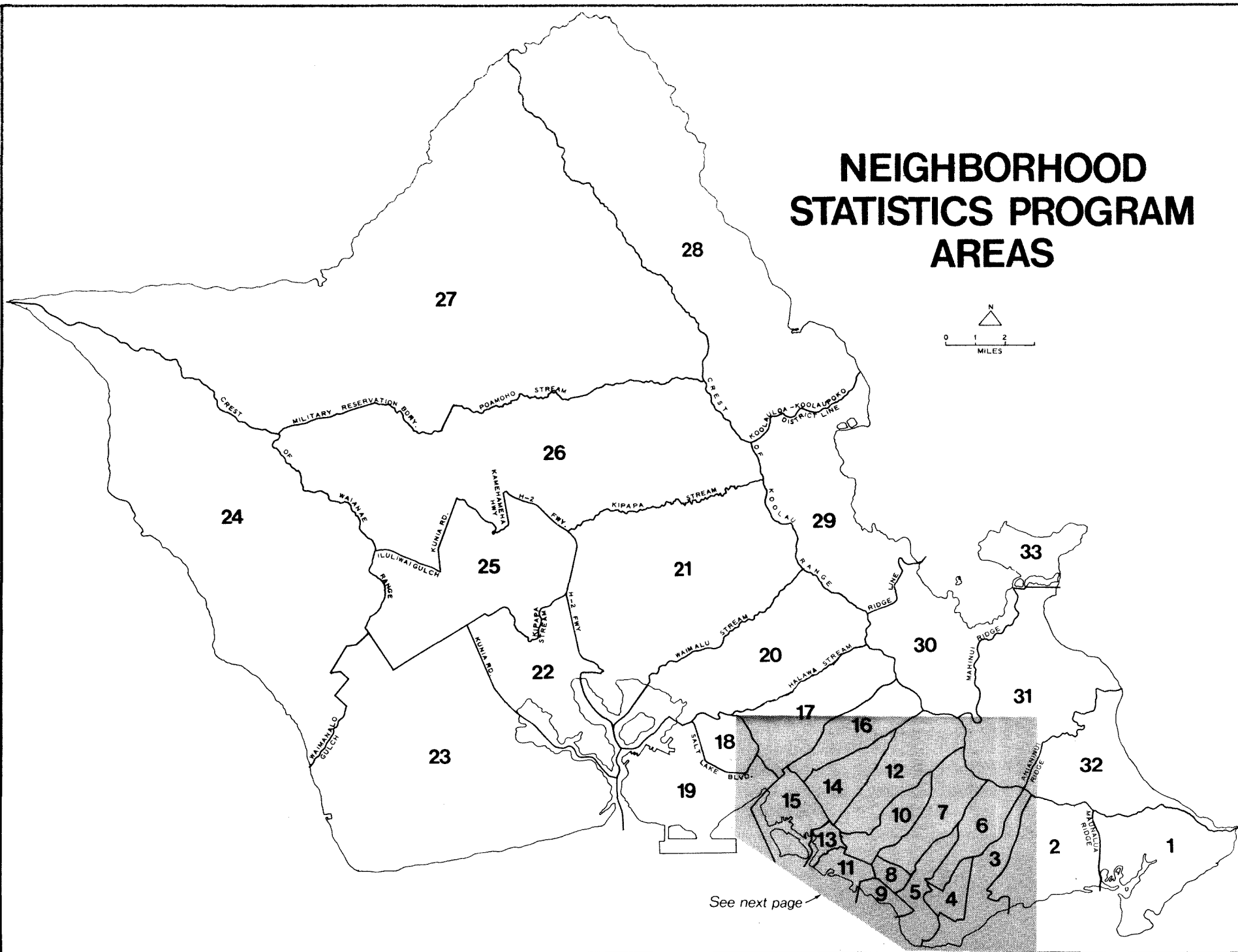
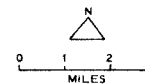
3/ The City and County of Honolulu consists of Oahu and the Northwestern Hawaiian Islands (except Midway).

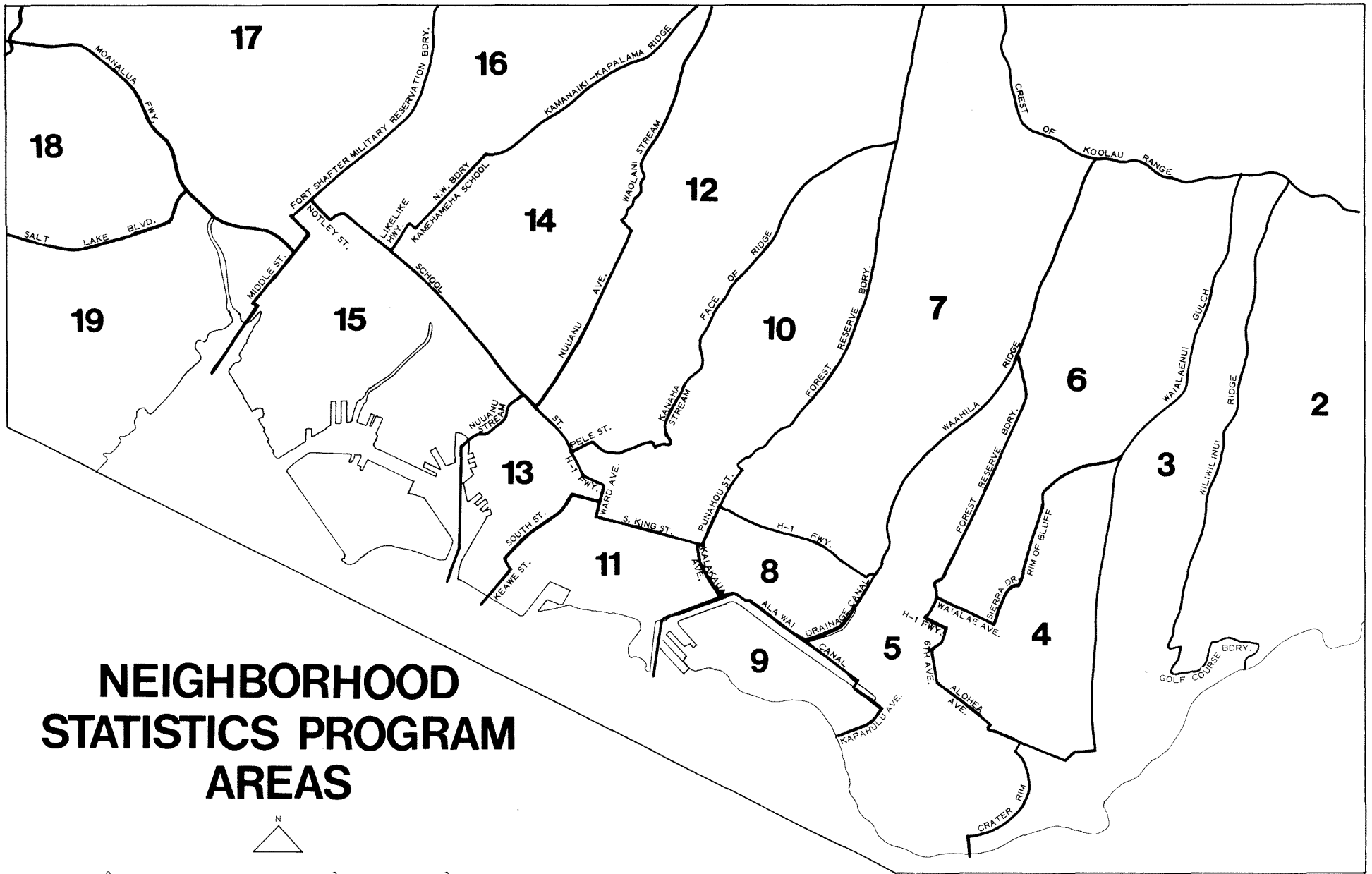
4/ The Honolulu CDP consists of Honolulu District, comprising the area between Red Hill and Makapuu Point, south and southwest of the crest of the Koolau Mountains, and the Northwestern Hawaiian Islands (except Midway). The 1990 count shown here has been corrected from the published total.

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





NEIGHBORHOOD STATISTICS PROGRAM AREAS

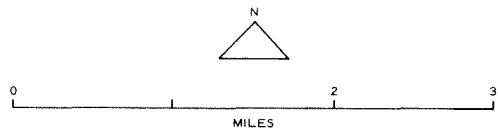


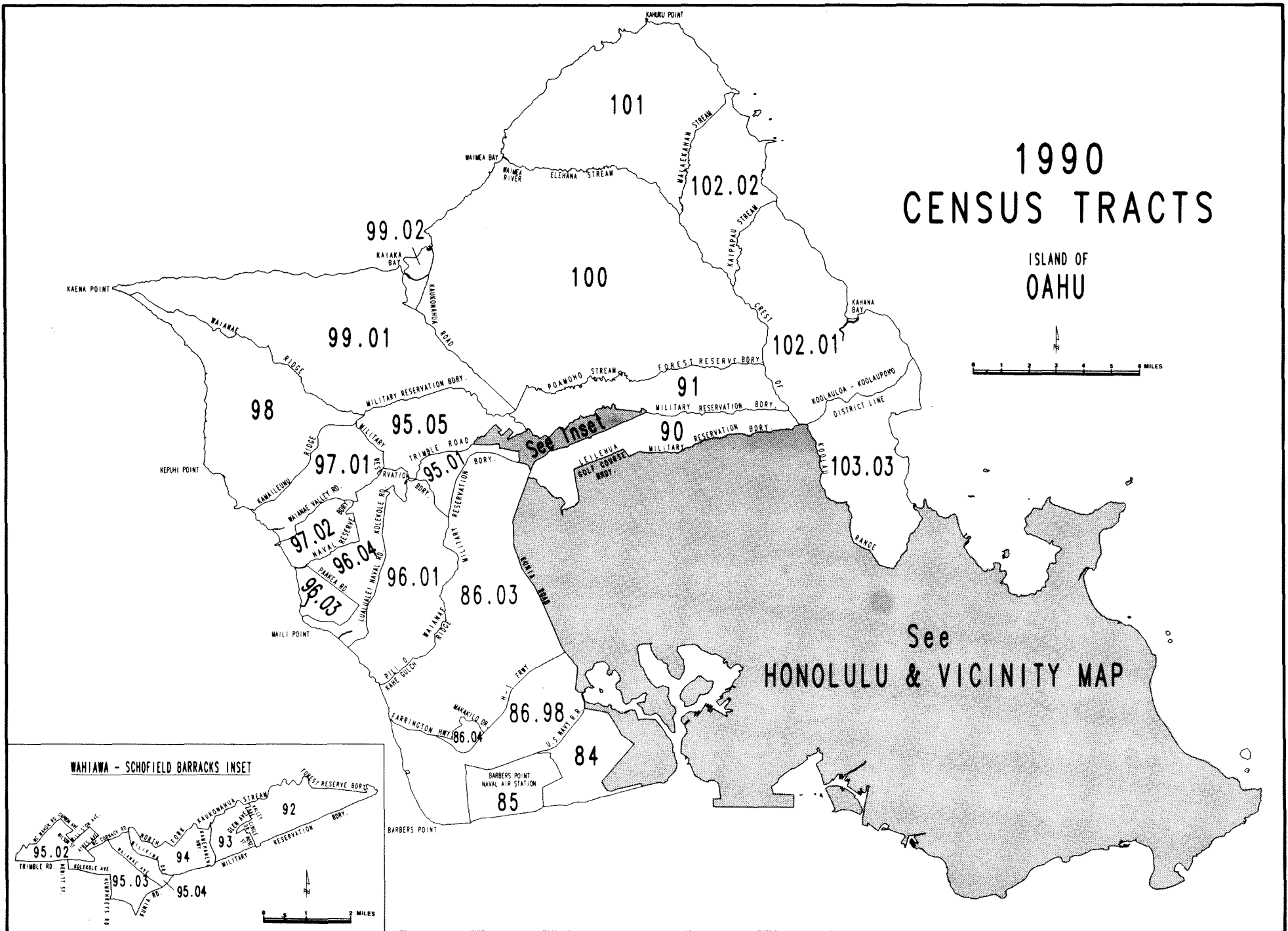
Table 14.-- CHARACTERISTICS OF OAHU NEIGHBORHOODS: 1990

Neighborhood (see maps on pp. 26-27)	Land area (acres)	Resident population	Households	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

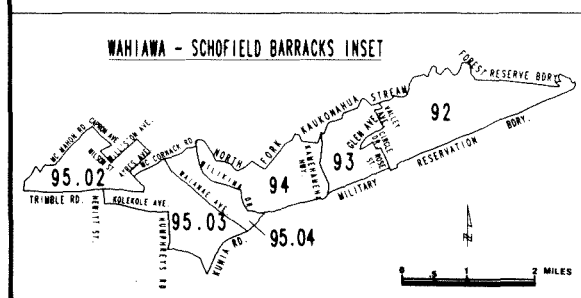
Source: Tabulations from U.S. Bureau of the Census, Summary Tape File 1A, provided by Honolulu Department of General Planning.

1990 CENSUS TRACTS

ISLAND OF OAHU

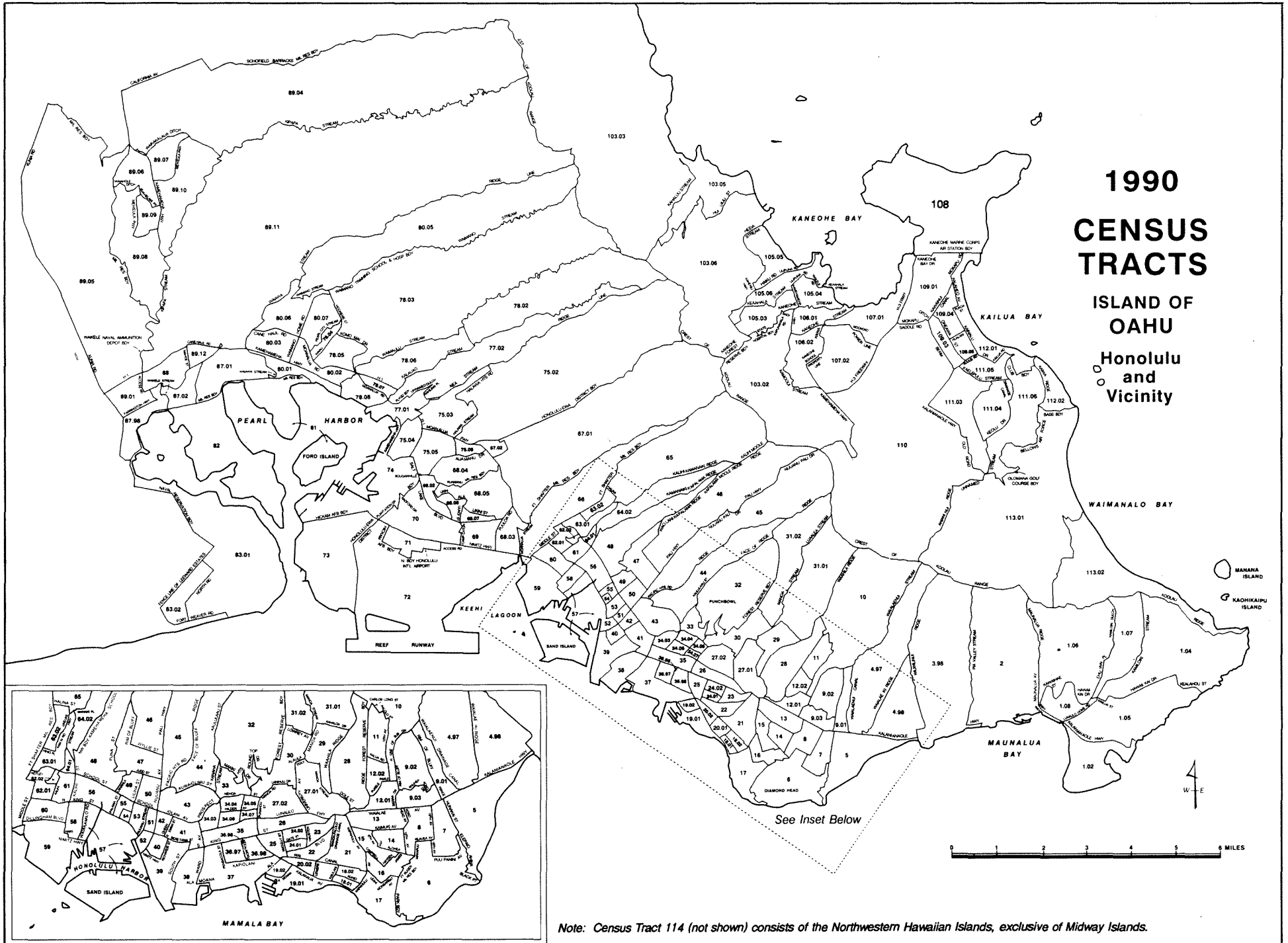


WAIANA'A - SCHOFIELD BARRACKS INSET



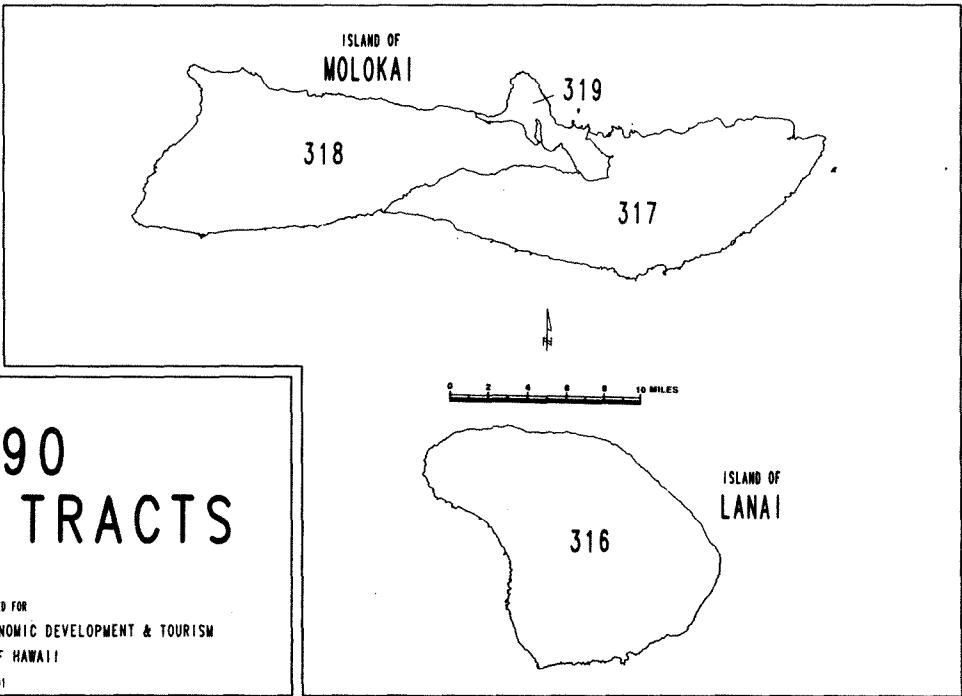
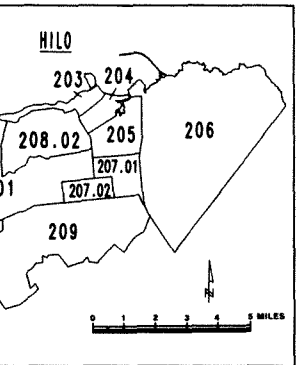
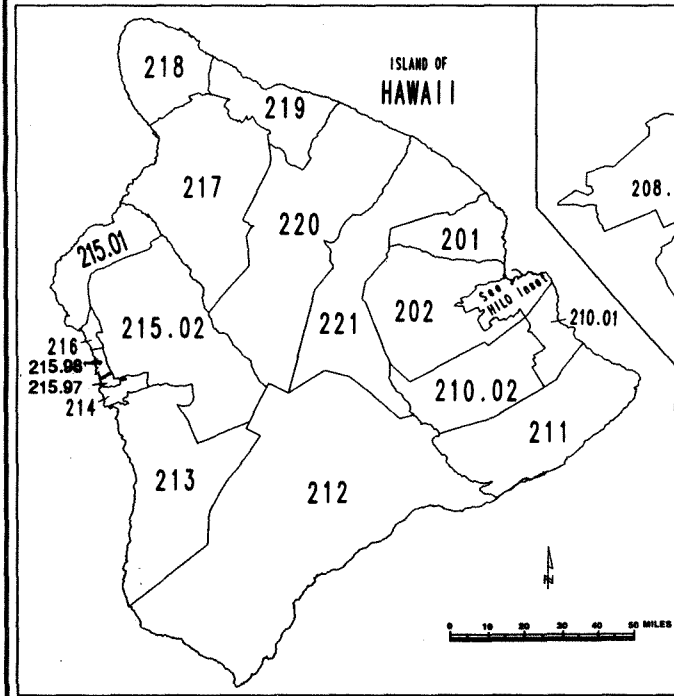
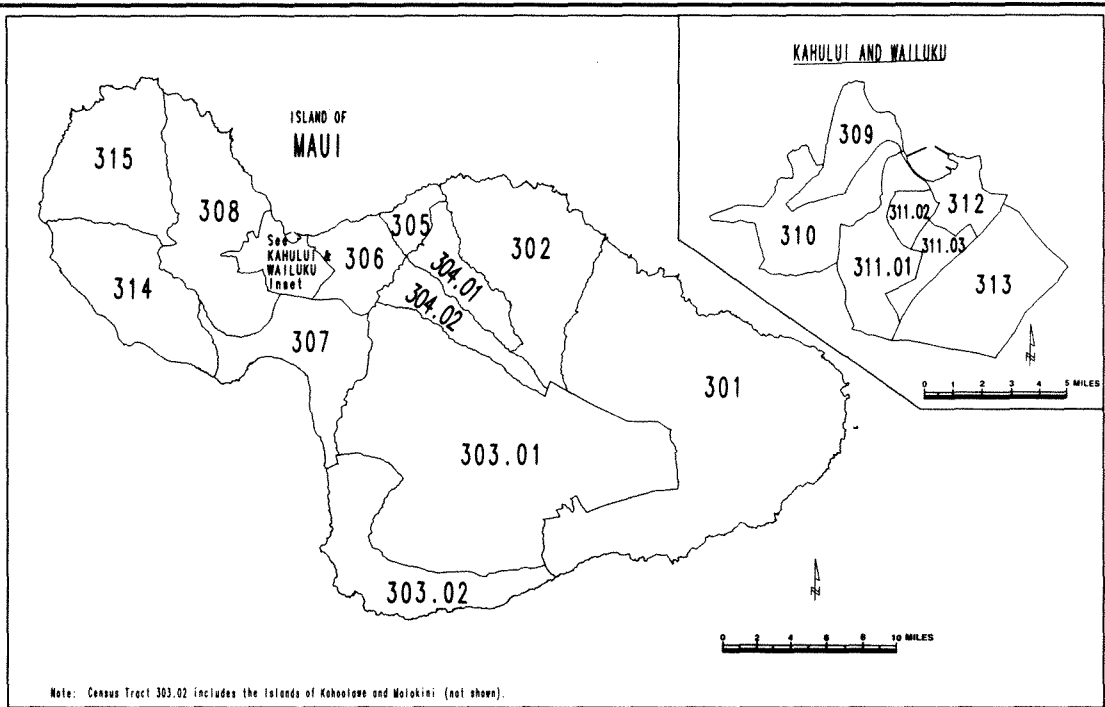
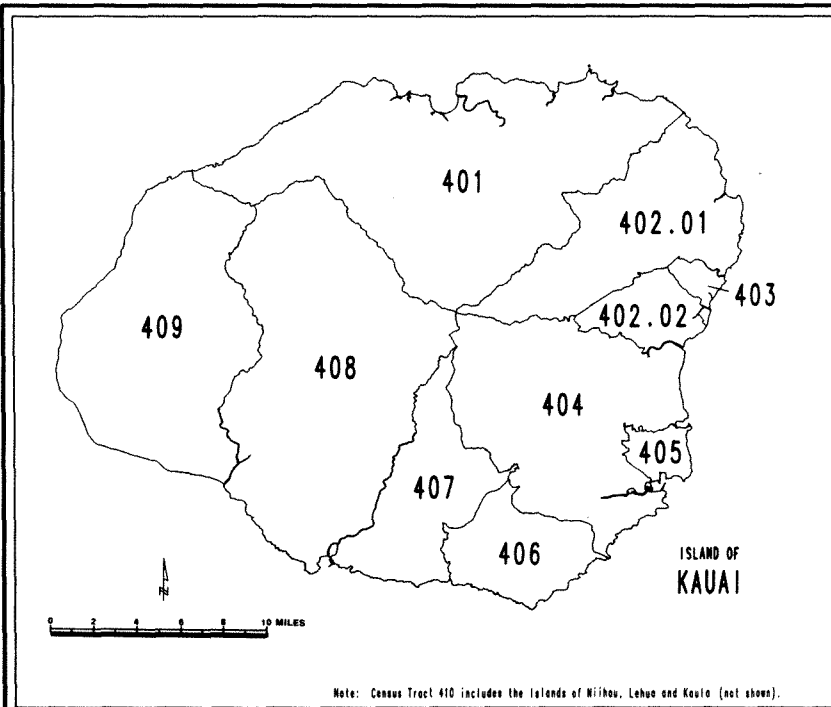
1990 CENSUS TRACTS

ISLAND OF
OAHU
Honolulu
and
Vicinity



See Inset Below

Note: Census Tract 114 (not shown) consists of the Northwestern Hawaiian Islands, exclusive of Midway Islands.



**1990
CENSUS TRACTS**

PREPARED FOR
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
STATE OF HAWAII

1991

Table 15.-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990

[See maps, pp. 6-7 and 29-30]

District <u>1</u> / and census tract	Popu- lation	House- holds	District <u>1</u> / and census tract	Popu- lation	House- holds
Total	836,231	265,304	26	4,957	2,103
Honolulu	377,059	137,801	27.01	4,340	622
1.02	1,674	545	27.02	4,998	2,000
1.04	8,376	2,455	28	4,075	1,431
1.05	5,251	1,591	29	1,383	438
1.06	6,292	2,249	30	4,236	1,531
1.07	3,009	908	31.01	3,851	1,246
1.08	2,830	1,008	31.02	3,537	1,108
2	5,742	1,838	32	853	314
3.98	5,617	1,833	33	876	290
4.97	2,771	949	34.03	5,177	2,652
4.98	3,372	1,100	34.04	4,757	2,284
5	3,744	1,353	34.05	3,080	1,768
6	1,311	491	34.06	5,924	2,863
7	2,993	971	34.07	1,136	620
8	3,856	1,233	35	4,688	2,364
9.01	2,334	906	36.97	2,369	1,195
9.02	3,779	1,338	36.98	5,235	3,220
9.03	2,760	973	37	2,325	1,305
10	3,194	1,005	38	721	368
11	4,072	1,132	39	181	24
12.01	3,118	1,127	40	991	626
12.02	3,081	1,020	41	4,742	2,150
13	4,488	1,572	42	2,672	1,508
14	2,595	855	43	5,632	2,312
15	3,664	1,243	44	5,429	1,594
16	3,911	1,373	45	5,264	2,061
17	2,536	1,384	46	3,687	1,212
18.01	1,307	723	47	4,837	1,567
18.02	4,411	2,518	48	5,991	1,645
19.01	1,190	702	49	2,978	948
19.02	6,000	3,568	50	4,724	1,599
20.01	3,037	1,714	51	2,399	1,133
20.02	3,823	2,183	52	2,480	1,169
21	3,691	1,648	53	4,208	1,490
22	7,292	3,552	54	1,609	402
23	5,687	2,659	55	2,144	622
24.01	3,016	1,356	56	6,185	1,877
24.02	3,285	1,645	57	1,867	624
25	4,229	2,144	57.99 <u>2</u> /	298	-
			58	3,404	1,073

Continued on next page.

Table 15.-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990 - Con.

District 1/ and census tract	Population	Households	District 1/ and census tract	Population	Households
59	3,570	782	78.07	5,759	2,768
60	5,857	1,367	78.08	2,960	959
61	3,575	794	80.01	1,610	501
62.01	5,040	1,228	80.02	2,914	866
62.02	2,390	618	80.03	5,055	1,697
63.01	3,433	818	80.05	7,313	1,975
63.02	2,781	560	80.06	5,383	1,463
64.01	1,827	379	80.07	5,904	1,600
64.02	5,680	1,331	81	2,384	624
65	4,077	974	82	-	-
66	2,952	911	83.01	5,786	1,513
67.01	6,894	1,909	83.02	6,699	1,387
67.02	2,758	868	84	9,677	2,696
68.02	5,845	1,386	85	4,529	1,313
68.03	36	1	86.03	6,509	2,086
68.04	8,835	2,327	86.04	4,015	1,026
68.05	4,326	1,569	86.98	5,521	1,333
68.06	1,922	548	86.99 2/	23	-
68.07	10,084	4,000	87.01	7,598	1,715
69	3,182	925	87.02	4,161	969
70	4,796	1,441	87.98	4,471	1,324
71	2,618	781	88	6,172	1,415
72	1,003	62	89.01	8,084	2,079
114	-	-	89.04	5,183	1,750
Ewa	230,189	64,948	89.05	7,561	2,086
73	6,689	1,858	89.06	4,025	1,287
73.99 2/	53	-	89.07	4,560	1,304
74	3,633	711	89.08	6,688	1,910
74.99 2/	4,331	-	89.09	3,779	1,145
75.02	1,236	21	89.10	10,444	3,174
75.03	4,952	1,481	89.11	11,893	4,055
75.04	3,080	814	89.12	2,193	461
75.05	5,189	1,715	Wahiawa	43,886	10,849
75.06	1,367	400	90	2,600	702
77.01	4,206	1,170	91	4,303	1,024
77.02	4,689	1,456	92	7,930	2,461
78.03	9,136	2,703	93	4,214	1,382
78.04	2,034	584	94	5,242	1,776
78.05	5,300	1,687	95.01	3,532	873
78.06	5,441	1,867	95.02	7,307	1,472

Continued on next page.

Table 15.-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990 - Con.

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

1/ 1980 boundaries.

2/ Persons living aboard vessels.

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

Table 16.-- RESIDENT POPULATION AND HOUSEHOLDS FOR HAWAII, KALAWAO, KAUAI,
AND MAUI COUNTIES, BY DISTRICTS AND CENSUS TRACTS: 1990

[See maps, pp. 6-7 and 31]

County, district, and census tract	Popu- lation	House- holds	County, district, and census tract	Popu- lation	House- holds
HAWAII			Hamakua	5,545	1,796
Total	120,317	41,461	219	3,681	1,209
South Hilo	44,639	15,558	220	1,864	587
201	5,102	1,705	North Hilo	1,541	506
202	1,871	579	221	1,541	506
203	3,723	1,633	KAUAI		
204	3,612	1,410	Total	51,177	16,295
205	5,576	2,096	Hanalei	4,631	1,628
206	3,902	1,355	401	4,631	1,628
207.01	4,399	1,559	Kawaihau	15,627	4,938
207.02	4,693	1,460	402.01	2,178	656
208.01	3,062	868	402.02	6,622	2,151
208.02	5,081	1,746	403	6,827	2,131
209	3,618	1,147	Lihue	10,663	3,330
Puna	20,781	7,136	404	5,384	1,345
210.01	6,844	2,262	405	5,275	1,985
210.02	7,235	2,603	405.99 <u>1</u> /	4	-
211	6,702	2,271	Koloa	11,368	3,689
Ka'u	4,438	1,530	406	4,900	1,617
212	4,438	1,530	407	6,468	2,072
South Kona	7,658	2,591	Waimea	8,888	2,710
213	4,998	1,654	408	2,913	919
214	2,660	937	409	5,745	1,749
North Kona	22,284	7,898	410	230	42
215.01	6,486	2,166	KALAWAO		
215.02	2,944	1,058	Total	130	62
215.97	104	33	Kalawao	130	62
215.98	3,089	1,142	319	130	62
216	9,661	3,499			
South Kohala	9,140	3,095			
217	9,140	3,095			
North Kohala	4,291	1,351			
218	4,291	1,351			

Continued on next page.

Table 16.-- RESIDENT POPULATION AND HOUSEHOLDS FOR HAWAII, KALAWAO, KAUAI, AND, MAUI COUNTIES, BY DISTRICTS AND CENSUS TRACTS: 1990 - Con.

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

^{1/} Persons living aboard vessels.

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

Table 17.-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR
 WAIKIKI: 1960 TO 1990

[For definitions of resident and de facto population, see table 4, footnotes 1 and 3. For earlier years, 1920-1950, see Data Book 1987, table 14. Waikiki is bounded by the Ala Wai Canal, Kapāhulu 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 18.-- POPULATION AND LAND AREA, URBAN AND RURAL, BY COUNTIES: 1990

Subject	State total	Hono-lulu	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 CPH-L-79, and records.

Table 19.-- CENTERS OF POPULATION, BY COUNTIES: 1990

County	North latitude (degrees)	West longitude (degrees)	Approximate location
State of Hawaii ..	21.1756	157.5708	5 mi. SE of Koko Head
Hawaii County	19.6898	155.4060	20 mi. W of Hilo
Maui County	20.8722	156.4547	0.6 mi. SW of Wailuku PO
Honolulu County	21.3748	157.8993	0.2 mi. NE of Red Hill Elementary School
Kauai County	22.0144	159.4509	4.4 mi. N of Knudsen Gap

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

Table 20.-- 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	30.8 31.7	32.6 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 Summary Tape File 1A, tabulated by Hawaii State Data Center.

Table 21.-- ESTIMATED RESIDENT POPULATION, BY AGE AND SEX:
 JULY 1, 1991

[Numbers in thousands. Data include armed forces in State]

Age	Both sexes	Males	Females	Percent change, 1990-91
All ages	1,135	577	558	2.4
Under 5 years	89	46	43	4.6
5 to 17 years	199	103	96	1.4
18 to 24 years	120	67	54	-1.8
25 to 44 years	388	200	188	2.6
45 to 64 years	209	101	108	3.4
65 years and over	129	61	68	4.4
Median age (years) <u>1/</u>	32.9	32.0	33.9	...

1/ The U.S. median age was 33.1 years. Hawaii ranked 32nd among the 50 States.

Source: U.S. Bureau of the Census, Release CB92-93 (April 16, 1992).

Table 22.-- RESIDENT POPULATION, BY AGE AND SEX, BY COUNTIES: 1990

Subject	State total	City & Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Mau i
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	61.1	33.9	33.4
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, Summary Tape File 1A, tabulated by Hawaii State Data Center.

Table 23.-- ETHNIC STOCK BY MILITARY STATUS: 1989

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,877 persons]

Ethnic stock <u>1/</u>	Total		Armed forces <u>2/</u>	Military dependents <u>2/</u>	Other civilians
	Number	Percent			
All groups	1,084,458	100.0	45,048	83,368	956,042
Unmixed	707,692	65.3	40,830	65,648	601,210
Caucasian	252,180	23.2	28,896	42,762	180,522
Japanese	232,630	21.4	541	1,371	230,719
Chinese	45,482	4.2	-	252	45,229
Filipino	114,181	10.5	1,979	7,210	104,991
Hawaiian	8,843	0.8	-	111	8,731
Korean	15,398	1.4	107	1,616	13,675
Black	25,552	2.4	8,883	11,400	5,268
Puerto Rican	4,594	0.4	332	294	3,967
Samoan	3,491	0.3	-	41	3,450
Other unmixed or unknown	5,341	0.5	92	591	4,658
Mixed	376,768	34.7	4,217	17,721	354,830
Part Hawaiian	198,147	18.3	355	2,442	195,350
Non Hawaiian	178,621	16.5	3,862	15,279	159,480

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 1989 survey. Actual totals for these groups were 36,765 military personnel and 60,274 dependents.

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

Table 24.-- ETHNIC STOCK, BY COUNTIES: 1989

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,877 persons]

Ethnic stock <u>1/</u>	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Mau i County
All groups	1,084,458	809,678	115,128	49,615	110,038
Unmixed	707,692	554,175	62,472	26,500	64,545
Caucasian	252,180	194,353	24,623	6,117	27,088
Japanese	232,630	184,641	22,299	8,888	16,802
Chinese	45,482	43,015	1,201	477	788
Filipino	114,181	77,458	9,451	10,014	17,259
Hawaiian	8,843	4,268	2,579	573	1,423
Korean	15,398	14,222	927	54	195
Black	25,552	25,089	53	58	352
Puerto Rican	4,594	2,841	1,035	238	480
Samoan	3,491	3,382	109	0	0
Other unmixed and unknown	5,341	4,906	195	81	158
Mixed	376,768	255,503	52,656	23,116	45,493
Part Hawaiian	198,147	126,366	32,108	12,489	27,184
Non Hawaiian	178,621	129,137	20,548	10,627	18,309

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.

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

Table 25.-- 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 <u>1/</u>	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 <u>2/</u> .	2,281	16,566	0.2	1.5	} -16.0
Other race	42,537	21,083	4.4	1.9	
Hispanic origin <u>3/</u>	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, Release CB91-42 (February 1991) and Summary Tape File 1A.

Table 26.-- 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>	102,714	Vietnamese	5,277
Irish <u>4/</u>	65,473	Hawaiian <u>6/</u>	156,812
Portuguese	57,125	Samoaan	14,971
Puerto Rican	16,432	Tongan	3,283
Chinese <u>5/</u>	95,899	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/ Excludes Bavarian, Prussian, Saxon, and West German (169).

4/ Excludes Northern Irish and Celtic (114).

5/ Excludes 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 27.-- 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

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

Language spoken at home	Total	Speak English --		
		Very well	Well	Not well or not at all
Persons 5 years and over ..	1,026,209	...	...	...
Speak only English at home	771,485	...	...	...
Speak a language other than English at home	254,724	130,306	76,827	47,591
Spanish	13,729	10,327	2,409	993
Asian or Pacific Island language <u>1/</u>	226,002	108,139	72,236	45,627
Other language <u>2/</u>	14,993	11,840	2,182	971

1/ Includes Tagalog (55,341), Chinese (26,366), Japanese (69,587), Korean (14,636), Vietnamese (4,620) and also Ilocano, Visayan, Hawaiian, and Samoan (not separately reported).

2/ Includes German (4,066), French (3,921), and Portuguese (1,110).

Source: U.S. Bureau of the Census, 1990 Census of Population and Housing, Summary Tape File 3A.

Table 29.-- 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, Summary Tape File 1A, tabulated by the Hawaii State Data Center.

Table 30.-- 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 Summary Tape File 1A, tabulated by Hawaii State Data Center.

Table 31.-- INTERCENSAL ESTIMATES OF HOUSEHOLDS: 1980 TO 1990

Date	Households (1,000)	Date	Households (1,000)
1980: April 1 (census) ..	294	1986: July 1	329
1981: July 1	301	1987: July 1	337
1982: July 1	307	1988: July 1	344
1983: July 1	312	1989: July 1	350
1984: July 1	318	1990: April 1 (census) ..	356
1985: July 1	324		

Source: U.S. Bureau of the Census, unpublished estimates.

Table 32.-- 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 33.--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 <u>1/</u>		
	Male	Fe- male	Sex ratio	Male	Fe- male	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 <u>2/</u>	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 Hawaii State Data Center, census tapes; 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 34.-- 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 Summary Tape File 1A, tabulated by Hawaii State Data Center,

Table 35.-- CHURCH MEMBERSHIP, FOR SELECTED DENOMINATIONS:
1982 AND 1987

Denomination	1982 ^{1/}	1987
Buddhist:		
Honpa Hongwanji	21,500	10,308
Christian:		
Assembly of God	7,000	12,681
Church of Jesus Christ of Latter-Day Saints	31,027	45,000
Episcopal	10,541	10,876
Roman Catholic	209,000	220,000
Southern Baptist	11,340	13,926
United Church of Christ	17,485	18,540
United Methodist	6,242	6,618

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

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

Table 36.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1980 AND 1980 TO 1990

Period and component	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
1970 TO 1980 <u>1/</u>						
Net change	+194,778	+1,911	+2,165	+190,702	+19,070	100.0
Natural increase	118,654	-447	36,233	82,868	8,287	43.5
Live births	161,831	-	37,234	124,597	12,460	...
Deaths	43,177	447	1,001	41,729	4,173	...
Net mil. separations <u>2/</u>	-	-1,815	-	+1,815	+181	1.0
Net migration <u>3/</u>	+76,124	+4,173	-34,068	+106,019	+10,602	55.6
1980 TO 1990 <u>4/</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	+31,390	-1,853	-38,095	+71,338	+7,134	47.8

1/ April 1, 1970 to March 31, 1980.

2/ Separations less inductions for armed forces.

3/ Includes error of closure.

4/ April 1, 1980 to June 30, 1990.

Source: Estimated by Hawaii State Data Center from census counts, DBED 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 37.-- 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	2442	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 38.-- INTENDED RESIDENTS ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL AND MILITARY STATUS: 1986 TO 1991

Year	All intended residents	Westbound by military status				Eastbound and northbound <u>1/</u>
		Total	Military service	Military dependent	All other	
1986	(NA)	21,650	8,913	7,991	4,746	(NA)
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

NA Not available.

1/ Not available by military status.

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

Table 39.-- CHARACTERISTICS OF INTENDED RESIDENTS ARRIVING IN HAWAII: 1991

Characteristics	Persons		Characteristics	Westbound	
	West-bound	Other <u>1/</u>		Party heads	Persons
Previous residence	17,430	7,260	Occupation of head ..	6,520	17,430
United States	17,100	1,080	Management	420	1,140
Foreign	320	6,180	Professional	830	2,220
Age:			Military service ..	2,480	6,630
Median (years)	29.5	(NA)	Mil. dependent	540	1,440
60 and over	520	(NA)	Student	360	950
Males per 100 females ..	1.66	(NA)	Retired	120	340
			All others	1,770	4,710

NA Not available.

1/ Eastbound or northbound.

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

Table 40.-- IMMIGRANTS ADMITTED, BY COUNTRIES
OF BIRTH: 1987 TO 1991

[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	1987	1988	1989 <u>1/</u>	1990	1991
All countries	6,796	6,637	7,086	7,858	7,766
Canada	131	139	140	158	159
China and Taiwan	678	579	766	664	669
Japan	265	285	333	335	370
Korea	912	913	828	721	495
Philippines	3,784	3,410	3,587	4,167	4,328
Vietnam	144	330	350	543	498
Other countries <u>2/</u>	882	981	1,082	1,270	1,247

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/ Includes Hong Kong (256 in 1991), Western Samoa (99), and all other countries.

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

Table 41.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE:
1986 TO 1991

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	Vietnam	Other countries
1986	4,760	286	594	2,669	105	(1/)	1,106
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

1/ Included with "other countries."

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

Table 42.-- 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 43.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1988 AND 1989

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 17,024 persons 1 year old and over in 1988 and 17,877 persons 1 year old and over in 1989]

Place of residence one year earlier	All groups	Armed forces <u>1/</u>	Military dependents <u>1/</u>	Other civilians
1988				
Population 1 and over	1,032,703	38,723	64,118	929,862
Same house	863,570	23,505	44,625	795,440
Different house, same island	101,442	6,602	7,407	87,433
Different island	5,832	180	11	5,641
Different state	38,532	6,484	9,457	22,591
U.S. territory or possession	1,704	145	182	1,377
Different country	8,812	1,281	872	6,659
Previous residence not reported .	12,811	526	1,564	10,721
Migrants <u>2/</u>	49,048	7,910	10,511	30,627
Percent of number reporting ...	4.8	20.7	16.8	3.3
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

1/ Armed forces and military dependents were greatly overrepresented in the 1989 survey. Actual totals for these groups were 36,765 military personnel and 60,274 dependents.

2/ From different state, territory, or country.

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

Table 44.-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS: 1988 AND 1989

[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 17,024 persons in 1988 and 17,877 persons in 1989. Excludes persons living in institutions or barracks, in Kalawao, or on Niihau]

Likelihood of out-migration	All groups	Armed forces <u>1/</u>	Military dependents <u>1/</u>	Other civilians
1988				
Total	1,048,702	38,815	67,323	942,564
Almost certain to be living in Hawaii	965,535	26,893	47,931	890,711
Some possibility of living elsewhere	23,059	1,512	3,203	18,344
A good chance of living elsewhere ...	12,250	1,865	3,431	6,954
Almost certain to be living elsewhere	34,484	8,028	11,259	15,197
Not reported	13,374	517	1,499	11,358
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

1/ Armed forces and military dependents were greatly overrepresented in the 1989 survey. Actual 1989 totals for these groups were 36,765 military personnel and 60,274 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 1991 numbered 19,880, or 17.5 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 96.7 percent of all babies were born in hospitals in 1991, and 18.3 percent were born to military couples. More than one out of four births was to an unmarried woman. There were 7,409 fetal deaths in 1991, including 5,692 elective abortions. Marriages numbered 17,764 in 1991, with over 43 percent accounted for by nonresidents. Divorces reached a 1991 total of 5,184. 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 2,726 physicians and surgeons, 906 dentists, 8,552 professional nurses, and 606 pharmacists licensed and living in Hawaii as of February 1992. 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: 1992 contain data for the nation as a whole.

Table 45.-- BIRTHS AND DEATHS: 1970 TO 1991

Calendar year	Resident births <u>1/</u>	Resident deaths <u>1/</u>	Rates per 1,000 resident population <u>2/</u>		Rates per 1,000 live births <u>3/</u>		
			Births	Deaths	Illegitimate births	Fetal deaths <u>4/</u>	Infant deaths <u>5/</u>
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

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 46.-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1989 TO 1991

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians ^{1/}			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1989	19,428	-	19,428	3,816	15,612	3,816
1990	20,528	-	20,528	4,091	16,437	4,091
1991	19,985	-	19,985	3,665	16,320	3,665
Deaths:						
1989	6,730	48	6,682	78	6,604	126
1990	7,055	40	7,015	78	6,937	118
1991	7,041	133	6,908	82	6,826	215
Birth rates: ^{2/}						
1989	15.6	0	16.3	63.3	13.8	32.7
1990	16.3	0	17.1	68.3	14.4	35.5
1991	15.9	0	16.6	57.9	14.3	31.1
Death rates: ^{2/}						
1989	5.4	0.9	5.6	1.3	5.8	1.1
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

^{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 47.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1986 TO 1991

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate <u>1/</u>			
1986	25,312	24.1	18,253	1,412	5,647
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 <u>2/</u> ...	27,289	24.0	19,880	1,717	5,692

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 48.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1990 AND 1991

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State <u>1/</u>
Births:						
1990 ...	20,528	20,438	89	1	20,466	28
1991 ...	19,985	19,880	104	1	19,924	44
Deaths:						
1990 ...	7,055	6,687	364	4	6,879	192
1991 ...	7,041	6,696	335	10	6,894	198

1/ Data received from other States, as of October 1, 1992.

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

Table 49.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1989 TO 1991

[Excludes births to Hawaii residents occurring out of state]

Subject	1989	1990	1991
Number of resident births	19,335	20,438	19,880
City and County of Honolulu	14,736	15,380	14,756
Percent on Oahu	76.2	75.3	74.2
Hawaii County	2,007	2,228	2,278
Kauai County	861	945	983
Maui County (incl. Kalawao)	1,731	1,885	1,863
Percent attended by M.D. or O.D. in hospital <u>1/</u>	98.3	98.2	96.7
Males per 100 females	104.8	105.3	108.2
Median weight of single births (grams)	3,317	3,318	3,315
Percent low birth weight (under 2,500 grams) ...	7.1	7.1	6.8
Percent single births under 40 weeks gestation .	48.9	48.6	48.1
Percent plural	2.3	2.0	2.2
Percent with 1 or more congenital malformations	1.4	1.4	1.6
Percent illegitimate	23.9	25.0	26.3
Percent with prenatal visit in first three months	70.5	68.9	68.8
Percent first child born to mother <u>2/</u>	29.9	29.1	29.0
Percent first child born alive to mother	42.1	42.5	41.7
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 50.-- 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 51.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS
OF PARENTS: 1991

Military status of parents	Total births	Unmixed	Mixed <u>1/</u>	Not certain <u>2/</u>
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 52.-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX: 1991

[A total of 7,034 first names, including variant spellings, was reported for the 19,992 babies born in Hawaii in 1991]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Joshua	197	Ashley	159
2	Michael	187	Jessica	139
3	Matthew	153	Nicole	112
4	Christopher	149	Chelsea	85
5	Ryan	140	Kayla	81
6	Justin	138	Sarah	78
7	Nicholas	118	Brittany	76
8	Jordan	117	Samantha	76
9	Andrew	112	Jennifer	71
10	Brandon	106	Amanda	67

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

Table 53.-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1991

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	97	Lee	41
2	Smith	89	Wong	38
3	Wong	74	Nakamura	27
4	Johnson	76	Chang	28
5	Williams	60	Smith	27
6	Jones	52	Ching	25
7	Kim	51	Tanaka	23
8	Brown	49	Rodrigues	22
9	Young	46	Higa	18
10	Garcia	41	Johnson	18

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

Table 54.-- SELECTED LIFE TABLE VALUES, BY SEX: 1984-1986

[For earlier years and rankings 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 <u>1/</u>	
	Number living at be- ginning 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	(<u>2/</u>)	(<u>2/</u>)	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 55.-- CHARACTERISTICS OF RESIDENT DEATHS: 1989 TO 1991

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1989	1990	1991
Number of resident deaths	6,381	6,687	6,696
City and County of Honolulu	4,634	4,796	4,793
Hawaii County	845	889	880
Kauai County	323	341	358
Maui County (incl. Kalawao)	579	661	665
Males per 100 females	139.7	139.2	137.2
Median age (years)	73	73	73
Centenarian deaths: Male	13	14	23
Female	27	36	37
Oldest (years): Male	104	105	109
Female	106	104	107
Percent married	45.9	46.7	46.0
Deaths under 1 year	156	132	140
Per 1,000 live births	8.1	6.5	7.0
Fetal deaths 1/	6,748	6,396	7,409
Per 1,000 deliveries	259	238	272
Fetal deaths, 20 or more weeks gestation 2/	193	213	209
Per 1,000 live births	10.0	10.4	10.5
Standard fetal deaths 3/	1,468	1,689	1,717
Elective abortions	5,280	4,707	5,692
Per 1,000 live births	273.1	230.3	286.3

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.

Table 56.-- CAUSE OF DEATH, BY SEX: 1991

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	6,696	3,873	2,823
Tuberculosis	11	7	4
Syphilis	-	-	-
Other infective	92	51	41
Malignant neoplasm	1,626	923	703
Digestive organs	502	294	208
Respiratory system	447	281	166
Breast	110	-	110
Genital organs	173	101	72
Urinary organs	49	34	15
Leukemia	52	37	15
Other	293	176	117
Diabetes mellitus	147	67	80
Heart disease	2,031	1,161	870
Rheumatic	19	4	15
Hypertensive	70	24	46
Ischemic	1,023	609	414
Other heart	919	524	395
Hypertension	19	10	9
Cerebrovascular disease	580	297	283
Arteriosclerosis	27	11	16
Other circulatory	91	54	37
Influenza/pneumonia	304	170	134
Chronic obstructive pulmonary diseases	222	122	100
Peptic ulcer	17	11	6
Cirrhosis of liver	72	51	21
Nephritis and nephrosis	65	36	29
Pregnancy, birth & puerperium	-	-	-
Congenital anomalies	40	26	14
Perinatal conditions	66	32	34
Ill-defined conditions	44	24	20
Other diseases	715	438	277
Accidents	243	187	56
Motor vehicles	135	100	35
Other	108	87	21
Suicide	118	91	27
Homicide & legal intervention	48	29	19
Other external causes	118	75	43

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

Table 57.-- CATASTROPHIC MORTALITY: 1982 TO 1992

[Includes all accidents, natural disasters, and other events causing five or more deaths. Complete through December 2, 1992]

Date	Place	Kind of disaster	Deaths
1982: July 24	Near Wahiawa, Oahu	3-car auto crash	5
1983: June 16	Honopu, Kauai	Airplane crash	14
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
1992: Jan. 14	Between Oahu and Maui ..	Airplane disappearance	5
Apr. 22	Haleakala summit, Maui .	Airplane crash	9

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

Table 58.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1970 TO 1991

Method	1970	1980	1988	1989	1990	1991
All methods	4,197	5,204	6,315	6,730	7,055	7,041
Burial	2,197	2,343	2,543	2,740	2,798	2,723
Cremation	1,509	2,241	3,145	3,369	3,564	3,649
Removal	470	567	591	594	656	649
Entombment	13	44	29	19	35	12
Educational purpose	3	-	-	-	-	1
Other	-	1	-	-	-	-
Unknown	5	8	7	8	2	7

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

Table 59.-- STATE HEALTH OVERALL RANKING: 1990 AND 1991

Score content and year	Median State score	Hawaii score	Hawaii rank <u>1/</u>
Excluding environment: 1990	0	18	4
1991	3	24	1
Including environment: 1991	2 1/2	29	1

1/ The States were ranked from 1 (best) to 50 (worst).

Source: Northwestern National Life Insurance Company, The NWNL State Health Rankings, 1991 Edition, pp. 1, 2, 12.

Table 60.-- PERCENT OF PERSONS 18 YEARS AND OVER AFFECTED BY SPECIFIED HEALTH RISK FACTORS, BY SEX: 1988

[Based on a telephone survey of the noninstitutional population]

Health risk factor	Both sexes	Male	Female
Overweight	16.4	17.4	15.3
Sedentary life-style	53.3	48.2	58.4
Current regular cigarette smokers	23.8	26.4	21.2
Ever smoked cigarettes	45.2	52.4	38.1
Smoking quit ratio	47.3	49.6	44.3
Binge drinkers	19.6	29.3	10.0
Heavy drinkers	9.4	16.3	2.7
Drinking drivers	3.6	5.9	1.2
Seatbelt nonuse	6.5	9.2	3.9
Cholesterol ever measured	48.0	50.6	45.5
Cholesterol level ever told	28.7	32.0	25.5
Cholesterol level known	13.1	15.2	11.1

Source: U.S. Department of Health and Human Services, Centers for Disease Control, "Behavioral Risk Factor Surveillance, 1988," Morbidity and Mortality Weekly Report, Vol. 39, No. SS-2, June 1990.

Table 61.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1990 AND 1991

Date	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1990: June 30	2,197	1,742	183	87	185
1991: June 30	2,185	1,707	201	87	190

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

Table 62.-- CHRONIC CONDITIONS: 1989

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Malignant neoplasms	7,700	7.1
Benign and unspecified neoplasms ...	4,901	4.5
Thyroid disease	13,155	12.1
Diabetes	27,316	25.2
Mental and nervous condition	15,854	14.6
Heart disease	31,205	28.8
Hypertension	91,359	84.2
Varicose veins	11,163	10.3
Hemorrhoids	16,914	15.6
Bronchitis/emphysema	21,477	19.8
Asthma	47,802	44.1
Hayfever	81,484	75.1
Chronic sinusitis	50,444	46.5
Peptic ulcer	12,211	11.3
Gallbladder	11,523	10.6
Kidney disease	7,500	6.9
Skin condition	48,044	44.3
Arthritis	47,218	43.5
Visual impairment	9,960	9.2
Hearing impairment	48,710	44.9
Impairment of back or spine	76,768	70.8
Gout	12,249	11.3

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

Table 63.-- ACUTE CONDITIONS: 1989

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	2,861,844	263.9
Infective parasitic diseases	184,380	17.0
Respiratory condition	1,974,624	182.1
Digestive system condition	65,352	6.0
Injuries	264,300	24.4
All other acute conditions	373,188	34.3

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

Table 64.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1989

Type of limitation	Number
Persons with one or more chronic conditions	481,457
No limitation of activity	369,642
Limited, but not in major activity	31,540
Limited in amount or kind of activity	43,716
Unable to carry on major activity	17,103
Not reported	19,456
Restricted activity days in past month <u>1/</u>	1,815,707
Per person <u>2/</u>	1.7

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 65.-- SPECIFIED COMMUNICABLE DISEASES: 1989 TO 1991

Disease	Cases			Deaths		
	1989	1990	1991	1989	1990	1991
AIDS <u>1/</u>	136	151	176	86	98	79
Chickenpox	2,211	2,007	825	-	-	-
Gonorrhea	731	639	695	-	-	-
Hansen's Disease <u>2/</u>	17	19	12	1	-	-
Hepatitis, all types	250	171	120	5	8	5
Influenza	1,638	199	135	1	3	-
Leptospirosis <u>3/</u>	69	43	33	1	-	1
Malaria <u>4/</u>	8	8	4	-	-	-
Measles (Rubeola)	29	41	12	-	-	-
Meningitis, all types	199	136	80	9	6	6
Mumps	20	26	30	-	-	-
Rubella	13	8	9	-	-	-
Salmonellosis	371	458	373	-	-	-
Syphilis	18	19	10	-	-	-
Tuberculosis	193	205	202	4	6	11

1/ By date of diagnosis, with deaths allocated back to year when first reported. Data prior to 1991 are revised.

2/ Excludes reinstated cases.

3/ Includes previously unreported cases.

4/ Acquired outside the State.

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

Table 66.-- 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 <u>1/</u>	1.884	3.658
Secondary or permanent teeth <u>2/</u>	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 <u>3/</u>	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, Dec. 1988; and National Year 2000 Oral Health Objectives (1990).

Table 67.-- 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 68.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,
BY TYPE OF FACILITY: 1986 TO 1991

[Includes Tripler Army Medical Center]

Category and year	Hospitals				Care homes	
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Fam-ily <u>2/</u>	Resi-den-tial <u>3/</u>
Number of facilities:						
1986	48	23	33	9	633	17
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
Number of beds:						
1986	6,595	2,870	2,769	956	2,547	540
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

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

2/ Four or fewer beds for 1986, thereafter five beds or fewer.

3/ Five or more beds for 1986, six or more thereafter.

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

Table 69.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE
CIVILIAN HOSPITALS: 1986 TO 1991

[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:					
1986 ^{1/}	2,378	91,704	1,586	6.3	66.7
1987	2,346	93,256	1,661	6.5	70.8
1988 ^{1/}	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
Long-term care:					
1986 ^{1/}	2,977	2,901	2,602	327	87.4
1987	2,995	2,553	2,779	397	92.8
1988 ^{1/}	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

^{1/} Excludes statistics for Lanai.

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

Table 70.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,
BY TYPE OF FACILITY, BY ISLANDS: 1991-1993

[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, 1991				Care homes, Jan. 1993	
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Type I <u>2/</u>	Type II <u>3/</u>
NUMBER OF FACILITIES						
State total ..	60	24	40	14	490	14
Oahu	39	11	24	10	393	10
Hawaii	7	5	7	-	52	-
Kauai	6	3	5	1	21	3
Maui	5	3	2	2	16	-
Molokai	2	1	1	1	8	1
Lanai	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	6,811	2,593	3,443	775	2,175	436
Oahu	5,173	2,082	2,344	747	1,794	370
Hawaii	710	236	474	-	207	-
Kauai	371	114	252	5	74	52
Maui	499	147	343	9	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.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, Utilization of Inpatient Facilities, 1991, and Hospital and Medical Facilities Branch, records.

Table 71.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE
CIVILIAN HOSPITALS, BY ISLANDS: 1991

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	96,961	1,814	6.8	70.0
Oahu	74,086	1,458	7.2	70.0
Hawaii	9,518	168	6.4	71.2
Kauai	4,806	54	4.1	47.5
Maui	8,323	132	5.8	90.9
Molokai	163	1	2.6	14.6
Lanai	65	1	2.8	8.3
LONG-TERM CARE				
State total	3,181	3,216	369	93.4
Oahu	2,175	2,153	361	91.8
Hawaii	403	468	424	98.8
Kauai	335	239	261	94.9
Maui	188	332	645	96.8
Molokai	65	19	108	87.7
Lanai	15	5	127	65.0

NA Not available.

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

Table 72.-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES:
1984 TO 1990

Year	Average length of stay (days)	Average cost to hospital		Hospital semiprivate room charges 1/ (dollars)
		Per in-patient day (dollars)	Per admission (dollars)	
1984	8.3	383.05	3,186	224
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	(NA)	(NA)	(NA)	348

NA Not available.

1/ January data.

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

Table 73.-- 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 74.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1989 TO 1992

[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
1989	240	863	711	242	238
1990	240	811	618	242	209
1991	215	354	293	195	165
1992	202	398	324	182	197

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

Table 75.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1990 TO 1992

[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	-

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

Table 76.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1987 TO 1991

Subject	1987	1988	1989	1990	1991
Patients on register, Dec. 31 ..	633	571	541	498	487
At home	532	474	447	405	397
Kalaupapa	97	93	90	89	86
Hale Mohalu at Leahi	4	4	4	4	4
New cases	24	20	18	18	19
Deaths	6	13	14	9	3

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

Table 77.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: FEBRUARY 6, 1992

Place of address	Physicians and surgeons <u>1/</u>	Dentists	Registered nurses	Pharmacists
Total licensed..	5,007	1,182	10,923	1,030
Hawaii addresses ...	2,726	906	8,552	606
Hawaii	219	82	778	60
Maui	187	55	654	50
Lanai	2	1	10	1
Molokai	6	4	31	2
Oahu	2,215	728	6,729	466
Kauai	97	36	350	27
Niihau	-	-	-	-
Out of State.....	2,199	273	2,192	418
Not reported	82	3	179	6

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 78.-- PRESCRIPTIONS AND PHARMACISTS: 1987

Subject	Number
Number of establishments with payroll, total	98
Filling prescriptions paid for in part or in full by third parties .	97
Sales (\$1,000)	437,083
Paid employees for pay period including March 12, total	2,614
Pharmacists	263
Prescriptions, total (1,000)	4,799
Refills	1,091
Third party prescriptions as percent of total prescriptions, median ..	27.5

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, Miscellaneous Subjects, RC87-S-4 (October 1990), tables 17 and 19.

Table 79.-- HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER,
BY SEX: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward. For further information, see Data Book 1984, tables 104-107]

Measure	Height (inches)		Weight (pounds)	
	Men	Women	Men	Women
10th centile	63.1	59.3	126.4	100.8
50th centile (median)	67.4	62.4	158.3	123.8
90th centile	72.1	66.5	199.5	166.9
Average	67.5	62.6	159.5	127.9

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

Table 80.-- MARRIAGES AND DIVORCES: 1970 TO 1991

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments <u>2/</u>	Rates per 1,000 resident population		Percent of marriages	
	Total	Resi- dent <u>1/</u>		Resident marriages	Divorces, annulments <u>2/</u>	Nonresi- dent <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

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 81.-- 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 82.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1988 TO 1991

[Place of occurrence basis]

Subject	1988	1989	1990	1991
MARRIAGES				
Number	17,281	17,974	18,306	17,764
Percent on Oahu	58.8	57.7	58.3	57.9
Percent Hawaii residents:				
Both bride and groom	52.2	51.3	53.1	52.4
One partner only	4.0	4.1	3.7	4.2
Neither bride nor groom	43.8	44.6	43.1	43.4
Median age (years):				
Groom	31	31	31	31
Bride	28	28	28	29
Percent previously married:				
Groom	40.4	39.8	39.5	38.8
Bride	39.8	40.4	40.1	39.2
DIVORCES AND ANNULMENTS				
Number	5,020	5,613	5,179	5,184
Divorces	5,005	5,600	5,163	5,161
Annulments	14	13	10	13
Not reported	1	-	6	10
Percent occurring on Oahu	79.8	78.5	77.5	76.7
Percent Hawaii residents:				
Both partners	76.1	75.4	73.9	76.4
One partner only	23.6	23.1	26.0	23.3
Neither partner	0.3	0.1	0.2	0.2
Median age (years):				
Husband	34.9	35	35	35
Wife	32.6	32	33	33
Percent interracial ^{1/}	40.5	39.4	40.3	40.0
Percent with children under 18 years	52.2	55.3	52.1	52.1
Median years married	6.6	6.2	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 83.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT,
BY RACE MIXTURE AND TYPE OF CEREMONY: 1991

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages	17,764	10,051	7,713
Race of partners:			
Both partners same race <u>1/</u>	12,387	5,488	6,899
Different	5,377	4,563	814
Percent different	30.3	45.4	10.6
Type of ceremony:			
Civil ceremony	4,651	3,791	860
Religious ceremony	13,112	6,259	6,853
Unknown	1	1	-

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

Table 84.-- MARITAL DISSOLUTION: 1970 TO 1990

Subject	1970	1980	1990	Percent		
				1970	1980	1990
Married couples	154,678	185,698	210,468	100.0	100.0	100.0
Marriages ended	4,466	6,782	8,292	2.9	3.7	3.9
By divorce	2,589	4,438	5,172	1.7	2.4	2.5
By death	1,877	2,344	3,120	1.2	1.3	1.5
Husbands	1,312	1,678	2,234	0.8	0.9	1.1
Wives	565	666	886	0.4	0.4	0.4

Source: Hawaii State Department of Health, Statistical Report (annual), and records. U.S. Bureau of the Census, 1970 Census of Population, PC(1)-C13, table 52; 1980 Census of Population, PC80-1-B13, table 21; and Release CB91-133 (April 22, 1991).

Table 85.-- 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 1991-1992 totaled 210,271, slightly more than in the preceding year but below the all-time high of 216,000 reached in 1971-1972. There were 239 public schools with 11,116 classroom teachers and 175,114 students (83.3 percent of the total). There were also 129 private schools with 2,580 teachers and 35,157 pupils. Students graduating from public and private high schools in 1990-1991 numbered 11,948. Some 60,600 students attended colleges and universities in the State in Fall 1992, including 19,800 on the Manoa Campus of the University of Hawaii, 700 at UH-West Oahu, 2,800 at UH-Hilo, 26,100 at seven community colleges, and 11,300 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 2.5 million books, 9,600 periodical subscriptions, 8,000 video tapes, and 87,000 sound recordings in 1991, with an annual circulation of 6.3 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: 1992 presents comparable information for the nation as a whole.

Table 86.-- 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 87.-- SCHOOL ENROLLMENT OF PERSONS 16 TO 19 YEARS OLD,
FOR THE STATE AND OAHU: 1990

Subject	State	Oahu
Population 16 to 19 years	57,184	43,946
Not enrolled in school and not high school graduate	4,267	3,096
Percent	7.5	7.0

Source follows next table.

Table 88.-- EDUCATIONAL ATTAINMENT OF PERSONS 25 YEARS OLD AND OVER,
BY COUNTIES: 1990

Subject	State total	Ha-waii	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 89.-- 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 <u>1/</u>	20.5	31.6	46.1	61.9	73.8	80.1
Percent 4 years of college or more <u>2/</u>	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 CPH-L-80, table 1.

Table 90.-- LITERACY IN ENGLISH: NOV. 1988-JAN. 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 91.-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES,
FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1981-1982 TO 1991-1992

School year	Schools (September)			Teachers (September)		
	Total	Public	Private	Total	Public	Private
1981-82 ...	376	230	146	10,447	8,139	2,308
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

School year	Enrollment (September)			High school graduates		
	Total	Public	Private	Total	Public	Private
1981-82 ...	200,844	162,805	38,039	13,948	11,563	2,385
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	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii State Department of Education, records.

Table 92.-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 11, 1991, AND HIGH SCHOOL GRADUATES, 1990-1991, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

Island	Number of schools, September 11, 1991			Number of teachers, September 11, 1991		
	Total	Public <u>1/</u>	Private	Total	Public <u>1/</u>	Private
State total	368	239	129	13,676	11,116	2,580
Hawaii	46	32	14	1,794	1,593	201
Maui	36	22	14	1,133	996	137
Lanai	1	1	0	38	38	0
Molokai	7	5	2	125	118	7
Oahu	258	165	93	9,878	7,718	2,180
Kauai	19	13	6	706	651	55
Niihau	1	1	-	2	2	-
Island	Enrollment, September 11, 1991			High school graduates, 1990-1991 school year		
	Total	Public <u>1/</u>	Private	Total	Public <u>1/</u>	Private
State total	210,271	175,114	35,157	11,948	9,571	2,377
Hawaii	27,834	25,534	2,300	1,500	1,349	151
Maui	18,424	16,203	2,221	894	796	98
Lanai	517	517	0	46	46	0
Molokai	1,764	1,725	39	92	92	0
Oahu	150,842	120,984	29,858	8,799	6,675	2,124
Kauai	10,851	10,112	739	617	613	4
Niihau	39	39	-	-	-	-

1/ Includes UH Lab School.

Source: Hawaii State Department of Education, records.

Table 93.-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES:
1990 AND 1991

Grade	September 12, 1990			September 12, 1991		
	Total	Public	Private	Total	Public	Private
All grades	207,558	171,793	35,765	210,271	175,114	35,157
Nursery	2,918	407	2,511	2,733	498	2,235
Kindergarten	16,794	13,942	2,852	17,057	14,361	2,696
1	17,005	14,540	2,465	16,757	14,331	2,426
2	16,737	14,329	2,408	16,688	14,353	2,335
3	16,380	13,959	2,421	16,320	14,097	2,223
4	15,788	13,458	2,330	15,975	13,685	2,290
5	15,286	13,055	2,231	15,520	13,282	2,238
6	14,682	12,420	2,262	15,151	12,851	2,300
7	14,281	11,381	2,900	14,830	11,836	2,994
8	14,267	11,488	2,779	14,111	11,321	2,790
9	15,085	12,347	2,738	15,356	12,607	2,749
10	13,362	10,822	2,540	13,957	11,315	2,642
11	13,053	10,596	2,457	12,886	10,445	2,441
12	11,719	9,271	2,448	11,758	9,332	2,426
Specials <u>1/</u>	10,201	9,778	423	11,172	10,800	372

1/ Public school data include ungraded students in special schools.
Source: Hawaii State Department of Education, records.

Table 94.-- SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 11, 1991

[Combined totals for public and private systems]

Grade	State total	Hawaii	Maui	Honolulu	Kauai
All grades	210,271	27,834	20,705	150,842	10,890
Nursery	2,783	225	177	2,239	92
Kindergarten	17,057	2,100	1,689	12,363	905
1	16,757	2,198	1,749	11,966	844
2	16,688	2,145	1,717	11,982	844
3	16,320	2,177	1,667	11,590	886
4	15,975	2,163	1,562	11,383	867
5	15,520	2,128	1,559	11,003	830
6	15,151	2,153	1,479	10,727	792
7	14,830	2,028	1,457	10,542	803
8	14,111	1,967	1,362	10,014	768
9	15,356	2,071	1,491	11,054	740
10	13,957	1,819	1,379	10,057	702
11	12,886	1,638	1,247	9,398	603
12	11,758	1,484	1,108	8,612	554
Special <u>1/</u>	11,172	1,538	1,062	7,912	660

1/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records.

Table 95.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL,
1988 TO 1991

Category	1988	1989	1990	1991
All federally-connected pupils	36,965	36,899	36,159	35,736
Percent of total enrollment	22.1	21.8	21.1	20.5
Military dependents	20,104	20,228	19,889	19,838
Others <u>1/</u>	16,861	16,671	16,270	15,898

1/ Includes dependents of civilian employees of armed forces.

Source: Hawaii State Department of Education, records.

Table 96.-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 11, 1991, AND PRIVATE HIGH SCHOOL GRADUATES, 1990-1991, BY CHURCH AFFILIATION

Church affiliation	Schools	Teachers	Enrollment	High school graduates
Total	129	2,580	35,157	2,377
Church-affiliated	86	1,655	25,047	1,135
Roman Catholic	34	670	11,424	649
Other church-affiliated	52	985	13,623	486
Non-church-affiliated ...	43	925	10,110	1,242

Source: Hawaii State Department of Education, records.

Table 97.-- 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	<u>2/</u> 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 98.-- SCHOLASTIC APTITUDE TEST SCORE AVERAGES: 1975 TO 1992

Component	1974-75	1979-80	1985-86	1989-90	1990-91	1991-92 ^{1/}
Verbal	414	396	403	404	405	401
Math	478	472	477	481	478	477

^{1/} The U.S. averages in 1991-92 were 423 for verbal and 476 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, 1991, pp. A1 and A5, and August 27, 1992, pp. A1 and A8.

Table 99.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 3, 6, 8, AND 10: 1992

[Percent of students taking test]

Subject and level	Norm	Grade 3	Grade 6	Grade 8	Grade 10
Reading:					
Below average	23	37	30	37	42
Average	54	51	54	45	47
Above average	23	13	17	18	11
Math:					
Below average	23	23	21	27	23
Average	54	51	56	50	56
Above average	23	26	23	23	21

Source: *Honolulu Advertiser*, October 2, 1992, p. A2.

Table 100.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS:
FALL 1982 TO 1992

[Fall enrollment in regular credit programs, including concurrent registrants and early admits]

Year	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii, at Hilo <u>2/</u>	Univ. of Hawaii- West Oahu	
		Total	Under- graduates	Grad- uates	Other <u>1/</u>			
1982 ..	47,210	20,880	14,879	4,328	1,673	1,658	408	
1983 ..	46,241	20,966	15,091	4,339	1,542	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	
		Community Colleges <u>3/</u>						
Year	Total	Hono- lulu	Kapio- lani	Lee- ward	Wind- ward	Hawaii	Kauai	Maui
1982 ..	24,264	5,325	5,555	6,195	1,548	2,088	1,266	2,287
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

1/ Includes unclassified and no data.

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 101.-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY THE UNIVERSITY OF HAWAII: 1982 TO 1992

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First profes- sional <u>1/</u>	Other <u>2/</u>
1982	52	2,588	993	111	137	122
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
Year ended June 30	University of Hawaii at Hilo <u>3/</u>		Univ. of Hawaii- West Oahu: Bachelor	Community Colleges <u>3/</u>		
	Certifi- cates <u>4/</u>	Bachelor degrees		Certifi- cates <u>5/</u>	Associate degrees	No data
1982	-	160	46	593	2,145	7
1983	-	193	91	577	2,250	11
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

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 was 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 102.-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES,
AND FACULTY AND STAFF: 1990 TO 1992

Subject	1990	1991	1992
Curricula offered at Manoa Campus, Fall <u>1/</u> ...	264	263	270
Bachelor's degree programs	88	86	86
Master's degree programs	86	85	87
Doctoral programs (DrPH, EdD, PhD)	49	50	53
Other programs <u>1/</u>	41	42	44
Tuition per semester (full-time undergraduate, regular session) (dollars):			
Manoa Campus:			
Resident	615	645	670
Nonresident	1,840	1,940	2,035
Hilo (upper division):			
Resident	575	595	615
Nonresident	1,720	1,790	1,860
West Oahu:			
Resident	415	420	425
Nonresident	1,240	1,290	1,340
Community colleges:			
Resident	200	210	220
Nonresident	1,230	1,290	1,340
Finances, fiscal year ending June 30:			
Current fund revenues (\$1,000)	472,527	539,356	596,821
Current fund expenditures (\$1,000)	456,760	535,420	583,335
Faculty and staff, October <u>2/</u>	7,790	8,028	8,235
Board of Regents appointees	6,180	6,363	6,512
Full-time	3,974	4,105	4,262
Part-time	2,206	2,258	2,250
Civil Service personnel	1,610	1,665	1,723
Full-time	1,567	1,614	1,669
Part-time	43	51	54

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

2/ Data are preliminary for 1992 and therefore are subject to change.

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

Table 103.-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1989 TO 1992

[Excludes extension programs of mainland and foreign schools 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	Assoc-iate	Bachelor's	Master's
1989, total	10,500	9,723	777	346	977	165
Brigham Young ..	2,040	2,040	-	62	246	-
Chaminade	2,903	2,588	315	109	293	126
Hawaii Loa	595	595	-	-	104	-
Hawaii Pacific .	4,962	4,500	462	175	334	39
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

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. Revised from Data Book 1990, table 98.

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

Table 104.-- 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 <u>1/</u>	4,872	2,494
Students residents of State <u>2/</u> ...	5,960	3,463
Students remaining in State <u>3/</u> ...	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 105.-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES:
1987 TO 1990

[In thousands of dollars. Fiscal year data]

Institution	1987	1988	1989	1990
All universities and colleges	58,671	58,779	84,753	71,225
University of Hawaii at Manoa	39,899	45,190	63,215	54,567

Source: National Science Foundation, Federal Support to Universities, Colleges, and Nonprofit Institutions: Fiscal Year 1990, NSF 92-324, Detailed Statistical Tables (1992), pp. 101 and 103.

Table 106.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM:
1986 TO 1991

Subject	1986	1987	1988	1989	1990	1991
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	497.55	532.05	543.05	557.05	581.55
Librarians	133.00	133.00	146.00	153.00	162.50	167.50
All others	364.55	364.55	386.05	390.05	394.55	414.05
Hours open <u>2/</u>	54	54	54	54	54	54
Collections, June 30:						
Books <u>3/</u> (1,000)	2,096.8	2,073.8	2,225.7	2,320.8	2,391.7	2,605.4
Circulation, year ended						
June 30 (1,000)	6,500.2	6,480.5	6,552.9	6,561.9	6,225.2	6,328.4

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/ 1991 figure also includes all media except ephemeral material.

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

Table 107.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM
BY DISTRICTS: 1991

District	Library locations, June 30	Personnel, June 30 ^{1/}	Circulation, year ended June 30	
Total system	49	581.55	6,328,363	
Oahu	23	322.50	4,370,983	
Hawaii State Library	1	88.00	431,220	
East Oahu Library District ...	12	140.00	2,327,633	
West Oahu Library District ...	9	94.50	1,612,130	
Library for the Blind and Physically Handicapped	1	14.50	44,874	
Other islands	26	145.55	1,912,506	
Hawaii Library District	13	63.55	977,684	
Kauai Library District	5	33.50	367,679	
Maui Library District ^{2/}	8	48.50	567,143	
Administration/Centralized Processing Center .....	...	99.00	...	
Collections, June 30				
District	Books	Periodical subscriptions	Video tapes	Sound recordings ^{4/}
Total system	2,500,450	9,650	8,036	87,218
Oahu	1,602,710	5,874	6,088	57,679
Hawaii State Library	387,722	2,126	1,258	19,326
East Oahu Library District ...	725,144	2,166	3,301	24,970
West Oahu Library District ...	489,844	1,582	1,529	13,383
Other islands	786,443	3,634	1,913	26,290
Hawaii Library District	347,781	1,578	564	7,758
Kauai Library District	188,983	915	601	9,135
Maui Library District ^{2/}	249,679	1,141	748	9,397
Library for the Blind and Physically Handicapped	111,297	142	35	3,249

^{1/} See previous table footnote 1.

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

^{3/} Includes phonotapes and CD-ROM.

^{4/} Includes print, braille, and recorded media.

^{5/} Includes music recordings only.

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

Table 108.-- 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 1991 numbered 68,100, compared with 68,000 in 1990 and 65,100 in 1981. The rate per 1,000 resident population declined from 65 in 1981 to 60 in 1991. Seventy-five percent of the serious crimes in 1991 occurred on Oahu. For the State as a whole, major offenses known to police in 1991 included 45 murders, 375 rapes, 986 robberies, 1,338 aggravated assaults, 14,011 burglaries, 47,195 cases of larceny, and 3,814 auto thefts. The value of property reported stolen in 1991 amounted to \$57 million, exclusive of motor vehicles; only 4.6 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 2,258 in 1991. Twenty-one 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 24 percent of those arrested for lesser offenses in 1991 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 1992 numbered 936,000, including 790,000 traffic cases. Filings in the United States District Court for Hawaii in 1991 included 784 civil cases, 1,892 criminal cases, and 964 bankruptcy cases. The last legal execution in Hawaii took place in 1947. There were 5,024 attorneys licensed in Hawaii as of mid-1992, more than 11 times the 1960 total. Criminal justice system expenditures amounted to \$273 million in fiscal 1988.

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: 1992, Section 5.

Table 109.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE,
BY COUNTIES: 1981 TO 1991

[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 1991, table 100]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate ^{1/}				
1981	63,903	65.3	49,275	5,674	2,512	6,442
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	65,666	60.8	49,589	5,939	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

^{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 1980-1987, and the number of forcible rapes reported in Honolulu in 1989 were compiled from reports to the Uniform Crime Reporting (UCR) Program.

Table 110.-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1982 TO 1991

[Revised from Data Book 1991, table 101]

Offense	1982	1983	1984	1985	1986
All Part I offenses <u>1/</u>	65,089	59,545	57,340	55,355	60,652
Murder	31	57	34	43	51
Manslaughter (neg.) <u>1/</u>	-	-	-	-	-
Forcible rape <u>2/</u>	319	300	311	312	325
Robbery	1,561	1,315	1,181	1,041	1,103
Aggravated assault	590	868	843	913	1,082
Burglary	16,337	13,589	12,552	12,159	14,184
Larceny	41,568	38,585	38,301	37,345	39,935
Motor vehicle theft	4,244	4,343	3,607	2,981	3,486
Arson <u>3/</u>	439	488	511	561	486
Offense	1987	1988	1989	1990	1991
All Part I offenses	63,471	65,666	69,601	67,957	68,116
Murder	51	45	53	44	45
Manslaughter (neg.) <u>1/</u>	-	2	1	2	1
Forcible rape <u>2/</u>	396	353	353	352	375
Robbery	1,043	914	908	1,016	986
Aggravated assault	1,364	1,502	1,427	1,605	1,338
Burglary	12,500	13,665	14,879	13,577	14,011
Larceny	43,669	44,859	47,204	46,699	47,195
Motor vehicle theft	3,986	3,927	4,385	4,224	3,814
Arson <u>3/</u>	520	520	391	438	351

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 (not itemized in Data Book 1992).

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 1982-1987 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 111.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED
BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE: 1981 TO 1991

[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>
1981 ..	63,903	93,701	11,445	62,946	17.9	67.2
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 ..	65,666	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

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 1981-1988 and 1991. All traffic cases excluded for 1989 and 1990.

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

Table 112.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1991

County	Actual offenses known to police		Number cleared by arrest or otherwise ^{1/}		Clearances per 100 offenses ^{1/}	
	Part I	Part II, except traffic	Part I	Part II, except traffic	Part I	Part II, except traffic
State total ..	68,116	116,746	14,253	74,608	20.9	63.9
Honolulu	51,294	83,154	10,566	56,690	20.6	68.2
Hawaii	7,279	10,677	2,120	6,395	29.1	59.9
Kauai	2,385	5,082	542	2,489	22.7	49.0
Maui	7,158	17,833	1,025	9,034	14.3	50.7

^{1/} Includes prior years' offenses cleared in current year.

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

Table 113.-- MARIJUANA CONFISCATED OR DESTROYED BY AUTHORITIES, BY COUNTIES: 1991

Subject	State total	Hawaii	Maui	Hono- lulu	Kauai
Plants ^{1/}	477,991	367,749	77,267	10,641	22,334
By police department	302,042	218,198	50,869	10,641	22,334
By DLNR ^{2/}	175,949	149,551	26,398	-	-
Potential value (mil. dol.):					
Local estimate ^{3/}	2,558.4	1,770.1	590.8	63.5	134.0
SNTF estimate ^{4/}	3,823.9	2,942.0	618.1	85.1	178.7

^{1/} Of any size.

^{2/} Division of Conservation and Resources Enforcement (DOCARE), Department of Land and Natural Resources.

^{3/} Based on estimates of street value varying from \$4,000 to \$8,500 per plant.

^{4/} Based on estimated street value of \$8,000 per plant, accepted by the Statewide Narcotics Task Force in April 1992.

Source: Hawaii State Department of the Attorney General, Crime Prevention Division, May 6, 1992.

Table 114.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES
CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1991

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise <u>1/</u>		Clearances per 100 offenses <u>1/</u>	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	68,116	51,294	14,253	10,566	20.9	20.6
Murder	45	29	36	26	80.0	89.7
Manslaughter (neg.) ...	1	-	1	-	100.0	...
Rape	375	275	290	232	77.3	84.4
Robbery	986	860	288	239	29.2	27.8
Aggravated assault	1,338	894	695	404	51.9	45.2
Burglary	14,011	9,905	2,239	1,694	16.0	17.1
Larceny	47,195	36,019	9,900	7,399	21.0	20.5
Auto theft	3,814	3,050	753	544	19.7	17.8
Arson	351	262	51	28	14.5	10.7

1/ Includes prior years' offenses cleared in current year.

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

Table 115.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES,
BY AGE AND SEX, FOR COUNTIES: 1991

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	12,289	8,818	1,886	1,055	530
Juveniles	4,864	3,470	797	368	229
Male	3,731	2,665	593	283	190
Female	1,133	805	204	85	39
Adults	7,425	5,348	1,089	687	301
Male	5,472	3,921	809	493	249
Female	1,953	1,427	280	194	52
PART II OFFENSES (EXCEPT TRAFFIC)					
Total	51,130	37,923	4,962	4,837	3,408
Juveniles	12,052	8,579	1,680	807	986
Male	7,481	5,361	969	517	634
Female	4,571	3,218	711	290	352
Adults	39,078	29,344	3,282	4,030	2,422
Male	32,495	24,383	2,722	3,392	1,998
Female	6,583	4,961	560	638	424

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

Table 116.-- CHILD ABUSE AND NEGLECT REPORTS: 1984 TO 1991

Subject	1984	1985	1986	1987	1988	1989	1990	1991
Reports	3,979	4,414	4,598	4,809	4,637	3,517	4,331	4,192
Confirmed ..	1,791	2,289	2,590	2,543	2,620	2,153	2,421	2,258

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

Table 117.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1981 TO 1991

Year	Locally stolen motor vehicles			Other stolen property		
	Value stolen (\$1,000)	Value recovered <u>1/</u>		Value stolen (\$1,000)	Value recovered <u>1/</u>	
		Amount (\$1,000)	Percent		Amount (\$1,000)	Percent
1981 ...	12,033.6	9,387.9	78.0	31,667.8	2,380.6	7.5
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

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

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

Table 118.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY COUNTIES: 1991

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
Value of property stolen (\$1,000)	65,630.7	50,996.5	4,498.7	8,217.7	1,917.8
Motor vehicles	8,231.7	3,787.9	1,225.0	2,574.9	643.9
Other property	57,399.0	47,208.6	3,273.7	5,642.8	1,273.9
Value of stolen property recovered ^{1/} (\$1,000) ...	9,234.7	4,680.5	991.5	2,864.5	698.2
Motor vehicles	6,584.4	2,791.0	846.2	2,380.1	567.0
Other property	2,650.3	1,889.5	145.2	484.4	131.2
Percent of value recovered	14.1	9.2	22.0	34.9	36.4
Motor vehicles	80.0	73.7	69.1	92.4	88.1
Other property	4.6	4.0	4.4	8.6	10.3

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

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

Table 119.-- CRIME RATES FOR THE UNITED STATES AND HAWAII: 1990

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

Type of offense	U.S. rate	Hawaii rate	Hawaii rank ^{1/}
All offenses ...	5,820	6,107	11
Violent crime	732	281	42
Property crime	5,088	5,826	7

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

Source: Statistical Abstract of the United States: 1992 (1992), p. 181.

Table 120.-- POLICE PERSONNEL, BY COUNTIES: 1991 AND 1992

Year and status	State total	Honolulu	Hawaii	Kauai	Mau i
1991					
Total	3,352	2,378	441	172	361
Per 1,000 de facto population .	2.6	2.6	3.1	2.3	2.5
Sworn, active	2,617	1,877	326	135	279
Sworn, reserve	91	75	7	9	(NA)
Not sworn	644	426	108	28	82
1992					
Total	3,473	2,452	459	173	389
Sworn, active	2,681	1,921	329	133	298
Sworn, reserve	106	84	10	12	(NA)
Not sworn	686	447	120	28	91

NA Not available.

Source: County police departments, records.

Table 121.-- STATE AND COUNTY GOVERNMENT EMPLOYMENT AND EXPENDITURES FOR CRIMINAL JUSTICE ACTIVITIES: 1988

Subject	Total	Police protec- tion	Correc- tion	Judicial and legal
Full-time equivalent employment, October.....	<u>1/</u> 4,515	2,959	1,556	...
Expenditures, fiscal year (mil. dol.)	273	118	72	83

1/ Excludes judicial and legal employment, not reported.

Source: Data from U.S. Bureau of the Census, cited in Statistical Abstract of the United States: 1992, p. 191.

Table 122.-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:
1990 TO 1992

[As of June 30]

Subject	1990	1991	1992
Federal judges and magistrates: <u>1/</u>			
U.S. Bankruptcy Court	1	1	1
U.S. District Court	11	11	9
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	24	25
Assigned to Family Court	1	1	1
District Courts <u>4/</u>	32	35	35
Assigned to Family Court	10	9	9
Land Court	(<u>5/</u>)	(<u>5/</u>)	(<u>5/</u>)
Tax Appeal Court	(<u>5/</u>)	(<u>5/</u>)	(<u>5/</u>)
Attorneys licensed in Hawaii <u>6/</u>	4,768	4,969	5,024

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.

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

Table 123.-- UNITED STATES DISTRICT COURT CASES:
1988 TO 1991

[Years ended June 30]

Subject	1988	1989	1990	1991
Civil cases:				
Commenced (filings)	1,278	983	1,025	784
Terminated	1,391	1,471	1,148	823
Pending, end of period	2,408	1,919	1,756	1,717
Criminal cases: 1/				
Commenced (filings)	1,550	1,447	1,758	1,892
Terminated	1,879	1,237	1,483	1,466
Pending, end of period	549	748	1,006	1,427
Bankruptcy:				
Commenced (filings), total	935	855	909	964
Business 2/	158	117	103	75
Nonbusiness	777	738	806	889
Terminated	1,326	1,079	1,152	1,014
Pending, end of period	1,910	1,686	1,432	1,382

1/ Excludes transfers.

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

Source: Annual Report of the Director of the Administrative Office of the United States Courts for 1988 and 1989, and Appendix I, Detailed Statistical Tables, Annual Report for 1990 and 1991.

Table 124.-- STATE JUDICIARY TERMINATIONS: 1987 TO 1992

[Years ended June 30]

Court and type of case	1987	1988	1989	1990	1991	1992
Supreme Court <u>1/</u>	2,371	2,883	3,046	2,170	2,350	2,409
Civil cases	262	247	246	199	179	184
Criminal cases	254	287	427	266	333	233
Other proceedings	1,855	2,349	2,373	1,705	1,838	1,992
Intermediate Court of						
Appeals <u>2/</u>	248	188	186	186	196	249
Civil cases	91	68	78	32	35	41
Criminal cases	49	60	59	56	54	97
Other proceedings	108	60	49	98	107	111
Circuit Courts proper ...	10,604	11,321	15,079	15,644	14,061	16,152
Civil cases	5,622	4,977	5,405	6,418	6,421	7,095
Criminal cases	2,305	2,752	2,951	3,567	2,936	3,610
Part I offenses	925	1,013	1,126	1,211	1,044	1,433
Part II offenses	1,380	1,739	1,825	2,356	1,892	2,177
Other proceedings	2,677	3,592	6,723	5,659	4,704	5,447
Family Courts	40,130	34,433	34,450	48,438	39,342	47,661
Civil cases	14,294	11,709	11,301	20,128	12,977	12,497
Criminal cases	650	309	2,395	3,027	3,373	5,274
Other proceedings	25,186	22,415	20,754	25,283	22,992	29,890
District Courts	807,513	771,287	892,480	897,864	974,031	869,581
Civil cases	20,402	21,643	24,179	21,968	17,872	29,314
Traffic cases	730,573	708,365	821,080	824,692	903,331	790,361
Other violations	24,885	9,284	10,565	10,984	11,811	11,349
Criminal cases	31,653	31,995	36,656	40,220	41,017	38,557
Part I offenses	4,567	5,208	5,186	5,778	5,770	5,849
Part II offenses	27,086	26,787	31,470	34,442	35,247	32,708

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 137 in 1987, 120 in 1988, 138 in 1989, 139 in 1990, 123 in 1991, and 253 in 1992.

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 125.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1990 TO 1992

[Years ended June 30]

Court and type of action	1990	1991	1992
Supreme Court, total	2,218	2,622	2,686
Primary cases	624	811	794
Appeals	567	756	730
Original proceedings	57	55	64
Supplemental proceedings	1,594	1,811	1,892
Intermediate Court of Appeals, total ..	204	193	338
Primary cases	138	123	257
Appeals	138	123	257
Supplemental proceedings	65	70	81
Circuit Courts Proper, total	13,910	15,116	16,794
Primary proceedings	13,484	14,689	16,794
Civil actions	5,876	6,070	6,530
Probate proceedings	1,673	1,583	1,561
Guardianship proceedings	474	521	507
Miscellaneous proceedings	1,629	1,996	1,707
Criminal actions	3,832	4,519	6,489
Part I offenses	1,294	1,414	1,963
Part II offenses	2,538	3,105	4,526
Supplemental proceedings	426	427	(1/)
Family Courts, total	43,499	43,596	48,883
Primary proceedings, referrals	36,524	37,194	42,627
Marital actions, proceedings	6,596	6,171	6,441
Adoption proceedings	822	620	687
Parental proceedings	2,260	1,690	1,580
Miscellaneous proceedings	3,579	3,714	4,204
Criminal actions	4,156	4,816	5,094
Adults' referrals	4,118	4,179	6,224
Children's referrals	14,351	15,365	17,851
Supplemental proceedings	6,975	6,402	6,256
District Court, total	892,362	970,084	853,014
Civil	24,510	23,348	26,947
Regular civil	19,603	18,959	21,266
Small claims	4,907	4,389	5,681
Traffic	814,847	892,555	774,983
Moving - arrest and citation	160,787	207,600	195,842
Non-moving	112,676	130,084	128,209
Parking	541,384	554,871	450,932
Other violations	11,327	11,625	11,788
Criminal actions	41,678	42,556	39,296
Part I offenses	5,723	6,074	6,085
Part II offenses	35,955	36,482	33,211

Footnote and source follow next table.

Table 126.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE:
1990 TO 1992

[Years ended June 30]

Court and type of termination	1990	1991	1992
Supreme Court, total	2,309	2,473	2,662
Opinion filed	318	362	242
Dismissal motion granted	28	14	19
Withdrawn or discontinued	80	112	132
Transferred	139	123	253
Other disposition	1,744	1,777	1,933
Dismissed by court order	(NA)	85	83
Intermediate Court of Appeals, total .	186	196	251
Opinion filed	118	122	160
Dismissal motion granted	-	1	-
Withdrawn or discontinued	2	2	7
Transferred	-	-	2
Other disposition	66	71	81
Dismissed by court order	(NA)	-	1
Circuit Courts Proper, total	15,644	14,061	16,152
No service	337	306	478
No answer	320	249	365
No statement of readiness	911	361	371
Dismissal: Notice of	880	823	798
Stip. for	2,729	3,023	3,535
By judge	1,387	1,285	1,143
Nonjury: Trial	239	131	107
Trial not completed	4	2	1
Jury: Verdict	364	322	331
Trial not completed	12	12	3
No trial held	2,168	1,968	2,490
Hearings: Contested	275	107	82
Uncontested	2,897	2,477	1,658
Others	3,121	2,995	4,790
Family Courts, total	48,438	39,342	47,661
Nolle prosequi	226	178	323
Dismissal	524	1,377	1,281
Nonjury: Trial	882	1,499	1,111
Trial not completed	1,041	56	1,696
Jury: Verdict	5	20	38
Trial not completed	2	1	66
No trial held	4,108	3,046	3,340
Hearings: Contested	5,643	5,209	4,010
Uncontested	16,759	14,235	18,939
Counseling service	9,982	8,888	10,372
Others	9,266	4,833	6,485

Continued on next page.

Table 126.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE:
1990 TO 1992 -- Con.

[Years ended June 30]

Court and type of termination	1990	1991	1992
District Court, total	897,864	974,031	859,611
Felonies	3,156	3,098	3,033
Stricken or discharged	508	407	318
By commitment to Grand Jury	34	132	169
By commitment to Circuit Court ...	2,614	2,559	2,546
Misdemeanors	37,064	37,919	35,524
By discharge or dismissal	10,388	8,900	9,200
By nolle prosequi	2,870	2,218	2,097
Stricken	2,320	1,886	1,315
By bail forfeiture	2,573	4,522	3,404
By commitment to Circuit Court ...	2,166	2,586	2,174
By conviction	16,747	17,807	17,334
Civil cases	21,968	19,468	30,994
By discontinuance or dismissal ...	7,967	7,472	16,388
By default or confession	13,076	9,635	12,131
By trial	880	792	1,057
By commitment to Circuit Court ...	45	777	1,418
Traffic and other violations	824,692	903,312	790,060
By discharge or dismissal	70,514	96,210	78,315
By nolle prosequi	13,181	17,320	17,029
Stricken	62,229	42,432	70,695
By bail forfeiture	551,433	595,199	472,957
By commitment to Circuit Court ...	419	745	1,338
By conviction	126,846	151,406	149,726

^{1/} Due to reporting changes, supplemental proceedings are no longer being counted in the Circuit Courts Proper.

Source: The Judiciary, State of Hawaii, Annual Report, Statistical Supplement for 1990, 1991, and 1992.

Table 127.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:
ANNUAL AVERAGES, 1982 TO 1992

[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
1982	1,155	681	86	295	...	85	8
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

1/ Includes "other jurisdiction" population, not separately shown.

2/ As of 1992, 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 128.-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED FELON POPULATION: 1982 TO 1992

[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		
			Minimum	Maximum	Minimum	Maximum	Time served
1982	26.8	27.3	38.8	135.8	58.8	131.6	52.2
1983	27.5	29.2	49.2	127.2	40.5	98.5	47.5
1984	27.9	30.3	53.8	142.2	39.7	112.8	46.2
1985	29.3	28.2	47.5	145.7	53.0	126.0	42.7
1986	30.4	29.4	33.3	148.9	54.1	122.7	41.5
1987	27.0	31.0	45.9	115.6	42.5	132.4	40.3
1988	29.0	29.0	46.9	115.9	61.1	126.9	39.4
1989	30.1	28.7	43.9	132.6	73.5	109.2	43.9
1990	30.2	30.7	45.1	122.6	(NA)	(NA)	42.8
1991	32.1	33.6	(NA)	140.5	(NA)	(NA)	43.2
1992	31.9	34.6	(NA)	128.5	(NA)	(NA)	39.7

NA Not available.

1/ For sentenced felon population on June 30. Due to a change in computerized data systems, data for 1983 and later years are not directly comparable with figures for previous years.

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 129.-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:
1989 AND 1990

[Years ended June 30]

Item	1989	1990
Number of parolees, June 30 <u>1/</u>	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 <u>2/</u>	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 1991 were found to have enterococci levels per 100 ml. ranging from 0.5 to 427.3, and 69 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 1.5 billion cubic meters of lava by September 1991. 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 1985 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: 1992, Section 6.

Table 130.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES

Places	Statute miles	Nautical miles	Kilo-meters
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 130.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES -- Con.

Places	Statute miles	Nautical miles	Kilo-meters
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 131.-- TIME DIFFERENTIALS BETWEEN HONOLULU AND SELECTED CITIES: 1992

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 Co., Oahu Telephone Book 1992-1993, p. 38; consulates; airlines.

Table 132.-- LATITUDES AND LONGITUDES OF SELECTED PLACES

Island and place	Latitude (North)	Longitude (West)
Hawaii:		
Hilo (International Airport).....	19°43'	155°04'
Cape Kumukahi	19°31'	154°49'
Ka Lae	18°56'	155°41'
Keahole Point	19°44'	156°04'
Upolu Point	20°16'	155°51'
Geographic center of State (off Maui).	20°15'	156°20'
Maui:		
Wailuku	20°53'	156°30'
Kahului (Airport)	20°54'	156°26'
Hana	20°45'	155°59'
Cape Hanamanioa	20°35'	156°25'
Lahaina	20°52'	156°41'
Kahoolawe:		
Puu Moaulanui	20°34'	156°34'
Lanai:		
Airport	20°48'	156°57'
Molokai:		
Kaunakakai	21°05'	157°02'
Laau Point	21°06'	157°19'
Cape Halawa	21°10'	156°43'
Oahu:		
Honolulu: International Airport ...	21°20'	157°55'
Aloha Tower	21°19'	157°52'
Kaena Point	21°35'	158°17'
Kahuku Point	21°43'	157°59'
Makapuu Point	21°19'	157°39'
Diamond Head	21°16'	157°49'
Kauai:		
Lihue (Kauai Airport)	21°59'	159°21'
Mana	22°02'	159°46'
Kilauea Point	22°14'	159°24'
Niihau:		
Puuwai	21°54'	160°12'
Kure Atoll	28°25'	178°22'

Source: U.S. Board on Geographic Names, Gazetteer No. 24, Hawaiian Islands (1956); U.S. Geological Survey, Elevations and Distances in the United States (1980), pp. 17 and 22-23; U.S. Department of Commerce, National Climatic Data Center, Local Climatological Data, Annual Summary with Comparative Data, 1984 for Hilo, Kahului, Honolulu, and Lihue; Bernice P. Bishop Museum, records; Hawaii State Department of Accounting and General Services, Survey Division, records.

Table 133.-- 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-Nihoa	133.9	215.5	14,550	4,435
Nihoa-Necker I.	179.6	289.0	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	12,780	3,895
French Frigate Shoals-Gardner Pinnacles ..	137.0	220.5	11,448	3,489
Gardner Pinnacles-Marø Reef	155.5	250.3	12,300	3,749
Marø Reef-Laysan I.	65.9	106.1	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	15,840	4,828
Midway Islands-Kure Atoll	57.1	91.9	12,960	3,950

1/ Listed in geographic order, from east to west. The channels between major islands were measured between the following points:

Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
 Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
 Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
 Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
 Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
 Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
 Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
 Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai;
 Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau.

2/ Width measured in statute miles between designated points on National Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, in November 1980.

Table 134.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline <u>1/</u>		Tidal shoreline <u>2/</u>	
	Statute miles	Kilo-meters <u>3/</u>	Statute miles	Kilo-meters <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
Niihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

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

2/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals.
1 mi. = 1.609 km.

4/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Department of Commerce, National Ocean Survey, The Coastline of the United States (1975) and records.

Table 135.-- 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 136.-- LAND AND WATER AREA OF COUNTIES: 1990

[See maps on pages 6 and 7]

Measurement unit and type of area	State total	Hawaii	Maui	Kala- wao	Hono- lulu	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 137.-- 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
Nihoa	0.271	0.701	173
Necker Island	0.071	0.183	45
French Frigate Shoals	0.096	0.249	62
Gardner Pinnacles	0.009	0.024	6
Maro Reef	Awash	Awash	Awash
Laysan Island	1.588	4.114	1,017
Lisianski Island	0.601	1.556	384
Pearl and Hermes Atoll	0.139	0.359	89
Kure Atoll	0.333	0.863	213
OTHER ISLANDS <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 138.-- MAJOR AND MINOR ISLANDS IN THE HAWAIIAN ARCHIPELAGO

Classification	Number of islands		Land area (square miles)
	Total	Inhabited, 1990 <u>1/</u>	
All named islands	137	12	6,427.0
Major islands	8	7	6,419.4
Named minor islands <u>2/</u>	129	5	7.6
Offshore of major islands	96	3	2.6
Northwestern Hawaiian Islands <u>3/</u>	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 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 139.-- AREA AND DEPTH OF SELECTED CRATERS

Island and crater	Area (acres)	Maximum depth (feet)
Hawaii:		
Kilauea Caldera	2,319	476
Mokuaweoweo Crater <u>1/</u>	2,221	572
Maui:		
Haleakala Crater <u>2/</u>	12,575	3,028
Oahu:		
Diamond Head Crater	255	562
Koko Crater	133	968
Punchbowl Crater	62	140

1/ Data exclude North and South Pits.

2/ Data exclude Koolau and Kaupo Gaps.

Source: Measured from U.S. Geological Survey maps by DBED.

Table 140.-- 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
Kaunuohua	4,535	1,382
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 140.-- ELEVATIONS OF MAJOR SUMMITS -- Con.

Island and summit	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
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 141.-- LENGTH AND WIDTH OF SELECTED BEACHES

[Includes the longest white sand beach on each inhabited island,
plus other important beaches]

Island and beach	Length (miles)	Width 1/ (feet)
Hawaii:		
Hapuna	0.5+	200+
Maui:		
Spreckelsville	2+	(NA)
Kaanapali	1.5	60-80
Lanai:		
Polihua	1.5+	(NA)
Molokai:		
Papohaku	2+	300
Oahu:		
Waikiki	2	(NA)
Waimanalo	3.5-4.5	(NA)
Sunset	2-3+	200
Kauai:		
Polihale to Kekaha	15	300
Polihale	3	300
Niihau:		
Keawanui	3.5	175

NA Not available.

1/ Summer averages. Many beaches in Hawaii are seasonally reduced in width by winter storms.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), pp. 33, 47, 55, 62, 68, and 100; John R. K. Clark, Beaches of the Big Island (1985), p. 132, The Beaches of Maui County (1980), pp. 10, 62, 84-85, and 114, The Beaches of O'ahu (1977), pp. 45, 125, and 177, and Beaches of Kaua'i and Ni'ihau (1990), pp. 48-49 and 84.

Table 142.-- MAJOR STREAMS, BY ISLANDS: 1992

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream .	19.5
Niihau	Keanaulii-Puniopo Valley ...	5.9
Largest perennial stream (miles): ^{1/}		
Hawaii	Wailuku River	22.7
Maui	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 (million gal./day):		
Hawaii	Wailuku River	250
Maui	Iao Stream	45
Molokai	Wailau Stream	30
Oahu	Waikele Stream	25
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 Pelekumu (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.

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

Table 143.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1992

Island and lake	Type	Elevation (feet)	Area ^{1/} (acres)	Maximum depth (feet)
Hawaii:				
Aimakapa	Coastal pool .	(SL)	15	(NA)
Green Lake	Lake	3	2	20
Lake Waiiau ^{2/}	Lake	13,020	2	10
Waiakea Pond	Tidal pond ...	(SL)	27	7
Maui:				
Kanaha Pond	Marsh	(SL)	41	3
Kealia Pond	Marsh	(SL)	500	(NA)
Waieleele	Pond	6,690	0.5	21
Molokai:				
Kauhako	Pool	(SL)	0.9	814
Kualapuu Reservoir ..	Reservoir	821	100	50
Meyer Lake	Impoundment ..	2,021	6-10	5
Oahu:				
Ho'omaluhia	Reservoir	202	90	90
Kaelepulu Pond	Lake	(SL)	198	(NA)
Kawainui Marsh	Marsh	(SL)	1,000	(NA)
Wahiawa Reservoir ...	Reservoir	842	302	85
Kauai:				
Nomilu Fishpond	Pond	(SL)	20	66
Waita Reservoir	Reservoir	241	424	23
Niihau:				
Halalii Lake	Playa	(SL)	841-865	(NA)
Halulu Lake	Playa	(SL)	182-371	(NA)
Laysan:				
Laysan Lagoon	Closed lagoon	(SL)	161	16

NA Not available.

SL Sea level.

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

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

Continued on next page.

Table 143.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1992 - Con.

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); Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, April 7, 1992; Hawaii State Department of Planning and Economic Development, Resource Management Plan for Kawainui Marsh (March 1983); William H. Meyer, U.S. Fish and Wildlife Service, transmittal letter (to DPED, Coastal Zone Management Program), for Kealia Pond National Wildlife Refuge, Maui, Hawaii, Final EIS (August 1981).

Table 144.-- MAJOR NAMED WATERFALLS, BY ISLANDS: 1992

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)	<u>1/</u> 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 and Land Development, records.

Table 145.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

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 146.-- VOLCANIC ERUPTIONS: 1969 TO 1992

[Complete through December 31, 1992. 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 <u>1/</u>	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 31	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 <u>2/</u>	3.3	3,650	ER	780-650	83.4	<u>3/</u> 1,409.0

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

2/ Still in progress, December 31, 1992. As of that time, there had been 52 separate episodes. These had destroyed 181 housing units and added 379 acres to the area of the island.

3/ Computed up to February 6, 1992.

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 147.-- 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 148.-- EARTHQUAKES WITH HONOLULU INTENSITIES OF
V OR GREATER: 1859 TO 1993

[Complete to January 13, 1993]

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

NA Not available.

1/ Modified Mercalli Scale of 1931, 1956 abridged version further simplified. This scale, which extends from I to XII, reads in part:

IV. Hanging objects swing. Vibration like passing of heavy trucks or sensation of a jolt. Standing autos rock. Windows, dishes, doors rattle. Crockery clashes. In the upper part of range wooden construction creaks.

V. Felt outdoors; direction estimated. Sleepers wakened. Liquids disturbed, some spilled. Small unstable objects displaced or upset. Doors, shutters, pictures swing. Pendulum clocks stop.

VI. Felt by all. Many frightened, run outdoors. Persons walk unsteadily. Windows, dishes, glassware broken. Knickknacks, books thrown off shelves, pictures off walls. Furniture moved, overturned. Weak plaster and masonry cracked. Small bells ring. Trees, bushes noticeably shaken.

VII. Difficulty in standing. Noticed by drivers of autos. Hanging objects quiver. Furniture broken. Damage to weak masonry. Weak chimneys broken at roof line. Fall of plaster, loose bricks, etc. Some cracks in ordinary masonry. Waves on ponds. Small slides on sand and gravel banks. Large bells ring. Irrigation ditches damaged.

Source: Doak C. Cox, "Earthquake Experience in Honolulu," The Hawaiian Journal of History, Vol. 21 (1987), pp. 98-109, as updated by Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii at Manoa, January 14, 1993.

Table 149.-- 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 150.-- MAJOR DAMS: 1992

Name	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre-ft.)
Wahiawa Dam	Wahiawa, Oahu	98	460	7,671
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

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

Table 151.-- WATER USE, BY TYPE, BY ISLANDS: 1985

[Million gallons per day]

Use	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai	Niihau
Total	1,405.14	165.80	471.96	2.99	12.76	401.56	349.53	0.54
Ground water	649.43	72.89	149.72	2.99	5.31	358.14	59.84	0.54
Domestic	182.81	15.71	14.09	0.41	1.32	140.53	10.48	0.27
Agricultural ..	333.35	0.30	135.04	2.58	3.99	144.62	46.55	0.27
Industrial	16.19	5.26	0.59	-	-	10.03	0.31	-
Thermoelectric	86.04	51.62	-	-	-	34.42	-	-
Commercial	31.04	-	-	-	-	28.54	2.50	-
Surface water ...	755.71	92.91	322.24	-	7.45	43.42	289.69	-
Domestic	16.96	9.00	7.56	-	0.07	-	0.33	-
Agricultural ..	567.86	46.12	310.26	-	7.38	43.42	160.68	-
Industrial	2.70	-	-	-	-	-	2.70	-
Thermoelectric	3.80	-	-	-	-	-	3.80	-
Hydroelectric .	164.39	37.79	4.42	-	-	-	122.18	-

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.

Table 152.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS:
1991 AND 1992

Geographic area	Number of services, June 30		Consumption (million gallons) <u>1/</u>	
	1991	1992	1991	1992
State total	213,194	216,001	72,642	74,118
City and County of Honolulu	142,466	143,615	50,663	51,241
Honolulu <u>2/</u>	60,480	60,564	27,111	26,734
Rest of Oahu	81,986	83,051	23,552	24,507
Hawaii County	30,848	31,564	7,356	8,025
Kauai County	14,949	15,414	4,465	4,453
Maui County	24,931	25,408	10,158	10,399
Maui	23,513	23,957	9,838	10,071
Molokai	1,418	1,451	320	328

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 153.-- ENVIRONMENTAL QUALITY INDEXES AND RANKS: 1988-1989

Measure	Median State	Hawaii	Hawaii rank <u>1/</u>
Air pollution standard index, 1989 <u>2/</u>	100	44	4
Toxic chemicals released, 1988 (pounds per person) <u>2/</u>	20	3	2
Unsafe drinking water, 1988 (percent of population) <u>3/</u>	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 154.-- ENVIRONMENTAL HEALTH SCORES AND RANKS: 1991

Category	Number of indicators	Median State score	Hawaii	
			Score	Rank <u>1/</u>
Total	256	6,869	5,522	12
Conditions	179	4,530	3,283	1
Policies	77	2,296	2,239	24

1/ Among 50 States.

Source: Bob Hall and Mary Lee Kerr, 1991-1992 Green Index: A State-by-State Guide to the Nation's Environmental Health (1991), pp. 3-5.

Table 155.-- WATER QUALITY AT PUBLIC BEACHES, BY ISLANDS: 1991

Island	Number of locations	Number of samples	Enterococci density <u>1/</u>			
			Lowest <u>2/</u>	Highest <u>3/</u>	Number over 7	Mean <u>4/</u>
State total ..	159	3,286	0.5	427.3	49	3.5
Hawaii	43	636	0.6	45.7	14	4.9
Hilo Shoreline ..	22	238	0.6	45.7	12	7.6
Kona Shoreline ..	21	398	0.6	14.2	2	2.1
Maui	31	287	0.5	19.3	1	1.5
Lanai	2	12	0.6	3.8	-	1.9
Molokai	2	18	0.6	6.5	-	6.2
Oahu	54	2,030	0.5	427.3	10	3.8
Kauai	27	303	0.7	97.2	10	4.7

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 1991 was that reported for one Oahu location, the central region of Kaneohe Bay on Oahu.

3/ The highest average value in 1991 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 156.-- WATER QUALITY AT SELECTED PUBLIC BEACHES:
1990 AND 1991

Island and beach	Number of samples		Enterococci density ^{1/}	
	1990	1991	1990	1991
Hawaii:				
Hapuna Beach	4	22	5.2	1.1
Kahaluu Beach	10	21	1.2	1.3
Kealakekua Bay (curio stand)	6	15	2.9	2.5
Mooheau Park	11	-	5.2	-
Spencer Beach Park	4	22	2.0	1.6
Maui:				
Kapalua (Fleming) Beach	13	9	2.7	2.4
Kihei (north)	12	10	0.9	1.0
Makena Beach	12	12	0.8	0.8
Seven Pools	6	6	1.2	1.5
Sheraton Kaanapali	12	9	1.1	0.8
Lanai:				
Hulopoe Bay	9	6	0.8	0.9
Molokai:				
Kaunakakai Harbor	10	10	5.5	6.5
Oahu:				
Ala Moana Park (center)	17	12	2.4	3.2
Ewa Beach Park	50	51	1.3	2.0
Haleiwa Beach	36	38	12.4	9.0
Hanauma Bay	69	59	6.8	11.3
Kailua Beach Park	43	54	4.3	4.3
Kuhio Beach	50	53	11.8	24.8
Makaha Beach	41	52	2.0	1.1
Waimea Beach	37	50	6.5	3.2
Kauai:				
Anini Park Pavilion	9	12	4.2	3.2
Kalapaki Beach	12	12	5.3	14.6
Kekaha (Oomano Pt.)	9	11	1.2	2.0
Poipu Beach Pavilion	12	13	1.0	2.6
W. of Lydgate Park (wading pool) ..	10	12	8.0	1.1

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

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

Table 157.-- REFUSE AND SEWAGE STATISTICS FOR OAHU: 1982 TO 1992

[Fiscal years]

Year	Tons of refuse delivered <u>1/</u>			Sewage treated <u>2/</u> (millions of gallons)
	Total	City and County refuse vehicles	Other vehicles	
1982	665,276	363,471	301,805	34,830
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	954,740	274,509	680,231	41,763
1991	1,209,105	293,857	915,248	44,484
1992	1,080,238	317,636	762,602	42,705

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
1982	44,687	1,646	50	21
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

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 158.-- HAZARDOUS WASTE SITES ON THE NATIONAL PRIORITY LIST: 1990 AND 1991

[Includes both proposed and final sites]

Category	Number	Rank <u>1/</u>
1990	7	42
1991	2	47

1/ Among the 50 States. The national total was 1,207 sites in 1990 and 1,201 in 1991.

Source: EPA data cited in Statistical Abstract of the United States for 1991 (p. 211) and 1992 (p. 215).

Table 159.-- LITTER ALONG OAHU HIGHWAYS: 1979 TO 1988

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

Source: Daniel B. Syrek, Hawaii Litter: 1988 (Sacramento: The Institute for Applied Research, for the Hawaii State Department of Health, Litter Control Office, May 13, 1988).

Table 160.-- AIR QUALITY IN DOWNTOWN HONOLULU:
1981 TO 1991

[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
1981	40	19	1989	30	< 5
1982	29	11	1990	30	< 5
1983	26	<5	1991	30	< 5
1984	25	<5			
1985	24	<5	Standards: <u>1/</u>		
1986	25	<5	Primary ...	75	80
1987	26	<5	Secondary .	60	...
1988	26	<5			

1/ Primary and secondary national ambient air quality standards have been promulgated by the Federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Clean Air Branch, data supplied May 4, 1992.

Table 161.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1991

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

Sampling station	Total suspended particulates <u>1/</u>			Sulfur dioxide		
	Annual range		Arith- metic average	Annual range		Arith- metic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point <u>2/</u>	12	68	32	<5	<5	<5
Downtown Honolulu	18	54	30	<5	<5	<5
Liliha	19	54	32	...	...	...
Pearl City	8	29	15	...	...	...
Waimanalo	2	41	17	...	...	...
Maui:						
Lahaina	10	30	16	...	...	...
Kauai:						
Lihue	9	41	17	...	...	...

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

2/ Sampling site discontinued after April 1991. Four months of data.

Source: Hawaii State Department of Health, Clean Air Branch, data supplied May 4, 1992.

Table 162.-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT MAUNA LOA:
ANNUAL MEAN VALUES, 1958 TO 1991

[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		
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 163.-- 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 <u>1/</u>	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 <u>2/</u>	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 <u>3/</u>	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
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

Continued on next page.

Table 163.-- 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)
		Coollest month	Warmest month	Lowest	Highest	
Oahu (con.):						
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 December 3, 1992.

Table 164.-- 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	56	67
Wind speed (m.p.h.):				
Mean	7.2	12.8	11.4	12.3
Fastest observation, 1 minute <u>1/</u>	35	44	46	65
Percent of possible sunshine	41	67	69	57
Mean number of days:				
Clear	35.5	131.7	89.3	54.3
Partly cloudy	130.3	143.1	179.9	182.5
Cloudy	199.5	90.5	96.0	128.5
Precipitation .01 inch or more .	278.7	99.2	99.0	201.4

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, 1991 for Hilo, Kahului, Honolulu, and Lihue.

Table 165.-- 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	64	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 165.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent)		Wind (miles/hour)		Percent of possible sunshine	Mean sky cover, sunrise to sunset ^{2/}	Mean number of days		
	8 A.M.	2 P.M.	Mean speed	Fastest obs. ^{1/}			Sunrise to sunset		Precip. .01 inch or more
							Clear	Cloudy	
January ..	81	61	9.6	32	63	5.4	9.3	8.7	9.7
February .	79	59	10.2	35	65	5.5	8.0	7.9	9.3
March	73	57	11.4	30	69	5.9	7.2	9.6	9.0
April	70	56	11.9	31	68	6.2	5.4	10.3	9.0
May	67	53	11.9	30	69	5.9	6.5	9.2	7.3
June	66	52	12.7	26	72	5.6	6.1	6.7	5.8
July	67	51	13.2	28	75	5.2	7.7	5.2	7.4
August ...	68	52	12.8	28	76	5.2	8.1	6.0	6.2
September	68	52	11.3	26	76	5.2	8.2	5.8	7.0
October ..	70	55	10.5	25	68	5.6	7.5	8.3	8.7
November .	75	58	10.7	46	61	5.7	7.0	9.2	9.2
December .	79	61	10.4	30	60	5.5	8.4	9.3	10.2
Annual ...	72	56	11.4	46	69	5.6	89.3	96.0	99.0

T Trace amount.

^{1/} Fastest observation, 1 minute, during 10-year 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, 1991.

Table 166.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY,
1981 TO 1991

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1981 ...	77.1	73.2	80.7	53	90	13.41
1982 ...	76.9	71.7	81.4	56	92	34.92
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

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 <u>1/</u>		
1981 ...	76	59	10.7	30	72	97
1982 ...	73	59	10.4	46	56	124
1983 ...	75	52	9.8	23	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

1/ Before 1984, figures refer 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, Honolulu, Hawaii (annual).

Table 167.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.) ..	February	Mauna Kea summit ..	23.5
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit ..	31.3
Highest monthly average maximum temp. (°F.) .	September	Kawaihae 1/	91.9
Highest monthly average daily temp. (°F.) ...	September	Kawaihae <u>I</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 December 7, 1992.

Table 168.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1981 TO 1991

[In inches]

Year	Hawaii				Maui		
	Hilo Airport	Wai-me <u>1</u> / mea	Kona Village	Naalehu	Kahului Airport	Kihei	Lahaina
1981 ...	89.91	13.30	7.02	45.86	12.85	9.72	8.13
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
Year	Oahu				Kauai		
	Waikiki	Univ. of Hawaii	Nuuanu Res. 4	Kane- <u>2</u> / ohe	Koloa	Lihue Airport	Princeville
1981 ...	19.09	31.71	112.46	69.65	66.26	38.14	130.72
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

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 169.-- MAJOR HURRICANES: 1950 TO 1992

[Complete to December 3, 1992]

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	4	1,200

NA Not available.

^{1/} Period affecting the Hawaiian Islands.

Source: Samuel L. Shaw, A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979 (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981); Hawaii State Department of Defense, Civil Defense Division, Catalogue of Natural and Man-Caused Incidents and Disasters in the Hawaiian Islands (December 1978); The Governor's Ad Hoc Committee on the Economic Impact of Hurricane Iwa, Hurricane Iwa's Economic Impact on Hawaii (January 1983); "The History of Hurricanes in Hawaii," Honolulu Star-Bulletin, July 18, 1983, p. A-5; "20-Foot Waves Hit Big Isle As Storm Brushes Coastline," 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 Dec. 3, 1992.

Table 170.-- 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 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, Weather in Hawaiian Waters (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74; Hawaii State Department of Land and Natural Resources, Division of Water Resource Management, data provided December 3, 1992.

Table 171.-- 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 172.-- 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 173.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1987 TO 1990

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

Species <u>1/</u>	1987	1988	1989	1990
All species:				
Species	50	48	48	48
Individual birds ..	29,009	29,909	25,405	18,705
Endemic species:				
'Apapane	79	173	21	4
Hawaiian Coot	10	38	34	8
Hawaiian Stilt	149	135	149	143
Oahu 'Amakihi	155	108	107	151
Indigenous species:				
Great Frigatebird	15	24	62	82
Red-footed Booby	785	748	1,359	363
Introduced species:				
Cattle Egret	1,009	789	289	378
Common Myna	5,752	5,417	2,756	2,732
House Sparrow	2,156	1,426	1,642	849
Japanese White-eye	1,455	1,024	1,061	1,061
Red-vented Bulbul	2,361	2,256	2,196	1,705
Spotted Dove	2,398	2,284	1,972	1,642
Zebra (Barred) Dove	5,830	8,739	7,047	4,179
Migratory species:				
Lesser Golden-Plover ...	1,673	2,046	1,601	1,594
Ruddy Turnstone	272	373	230	314

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, Hawaiian Birdlife (1972).

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

Table 174.-- HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA, BY TYPE OF SPECIES: DECEMBER 16, 1990

Type of species ^{1/}	Number of species	Number of individuals
All species	48	18,705
Endemic	7	323
Indigenous	6	551
Introduced	29	16,175
Migratory	6	1,947

^{1/} For definitions, see preceding table, footnote 1.
Source: Hawaii Audubon Society, records.

Table 175.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1987 TO 1991

[As of June 30]

Location	1987	1988	1989	1990	1991
Along City and County streets and highways ^{1/} ...	121,100	122,253	123,533	124,650	125,236
In City and County parks	97,101	97,434	97,672	98,330	98,599

^{1/} Excludes Federal, State, and private thoroughfares.
Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 176.-- THREATENED, ENDANGERED, AND EXTINCT SPECIES OF NATIVE FAUNA AND FLORA: DECEMBER 1990

Type of fauna or flora	Native species	Candidate <u>1/</u>	Proposed endangered <u>1/</u>	Threatened <u>1/</u>	Endangered <u>1/</u>	Extinct <u>2/</u>
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 29,700 in 1991; during the same 20-year span, agricultural land declined from 88,900 to 70,600 acres. For the State as a whole, the Land Use Commission has zoned 181,000 acres as urban, 1,960,000 as conservation, 1,961,000 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 1989 came to 677,000 acres, exclusive of leased land (8,400 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 1992 numbered 438,000.

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: 1992.

Table 177.-- LAND OWNERSHIP, COVER, OR USE: 1982 AND 1987

[In thousands 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 178.-- 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 179.-- LAND PARCELS, BY COUNTIES: 1987 TO 1992

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1987	409,069	215,207	48,568	122,180	23,114
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

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 180.-- CEMETERIES, CHURCHES, HOSPITALS, AND SCHOOLS, BY COUNTIES: 1992

[Privately-owned parcels exempt from real property taxes]

Category	State total	Honolulu	Maui	Hawaii	Kauai
Cemeteries	111	48	5	50	8
Churches	1,411	800	210	270	131
Hospitals	80	67	11	-	2
Schools	147	101	5	39	2

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions, 1992-1993 Tax Year, State of Hawaii (July 1992), p. 6.

Table 181.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1992

[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 <u>1/</u>	Classification by State Land Use Commission <u>2/</u>			
		Urban	Conservation	Agricultural	Rural
UNADJUSTED <u>3/</u>					
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
1980: January ..	4,111,500	152,199	1,975,865	1,974,196	9,240
1981: January ..	4,111,500	154,319	1,975,836	1,972,104	9,241
1982: January ..	4,111,500	154,726	1,975,672	1,971,886	9,216
1983: January ..	4,112,388	156,413	1,975,473	1,971,279	9,223
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 <u>3/</u>					
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

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5. The increase in the 1983 total area reflects additions to the Urban District on Oahu at Honolulu International Airport (Reef runway and South Ramp refill) created from former submerged lands.

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

3/ For changes in classification resulting from court decisions on past Commission actions.

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

Table 182.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS:
JANUARY 1992

[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 <u>1/</u>	Classification by State Land Use Commission <u>2/</u>			
		Urban	Conservation	Agricultural	Rural
State total	4,112,388	181,407	1,959,621	1,961,294	10,066
Hawaii	2,573,400	48,431	1,293,343	1,230,998	628
Maui	465,800	19,581	193,652	248,818	3,748
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,054	38,197	46,679	2,571
Molokai	165,800	2,509	49,768	111,657	1,866
Oahu	386,188	94,724	154,846	136,618	-
Kauai	353,900	13,108	198,715	140,824	1,253
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands <u>3/</u>	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 183.-- 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 184.-- LAND IN HAWAII OWNED BY LARGE AND SMALL LANDOWNERS:
1989, 1990, AND 1991

Ownership	1989	1990	1991
Land area of State (acres) <u>1/</u>	4,035,601	4,035,601	4,035,601
Owned by government <u>1/</u>	1,541,175	1,541,175	1,541,175
Owned privately <u>1/</u>	2,494,426	2,494,426	2,494,426
Six large owners <u>2/</u>	909,006	907,013	905,484
Bernice P. Bishop Estate <u>3/</u> ...	338,414	337,000	337,152
Richard S. Smart (Parker Ranch) <u>4/</u>	139,301	139,301	138,605
Dole Food Company, Inc. <u>5/</u>	129,125	129,004	128,854
Samuel M. Damon Estate <u>5/</u>	121,608	121,608	121,608
Alexander and Baldwin, Inc. <u>5/</u>	91,952	91,900	91,800
C. Brewer and Company, Ltd. <u>5/</u>	88,606	88,200	87,465
All others	1,585,420	1,587,413	1,588,942
Percent of total land area	100.0	100.0	100.0
Owned by government	38.2	38.2	38.2
Owned privately	61.8	61.8	61.8
Six large owners	22.5	22.5	22.4
All others	39.3	39.3	39.4
Percent of privately owned land	100.0	100.0	100.0
Six large owners	36.4	36.4	36.3
All others	63.6	63.6	63.7

1/ Fall data. Not surveyed 1989 or later years, and 1988 amount has been repeated. Because of the omission of public thoroughfares and for other reasons, the State total may vary from year to year and also may differ from official area estimates in other tables of this volume.

2/ Some of these figures are not exact accountings but are the landowners' best estimates.

3/ As of June 30.

4/ As of December 31. The total size of the Parker Ranch, including leased land, was 225,000 acres during this period.

5/ As of December 31.

Source: State total, government total, and private total from The State of Hawaii Data Book 1988, table 187; six large owners from DBED surveys of those owners; all other owners calculated as a residual.

Table 185.-- REAL PROPERTY OWNED BY OR LEASED TO
THE FEDERAL GOVERNMENT: 1988 TO 1990

Subject	Sept. 30, 1988 <u>1/</u>	Sept. 30, 1989	Sept. 30, 1990
OWNED			
Number of installations	(NA)	320	279
Land area, total (acres)	673,464.2	676,823.9	637,258.7
Urban	(NA)	68,903.3	117,888.5
Rural	(NA)	607,920.6	519,370.2
Number of buildings	(NA)	15,533	16,243
Floor area of bldgs. (1,000 sq. ft.)	(NA)	73,033	(NA)
Cost, total (\$1,000) <u>2/</u>	(NA)	2,153,155	2,680,528
Land	(NA)	157,980	53,596
Buildings	(NA)	1,375,116	1,748,804
Structures and facilities	(NA)	620,059	878,128
Predominant usage (acres):			
Agriculture and grazing	(NA)	-	-
Forest and wildlife	(NA)	267,190.4	271,237.0
Parks and historic sites	(NA)	245,110.1	245,108.6
Power development and distribution	(NA)	-	-
Military, excluding airfields	(NA)	108,564.1	107,323.0
Airfields	(NA)	5,231.0	5,051.3
Harbor and port facilities	(NA)	23.6	0.8
Reclamation and irrigation	(NA)	-	-
Office building locations	(NA)	56.8	62.9
Flood control and navigation	(NA)	1,424.2	7,674.0
Vacant	(NA)	3.0	1.5
Institutional	(NA)	-	-
Housing	(NA)	87.4	87.4
Storage	(NA)	778.2	6.8
Industrial	(NA)	8,400.7	42.9
Research and development	(NA)	360.2	183.0
Other land	(NA)	39,594.2	479.5
LEASED			
Number of leases	263	300	256
Land area, total (acres)	7,418.9	8,419.9	8,759.2
Urban	309.7	312.8	511.0
Rural	7,109.2	8,107.1	8,248.2
Number of building locations	182	235	217
Floor area of buildings (sq. ft.) ..	548,240	689,146	681,945
Annual rental (\$1,000)	4,377	6,822	6,451

Footnote and source on next page.

Table 185.-- REAL PROPERTY OWNED BY OR LEASED TO
THE FEDERAL GOVERNMENT: 1988 TO 1990 -- Con.

NA Not available.

1/ Land owned corrected from published total (284,719.5 acres).

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

Source: U.S. General Services Administration, Summary Report of Real Property Owned by the United States Throughout the World (annual) and Summary Report of Real Property Leased by the United States Throughout the World (annual); GSA letter to DBEDT dated August 1, 1990; tables provided by GSA to DBEDT, January 29, 1993.

Table 186.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1991

[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	37,823	5,983	4,601	21,562	12,513
Hawaii	107,883	26,053	1,752	1,026	8,202	3,777
Mauī	28,995	541	560	492	4,295	2,138
Molokai	25,366	9,477	795	319	1,251	599
Oahu	6,600	921	2,429	2,365	5,339	4,828
Kauai	18,569	831	447	399	2,475	1,171

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 at about 12,300. Data are subject to audit.

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

Table 187.-- 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 1/	355.1	9.9	297.2	39.5	8.5
Revocable permit 2/	142.2	3.9	45.7	37.4	55.2
Unencumbered lands 3/...	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 6,514,000 visitors stayed overnight or longer in Hawaii during 1992, compared with 4,243,000 in 1982 and only 2,244,000 in 1972. The average number present at any given time during 1992 was 153,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1991 were estimated by the Hawaii Visitors Bureau at \$9.8 billion, compared with \$3.2 billion a decade earlier. The 1991 visitor total included 4.44 million from other States, 320,000 from Canada, and 1.39 million from Japan. Expenditures per visitor day in 1991 averaged \$141 for westbound visitors and \$344 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, 77 State parks, 586 county parks, 65 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 388,000 Hawaii residents traveled to the Mainland or abroad in 1991. Twelve theatrical groups on Oahu reported 1,314 performances of 221 productions for the 1990-1991 season, with a combined audience of 830,000. During the 1991-1992 season, the Honolulu Symphony Orchestra gave 127 concerts, with a total attendance of 204,000. During the 1991-1992 school year, attendance at UH-Manoa varsity baseball, basketball, football and volleyball home games was 594,000.

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: 1992.

Table 188.-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND TRANSIT STATUS: 1982 TO 1991

Direction and status	1982	1983	1984	1985	1986
All directions ..	5,580,240	5,546,540	6,107,730	6,314,290	7,063,710
Landing	4,582,020	4,653,450	5,242,770	5,338,170	6,068,990
Intransit	998,220	893,090	864,960	976,120	994,720
Westbound <u>1</u> /	4,078,360	4,098,720	4,543,890	4,675,690	5,245,690
Landing	3,589,625	3,654,560	4,082,070	4,137,830	4,689,480
Intransit	488,735	444,160	461,820	537,860	556,210
Eastbound <u>2</u> /	1,501,880	1,447,820	1,563,840	1,638,600	1,818,020
Landing	992,390	998,890	1,160,700	1,200,340	1,379,510
Intransit	509,490	448,930	403,140	438,260	438,510
Direction and status	1987	1988	1989	1990	1991
All directions ..	7,324,280	7,894,680	8,236,250	8,507,330	8,272,760
Landing	6,248,550	6,715,600	7,149,700	7,453,550	7,286,140
Intransit	1,075,730	1,179,080	1,086,550	1,053,780	986,620
Westbound <u>1</u> /	5,214,520	5,443,980	5,734,910	5,692,950	5,444,070
Landing	4,617,230	4,793,580	5,115,410	5,127,690	4,913,650
Intransit	597,290	650,400	619,500	565,260	530,420
Eastbound <u>2</u> /	2,109,760	2,450,700	2,501,340	2,814,380	2,828,690
Landing	1,631,320	1,922,020	2,034,290	2,325,860	2,372,490
Intransit	478,440	528,680	467,050	488,520	456,200

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 189.-- PASSENGER STATUS OF PARTIES AND PASSENGERS ARRIVING IN HAWAII,
BY DIRECTION OF TRAVEL: 1989 TO 1991

Year and direction of travel	All types	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Return- ing resi- dents	Intended resi- dents
			Overnight or longer	In transit		
PARTIES <u>1/</u>						
1989, total ...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Westbound	2,232,200	1,919,710	126,080	(NA)	179,130	7,280
Eastbound <u>2/</u>	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
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 <u>2/</u>	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 <u>2/</u>	1,706,820	1,459,330	180,920	(NA)	61,450	5,120
PASSENGERS						
1989, total ...	8,236,250	6,159,530	482,290	1,093,340	478,560	22,530
Westbound	5,734,910	4,415,350	289,970	619,500	394,080	16,010
Eastbound <u>2/</u>	2,501,340	1,744,180	192,320	473,840	84,480	6,520
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 <u>2/</u>	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 <u>2/</u>	2,828,690	1,797,430	492,000	456,200	75,800	7,260

NA Not available.

1/ Not surveyed for in-transit passengers. The 1990 data have been revised.

2/ Including northbound.

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

Table 190.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1992

[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 <u>1/</u>	Other	Total	West-bound <u>1/</u>	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

1/ Arriving from the Mainland United States or Canada.Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 191.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII:
1990 AND 1991

Country of residence	1990: total	1991		
		Total	Westbound	Other <u>1/</u>
All visitors	6,971,180	6,873,890	4,584,460	2,289,430
United States <u>2/</u>	4,431,260	4,441,320	3,936,980	504,340
Canada	317,900	320,280	231,770	88,510
Asia	1,657,250	1,605,120	114,440	1,490,680
Japan	1,439,710	1,385,340	73,740	1,311,600
Taiwan	64,590	63,890	7,080	56,810
Korea	58,030	63,090	11,040	52,050
Hong Kong	21,160	21,230	4,810	16,420
China	17,450	16,940	470	16,470
Philippines	10,450	11,050	6,120	4,930
Singapore	15,960	13,530	3,500	10,030
Indonesia	9,910	10,830	3,270	7,560
Other Asia	19,990	19,220	4,410	14,810
South Pacific	324,060	273,530	144,860	128,670
Australia	220,160	200,970	110,580	90,390
New Zealand	93,360	63,270	33,430	29,840
Other South Pacific	10,540	9,290	850	8,440
Europe	221,840	209,820	140,040	69,780
United Kingdom	84,460	84,610	49,940	34,670
West Germany	54,230	47,340	35,860	11,480
Other Europe	83,150	77,870	54,240	23,630
Other foreign countries	18,870	23,820	16,370	7,450

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 192.-- 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 193.-- AVERAGE VISITOR CENSUS, BY COUNTIES AND ISLANDS:
1990 AND 1991

County or island	1990			1991		
	Total	West-bound	Other	Total	West-bound	Other
State total ..	162,070	125,590	36,480	157,590	121,330	36,260
Oahu	87,400	56,750	30,650	79,700	50,590	29,110
Hawaii County	16,970	15,390	1,580	18,630	16,870	1,760
Kauai County	18,200	17,200	1,000	19,020	17,470	1,550
Maui County	39,500	36,250	3,250	40,240	36,400	3,840
Lanai	250	230	20	900	860	40
Maui	38,150	34,980	3,170	37,870	34,140	3,730
Molokai	1,100	1,040	60	1,470	1,400	70

Source: Hawaii Visitors Bureau, 1990 Domestic Market, Visitors to Hawaii (1991), p. 77, and records.

Table 194.-- VISITOR ARRIVALS, WESTBOUND AND OTHER, BY AREAS VISITED:
1990 AND 1991

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

Areas visited	1990			1991		
	Total	West-bound	Other <u>1/</u>	Total	West-bound	Other <u>1/</u>
State total <u>2/</u>	6,971,180	4,719,730	2,251,450	6,873,890	4,584,460	2,289,430
Oahu	5,350,940	3,171,630	2,179,310	5,048,550	2,899,170	2,149,380
Kauai	1,286,360	1,118,930	167,430	1,267,620	1,085,290	182,330
Maui County <u>2/</u> ...	2,389,970	1,995,160	394,810	2,322,060	1,925,460	396,600
Maui	2,345,060	1,954,770	390,290	2,272,240	1,881,830	390,410
Molokai	103,630	95,130	8,500	96,620	87,750	8,870
Lanai	45,930	41,760	4,170	60,810	53,540	7,270
Hawaii County <u>2/</u> .	1,170,830	982,900	187,930	1,188,630	975,610	213,020
Kona side	1,030,900	877,930	152,970	1,020,390	864,170	156,220
Hilo side	391,470	332,070	59,400	388,530	298,470	90,060
One island only ..	4,574,820	2,912,570	1,662,250	4,660,030	2,917,740	1,742,290
Oahu only	3,253,200	1,658,430	1,594,770	3,154,910	1,537,020	1,617,890

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, records.

Table 195.-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS,
BY DIRECTION OF TRAVEL: 1990 AND 1991

Subject	Total	West-bound	Eastbound and northbound
1990 (revised)			
Residence (percent):			
United States	63.6	83.9	21.0
Pacific and Mountain States	33.7	46.2	7.5
California	23.0	31.6	4.9
Males per 100 females	(NA)	92.3	(NA)
Median age (years)	(NA)	38.8	(NA)
High-status occupations <u>1</u> / (percent)	44.6	54.3	25.6
Persons per party	1.69	1.80	1.51
Arriving June-August (percent)	28.5	28.0	29.4
Repeat visitors <u>2</u> / (percent)	50.7	56.1	40.1
Pleasure trip (percent).....	83.1	84.8	79.6
In hotel only	63.9	55.0	82.5
Destined beyond Hawaii (percent)	7.8	7.0	9.6
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

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 196.-- DEMOGRAPHIC CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL: 1991

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

Subject	Total	Westbound	Eastbound and northbound
All visitors	6,873,890	4,584,460	2,289,430
Age:			
Under 10 years	(NA)	288,440	(NA)
10 to 19 years	(NA)	398,930	(NA)
20 to 29 years	(NA)	864,690	(NA)
30 to 39 years	(NA)	1,022,020	(NA)
40 to 49 years	(NA)	943,590	(NA)
50 to 59 years	(NA)	550,550	(NA)
60 years and over	(NA)	516,240	(NA)
Median (years)	(NA)	37.2	(NA)
Sex:			
Male	3,628,040	2,272,860	1,355,180
Female	3,245,850	2,311,600	934,250
Males per 100 females	111.8	98.3	145.1
Residence:			
Pacific	2,007,050	1,835,610	171,440
Alaska	36,510	35,890	620
California	1,612,330	1,466,950	145,380
Oregon	108,310	100,370	7,940
Washington	249,890	232,400	17,490
Mountain	388,860	354,740	34,120
West North Central	264,100	232,190	31,910
West South Central	255,700	231,110	24,590
East North Central	486,680	422,050	64,580
East South Central	88,610	78,980	9,630
New England	152,200	130,700	21,500
Middle Atlantic	383,030	321,330	61,700
South Atlantic	385,480	325,260	60,220
U.S. territories	29,660	5,010	24,650
Canada	320,280	231,770	88,510
Japan	1,885,340	73,740	1,311,600
Other foreign	726,950	341,970	384,980

NA Not available.

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

Table 197.-- TRIP CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL:
1991

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

Subject	Total	Westbound	Eastbound or northbound
All visitors <u>1/</u>	6,873,890	4,584,460	2,289,430
Purpose of visit: <u>1/</u>			
Pleasure	5,519,750	3,716,420	1,803,330
Meetings, conventions, incentive <u>1/</u> .	487,810	366,850	120,960
Convention	291,560	244,560	47,000
Corporate meeting	77,770	62,210	15,560
Incentive	125,530	66,630	58,900
Other business	233,990	184,630	49,360
Visit friends or relatives	419,450	339,340	80,110
Government or military	101,290	65,940	35,350
Attend school	21,030	7,540	13,490
Other	362,150	119,190	242,960
Traveler method:			
Tour group	1,923,800	596,390	1,327,410
Non-group	4,950,090	3,988,070	962,020
Package	3,145,010	1,618,620	1,526,390
Non-package	3,728,880	2,965,840	763,040
Accommodations:			
Hotel	5,020,280	2,969,390	2,050,890
Hotel only	4,497,330	2,530,690	1,966,640
Condo	1,500,830	1,323,770	177,060
Condo only	1,093,570	988,050	105,520
Friends, relatives	604,980	513,240	91,740
Cruise ship	84,410	81,530	2,880
Other accommodations	251,450	192,660	58,790

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

Source: Hawaii Visitors Bureau, records.

Table 198.-- CHARACTERISTICS OF VISITOR PARTY HEADS, BY DIRECTION OF TRAVEL: 1991

[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	4,070,360	2,430,110	1,640,250
Occupation:			
Senior management	340,760	230,860	109,900
Middle management	369,010	267,310	101,700
Sales, marketing	413,720	233,290	180,430
Clerical	411,710	131,230	280,480
Professional	700,950	546,770	154,180
Technical, trade	321,320	145,810	175,510
Labor	107,890	29,160	78,730
Military service	65,790	51,030	14,760
Military dependent	7,290	7,290	0
Student	291,850	140,950	150,900
Self-employed	319,980	187,120	132,860
Retired	298,840	238,150	60,690
Other	421,250	221,140	200,110
Trips to Hawaii:			
First trip	1,892,590	942,880	949,710
Second trip	788,860	469,010	319,850
Third trip	384,680	260,020	124,660
Four trip and over	1,004,230	758,200	246,030
Persons in party:			
1 person	1,308,760	473,870	834,890
2 persons	1,875,000	1,302,550	572,450
3 persons	313,780	223,570	90,210
4 persons	346,100	262,450	83,650
5 persons or more	226,720	167,670	59,050

NA Not available.

Source: Hawaii Visitors Bureau, records.

Table 199.-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY DIRECTION OF TRAVEL: 1990 AND 1991

Length of stay	1990			1991		
	Total	West-bound	Eastbound and northbound	Total	West-bound	Eastbound and northbound
All visitors .	6,971,180	4,719,730	2,251,450	6,873,890	4,584,460	2,289,430
1 to 6 days	2,957,900	1,146,200	1,811,700	2,904,990	1,094,050	1,810,940
7 to 12 days	2,957,390	2,617,070	340,320	2,985,200	2,600,580	384,620
13 to 30 days	977,940	891,910	86,030	915,210	835,080	80,130
31 to 365 days	77,950	64,550	13,400	68,490	54,750	13,740
Median (days)	7.5	8.4	5.5	7.45	8.4	5.55
Mean (days)	8.5	9.7	5.9	8.37	9.66	5.78

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

Table 200.-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES: 1986 TO 1991

Subject	1986	1987	1988	1989	1990	1991
Arrivals (1,000)	731	905	1,217	1,319	1,440	1,385
Average stay (days)	5.9	5.9	5.8	6.0	5.9	5.9
Expenditures (mil. dol.)	1,296	1,702	2,252	2,514	2,500	2,797

Source: Hawaii Visitors Bureau, records.

Table 201.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF
MAINLAND VISITORS TO HAWAII: 1988 TO 1991

Subject	1988	1989	1990	1991
Number of respondents in sample	5,004	6,983	6,001	5,651
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under \$15,000	1.2	1.5	0.9	0.7
\$15,000 to \$24,999	6.4	5.5	4.1	2.0
\$25,000 to \$34,999	11.7	11.6	9.9	6.2
\$35,000 to \$49,999	22.9	20.0	23.0	16.4
\$50,000 to \$74,999	29.5	29.3	27.9	27.6
\$75,000 and over	28.3	32.1	34.2	47.1
Median income (dollars)	56,600	59,700	56,100	72,300
Mean income (dollars)	61,400	63,600	72,800	84,700
Education: college graduates (percent)	62.7	64.6	59.5	61.0
Using travel agent (percent)	81.8	80.7	79.8	74.0
Islands visited (percent):				
Oahu	65.6	67.1	64.0	63.6
Kauai	31.3	36.8	39.9	38.7
Maui	42.6	52.3	48.3	47.0
Hawaii	25.7	26.0	30.1	32.3
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	39.6	38.9	30.4	32.1
Above average	53.2	53.5	56.8	59.0
Average	6.8	6.9	10.9	8.0
Below average	0.4	0.5	1.8	0.8
Quite inferior	(Z)	0.1	0.1	0.1

Z Less than 0.05 percent.

Source: Hawaii Visitors Bureau, Visitor Reaction Survey, 1988
(1990), 1990 Visitor Satisfaction Report (1991), and unpublished data.

Table 202.-- MEETINGS AND CONVENTIONS: 1986 TO 1991

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue (\$1,000)
1986	810	250,703	98,591	249,042
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

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 203.-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1990 AND 1991

Island	Number of meetings held		Estimated attendance	
	1990	1991	1990	1991
State total	743	548	201,534	177,036
Hawaii:				
Hilo	5	4	1,588	6,642
Kona	132	134	34,293	31,981
Maui	148	122	37,569	35,450
Lanai	-	1	-	120
Molokai	1	1	80	75
Oahu	387	203	115,262	83,942
Kauai	70	83	12,742	18,826

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 204.-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS:
1931-1932 TO 1991

[Dollars]

Year	Main-landers	Japanese	Year	Main-landers	Japanese
1931-32 <u>1/</u>	17.50	(NA)	1983	85.88	227
1951	28.00	(NA)	1986	95.40	299
1960-61	32.00	(NA)	1987	102.49	324
1965-66 <u>1/</u>	37.23	(NA)	1988	121.44	350
1974	46.20	123	1989	127.84	322
1977	54.62	147	1990	136.30	294
1980	71.24	185	1991	140.54	344

NA Not available.

1/ Oahu only.

Source: Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey (1985), p. 31; 1989 Expenditures, Westbound Visitors to Hawaii (1990), pp. 29 and 30; and 1991 Visitor Expenditure Report (1992), pp. 6 and 68.

Table 205.-- AVERAGE EXPENDITURE PER VISITOR DAY IN CONSTANT DOLLARS,
FOR VISITORS FROM MAINLAND: 1931 TO 1991

Year	U.S. CPI (1982-84 = 100)	Average expend. per vis. day <u>1/</u>	Year	U.S. CPI (1982-84 = 100)	Average ex- pend. per vis. day <u>1/</u>
1931-32 <u>2/</u>	14.4	122	1980	82.4	86
1951	26.0	108	1983	99.6	86
1960-61	29.8	107	1986	109.6	87
1965-66 <u>2/</u>	32.0	116	1989	124.0	103
1974	49.3	94	1990	130.7	104
1977	60.6	90	1991	136.2	103

1/ In constant (1982-84) dollars.

Source: Preceding table; U.S. Bureau of Labor Statistics, CPI Detailed Report, January 1992, pp. 80-81.

Table 206.-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM THE MAINLAND AND JAPAN, BY EXPENDITURE TYPE: 1990 AND 1991

[In dollars. Excludes transpacific travel costs]

Expenditure type	Visitors from Mainland		Visitors from Japan	
	1990	1991	1990	1991
All items	136.30	140.54	294.04	344.29
Food and beverage	28.90	27.85	41.70	42.91
Restaurants	20.62	20.48	25.65	26.90
Dinner shows	2.14	1.34	4.23	5.97
Nightclubs	3.03	2.32	2.89	1.16
Groceries	3.11	3.71	8.92	8.88
Entertainment	8.86	11.72	16.05	17.39
Attractions	6.21	7.16	6.97	6.69
Other entertainment.....	2.65	4.55	9.08	10.70
Transportation	14.07	15.91	14.31	15.98
Ground transportation	0.97	0.77	1.78	1.70
Rental vehicles	6.48	9.05	2.76	1.59
Interisland travel	3.90	4.86	4.74	6.57
Sightseeing tours	2.72	1.23	5.03	6.11
Clothing	8.74	8.51	27.98	31.89
Gifts and souvenirs	9.41	9.37	77.48	87.91
Lodging	57.76	58.99	73.77	89.88
All other and unclassified <u>1/</u> ...	6.42	5.89	38.92	53.84
Adjustment <u>2/</u>	2.14	2.30	3.83	4.48

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

2/ Visitors estimate of amount excluded from listed categories.

Source: Hawaii Visitors Bureau, 1991 Visitor Expenditure Report (1992), pp. 10 and 41.

Table 207.-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM MAINLAND AND JAPAN,
BY VISITOR OR TRIP CHARACTERISTICS: 1990 AND 1991

[Dollars]

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1990	1991	1990	1991
All visitors	136.30	140.54	294.04	344.29
Islands:				
Oahu	120.00	118.53	296.76	348.96
Neighbor Islands	163.02	152.79	240.91	270.41
Group tour status:				
Organized group tour	145.79	138.83	296.50	357.65
Individually arranged	135.23	167.33	285.39	276.42
Accommodations:				
Hotel only	144.46	144.99	308.66	352.70
Condo only	97.10	132.88	175.69	259.00
Guests of friends and relatives	*37.28	*74.67	(NA)	(NA)
Other	128.21	125.35	(NA)	(NA)
Length of stay:				
1 to 6 days	151.51	183.22	310.94	353.13
7 to 12 days	131.71	139.92	270.52	319.08
13 days or longer	138.35	132.69	*132.53	*227.41
Residence: 1/				
Pacific	135.90	137.31	(NA)	(NA)
Mountain	126.97	135.70	(NA)	(NA)
W.N. Central	107.92	136.86	(NA)	(NA)
W.S. Central	135.14	144.12	(NA)	(NA)
E.N. Central	137.76	142.47	(NA)	(NA)
E.S. Central	143.46	123.65	(NA)	(NA)
New England	135.60	138.38	(NA)	(NA)
Mid-Atlantic	139.14	155.77	(NA)	(NA)
S. Atlantic	145.17	148.47	(NA)	(NA)
Previous visits:				
First trip	134.66	138.31	317.20	377.48
Repeat visitors	137.56	141.51	270.13	302.82

Continued on next page.

Table 207.-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM MAINLAND AND JAPAN,
BY VISITOR OR TRIP CHARACTERISTICS: 1990 AND 1991 -- Con.

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1990	1991	1990	1991
Party size:				
1 person	161.87	182.16	(NA)	(NA)
2 persons	138.16	141.58	(NA)	(NA)
3 persons	107.41	102.63	(NA)	(NA)
4 persons or more	104.00	100.67	(NA)	(NA)
Purpose of trip:				
Pleasure	136.61	136.18	279.53	329.69
Business: Meetings, conventions, incentive Other business	160.70	201.15	340.30	401.10
Other purpose	134.66	172.54	299.90	*357.76
	96.03	108.81	(NA)	(NA)
Time of year:				
First quarter	135.10	146.99	275.76	359.63
Second quarter	144.83	135.34	327.27	372.35
Third quarter	139.74	137.68	263.75	287.30
Fourth quarter	125.35	142.40	309.39	374.74
Arrived on package tour:				
Yes	128.83	149.17	299.04	358.94
No	144.00	133.89	256.34	243.02
Children in party:				
Yes	95.35	97.63	192.03	224.17
No	140.01	148.39	319.16	369.78
On honeymoon:				
Yes	(NA)	153.97	417.54	535.89
No	(NA)	136.00	274.57	316.57

* Sample under 25; subject to considerable sampling variation.

NA Not available.

1/ Census divisions.

Source: Hawaii Visitors Bureau, The 1990 Visitor Expenditure Report (1991), pp. 18-32, 44-56, and 1991 Visitor Expenditure Report (1992), pp. 11-26, 43-53.

Table 208.-- ESTIMATED VISITOR EXPENDITURES: 1956 TO 1991

[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 1985-1989 revised from Data Book 1990, tables 205 and 383]

Year	Personal expenditures	Year	Personal expenditures	Year	Personal expenditures	Additional business expend. <u>1/</u>
1956	65	1968	440	1980	2,875	...
1957	78	1969	550	1981	3,200	...
1958	83	1970	595	1982	3,700	...
1959	109	1971	705	1983	3,974	...
1960	131	1972	840	1984	4,582	...
1961	137	1973	1,020	1985	4,963	22.9
1962	154	1974	1,225	1986	5,776	26.7
1963	186	1975	1,360	1987	6,500	30.0
1964	205	1976	1,640	1988	7,813	36.1
1965	225	1977	1,845	1989	8,748	37.4
1966	280	1978	2,146	1990	9,363	46.5
1967	380	1979	2,537	1991	9,820	100.6

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 209.-- VISITOR EXPENDITURES, BY DIRECTION OF TRAVEL, COUNTRY OF RESIDENCE, AND ISLANDS: 1990 AND 1991

[In thousands of dollars]

Year and direction of travel or island	Country of residence ^{1/}			
	Total	United States	Japan	Other countries
1990, all visitors	9,409,772	5,661,847	2,500,138	1,247,787
Westbound	6,224,829	5,276,369	169,026	779,434
Eastbound	3,184,943	385,478	2,331,112	468,353
Oahu	5,441,149	2,533,197	2,111,416	796,536
Maui	2,023,032	1,553,008	211,640	258,384
Molokai	58,985	45,340	4,274	9,371
Lanai	15,165	11,283	129	3,753
Kauai	945,777	787,304	68,915	89,558
Hawaii	925,664	731,715	103,764	90,185
1991, all visitors	9,920,902	5,751,981	2,796,973	1,371,948
Westbound	6,403,885	5,395,710	134,950	873,225
Eastbound and northbound	3,517,017	356,271	2,662,023	498,723
Oahu	5,353,171	2,061,652	2,454,310	837,209
Maui	2,225,228	1,744,280	188,593	292,355
Molokai	89,838	69,181	2,540	18,117
Lanai	57,166	42,983	1,835	12,348
Kauai	1,104,896	937,471	66,520	100,905
Hawaii	1,090,603	896,414	83,175	111,014

^{1/} Additional business expenditures by MCI (meetings, conventions, and incentive) visitors are included with "other countries"; see preceding table for annual totals.

Source: Hawaii Visitors Bureau, The 1990 Visitor Expenditure Report (1991), pp. 5 and 64; The 1990 Island Supplement (1991), p. 37; and records.

Table 210.-- 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 211.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1991

Year	Visitor-related expenditures 1/ (million dollars)	Total sales or output 2/ (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs 2/ (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	^{3/} 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 212.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES,
BY INDUSTRY: 1991

Year and industry	Direct visitor- related expend- itures <u>1/</u> (million dollars)	Total sales or out- put <u>2/</u> (million dollars)	Total house- hold income (million dollars)	Jobs (1,000)	
				Total <u>3/</u>	Direct only
All industries	10,955.1	19,375.9	6,542.7	250.9	140.1
Agriculture	35.5	238.8	85.7	2.9	0.4
Manufacturing	407.1	1,924.6	295.6	8.7	1.8
Air transportation	1,269.1	1,327.9	435.1	12.4	11.8
Other transportation	560.2	894.1	354.0	13.3	8.3
Wholesale trade <u>4/</u>	201.2	650.6	301.5	9.5	2.9
Eating and drinking places ...	1,543.3	1,949.7	569.8	40.0	31.7
Other retail trade <u>4/</u>	1,249.1	2,070.5	820.8	41.2	24.8
Hotel services	2,979.6	3,045.0	957.0	41.2	40.3
Other services	1,047.4	3,305.1	1,685.3	55.3	17.5
Other industries	59.8	3,969.6	1,037.9	26.4	0.5
Imports	1,602.8	-	-	-	-

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

2/ Direct, indirect, and induced sales.

3/ Direct, indirect and induced jobs.

4/ Expenditure figure refers to mark-up earned, not total sales revenue.

Source: Hawaii State Department of Business, Economic Development & Tourism, unpublished estimates based on the DBED Input-Output Model and Hawaii Econometric Model.

Table 213.-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES:
1972 TO 1992

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
1972 ..	47.1	21.83	111.35	19.00	41.7	58.9	44.6
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

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 214.-- ECONOMIC IMPACT OF SPORTING EVENTS PARTLY FUNDED BY STATE GOVERNMENT: FISCAL YEAR 1990-1991

Events	Grants (\$1,000)	Revenue generated (\$1,000)	Out-of-State spectators at event
Total	433.0	45,735	35,851
Provisos (funded by Legislature)	330.0	35,804	20,987
Honolulu Marathon	70.0	30,376	15,887
Other events (4)	260.0	5,428	5,100
State-funded	103.0	9,931	14,864
Pac Rim Judo Championships	7.5	3,326	1,000
Top Gun Hydrofest	25.0	1,963	7,000
Other events (8)	70.5	4,642	6,864

Source: Hawaii State Department of Business, Economic Development & Tourism, Special Projects Branch, Hawaii Sports Economic Impact Report Fiscal Year 1990-1991 (October 1991).

Table 215.-- 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 <u>1/</u>
	1992	1991	
Total per diem cost	182.92	210.24	19
Food	<u>2/</u> 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 216.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1986 TO 1991

[In dollars. Years ended June 30]

Year	Income				Expenditures
	Total	State appropriations <u>1/</u>	Private subscriptions	Other <u>2/</u>	
1986	6,657,841	5,169,391	1,200,112	288,338	6,657,704
1987	8,652,826	7,069,391	1,242,111	341,324	8,652,487
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

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 217.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1986 TO 1991

Year	Number returning	Median age (years)	Males per 100 females	Persons per party <u>1/</u>	Days absent		Average number absent
					Median	Mean	
1986	411,440	39.7	98.8	1.45	11.0	14.0	15,735
1987	398,580	41.7	96.4	1.45	10.7	13.1	14,036
1988	521,000	40.0	96.5	1.46	10.8	13.2	18,886
1989	394,080	(NA)	(NA)	2.20	9.1	12.7	13,712
1990	378,640	37.7	83.9	1.86	9.8	13.9	14,400
1991	311,760	37.4	108.6	1.53	10.0	14.7	12,520

NA Not available.

1/ Increase after 1988 reflects revised editing procedures, in which nonresponse, previously imputed as 1, was distributed.

Source: Hawaii State Department of Business and Economic Development, Out-of-State Travel by Hawaii Residents During 1986 (Statistical Report 202, September 22, 1987), table 2; Hawaii Visitors Bureau, 1989 Westbound Visitors to Hawaii (1990), pp. 30-33, and Basic Data Survey, special tabulations.

Table 218.-- CHARACTERISTICS OF HAWAII RESIDENTS RETURNING FROM
OUT-OF-STATE TRIPS, BY DIRECTION OF TRAVEL: 1991

Subject	Total	Westbound	Eastbound and northbound
All returning residents	387,530	311,760	75,770
Purpose of trip:			
Pleasure	190,320	160,580	29,740
Meetings, conventions, incentive ...	40,560	34,200	6,360
Other business	31,740	22,250	9,490
Visit friends or relatives	89,300	79,540	9,760
Government or military	33,500	20,900	12,600
Attend school	9,240	4,760	4,480
Age:			
Under 10 years	(NA)	23,980	(NA)
10 to 19 years	(NA)	22,760	(NA)
20 to 29 years	(NA)	59,830	(NA)
30 to 39 years	(NA)	67,020	(NA)
40 to 49 years	(NA)	62,910	(NA)
50 to 59 years	(NA)	37,390	(NA)
60 years and over	(NA)	37,870	(NA)
Median (years)	(NA)	37.4	(NA)
Sex:			
Males	208,300	162,320	45,980
Females	179,230	149,440	29,790
Males per 100 females	116.2	108.6	154.3
Persons per party	(NA)	1.53	1.80
Days absent:			
Median	(NA)	9.97	14.4
Mean	(NA)	14.7	19.6
Average number absent	16,590	12,520	4,070

NA Not available.

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

Table 219.-- INTERISLAND, MAINLAND, AND FOREIGN ROUND TRIPS BY ADULT RESIDENTS OF THE STATE DURING THE PAST 12 MONTHS: 1988 AND 1990

[Percent distributions]

Number of trips	1988 <u>1/</u>	1990 <u>2/</u>
INTERISLAND TRIPS		
All adult residents	100	100
None	42	37
1 or 2	30	29
3 to 5	14	17
6 to 10	9	10
11 or more	5	6
Average number of trips	3.3	3.3
MAINLAND ROUND TRIPS		
All adult residents	100	100
None	49	44
1	27	28
2 to 5	21	24
6 or more	3	4
Average number of trips	1.1	1.4
FOREIGN ROUND TRIPS		
All adult residents	100	100
None	83	80
1	11	14
2 or more	6	7
Average number of trips	0.3	0.6

1/ Based on a telephone survey of 600 adult residents, May 12-19, 1988.

2/ Based on a telephone survey of 511 adult residents January 4-9, 1991.

Source: Omnitrak Research and Marketing Group, Inc., survey cited in Honolulu Star-Bulletin, May 31, 1988 (p. C-1), June 7, 1988 (p. C-1), and June 14, 1988 (p. B-1), and data supplied January 25, 1991.

Table 220.-- PASSPORTS ISSUED BY HONOLULU OFFICE: 1989 TO 1992

[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	1989	1990	1991	1992
Issued by Honolulu Office	47,401	51,703	47,416	43,709
Mailed to Hawaii addresses	36,034	33,762	31,561	30,975
Mailed outside the State	11,367	17,941	15,855	12,734

NA Not available.

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

Table 221.-- HONOLULU SYMPHONY ORCHESTRA: 1981-1982 TO 1991-1992

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1981-1982	80	109	168,900	2,627,293
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

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

Source: Honolulu Symphony Society, records.

Table 222.-- PERFORMING ARTS, FOR OAHU: 1990-1991 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	192	1,261	797,007
Brigham Young University - Hawaii Campus	5	13	3,100
Chaminade University of Honolulu	1	6	1,080
Hawaii Loa College	2	8	280
Diamond Head Theatre (formerly Honolulu Community Theatre)	7	111	43,009
Honolulu Department of Auditoriums, total ...	76	135	413,918
Ballets	2	13	32,381
Concerts	61	101	291,813
Operas	3	10	20,296
Rock shows	6	6	32,567
Other dramatic and musical productions	4	5	36,861
Honolulu Theatre for Youth	9	360	133,020
Leeward Community College <u>1/</u>	53	193	79,678
Manoa Valley Theatre	6	117	17,378
The Starving Artists' Theatre Company <u>1/</u>	11	165	39,424
Adults	6	90	5,824
Children	5	75	33,600
U.S. Army Community Theatre	4	28	17,767
University of Hawaii at Manoa	15	105	45,337
Windward Community College <u>1/</u>	3	20	3,016

1/ 1989-1990 season.

Source: DBEDT mail and telephone survey.

Table 223.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1989 TO 1991

[Calendar year data unless otherwise specified]

Island and cultural attraction	1989	1990	1991
Oahu:			
Bernice P. Bishop Museum <u>1/</u>	302,127	325,679	546,899
The Contemporary Museum	27,009	28,098	28,400
Damien Museum and Archives	11,598	10,848	13,437
Diamond Head State Monument <u>1/</u>	(NA)	(NA)	76,000
Dole Cannery Square	362,000	517,000	524,000
Dole Plantation	(NA)	1,029,000	895,000
Foster Botanic Garden	54,865	61,240	61,766
Fred Ohrt Water Museum	4,510	4,048	5,326
Halawa Tunnel	(NA)	3,091	4,531
Halawa Xeriscape Garden <u>2/</u>	4,284	4,412	9,448
Harold L. Lyon Arboretum	15,371	27,100	28,450
Hawaii Maritime Center	66,500	109,200	99,054
Hawaii Nature Center	32,466	34,836	39,614
Honolulu Academy of Arts <u>3/</u>	299,219	256,654	245,498
The Honolulu Advertiser Gallery	27,400	27,800	28,000
Honolulu Zoo	752,207	652,276	630,726
Hoomaluhia Park	59,774	70,630	72,328
Iolani Palace State Monument <u>1/</u>	74,000	72,000	75,000
Mission Houses Museum	29,788	24,902	29,348
Moanalua Gardens	(NA)	21,600	(NA)
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center)	219,818	245,782	172,274
National Memorial Cemetery of the Pacific	6,049,931	6,281,431	5,522,948
Pacific Aerospace Museum <u>4/</u>	-	-	(NA)
Paradise Cove Luau Park	264,743	250,354	(NA)
Paradise Park <u>5/</u>	185,457	75,142	124,189
Polynesian Cultural Center <u>6/</u>	854,274	844,043	814,632
Puu o Mahuka Heiau State Monument <u>1/</u>	9,000	6,000	4,000
Queen Emma Summer Palace	20,766	23,627	18,243
Royal Mausoleum State Monument <u>1/</u>	77,000	18,000	62,000
Sea Life Park Hawaii	740,170	692,607	602,573
Senator Fong's Plantation and Gardens ...	55,690	79,483	98,400
Tropic Lightning Museum <u>7/</u>	5,350	4,416	4,818
Ulu Po Heiau State Monument <u>1/</u>	2,000	2,000	3,000
U.S. Army Museum, Ft. DeRussy	125,680	137,267	131,460
U.S.S. Arizona Memorial	1,768,587	1,870,805	1,501,607
Visiting either Memorial or Visitor Center	1,444,639	1,469,676	1,496,915
Aboard non-landing tour boats <u>8/</u>	323,948	401,129	4,692
U.S.S. Bowfin WWII Submarine Exhibit	202,571	193,172	208,748
University of Hawaii Art Gallery	50,000	50,000	55,000

Continued on next page.

Table 223.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1989 TO 1991 -- Con.

Island and cultural attraction	1989	1990	1991
Oahu - con.:			
Wahiawa Botanical Garden	13,248	19,298	23,054
Waikiki Aquarium <u>1/</u>	300,750	303,297	309,551
Waimea Falls Park <u>9/</u>	580,020	567,952	355,979
Waipahu Cultural Garden Park	14,258	19,275	20,453
Hawaii:			
Hawaii Tropical Botanical Garden	35,466	42,440	48,880
Greenwell Store Museum	5,000	5,000	5,000
Hulihee Palace	27,716	27,368	25,169
Jagger Museum <u>10/</u>	2,000,000	2,000,000	1,150,000
Kealahou Bay State Historical Park <u>1/</u> .	47,000	51,000	119,000
Kilauea Visitor Center <u>10/</u>	1,800,000	2,000,000	375,000
Lapakahi State Historical Park <u>1/</u>	77,000	101,000	101,000
Lava Tree State Monument <u>1/</u>	(NA)	(NA)	133,000
Lyman House Memorial Museum	16,847	18,913	18,893
Panaewa Rainforest Zoo	77,133	76,118	80,234
Parker Ranch Historic Homes	28,710	(NA)	(NA)
Parker Ranch Visitor Center	31,000	(NA)	18,463
Volcano Art Center	55,450	58,500	70,000
Wahaula Visitor Center <u>11/</u>	(NA)	-	-
Wailoa Center	28,306	31,402	34,200
Maui:			
Alexander & Baldwin Sugar Museum	28,629	30,676	29,744
Halekii-Pihana Heiaus State Monument <u>1/</u> .	35,000	11,000	10,000
Hale Wai Wai O Hana	8,035	9,664	9,004
Hawaii Nature Center <u>12/</u>	-	-	750
Iao Valley State Monument <u>1/</u>	(NA)	(NA)	648,000
Kula Botanical Gardens	20,021	20,305	18,690
Lahaina Restoration Foundation	159,320	187,637	158,630
Baldwin Missionary Home Museum	50,969	47,667	44,440
Brig Carthaginian <u>13/</u>	21,139	48,400	42,500
Hale Pa'ahao (Old Lahaina Prison)	25,340	30,770	29,750
Hale Pa'i Printing House	5,400	4,800	4,500
Kalaupapa Lighthouse Lens Exhibit <u>14/</u> .	22,082	12,600	-
Wo Hing Temple Museum	34,390	43,400	37,440
Maui Historical Society Museum	18,495	14,207	(NA)
Maui Tropical Plantation	397,458	381,843	358,564
Maui Zoological & Botanical Gardens	70,200	36,000	45,000
Whalers Village Museum	190,312	216,710	(NA)
Kauai:			
Grove Farm Homestead <u>15/</u>	3,627	4,290	3,694
Ho'opulapula Haraguchi Rice Mill <u>16/</u>	625	1,265	1,208

Continued on next page.

Table 223.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1989 TO 1991 -- Con.

Island and cultural attraction	1989	1990	1991
Kauai - con.:			
Kauai Museum	29,756	28,656	28,831
Kilauea National Wildlife Refuge	204,731	242,215	(NA)
Kokee Natural History Museum	101,060	96,684	77,222
National Tropical Botanical Garden	16,000	15,000	35,000
Russian Fort Elizabeth State Historical Park <u>17/</u>	308,000	315,000	302,000
Waioli Mission House <u>15/</u>	1,956	2,356	1,841
Molokai:			
Kalaupapa Settlement	8,439	8,264	9,670
Molokai Ranch Wildlife Park	5,920	4,854	5,098
R. W. Meyer Sugar Mill	3,926	2,345	2,105

- NA Not available.
1/ Years ended June 30.
2/ Opened September 30, 1989.
3/ Includes Academy Theatre (109,119 in 1989, 63,430 in 1990, and 43,257 in 1991).
4/ Opened December 7, 1991.
5/ Closed June 1990-January 1991.
6/ Revised. The 1988 revised total was 855,869.
7/ Closed November 1, 1990-September 30, 1991.
8/ The decline after 1990 is unexplained.
9/ Closed November 20, 1990-April 30, 1991 for repairs.
10/ The 1991 figure represents the midpoint of an estimated range: 1.0-1.3 million for Jagger, and 350,000-400,000 for Kilauea Visitor Center.
11/ Destroyed July 1989.
12/ Opened October 1991.
13/ Closed September 1, 1988 to June 30, 1989 for repairs.
14/ Closed June 30, 1990.
15/ Closed 2 months in 1989 for repairs.
16/ Open primarily for school children and senior groups.
17/ Years ended June 30. Attendance estimates reflect heavy use of restrooms by tour bus passengers.

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

Table 224.-- RESIDENT AND VISITOR PARTICIPATION IN RECREATIONAL ACTIVITIES:
1989

[Percent. Based on a telephone survey of 1,017 responding residents, made in Nov.-Dec. 1989, and an intercept survey of 1,002 responding visitors, questioned at four airports during August 1989]

Activity	Residents				Visitors	
	At least once		Average day		At least once <u>5/</u>	Average day <u>6/</u>
	Week-end <u>1/</u>	Week-day <u>2/</u>	Week-end <u>3/</u>	Week-day <u>4/</u>		
Bodysurfing or bodyboarding .	3	2	2	1	16	6
Surfing	1	1	1	(Z)	5	1
Windsurfing	(Z)	(Z)	(Z)	(Z)	1	(Z)
Jetskiing	(Z)	(Z)	(Z)	(Z)	2	(Z)
Canoeing or kayaking <u>7/</u>	1	1	(Z)	(Z)	...	...
Ocean sailing or boating	1	1	1	(Z)	26	5
Near-shore diving <u>8/</u>	1	1	(Z)	(Z)	39	11
Shoreline fishing	2	1	1	(Z)	85	30
Other beach activities <u>9/</u> ...	15	6	8	2		
Swimming at public pools <u>7/</u> .	1	1	(Z)	(Z)	...	...
Golfing	2	2	1	1	8	2
Field games (e.g., soccer) <u>7/</u>	3	3	2	1	...	...
Outside public court games ..	3	4	2	1	10	3
Hunting <u>7/</u>	(Z)	(Z)	(Z)	(Z)	...	...
Overnight camping	1	(Z)	(Z)	0	2	1
Hiking on trails	1	1	1	(Z)	16	4
Walking, jogging, running <u>7/</u>	8	16	7	7	...	...
Bicycle riding <u>7/</u>	4	6	3	3	...	...

Z Less than one-half of 1 percent.

1/ Percent of residents participating at least once during last two weekend days.

2/ Percent of residents participating at least once during last five weekdays.

3/ Percent of residents participating on any given weekend day.

4/ Percent of residents participating on any given weekday.

5/ Percent of visitors participating at least once during stay on given island.

6/ Percent of visitors participating any given August day.

7/ Not tabulated for visitors.

8/ Snorkeling, scuba, or extended freediving.

9/ Swimming, sunbathing, picknicking, etc.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Functional Plan, Technical Reference Document (Dec. 1990), p. 27-28 and 38.

Table 225.-- NATIONAL PARKS: 1981 TO 1991

Year and area	Acreage, Dec. 31 <u>1/</u>			Visits <u>2/</u>
	Total	Federal	Non-federal	
1981	247,488	235,243	12,245	4,225,217
1982	247,488	235,243	12,245	4,950,621
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
AREAS: 1991				
Hawaii Volcanoes National Park ...	207,643	207,643	-	2,576,360
Haleakala National Park	27,350	27,350	-	1,261,378
Pu'uhooua o Honaunau National Historical Park	181	181	-	401,540
Kaloko-Honokohau National Historical Park	1,161	616	545	46,790
Pu'ukohola Heiau National Historic Site	100	60	40	70,514
U.S.S. Arizona Memorial <u>3/</u>	12	12	-	1,496,915
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 226.-- STATE PARKS AND HISTORIC SITES: 1981 TO 1991

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1980	66	20,637	916.7	17,169
1981	71	20,836	937.8	15,611
1982	72	20,885	937.8	18,111
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	19,022
ISLANDS: 1990				
Hawaii	20	1,361.4	281.6	4,307
Maui	12	343.1	56.0	3,611
Molokai	1	233.7	10.0	81
Oahu	33	9,130.6	396.7	2,984
Kauai	11	13,788.0	143.0	8,744
ISLANDS: 1991				
Hawaii	20	1,355.0	281.6	4,592
Maui	12	348.6	56.0	2,698
Molokai	1	233.7	10.0	72
Oahu	33	9,170.5	406.7	3,178
Kauai	11	13,788.0	143.0	8,482

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

Table 227.-- MAJOR STATE PARKS: 1990 AND 1991

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

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1990			
Wailua River State Park <u>1/</u>	1,125.9	50.4	3,880
Haena State Park	65.7	2.0	1,974
Hapuna Beach State Recreation Area ..	61.8	20.7	1,135
Waimea Canyon State Park	1,866.4	10.0	930
Waianapanapa State Park	122.1	18.0	879
Koikee State Park	4,345.0	55.0	867
Old Kona Airport State Rec. Area	103.7	20.4	796
Na Pali Coast State Park	6,175.0	4.0	91
Kahana Valley State Park	5,220.3	20.0	49
Sacred Falls State Park	1,374.2	10.0	44
1991			
Wailua River State Park <u>1/</u>	1,125.9	50.4	3,610
Haena State Park	65.7	2.0	1,864
Koikee State Park	4,345.0	55.0	1,078
Waimea Canyon State Park	1,866.4	10.0	901
Hapuna Beach State Recreation Area ..	61.8	20.7	846
Wailuku River State Park	16.3	3.5	806
Old Kona Airport State Rec. Area	103.7	20.4	768
Na Pali Coast State Park	6,175.0	4.0	102
Kahana Valley State Park	5,248.2	20.0	67
Sacred Falls State Park	1,374.2	10.0	70

1/ Seven separate areas in both 1990 and 1991.

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

Table 228.-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS: 1991

Island	Total sites <u>1/</u>	Listed Hawaii Register only	Listed National Register only	Listed both Hawaii and National Register	Eligible for Nat'l Register <u>1/</u>
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 229.-- AQUATIC COLLECTIONS: DECEMBER 31, 1991

[For annual attendance, 1989-1991, see table 223]

Phylum or class	Sea Life Park		Waikiki Aquarium	
	Species	Individuals	Species	Individuals
Total	268	13,118	269	1,405
Fishes	147	4,000	164	568
Reptiles	3	32	2	2
Mammals	<u>1/</u> 4	86	1	2
Invertebrates	114	9,000	102	833

1/ Plus 1 hybrid.

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

Table 230.-- ZOOS: 1989 TO 1991

Subject and zoo	1989	1990	1991
Species: ^{1/}			
Honolulu Zoo	197	221	258
Maui Zoological & Botanical Gardens .	35	33	25
Molokai Ranch Wildlife Park	10	10	11
Panaewa Rainforest Zoo (Hilo)	57	57	55
Individuals: ^{1/}			
Honolulu Zoo	711	832	1,066
Maui Zoological & Botanical Gardens .	153	164	133
Molokai Ranch Wildlife Park	1,019	969	625
Panaewa Rainforest Zoo (Hilo)	195	185	181
Attendance:			
Honolulu Zoo	752,207	652,276	630,726
Maui Zoological & Botanical Gardens .	70,200	36,000	45,000
Molokai Ranch Wildlife Park	5,920	4,854	5,098
Panaewa Rainforest Zoo (Hilo)	77,133	76,118	80,234

^{1/} Animal and bird inventory, December 31.

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

Table 231.-- COUNTY PARKS, BY ISLANDS: 1986 TO 1991

[As of December 31]

Subject	1986	1987	1988	1989	1990	1991
Number, total	560	561	569	575	582	586
Hawaii	141	141	142	142	142	142
Maui	82	83	85	86	90	92
Lanai	3	3	4	4	4	4
Molokai	11	12	13	13	13	13
Oahu	266	265	266	271	274	275
Kauai	57	57	59	59	59	60
Acreage, total	8,227	8,324	8,336	8,506	8,593	8,778
Hawaii	1,424	1,428	1,430	1,430	1,430	1,430
Maui	905	917	926	928	942	1,028
Lanai	7	7	15	15	15	15
Molokai	54	58	73	73	73	73
Oahu	5,251	5,328	5,356	5,524	5,599	5,696
Kauai	586	586	536	536	534	536

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

Table 232.-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR
THE CITY AND COUNTY OF HONOLULU: 1992

[Year ended June 30]

Beach park	Attend- ance <u>1/</u>	Activity (percent)			Res- cues	Drown- ings	Surfing acci- dents
		Sun	Swim	Surf			
All parks	19,042,783	76	17	7	868	4	240
Ala Moana	1,393,953	57	35	8	64	1	9
Waikiki	10,436,020	82	12	6	83	2	55
Hanauma	2,328,092	77	23	0	92	0	1
Sandy	771,918	61	11	29	177	0	60
Makapuu	415,800	51	16	33	95	0	27
Bellows	40,492	55	28	17	1	0	0
Kailua	687,678	78	17	6	17	0	0
Kualoa	23,429	67	33	0	3	0	0
Sunset	335,225	71	15	14	26	1	2
Ehukai	279,963	65	9	27	37	0	30
Ke Waena	202,773	63	10	27	37	0	5
Waimea	571,551	83	16	1	101	0	27
Alii	252,811	71	16	13	30	0	5
Nanakuli	441,358	65	32	4	42	0	4
Maili	234,967	60	29	11	6	0	4
Pokai Bay	436,041	61	39	0	37	0	0
Makaha	190,712	54	22	24	20	0	11

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 233.-- 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. For specific beaches, see present volume, table 141.

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 234.-- COUNTY TENNIS FACILITIES: 1990 AND 1991

[As of December 31]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Locations:							
1990	89	20	11	1	1	46	10
1991	89	20	11	1	1	46	10
Courts:							
1990	279	44	32	2	2	175	24
1991	282	44	35	2	2	175	24

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

Table 235.-- GOLF COURSES, BY NUMBER OF HOLES, OWNERSHIP, AND ISLANDS:
MARCH 1992

Status, island, and ownership	Number of golf courses				Number of holes
	Total	9-hole	18-hole	27-hole	
State total ...	65	11	52	2	1,089
Hawaii	13	2	10	1	225
Municipal	1	-	1	-	18
Private	12	2	9	1	207
Maui 1/.....	11	1	10	-	189
Municipal	1	-	1	-	18
Private	10	1	9	-	171
Lanai 1/.....	1	1	-	-	9
Private	1	1	-	-	9
Molokai 1/.....	2	1	1	-	27
Private	2	1	1	-	27
Oahu	30	5	25	-	495
Military	9	3	6	-	135
Municipal	5	1	4	-	81
Private	16	1	15	-	279
Kauai	8	1	6	1	144
Municipal	1	-	1	-	18
Private	7	1	5	1	126

1/ 1991 data.

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

Table 236.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU:
1986 TO 1991

Calendar year	Public golf courses			Camping permits issued <u>1/</u>
	Courses	Holes	Rounds played	
1986	4	63	536,204	8,049
1987	4	63	548,668	8,352
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

1/ By the City and County of Honolulu.

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

Table 237.-- HAWAIIAN OPEN SCORES AND PURSES: 1988 TO 1993

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

Year	Holes	Winning score		Purse (dollars)	
		Total	Below par	Total	Winner
1988	72	271	17	600,000	108,000
1989 <u>1/</u>	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

1/ Reduced to 54 holes because of rain delays.

Source: Honolulu Advertiser, February 15, 1988, p. C-1, February 13, 1989, pp. C-1 and C-4, February 12, 1990, p. C-4, and February 10, 1992, p. C-1; Hawaiian Open, records.

Table 238.-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES,
BY ISLANDS: APRIL 1992

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 239.-- FISHING AND HUNTING LICENSES ISSUED: 1987 TO 1992

[Years ended June 30]

Type of license	1987	1988	1989	1990	1991	1992
Freshwater game fishing ..	8,669	10,512	9,565	10,010	9,250	12,588
Hunting	12,748	13,469	12,714	13,805	10,529	10,685

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

Table 240.-- 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 241.-- 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 242.-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND
WINNING TIMES: 1981 TO 1991

[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
1981	70	8:11:02:31	7:21:44:48
1983	66	<u>1/</u> 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

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; Sunday Star-Bulletin and Advertiser, July 10, 1983; Transpac Honolulu Committee, records.

Table 243.-- WATER EVENT APPLICATIONS OR PERMITS, BY COUNTIES:
1990 AND 1991

[Includes applications received or permits processed for marine or shore water events, including sailboat races, surfboard contests, canoe races, swimming contests, and sailboarding]

County	Number of events		Participants		Participating craft	
	1990	1991	1990	1991	1990	1991
State total	379	439	66,061	71,515	6,437	7,087
Hawaii	40	45	8,430	11,450	718	842
Maui	30	28	3,802	3,404	1,141	1,392
Honolulu	301	337	50,401	53,916	4,462	4,589
Kauai	8	29	3,428	2,745	116	264

Source follows next table.

Table 244.-- WATER EVENT APPLICATIONS OR PERMITS, BY ACTIVITY:
1990 AND 1991

[See headnote to preceding table]

Activity	Events		Activity	Events	
	1990	1991		1990	1991
Total	379	437	Kayak contest	7	11
Surfboard contest ...	94	85	Paddleboard contest	9	10
Sailboat race	51	82	Youth sailing instruction ..	-	10
Canoe race	60	60	Waterski contest	6	8
Sailboarding	35	49	Bodysurfing contest	7	7
Swimming contest	38	34	Other and multiactivity		
Fishing contest	21	20	events <u>1/</u>	51	61

1/ Boat parade, skimboard contest, fireworks, film permit, lantern ceremony, rubber ducky race, sailing paper cartons, statue dedication, etc.
Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 245.-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:
1987-1988 TO 1992-1993 SEASONS

Bowl	1987- 1988	1988- 1989	1989- 1990	1990- 1991	1991- 1992	1992- 1993
Aloha Bowl	20,093	18,967	39,267	14,185	19,245	21,709
Hula Bowl	26,737	28,896	20,274	17,789	18,383	19,952
Pro Bowl	46,692	46,464	45,135	45,097	46,471	48,237

Source: Aloha Stadium, records.

Table 246.-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF HAWAII
AT MANOA: 1990-1991 AND 1991-1992

[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	-	10	7,991
Volleyball (women's) .	34	28	6	-	23	44,803
1991-1992:						
Baseball	63	49	14	-	47	151,949
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	34,144

1/ Volleyball data refer to matches.

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

Table 247.-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:
1991-1992 SEASON

Sport	Players	Games <u>1/</u>	Attendance	Expenditure <u>2/</u> (dollars)
Baseball	Boys	416	68,000	335,300
Basketball ..	Boys and girls	1,048	137,200	560,550
Football	Boys	296	426,000	865,720

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 248.-- PROFESSIONAL BOXING: 1986 TO 1991

Year	Number of promoters	Number of shows	Paid attendance	Gross receipts (dollars)
1986 ...	2	6	7,181	67,105
1987 ...	1	2	1,152	15,560
1988 ...	-	-	-	-
1989 ...	3	10	14,869	218,810
1990 ...	3	8	9,246	172,900
1991 ...	4	8	6,431	179,987

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

Table 249.-- DOG LICENSES ISSUED, BY ISLANDS: 1986 TO 1991

[Dogs are licensed on a biennial basis]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1986	18,713	2,078	1,204	12	39	15,151	229
1987	28,208	3,287	1,633	35	65	22,573	615
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

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 1992 regular session, the State Legislature considered 6,984 bills; 364 were passed and 323 became law. The Legislature also offered 1,287 resolutions, of which 549 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: 1992, Section 8.

Table 250.-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS:
NOVEMBER 1990 AND 1992

Office	Election districts		Officials to be elected <u>1/</u>		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. <u>2/</u>	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 <u>3/</u>	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 251.-- APPORTIONMENT OF THE STATE LEGISLATURE, BY COUNTIES:
1973 TO 1991

[For earlier apportionments, see Historical Statistics of Hawaii,
table 24.7, p. 606]

Legislative house, type of district, and apportionment date	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
HOUSE OF REPRESENTATIVES					
Full districts:					
1973	51	5	4	39	3
1982	50	5	4	39	2
1984	49	5	4	38	2
1991	50	6	5	37	2
Shared districts: <u>1/</u>					
1973	-	-	-	-	-
1982	1	-	-	1	1
1984	2	1	1	1	1
1991	1	-	1	-	1
SENATE					
Full districts:					
1973	25	3	2	19	1
1982	24	2	2	19	1
1984	23	2	2	18	1
1991	24	3	2	18	1
Shared districts: <u>1/</u>					
1973	-	-	-	-	-
1982	1	-	1	1	-
1984	2	1	1	1	1
1991	1	-	1	-	1

1/ So-called "canoe districts," which are located in more than one county.

Source: Report and Reapportionment Plan of the 1973 Legislative Reapportionment Commission (1973), p. 10; Honolulu Advertiser, July 10, 1982, pp. C-2 and 3; Honolulu Star-Bulletin, July 10, 1982, pp. B-4, 5 and 6; Office of the Lieutenant Governor, District and County Population and Ethnic Profiles 1984 State of Hawaii Election Districts (April 1984), and 1991 Reapportionment Maps.

Table 252.-- POPULARLY ELECTED OFFICIALS OF STATE AND LOCAL GOVERNMENTS: 1977 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 253.-- VOTING RESIDENCE, BY AGE AND MILITARY STATUS: APRIL 1, 1990

Age	Total population	Armed forces and dependents <u>1/</u>			Resident civilians
		Total	Residents	Nonresidents	
All persons	1,108,229	118,622	4,297	114,325	989,607
Under 18 years	280,126	34,375	1,585	32,790	245,751
18 years and over	828,103	84,247	2,712	81,535	743,856

1/ Voting residence based on State in which taxes were paid.

Source: Total population from 1990 census. Armed forces and dependents from survey by University of Hawaii, Social Science Research Institute.

Table 254.-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1980 TO 1992

Subject	1980	1982	1984	1986	1988	1990	1992
Persons of voting age 1/ (1,000)	697	728	757	784	815	841	889
Percent casting votes For--							
Presidential electors	43.5	(X)	44.4	(X)	43.5	(X)	...
U.S. Representatives	40.2	40.9	36.4	42.2	41.7	40.5	...

X Not applicable.

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; Office of the Lieutenant Governor, Results of Votes Cast ... November 6, 1990.

Table 255.-- REPORTED VOTING AND REGISTRATION, BY SEX: NOVEMBER 1990

[Percentages based on a sample]

Sex and race	Civilians 18 years old and over	Reported registered		Reported voted	
		Percent	Standard error	Percent	Standard error
Total	790,000	57.2	1.8	51.6	1.8
Male	361,000	55.8	2.7	51.1	2.7
Female	429,000	58.4	2.5	51.9	2.5
White	243,000	60.7	3.2	53.7	3.3

Source: U.S. Bureau of the Census, "Voting and Registration in the Election of November 1990," Current Population Reports, Population Characteristics, Series P-20, No. 453, October 1991.

Table 256.-- 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 257.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING IN ELECTIONS: 1982 TO 1992

[Based on July 1 estimates of civilian population, including military dependents, aliens, and persons under 18 years of age]

Election	1982	1984	1986	1988	1990	1992
Registered:						
Primary	41.0	41.1	40.1	41.0	41.2	39.1
General	43.1	43.2	42.2	43.4	42.8	42.0
Voting:						
Primary	29.0	22.9	28.3	26.9	26.1	22.7
General	34.7	36.0	34.7	36.0	33.5	34.6

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election; present report, table 2.

Table 258.-- 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	464,495	222,721	241,774	382,971	82.4

NA Not available.

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

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

Table 259.-- 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 <u>1/</u>			Votes cast	
	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	382,971	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	272,081	82.8
Kauai	26,771	13,008	13,763	19,864	74.2
Overseas	-	-	-	89	-

Source: Office of the Lieutenant Governor, records.

Table 260.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS:
1982 TO 1992

Primary election	Total votes cast	Democratic	Republican	Other parties	Non-partisan	Invalid or blank
1982	272,691	245,426	13,262	12,681	1,013	309
1984	221,957	177,102	43,306	695	455	399
1986	281,352	235,559	44,304	-	1,023	466
1988	275,653	221,349	50,923	563	1,340	1,478
1990	275,333	221,829	48,570	974	3,858	1,203
1992	251,576	194,945	49,379	4,290	1,815	1,147

Source: Office of the Lieutenant Governor, Results of Votes Cast, Primary Election, 1982-1990, and records.

Table 261.-- PARTY OF VOTES CAST 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 262.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION,
SEPTEMBER 19, 1992

Office, party, and candidate	Votes	Office, party, and candidate	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
		Camara, P.	272
		Miracle, H.	175

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Table 262.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION,
 SEPTEMBER 19, 1992 -- Con.

Office, party, and candidate	Votes	Office, party, and candidate	Votes
HAWAII COUNTY MAYOR		HAWAII COUNTY MAYOR -- Con.	
Democrat:		Green:	
Yamashiro, S.	14,936	Davis, J.	340
Inouye, L.	11,065	Non-partisan:	
Kokubun, R.	10,137	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 263.-- 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 <u>1/</u>	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 264.-- 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 265.-- 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 <u>1/</u>	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
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

Continued on next page.

Table 265.-- 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	
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 266.-- 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 267.-- 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 267.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, 1992 -- Con.

Office, candidate and party <u>1/</u>	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 268.-- CAMPAIGN EXPENDITURES: 1990 ELECTIONS

[Dollars. Calendar year 1990 data. Table excludes national races]

Election and office	All candidates	Democrats	Republicans	All others
Total	13,965,721	10,808,274	2,963,631	193,816
Election:				
Primary	8,594,531	7,181,777	1,378,294	34,460
General	3,763,635	2,188,532	1,420,964	154,139
Supplemental	1,607,555	1,437,965	164,373	5,217
Office:				
Governor	4,491,817	3,806,074	685,065	678
Lt. Governor	417,615	373,375	18,899	25,341
State Senator	804,395	698,652	105,743	-
State Representative	3,144,452	2,356,231	783,768	4,453
Mayor	2,261,544	1,761,237	474,996	25,312
Council member	2,709,030	1,812,705	895,161	1,164
Board of Education	40,506	-	-	40,506
Office of Haw'n Affairs ..	96,362	-	-	96,362

Source: Hawaii State Campaign Spending Commission, October 14, 1991.

Table 269.-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU: 1981 TO 1991

Year	Number of boards		Board seats elected	Ballots mailed <u>1/</u>	Voters <u>1/</u> (ballots cast)
	In operation, Dec. 31	Holding elections			
1981	28	28	416	194,735	48,745
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

1/ Revised from Data Book 1990, table 269.

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

Table 270.-- 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
Maui	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 271.-- LENGTH OF LEGISLATIVE SESSIONS: 1987 TO 1992

Year	Regular sessions		Special sessions	
	Date convened	Length <u>1/</u>	Date convened	Length <u>1/</u>
1987	Jan. 21	100	None	-
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	-

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 272.-- 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 273.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
1990 TO 1992

Action	1990: Regular	1991		1992: Regular
		Regular	Special	
House bills:				
Carried over from previous year .	1,717	-	-	2,040
Introduced	1,459	2,232	-	1,684
Enacted <u>1/</u> , <u>2/</u>	202	192	-	221
Vetoed	13	17	-	24
Became law <u>3/</u>	187	175	-	195
Senate bills:				
Carried over from previous year .	1,821	-	-	1,973
Introduced	1,425	2,147	1	1,287
Enacted <u>1/</u>	182	174	1	143
Vetoed	18	14	-	13
Became law <u>4/</u>	162	160	1	128
House resolutions:				
Offered	405	433	2	491
Adopted	233	218	2	266
House concurrent resolutions:				
Offered	347	361	-	466
Adopted	100	89	-	106
Senate resolutions:				
Offered	262	223	1	220
Adopted	137	98	1	87
Senate concurrent resolutions:				
Offered	273	238	-	256
Adopted	79	50	-	60

1/ Includes bills for constitution amendments: H.B. 2051, H.B. 2053, S.B. 32, and S.B. 103 in 1990, and H.B. 2123, H.B. 2322, H.B. 2327, S.B. 1440, and S.B. 2234 in 1992. The 1990 figure also includes H.B. 1718, which contains a constitutional amendment.

2/ The 1991 regular session figure includes H.B. 139, containing a vetoed item.

3/ The 1990 total includes H.B. 1718, which contains a constitutional amendment. The 1992 total includes H.B. 2123, which contains a constitutional amendment.

4/ Includes bills which contained a vetoed item: S.B. 2794 in 1990 and 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 1990 reached \$7.2 billion, twice the level reported six years earlier. The 1991 total included \$4.6 billion in U.S. taxes, \$2.8 billion in State taxes, and \$500 million in county taxes, licenses and fees. Individual income taxes accounted for 87 percent of Federal collections and 32 percent of State collections in Hawaii in 1991. State revenue receipts totaled \$4.4 billion, chiefly from the general excise and use tax (\$1.3 billion), individual income tax (\$872 million) and Federal grants-in-aid (\$645 million). The largest expenditure item in the State accounts for 1991 was education, with \$1.25 billion (out of \$4.5 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 valuation of the State doubled between 1989 and 1992, reaching \$169 billion by the end of the period; of this total, \$57 billion was exempt from taxation. Public bonded debt outstanding at the end of 1991 stood at \$5.3 billion.

Total government employment in 1991 averaged 109,000, about 22 percent over the 1980 average. The 1991 total included 34,000 Federal workers, 60,000 persons employed by the State, and 15,000 persons on county payrolls. State civil service employees as of mid-1991 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: 1992, Sections 9 and 10.

Table 274.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1970 TO 1991

[Thousands of dollars]

Year	All levels	Federal <u>1/</u>	State and counties <u>2/</u>		
			Total	State	Counties
1970	1,057,376	602,998	454,378	438,397	15,981
1971	1,105,657	608,051	497,606	480,690	16,916
1972	1,162,700	632,583	530,117	512,047	18,070
1973	1,327,150	735,358	591,792	571,689	20,104
1974	1,512,414	840,089	672,325	650,855	21,470
1975	1,852,801	1,087,520	765,281	743,923	21,358
1976	1,821,934	945,899	876,035	850,639	25,396
1977	2,038,318	1,106,687	931,631	905,949	25,682
1978	2,228,780	1,208,481	1,020,299	986,182	34,117
1979	2,620,194	1,455,225	1,164,969	1,127,677	37,292
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

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).

Table 275.-- TAX COLLECTIONS RELATIVE TO POPULATION AND PERSONAL INCOME, BY LEVEL OF GOVERNMENT: 1970 TO 1991

[Data include taxes collected in Hawaii from visitors and other nonresidents. Revised from Data Book 1991, table 266]

Year	Per capita collections <u>1/</u> (dollars)			Collections as a percent of personal income <u>2/</u>		
	All levels	Federal <u>3/</u>	State and counties <u>4/</u>	All levels	Federal <u>3/</u>	State and counties <u>4/</u>
1970 ..	1,370	781	589	27.7	15.8	11.9
1971 ..	1,379	759	621	26.9	14.8	12.1
1972 ..	1,404	764	640	25.7	14.0	11.7
1973 ..	1,558	864	695	26.4	14.6	11.8
1974 ..	1,742	968	775	26.1	14.5	11.6
1975 ..	2,091	1,227	864	29.8	17.5	12.3
1976 ..	2,015	1,046	969	27.0	14.0	13.0
1977 ..	2,220	1,205	1,015	28.2	15.3	12.9
1978 ..	2,392	1,297	1,095	27.7	15.0	12.7
1979 ..	2,749	1,527	1,222	28.8	16.0	12.8
1980 ..	3,066	1,727	1,339	28.5	16.0	12.4
1981 ..	3,318	1,867	1,451	28.9	16.3	12.6
1982 ..	3,335	1,888	1,446	27.6	15.6	12.0
1983 ..	3,408	1,874	1,534	26.3	14.5	11.9
1984 ..	3,556	1,927	1,629	26.1	14.2	12.0
1985 ..	3,773	2,036	1,737	26.2	14.1	12.1
1986 ..	4,085	2,222	1,863	26.7	14.5	12.2
1987 ..	4,697	2,630	2,049	29.2	16.3	12.7
1988 ..	5,339	3,066	2,273	31.0	17.8	13.2
1989 ..	5,906	3,409	2,497	31.4	18.2	13.3
1990 ..	6,475	3,828	2,647	31.5	18.6	12.9
1991 ..	6,954	4,021	2,933	32.8	19.0	13.8

1/ Based on estimated resident population, July 1.

2/ Based on income estimates for calendar years.

3/ Collections data refer to fiscal years ended June 30 through 1976 and September 30 thereafter.

4/ Collection data refer to fiscal years ended June 30.

Source: Calculated from collections data in preceding table, population estimates in table 3, and income estimates in table 392.

Table 276.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES:
1981, 1990, AND 1991

[In thousands of dollars. For fiscal year ended September 30 for federal collections and June 30 for others]

Source	1981	1990	1991
Total, all levels	3,245,508	7,212,998	7,904,148
Federal collections	1,826,363	4,264,127	4,570,534
Indiv. income and employment <u>1/</u> ..	1,594,288	3,648,783	3,954,688
Corp. income and excess profits ..	182,667	461,579	475,494
Excise	12,954	48,601	62,514
Estate	23,916	80,019	56,983
Gift	787	3,887	3,109
Unemployment insurance	11,751	21,258	17,746
State collections	1,371,490	2,441,273	2,753,562
General excise and use	549,277	1,180,051	1,279,550
Transient accommodations <u>2/</u>	-	82,488	79,230
Fuel	53,117	107,153	108,537
Liquor	6,964	40,336	40,795
Tobacco	13,799	23,496	26,263
Insurance	23,973	36,892	45,061
Public service companies	50,150	69,650	74,856
Corporate income <u>3/</u>	46,955	74,798	95,947
Indiv. income, net income <u>4/</u>	334,570	695,158	872,734
Inheritance and estate	4,589	16,329	11,861
Unemployment compensation	58,755	78,942	83,915
Other sources	229,341	35,982	31,814
County collections	47,655	507,598	580,052
Real property	-	425,551	488,573
Utility franchise	11,497	16,744	19,248
Motor vehicle weight <u>5/</u>	23,318	46,971	51,308
Other sources	15,045	18,331	20,923

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.

Table 277.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON
FAMILY ON OAHU: 1970, 1988 AND 1990

[In dollars. For underlying assumptions, see source]

Subject	1970	1988	1990
Total tax burden	5,559	25,610	30,250
Federal income	2,130	8,096	10,425
State income	693	3,693	4,073
Social Security <u>1/</u>	1,247	7,758	8,866
General excise	304	1,207	1,494
Real property	366	1,006	979
Employment <u>2/</u>	527	3,301	3,764
Specific excise <u>3/</u>	67	161	204
Automobile	225	388	445
Gross family income	16,408	62,716	73,888
After taxes	10,849	37,106	43,638

1/ Includes employers' share, treated here as an indirect tax on the family.

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

3/ Alcohol, tobacco, telephone, and bicycle.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (November 1989 and September 1991).

Table 278.-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF FOUR, BY INCOME LEVEL, FOR HONOLULU AND 51 MAJOR CITIES: 1990

Gross family income level	Honolulu		51-city median ^{1/}	
	Taxes (dollars)	Percent of income	Taxes (dollars)	Percent of income
\$25,000	2,112	8.4	2,112	8.4
\$50,000	4,665	9.3	4,448	8.9
\$75,000	7,681	10.2	7,531	10.0
\$100,000	10,501	10.5	10,066	10.1

^{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: 1992, p. 303.

Table 279.-- PER CAPITA REVENUE, EXPENDITURE, AND DEBT OF STATE AND LOCAL GOVERNMENT: 1989 AND 1990

Subject	Amount (dollars)		Percent of U.S.		Rank	
	1989	1990	1989	1990	1989	1990
General revenue	3,767	4,545	119.0	133.1	7	5
Taxes	2,416	2,596	128.0	128.7	6	5
Debt outstanding	3,469	3,997	107.8	115.5	22	16
General expenditure	3,340	3,984	108.8	118.7	11	6
Capital outlay	623	853	160.2	199.2	4	2

Source: U.S. Bureau of the Census, and Government Finances in 1988-1989, GF89-5 (May 1991), pp. 105-109, and Government Finances in 1989-1990, GF90-5 (December 1991), pp. 105-109.

Table 280.-- STATE REVENUE RECEIPTS: 1990 AND 1991

[In thousands of dollars. Years ended June 30]

Source of revenues	1990: all funds	1991		
		All funds	General funds	Special funds
Total <u>1/</u>	3,947,852	4,397,559	2,651,579	1,745,980
Tax revenues	2,401,587	2,644,765	2,380,397	264,368
General excise	1,175,051	1,274,550	1,165,646	108,904
Specific excises <u>2/</u>	245,820	262,786	188,669	74,117
Individual income	694,640	872,339	872,339	-
Corporate income	74,858	95,947	95,947	-
Transient accommodations	82,438	16,442	16,442	-
Unemployment compensation	78,362	78,362	-	78,362
Other taxes, licenses, permits <u>3/</u>	50,418	44,339	41,354	2,985
Fines, forfeits, and escheats	18,270	21,669	19,441	2,228
Federal grants-in-aid	572,845	644,703	11,633	633,070
Revenues from other agencies	15,396	17,756	4,307	13,449
Rents, royalties, land income <u>4/</u> ..	32,037	73,232	4,987	68,245
Earnings: general departments	267,602	294,393	88,362	206,031
Earnings: public service enterp. .	300,547	309,715	-	309,715
Interest earned	197,802	237,916	132,987	104,929
Miscellaneous	141,766	153,410	9,465	143,945

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.

Table 281.-- STATE OPERATING EXPENDITURES, BY FUNCTION:
1981, 1990, AND 1991

[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	1981	1990	1991
Total	1,940,376	3,974,505	4,459,808
General government: Control	33,238	88,143	98,227
Staff	75,906	242,863	280,980
Public safety: Police and fire .	2,145	3,813	5,112
Other protection	52,367	127,877	151,733
Highways	41,127	79,841	100,074
Natural resources	15,226	45,750	36,240
Health and sanitation	46,645	186,317	152,265
Hospitals and institutions	79,069	167,947	216,147
Public welfare	297,813	474,659	523,488
Education: Higher	215,244	424,142	470,957
Public schools	346,100	661,522	729,425
Libraries and other .	19,628	36,849	50,599
Recreation	15,286	43,951	37,070
Utilities and other enterprises	41,252	212,062	229,571
Debt service ^{1/}	164,241	272,820	285,732
Retirement and pension	76,253	71,300	165,176
Employees' health and hosp. insurance	18,006	1,013	927
Unemployment compensation	64,816	47,846	68,097
Grants-in-aid to counties	18,243	73,472	2,839
Urban redevelopment and housing	269,186	321,005	361,602
Miscellaneous	20,139	87,479	102,362
Cash capital improvements ^{2/} ...	28,445	303,834	391,184

^{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 \$90.3 million in 1980, \$111.2 million in 1989, and \$196.6 million in 1990.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1992, table 35.

Table 282.-- COUNTY OPERATING REVENUES, BY SOURCE, AND COUNTY OPERATING EXPENDITURES, BY OBJECT, FOR ALL COUNTIES COMBINED: 1981, 1990, AND 1991

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

Subject	1981	1990	1991
OPERATING REVENUES <u>1/</u>			
Total	478,747	894,878	945,169
Real property taxes	217,257	425,551	488,573
Other taxes	45,910	97,287	104,694
Fees, licenses, permits, and fines ...	15,479	22,981	26,659
Departmental earnings and charges	45,360	127,526	159,863
State grants	24,585	89,220	84,085
Federal grants	105,416	75,244	43,015
Other sources	24,740	57,070	38,282
OPERATING EXPENDITURES <u>2/</u>			
Total	450,246	837,951	939,382
General government: Control	7,923	10,060	11,944
Staff	40,571	98,500	104,612
Public safety: Police and fire	92,852	188,712	206,365
Other protection	14,936	33,410	39,506
Highways	26,028	42,527	44,639
Health and sanitation	36,421	85,445	109,551
Public welfare	5,517	12,924	15,869
Public schools	545	585	591
Recreation	32,459	60,097	70,794
Interest	14,419	61,317	78,995
Bond redemption	21,490	33,345	33,912
Pension and retirement	33,050	22,516	53,220
Salary adjustment	13	45	50
Economic and urban development	28,057	16,745	17,836
Mass transit	26,692	53,723	51,159
Miscellaneous	25,043	60,731	60,250
Cash capital improvements	44,230	57,268	40,087

Footnotes and source follow next table.

Table 283.-- COUNTY OPERATING REVENUES, BY SOURCE, AND COUNTY OPERATING EXPENDITURES, BY OBJECT, BY COUNTIES: 1991

[In thousands of dollars. For year ended June 30, 1991]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES <u>1/</u>				
Total	666,835	115,042	105,677	57,615
Real property taxes	343,046	58,729	59,132	27,666
Other taxes	80,269	9,344	9,812	5,269
Fees, licenses, permits, and fines	16,916	4,333	3,938	1,472
Departmental earnings and charges	124,339	19,708	8,450	7,366
State grants	35,678	20,409	18,774	9,224
Federal grants	32,920	303	3,766	6,026
Other sources	33,667	2,217	1,806	592
OPERATING EXPENDITURES <u>2/</u>				
Total	670,687	116,043	103,791	48,861
General government: Control	6,667	1,587	2,199	1,491
Staff	70,227	13,953	11,996	8,436
Public safety: Police and fire ..	141,970	21,669	32,312	10,414
Other protection ..	25,423	3,904	8,573	1,606
Highways	28,495	7,138	5,131	3,875
Health and sanitation	90,225	9,014	7,192	3,120
Public welfare	-	9,896	3,646	2,327
Public schools	-	192	261	138
Recreation	53,452	6,456	7,946	2,940
Interest	63,951	6,097	6,325	2,622
Bond redemption	27,702	1,424	2,681	2,105
Pension and retirement	34,246	5,347	10,799	2,828
Salary adjustment	-	-	-	50
Economic and urban development ...	17,836	-	-	-
Mass transit	50,617	-	542	-
Miscellaneous	44,745	5,448	3,160	6,897
Cash capital improvements	15,130	23,919	1,027	11

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.

Table 284.-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1970 TO 1990

Tax year	Number of returns	Number of exemptions <u>1/</u>	Adjusted gross income (less deficit)		
			Total (\$1,000)	Per return (dollars)	Per exemption <u>1/</u> (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

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, and records.

Table 285.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1989 AND 1990

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)
1989					
All returns	542,943	15,851,813	467,371	2,177,174	4,658
Under \$10,000 2/	148,272	381,939	80,188	28,795	359
\$10,000 under \$15,000 ..	67,704	842,874	62,477	59,546	953
\$15,000 under \$30,000 ..	147,699	3,182,649	145,752	302,591	2,076
\$30,000 under \$50,000 ..	96,448	3,748,463	96,201	434,807	4,520
\$50,000 and \$75,000	53,223	3,206,430	53,177	437,966	8,236
\$75,000 under \$100,000 .	15,753	1,338,860	15,741	222,271	14,120
\$100,000 under \$200,000	10,225	1,352,584	10,217	273,713	26,789
\$200,000 or more	3,619	1,798,014	3,618	417,485	115,391
Median income	\$20,636	...	...	...	...
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	...	...	...	...

1/ Filed in following year.

2/ Includes returns with adjusted gross deficit.

Source: U.S. Treasury Department, Internal Revenue Service, SOI Bulletin, Spring 1991, p. 66, and SOI Bulletin, Summer 1992, p. 132.

Table 286.-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 1990

Subject	Number of returns	Amount (\$1,000)
All returns and adjusted gross income (AGI) ...	555,488	17,462,616
Salaries and wages	472,901	12,771,514
Dividends	115,057	345,781
Interest income	407,671	968,460
Net capital gain (less loss)	57,317	1,199,686
Taxable pensions and annuities	85,913	1,028,353
Unemployment compensation	20,490	36,371
Itemized deductions	166,851	2,710,869
Tax liability	481,830	2,463,848
Earned income credit	36,291	18,805

Source: U.S. Treasury Department, Internal Revenue Service, SOI Bulletin, Summer 1992, p. 132.

Table 287.-- INTERNAL REVENUE SERVICE OPERATIONS: 1989 TO 1991

Subject	1989	1990	1991
Internal revenue collections (\$1,000)	3,731,845	4,264,127	4,570,534
Individual income and employment taxes	3,240,686	3,670,041	3,972,434
Total returns filed	934,307	964,868	988,225
Individual income tax	519,674	535,785	550,180
Returns examined	2,797	3,099	3,027
Individual	2,323	2,333	1,980
Additional tax and penalties recommended after examination (\$1,000)	22,912	30,616	56,294
Individual	13,713	9,946	11,310
Costs incurred (\$1,000)	10,976	12,160	13,392

NA Not available.

Source: Internal Revenue Service, Annual Report, 1989, 1990, and 1991.

Table 288.-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1980 TO 1990

Year income was received	Number of resident returns	Adjusted gross income 1/ (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
1980	423,858	6,506,757	4,275,817	321,738
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

1/ Exclusive of losses.

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

Table 289.-- STATE INCOME TAX RATIOS: 1980, 1985, 1989, AND 1990

Ratio	1980	1985	1989	1990
Adjusted gross income per return (dollars)	15,351	18,852	25,644	26,802
Tax liability per return (dollars)	759	972	1,429	1,526
Tax liability as percent of AGI	4.9	5.2	5.6	5.7

Source: Preceding table.

Table 290.-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1990, 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	520,785	13,958,078,578	10,260,825,409	794,477,585
Taxable resident returns ..	426,086	13,759,912,056	10,260,825,409	794,477,585
Under \$5,000	45,670	143,520,803	58,874,807	1,585,096
\$5,000, under \$10,000 ...	57,343	427,154,435	238,538,625	10,702,233
\$10,000, under \$20,000 ..	98,425	1,463,748,186	1,053,811,678	65,279,980
\$20,000, under \$30,000 ..	68,639	1,688,812,337	1,283,116,114	91,686,400
\$30,000, under \$40,000 ..	46,990	1,635,717,014	1,234,868,665	92,163,901
\$40,000, under \$50,000 ..	33,977	1,517,506,773	1,124,976,111	86,527,051
\$50,000, under \$75,000 ..	47,023	2,827,628,404	2,061,731,341	165,844,427
\$75,000, under \$100,000 .	14,522	1,236,356,985	922,256,618	78,648,960
\$100,000, under \$150,000	7,614	906,557,879	698,782,914	61,133,495
\$150,000, under \$200,000	2,274	389,781,785	308,457,863	27,342,163
\$200,000 and over	3,609	1,523,127,455	1,275,410,673	113,563,879
Nontaxable resident returns	94,699	198,166,522	...	...
Loss	2,459	(28,290,909)	...	...
Under \$5,000	55,638	83,004,194	...	...
\$5,000, under \$10,000 ...	6,675	46,211,616	...	...
\$10,000 and over	3,785	68,950,712	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns, Individuals, 1990 (October, 1992), p. 29.

Table 291.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN, 1980 TO 1990, AND BY COUNTIES, 1989 AND 1990

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Joint	Other <u>1/</u>	All returns	Joint	Other <u>1/</u>
1980	9,676	21,510	5,294	13,464	24,980	7,639
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
COUNTIES: 1989						
Honolulu ...	15,838	35,890	9,535	21,131	40,986	13,819
Maui	17,621	35,163	10,850	20,811	37,999	14,232
Hawaii	12,309	28,162	7,528	17,693	33,490	12,758
Kauai	15,430	31,068	8,916	19,249	34,812	14,275
COUNTIES: 1990						
Honolulu ...	16,822	36,843	10,803	21,860	42,446	14,478
Maui	17,154	35,035	11,194	20,483	39,433	14,470
Hawaii	13,483	28,862	7,286	18,842	33,715	13,772
Kauai	15,423	29,320	8,943	19,707	34,802	13,188

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 292.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:
1991 AND 1992

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

Source of revenue	Tax base		Tax collections	
	1991	1992	1991	1992
All sources	43,131,886	43,247,150	1,287,819	1,299,814
Sources taxed at 4 percent	29,897,235	30,353,512	1,195,889	1,214,140
Retailing	13,398,382	13,846,332	535,935	553,853
Services	4,888,164	5,032,682	195,527	201,307
Contracting	4,334,051	4,012,688	173,362	160,507
Theater, amusement, radio	209,128	229,091	8,365	9,164
Interest	294,623	227,018	11,785	9,081
Commissions	609,629	635,371	24,385	25,415
Hotel rentals	1,512,990	1,621,751	60,520	64,870
All other rentals	3,312,787	3,391,542	132,511	135,662
Use (4 percent)	446,036	419,450	17,841	16,778
All others (4 percent)	891,445	937,587	35,658	37,503
Sources taxed at other rates ^{1/} .	13,234,651	12,893,638	63,967	61,668
Insurance solicitors	630,481	800,169	946	1,200
Sugar processing	26,884	28,096	134	140
Pineapple canning	8,816	6,620	44	33
Producing	301,884	408,662	1,509	2,043
Manufacturing	714,407	714,470	3,572	3,572
Wholesaling	7,722,752	7,498,622	38,614	37,493
Services (intermediary)	451,078	247,850	2,255	1,239
Use (1/2 percent).....	3,378,349	3,189,149	16,892	15,946
Unallocated net collections	-	-	27,963	24,006

^{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 293.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1982 TO 1992

[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	
1982 ...	60	29,631,825	15,982,660	13,649,165	21,397,832
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

1/ Percent of fair market value.

2/ Values shown for gross valuation exclude nontaxable government properties (\$20,410,057,000).

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

Table 294.-- REAL PROPERTY TAX VALUATIONS: 1990 TO 1992

[In thousands of dollars]

Subject	1990	1991	1992
Assessor's gross valuation <u>1/</u>	99,942,540	132,952,299	130,733,131
Land	61,554,968	88,359,248	84,299,686
Improvement	38,387,572	44,593,051	46,433,445
Exemptions <u>1/</u>	27,282,840	34,766,801	16,627,450
Assessor's net taxable valuation ..	72,659,700	98,185,498	114,105,681
Half of valuation on appeal	1,579,176	2,242,081	2,512,575
Number of appeals	4,089	5,619	5,550
Valuation for tax rate purposes ...	71,080,524	95,943,417	111,593,106
Land	44,192,655	63,933,593	75,739,774
Improvement	26,887,869	32,009,824	35,853,332
Amount to be raised by taxation <u>2/</u>	476,683	547,033	609,266

1/ Data for 1992 exclude nontaxable properties.

2/ For fiscal years beginning July 1.

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

Table 295.-- REAL PROPERTY TAX VALUATIONS, BY COUNTIES: 1992

[In thousands of dollars]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation <u>1/</u>	97,441,160	16,025,860	10,910,416	6,355,695
Land	65,706,254	8,774,281	5,948,145	3,871,006
Improvement	31,734,906	7,251,579	4,962,271	2,484,689
Exemptions <u>1/</u>	12,920,832	1,395,680	1,550,201	760,737
Assessor's net taxable valuation .	84,520,328	14,630,180	9,360,215	5,594,958
Half of valuation on appeal	1,943,629	249,155	139,912	179,879
Number of appeals	3,919	553	671	407
Valuation for tax rate purposes ..	82,576,699	14,381,025	9,220,303	5,415,079
Land	58,819,170	8,026,898	5,473,664	3,420,042
Improvement	23,757,529	6,354,127	3,746,639	1,995,037
Amount to be raised by taxation <u>2/</u>	416,025	78,286	81,883	33,072

1/ Data exclude nontaxable properties.

2/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1992-1993 Tax Year, State of Hawaii (July 1992), pp. 2-5.

Table 296.-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 1992

Type of exemption	Number	Amount 1/ (\$1,000)
All exemptions	202,306	38,021,091
Federal government	418	4,879,107
State government	6,791	11,002,848
County government	3,665	4,350,980
Homes-fee (basic and multiple)	146,631	9,656,741
Homes-lease (basic and multiple) ...	24,599	1,485,219
Churches	1,411	1,312,873
Hospitals	80	542,326
Low-moderate income housing	1,097	746,617
Charitable organizations	700	1,029,856
Public utilities	785	837,135
Schools	147	704,600
All others	15,982	1,472,789

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, 1992-1993 Tax Year, State of Hawaii (July 1992), p. 6.

Table 297.-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES: 1992

[In thousands of dollars]

Land use class	County code <u>1/</u>	Gross valuation, Jan. 1, 1992 <u>2/</u>			Amounts to be raised by taxation, fiscal 1992-93
		Total	Land	Improvement	
All classes	(X)	130,733,131	84,299,686	46,433,445	609,266
Improved residential .	A	58,564,896	41,431,254	17,133,642	167,719
Apartment	B	19,851,232	8,156,720	11,694,512	79,192
Commercial	B	16,663,833	11,604,930	5,058,903	120,730
Industrial	B	7,036,295	5,223,511	1,812,784	55,562
Agricultural	B	6,157,267	4,612,202	1,545,065	42,346
Conservation	B	1,191,301	1,091,384	99,917	8,525
Hotel/resort	B	13,158,412	6,697,629	6,460,783	106,198
Unimproved residential	A	2,499,050	2,283,983	215,067	8,961
Homeowner	C	2,440,382	1,072,764	1,367,618	9,163
Single family	D	1,705,628	1,235,873	469,755	7,377
Homestead	D	1,464,835	889,436	575,399	3,493

X Not applicable.

1/ A, all but Kauai; B, all four counties; C, Hawaii Co. only; D, Kauai only.

2/ Excludes nontaxable properties.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1992-1993 Tax Year, State of Hawaii (July 1992).

Table 298.-- REAL PROPERTY TAX RATES, BY COUNTIES:
FISCAL YEAR 1992-1993

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

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential <u>1/</u>	3.12	3.50	8.50	4.93
Unimproved residential <u>2/</u> ..	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 .....	...	...	7.00	...
Improvement:				
Improved residential <u>1/</u>	3.92	3.50	8.50	3.94
Unimproved residential <u>2/</u> ...	3.92	4.75	8.50	3.18
Apartment	3.52	4.75	8.50	7.59
Hotel and 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 .....	...	...	7.00	...

1/ Single family for Kauai.

2/ Homestead for Kauai.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1992-1993 Tax Year, State of Hawaii (July 1992), p. 8.

Table 299.-- RESIDENTIAL PROPERTY TAX RATES IN HONOLULU AND
51 MAJOR CITIES: 1990

Subject	Effective tax rate per \$100 ^{1/}
Median city ^{2/}	1.46
Honolulu	0.48
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: 1992, p. 303.

Table 300.-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1991

[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	1976	2,162	1984	4,232
1969	988	1977	2,066	1985	4,568
1970	964	1978	2,507	1986	4,643
1971	1,075	1979	2,659	1987	4,759
1972	1,173	1980	3,151	1988	4,957
1973	1,435	1981	3,811	1989	5,422
1974	1,644	1982	3,505	1990	5,461
1975	2,060	1983	4,054	1991	6,162

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 for Fiscal Year 1991 (March 1992), p. 38.

Table 301.-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES:
FISCAL YEARS 1986 TO 1991

[Millions of dollars]

Type of expenditure	1986	1987	1988	1989	1990	1991
All categories	4,643	4,759	4,957	5,422	5,461	6,162
Grants to State and local governments	473	460	477	528	598	739
Salaries and wages	1,961	2,073	2,078	2,285	2,166	2,318
Direct payments for individuals	1,517	1,617	1,715	1,884	2,034	2,216
Procurement	619	525	591	624	547	761
Other direct expenditures	73	84	96	100	115	128
Department of Defense	2,486	2,503	2,562	2,821	2,604	2,936
Other federal agencies	2,158	2,256	2,395	2,601	2,857	3,226

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1991 (March 1992), pp. 37-43, corresponding data in earlier reports, and records.

Table 302.-- PER CAPITA FEDERAL EXPENDITURES IN HAWAII, BY TYPES:
FISCAL YEAR 1991

Category	Amount (dollars)	Percent of U.S.	Rank <u>1/</u>
All categories	5,428.63	126.8	5
Grants to State and local governments ...	651.02	108.7	17
Salaries and wages	2,042.18	334.4	2
Direct payments for individuals	1,952.07	92.2	35
Procurement	670.37	82.6	21
Other direct expenditures	112.99	77.9	28
Department of Defense	2,586.56	278.2	2
All other Federal agencies	2,842.07	84.8	44

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 1991 (March 1992), tables 8, 10, and 12.

Table 303.-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII,
BY COUNTIES: FISCAL YEAR 1991

[Thousands of dollars]

County	All agencies	Department of Defense	All other agencies
State total ^{1/}	6,198,142	2,935,750	3,262,392
City and County of Honolulu ..	5,217,921	2,831,433	2,386,488
Hawaii County	402,464	55,711	346,753
Kauai County	138,681	20,932	117,749
Maui County	228,179	27,419	200,760
State undistributed	210,897	255	210,642

^{1/} Figures differ somewhat from those in tables 290 and 291, 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 1991, Vol. I: County Areas (March 1992), pp. 14-15.

Table 304.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS:
1981 TO 1991

[In millions of dollars. As of December 31]

Year	Total bonded debt <u>1/</u>	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0
1983	2,545.4	2,235.8	219.5	19.0	52.1	19.0
1984	2,715.7	2,391.5	221.0	33.5	50.9	18.8
1985	3,131.5	2,621.2	404.0	30.8	56.7	18.8
1986	3,311.8	2,720.4	456.8	47.2	69.3	18.0
1987	3,298.4	2,700.7	448.7	48.8	67.3	32.9
1988	3,382.3	2,728.8	513.6	43.1	65.1	31.6
1989	3,710.4	2,969.9	559.5	73.6	72.4	35.0
1990	4,484.5	3,394.4	846.3	110.5	100.0	33.2
1991	5,298.1	4,214.0	831.2	108.5	96.9	47.4

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

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

Table 305.-- STATE GENERAL OBLIGATION BOND DEBT: 1986 TO 1991

[In dollars. As of June 30]

Year	Debt	Year	Debt
1986	1,734,971,350	1989	1,978,039,494
1987	1,823,677,080	1990	2,026,100,383
1988	1,847,982,810	1991	2,274,846,114

Source: Hawaii State Department of Accounting and General Services, records.

Table 306.-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 1992

[For earlier years, see Data Book 1987, table 324]

Year	Government workers (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
1989	101,600	34,000	53,550	14,100	20,016	52,655
1990	105,600	34,150	57,050	14,400	20,654	53,509
1991	109,050	34,000	60,250	14,750	21,217	55,604
1992	(NA)	(NA)	(NA)	(NA)	22,920	57,401

NA Not available.

1/ December 31 through 1960 and June 30 thereafter. State or Territorial workers in civil service system. Data exclude county employees, also covered by civil service.

2/ June 30 through 1960 and March 31 thereafter. Includes State or Territorial employees, county employees, and inactive members (those no longer employed by the State, Territory, or counties who have remained in the System), but excludes pensioners.

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 (March 1978, as updated); Hawaii State Department of Personnel Services, Annual Report for 1980-1988, and records; Employees' Retirement System of the State of Hawaii, 58th Annual Report, June 30, 1984, p. 17, and records.

Table 307.-- STATE CIVIL SERVICE: 1990 TO 1992

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions]

Subject	1990 ^{1/}	1991	1992
Civil service employees, June 30	20,654	21,217	22,920
Department of Education	4,784	4,650	5,495
Department of Health	4,962	5,127	5,353
Department of Human Services	1,641	1,776	1,911
Department of Transportation	2,076	2,182	2,201
University of Hawaii	1,533	1,605	1,662
All others	5,658	5,877	6,298
Separations	1,958	1,844	2,074
Promotions	867	894	902
Transfers, demotions, and returns after promotions ..	780	789	958
Classification and related actions	11,616	11,092	13,828
Applications received	30,818	33,884	35,364
Applicants screened	28,537	28,821	35,491
Applicants placed on eligible list	9,851	11,246	12,982
Vacancies filled by competitive and noncompetitive actions	3,103	3,702	3,589
Grievances filed	215	156	321

^{1/} Revised from Data Book 1991, table 297.

Source: Hawaii State Department of Personnel Services, records.

Table 308.-- STATE SALARY SCHEDULES FOR SELECTED LEVELS:
1990 TO 1992

[In dollars per month. Data refer to lowest and highest rates
among the bargaining units]

Salary range	Lowest			Highest		
	July 1990	July 1991	July 1992	July 1990	July 1991	July 1992
SR-4	1,184	1,217	1,263	1,620	1,665	1,866
SR-11	1,557	1,600	1,660	2,131	2,190	2,457
SR-21	2,279	2,342	2,412	3,245	3,506	3,824
SR-31	3,650	3,750	3,863	5,194	5,337	5,497

Source: Hawaii State Department of Personnel Services,
salary schedules and conversion tables.

Table 309.-- SALARIES OF SELECTED GOVERNMENT OFFICIALS: 1976,
1990, 1991, AND 1992

[Annual rates, in dollars, as of January 1]

Government official	1976	1990	1991	1992
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	89,000	89,000
Mayor, Hawaii	43,644	63,792	76,848	76,848
Mayor, Maui	36,070	80,000	82,500	82,500
Mayor, Kauai	34,000	58,500	58,500	69,969
Chief Justice, Supreme Court	47,500	94,780	94,780	94,780
Associate Justice, Supreme Court ...	45,000	78,500	78,500	93,780
President, University of Hawaii	45,000	95,000	95,000	95,000

Source: SLH 1989, Act 329; HRS, 1991 Supplement, Vol. II, Section
602-2; Salary Commission of the City and County of Honolulu, Final Report and
Salary Schedule; Hawaii, Maui, and Kauai County ordinances; DBED telephone
surveys; newspaper articles.

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: 1992 presents data on national defense and veterans affairs for other states and the entire nation.

Table 310.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE
ARMED FORCES WORLDWIDE: 1970 TO 1992

[As of June 30. Based on home of record]

Year	Number	Year	Number	Year	Number
1970	15,331	1985	10,827	1990	10,052
1975	10,640	1988	10,548	1991	10,076
1980	11,851	1989 <u>1/</u> .	10,501	1992	8,432

1/ U.S. military personnel stationed abroad as of December 31, 1989 included 3,782 whose home of record was Hawaii and 5,049 whose last U.S. duty station was Hawaii.

Source: U.S. Department of Defense, Manpower Data Center, records; U.S. Bureau of the Census, "Press Clippings," CB90-28, July 23, 1990.

Table 311.-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS:
1986 TO 1991

[As of September 30. Excludes Coast Guard]

Year	Active-duty shorebased military personnel <u>1/</u>	Dependents of active-duty military personnel <u>2/</u>	Direct-hire civilian personnel <u>3/</u>
1986	46,122	53,428	20,536
1987	47,262	52,438	20,243
1988	45,843	54,820	20,133
1989	43,792	54,724	20,246
1990	39,936	51,727	19,857
1991	42,869	50,006	18,978

1/ Excludes Navy personnel afloat or temporary shorebased.

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 312.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1992

[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		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1 ...	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1 ...	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1 ...	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1 ...	127,887	60,804	56,321	4,483	67,083	31,415
1985: July 1 ...	122,286	58,005	53,848	4,157	64,281	29,997
1986: July 1 ...	124,794	58,584	53,616	4,968	66,210	29,481
1987: July 1 ...	125,127	60,277	56,322	3,955	64,850	32,038
1988: July 1 ...	133,958	64,053	60,621	3,432	69,905	34,535
1989: July 1 ...	116,644	56,370	53,263	3,107	60,274	31,652
1990: April 1 ..	113,833	53,898	50,681	3,217	59,935	30,934
1991: July 1 ...	117,141	53,813	51,197	2,616	63,328	28,655
1992: July 1 ...	109,959	52,965	50,206	2,759	56,994	23,751

1/ Beginning in 1982, 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.

Table 313.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1992

[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	109,959	52,965	32,317	17,889	2,759	56,994	23,751	
By island:								
Oahu	109,438	52,729	32,138	17,838	2,753	56,709	23,610	
Hawaii	209	80	66	10	4	129	58	
Maui	40	17	17	-	-	23	12	
Kauai	272	139	96	41	2	133	71	
Kure Atoll <u>1/</u> .	-	-	-	-	-	-	-	
By service:								
Air Force	12,583	5,175	4,728	447	-	7,408	3,100	
Army	43,067	19,121	11,173	7,948	-	23,946	9,514	
Coast Guard ...	2,484	1,166	924	67	175	1,318	552	
Marine Corps ..	19,077	9,402	3,975	5,427	-	9,675	3,734	
Navy	32,748	18,101	11,517	4,000	2,584	14,647	6,851	

1/ Disestablished effective July 2, 1992.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers.

Table 314.-- NATIONAL GUARD STRENGTH: 1987 TO 1992

[Actual strength as of late June]

Service	1987	1988	1989	1990	1991	1992
Total	5,814	5,838	5,769	5,711	5,632	5,628
Air National Guard ...	2,190	2,187	2,159	2,124	2,078	2,128
Army National Guard ..	3,624	3,651	3,610	3,587	3,554	3,500

Source: Hawaii State Department of Defense, records.

Table 315.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY SERVICE: SEPTEMBER 30, 1991

Category	All services	Army	Navy	Air Force	Other DoD
Total	61,847	24,024	29,921	7,694	208
Military personnel <u>1</u> /	42,869	18,876	18,498	5,495	-
Civilian personnel <u>2</u> /	18,978	5,148	11,423	2,199	208

Footnotes and source follow next table.

Table 316.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY LOCATION: SEPTEMBER 30, 1991

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total	61,847	42,869	18,978
Aiea	674	441	233
Barbers Point NAS	1,579	1,234	345
Camp H. M. Smith	793	793	-
Ford Island	333	295	38
Fort Shafter	3,174	1,271	1,903
Hickam AFB	5,874	3,959	1,915
Honolulu	831	310	521
Kaneohe	8,228	7,553	675
Kapalama	155	8	147
Kauai	275	145	130
Kunia	401	357	44
Lualualei	479	199	280
Pearl Harbor	17,156	7,736	9,420
Schofield Barracks	16,009	15,026	983
Tripler Army Medical Center	3,153	1,900	1,253
Wahiawa	724	545	179
Wheeler AFB	1,373	911	462
Other	636	186	450

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, 1991, pp. 6 and 29.

Table 317.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY:
ANNUAL AVERAGES, 1986 TO 1991

Service	1986	1987	1988	1989	1990	1991
Total	20,400	20,150	20,200	20,100	19,350	19,050
Air Force	2,650	2,550	2,450	2,350	2,300	2,250
Army	5,600	5,600	5,500	5,550	5,600	5,500
Navy	12,150	11,950	12,250	12,200	11,450	11,300

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as updated annually through April 1991.

Table 318.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1989 TO 1991

[In thousands of dollars. Fiscal years ended September 30. Net value of Department of Defense prime contracts over \$25,000]

Procurement program	1989	1990	1991
Total	578,733	511,893	697,127
Ships	25,529	16,086	6,771
Electronics and communication equipment ...	32,645	37,214	20,751
Petroleum	38,240	59,274	57,295
Construction	262,044	157,555	312,601
Services	191,413	198,244	254,257
All other procurement programs	28,862	43,520	45,452

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by Region and State, Fiscal Years 1991, 1990, and 1989, p. 29.

Table 319.-- ALTERNATE ESTIMATES OF FEDERAL DEFENSE EXPENDITURES:
1971 TO 1991

[In millions of dollars. These widely differing estimates from different sources reflect variations in coverage, definitions, and reporting periods]

Year	Based on GSP accounts <u>1/</u>	Based on local services <u>2/</u>	Census Bureau data <u>3/</u>	Bank of Hawaii estimates <u>4/</u>
1971	958.6	708.8	623	722.2
1972	1,068.2	744.2	670	763.4
1973	1,223.1	840.9	807	872.2
1974	1,311.8	897.9	944	935.0
1975	1,442.1	982.8	1,107	1,027.5
1976	1,499.2	1,034.2	1,221	1,080.3
1977	1,576.1	1,086.6	995	1,131.8
1978	1,644.5	1,155.5	1,240	1,214.8
1979	1,707.7	1,221.8	1,372	1,309.7
1980	1,865.4	1,317.4	1,648	1,399.2
1981	2,041.2	1,449.3	2,223	1,520.9
1982	2,385.3	1,693.4	1,932	1,820.0
1983	2,566.5	1,848.2	2,198	2,028.7
1984	2,653.0	1,867.2	2,324	2,062.9
1985	2,810.1	1,965.4	2,553	2,159.5
1986	2,866.3	1,784.9	2,486	2,033.0
1987	2,923.6	1,857.0	2,503	2,220.1
1988	2,924.2	1,892.4	2,562	2,159.0
1989	3,050.8	2,038.2	2,821	2,313.5
1990	3,203.3	...	2,604	...
1991	3,300.0	...	2,936	...

1/ DBEDT estimates based partly on U.S. Bureau of Economic Analysis data; see table 391 and its source. The 1991 figure is preliminary.

2/ DBEDT data based on partial reporting by armed services in Hawaii; see Data Book 1990, table 318. Series discontinued after 1989.

3/ U.S. Department of Defense expenditures reported by U.S. Office of Economic Opportunity (1971-75), Community Services Administration (1976-80), and Bureau of the Census (1981-91); see Data Book for 1982 (table 224), 1987 (table 320), and 1992 (table 301). Data refer to fiscal years.

4/ Bank of Hawaii estimates reported in their Hawaii 1990, Annual Economic Report, p. 38. Series discontinued after 1989 and replaced with Census Bureau data.

Sources cited in footnotes.

Table 320.-- 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	-	-	3
Kaula	108	108	-
Northwestern Hawaiian Islands, exc. Midway	-	-	-

Source: Honolulu Advertiser, November 16, 1992, p. A2.

Table 321.-- HOUSING UNITS OWNED BY THE ARMED FORCES,
BY COUNTIES: APRIL 1, 1991 AND 1992

Year	State total	Hono- lulu	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 322.-- 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 323.-- CIVILIAN VETERANS 16 YEARS AND OVER, BY
COUNTIES: 1990

Age	State total	Ha- waii	Hono- lulu	Kala- wao	Kauai	Maui
Total, all ages	119,256	13,655	91,022	33	4,906	9,640
65 years and over ..	24,638	3,089	18,692	-	919	1,938

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 4.

Table 324.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1991

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	12,547	11,446	15,928	1,392
Army	5,063	4,553	5,770	1,267
Navy	3,510	3,225	4,680	1,451
Marine Corps	857	768	1,217	1,585
Air Force	3,117	2,900	4,262	1,470

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 1991 DOD Statistical Report on the Military Retirement System (1992), p. 20.

Table 325.-- WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES:
1914 TO 1976

[Data refer to U.S. military personnel whose home State or pre-service residence of record was Hawaii]

War	Personnel serving <u>1/</u>	Battle deaths <u>2/</u>	Nonbattle deaths	Wounded
World War I <u>3/</u>	9,800		102	(NA)
World War II	36,777	658	138	(NA)
Korean conflict	16,594	403	(NA)	923
Vietnam conflict	12,970	221	51	(NA)

NA Not available.

1/ Korean conflict figure is number of Hawaii residents serving worldwide at wartime peak, June 30, 1952.

2/ Vietnam conflict figure refers to deaths from hostile action.

3/ Data include nearly 200 Hawaii residents serving (and 22 dying) with the British armed forces, many prior to the U.S. entry into World War I.

Source: World War I data from Ralph S. Kuykendall, Hawaii in the World War (1928), pp. xvii-xix and 90. World War II data from Hawaii-Alaska Statehood. Hearings Before the Committee on Interior and Insular Affairs, House of Representatives ... 1955, pp. 298-299, and Office of the Assistant Secretary of Defense, Comptroller (Systems Policy & Information), letter dated Nov. 2, 1973. Korean conflict data from Bureau of the Census estimate in Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1977 (Statistical Report 120, Sept. 9, 1977), table 5, and Office of the Assistant Secretary of Defense, op.cit. Vietnam conflict data from DPED, op.cit., table 6, and Assistant Secretary of Defense, op.cit.

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 \$485 million in fiscal 1991, compared with \$287 million a decade earlier. About 57 percent of the 1991 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1991 was 53,000, or 4.7 percent of the resident population of the State. Fifty-four percent of all public assistance payments and 42 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 \$524, or 53 percent more than in 1981. Participation in the food stamp program included 34,000 households and 81,000 persons. Among workers receiving unemployment compensation in 1991, weekly benefits averaged \$206. Out of 673,000 persons 16 to 64 years of age, 27,000 reported a mobility or self-care limitation in 1990. About 151,000 Hawaii residents were receiving Social Security benefits in December 1991, and about 131,000 were enrolled for Medicare. There were also 22,000 State and county government pensioners in 1992, with annual benefits of \$284 million. Child adoptions in 1991 numbered 592. Some 149 foundations reported assets of \$510 million when most recently surveyed. The United Way reported revenues of \$14.9 million and agency allocations of \$13.7 million in 1989. 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: 1992 presents comparable Mainland data.

Table 326.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES: 1981 TO 1991, 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
1981	27,604	72,480	342.67	130.68	15,281	11,763	12,104
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
COUNTIES: 1991							
Hawaii ..	4,430	11,595	533.00	204.00	(NA)	(NA)	2,733
Maui	1,278	3,418	537.00	201.00	(NA)	(NA)	1,282
Honolulu	14,307	36,401	520.00	205.00	(NA)	(NA)	13,577
Kauai ...	757	1,913	512.00	203.00	(NA)	(NA)	1,152

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 327.-- PERCENT OF RESIDENT POPULATION SERVED BY FINANCIAL ASSISTANCE PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES, BY COUNTIES: 1990 AND 1991

[Based on fiscal year program data and July population estimates]

Year	State	Hawaii	Maui	Honolulu	Kauai
1990	4.6	9.3	3.3	4.2	3.5
1991	4.7	9.2	3.3	4.3	3.6

Source: Hawaii State Department of Human Services, records; present volume, table 6.

Table 328.-- SELECTED SOCIAL WELFARE EXPENDITURES: 1981 TO 1991

[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- istra- tion	Medical pay- ments <u>1/</u>	Money payments	Social service costs
1981	286,709	131,652	155,057	19,595	135,541	118,346	13,227
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

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 329.-- FINANCIAL ASSISTANCE PAYMENTS AND CASES: 1990 AND 1991

[Years ended June 30]

Program	Total payments (\$1,000)		Cases (monthly average)		Average monthly payment (dollars)	
	1990	1991	1990	1991	1990	1991
All programs	176,135	190,787	33,652	34,889	436	456
Old age assistance <u>1/</u> .	17,073	18,505	5,471	5,646	260	273
Aid to the blind <u>1/</u> ...	702	718	186	185	314	323
Aid to disabled <u>1/</u>	32,753	35,687	7,650	8,005	357	372
Aid to families with dependent children <u>2/</u>	96,453	103,803	14,273	14,672	563	590
Child welfare foster care	5,738	6,394	1,001	1,006	478	530
General assistance	23,416	25,680	5,071	5,375	384	398

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 report, FY printout; Social Security Bulletin, tables M22, M24, M25.

Table 330.-- FOOD STAMP PROGRAM: 1990 AND 1991

[Years ended June 30]

Subject	1990	1991
Households, total participating <u>1/</u>	31,809	33,559
Receiving food stamps and financial assistance	16,095	18,486
Receiving only food stamps	15,714	15,073
Persons, total participating <u>1/</u>	80,285	81,346
Receiving food stamps and financial assistance	48,190	53,260
Receiving only food stamps	32,095	28,086
Value of food stamps given to recipients (\$1,000)	74,533	94,474

1/ Monthly averages.

Source: Hawaii State Department of Human Services, Food Stamps and IM printout.

Table 331.-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI)
 BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE, RACE, AND SEX:
 1990 AND 1991

[December data. Based on 10-percent sample]

Age, race, and sex	December 1990	December 1991
Total	148,160	151,390
Age:		
17 years or under	9,860	9,970
18 to 64 years	27,650	27,210
65 to 69 years	38,410	37,950
70 to 74 years	29,600	31,930
75 years or older	42,640	44,330
Race:		
White	39,760	41,580
Black	1,080	1,060
Other	107,320	108,750
Beneficiaries other than children:		
Men	62,670	63,770
Women	73,440	75,450

Source: U.S. Department of Health and Human Services, Social Security Administration, Social Security Bulletin, Annual Statistical Supplement for 1991 and 1992.

Table 332.-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI)
 BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT, AND COUNTIES:
 DECEMBER 1991

Type of benefit and county	Number of OASDI beneficiaries	Amount of monthly benefits (\$1,000)
Total	151,305	85,096
TYPE OF BENEFIT		
Retirement program:		
Retired workers	104,956	64,912
Spouses	11,143	3,308
Children	3,597	889
Survivor program:		
Widows, widowers, and parents	14,624	8,115
Children	6,224	2,604
Disability program:		
Disabled workers	7,914	4,811
Spouses	583	84
Children	2,264	373
Age 65 and over:		
Men	53,345	36,621
Women	61,183	31,842
COUNTY		
Hawaii	20,865	11,683
Honolulu	106,980	60,102
Kalawao	150	83
Kauai	8,575	4,787
Maui	14,475	8,287
Unknown	260	138

Source: U.S. Department of Health and Human Services, Social Security Administration, records.

Table 333.-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS:
1986 TO 1991

Year	Number of beneficiaries, December	Monthly amounts, December (\$1,000)	Annual payments (million dollars)
1986	133,520	57,629	667
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

Source: U.S. Department of Health and Human Services, Social Security Administration, Social Security Bulletin, Annual Statistical Supplement, 1992, tables 5.J1, 5.J2, and 5.J4.

Table 334.-- MEDICARE BENEFICIARIES ENROLLED AND BENEFIT PAYMENTS:
1990 AND 1991

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments 1/ (mil. dol.)	
	1990	1991	1990	1991	1990	1991
Hospital and/or medical insurance	126,934	131,091	118,054	121,946	258	282
Hospital insurance	123,697	127,895	114,817	118,750	-	-
Supplementary medical insurance	119,698	123,295	111,760	115,152	-	-
Hospital and medical insurance (both)	116,461	120,099	108,523	111,956	-	-

1/ Fiscal years.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, records.

Table 335.-- 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 336.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1987 TO 1992

Year	Member- ship, <u>1/</u> March 31	Pension- ers and benefi- ciaries, 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)
1987 ..	48,262	18,635	3,142,146	206,346	596	1,985,071
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

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, records.

Table 337.-- CHILD ADOPTIONS: 1986 TO 1991

Type of adoption	1986	1987	1988	1989	1990	1991
Total	544	581	611	830	678	592
By relatives	339	414	409	577	479	408
By nonrelatives	205	167	202	253	190	176
Placed by social agencies ...	160	134	167	207	174	153

Source: Hawaii State Department of Human Services, tabulations from SRS-NCSS-280 Adoption Cards.

Table 338.-- UNEMPLOYMENT INSURANCE: 1981 TO 1991

Calendar year	Covered employment	Insured unemployment		Average weekly total wages (dollars)	Gross benefits (\$1,000)	Average weekly benefits (dollars)	Average benefit duration (weeks)
		Weekly average	Percent coverage				
1981 ...	417,018	12,224	51	276.79	66,194	113.59	14.2
1982 ...	409,511	13,657	44	295.25	77,788	124.34	14.8
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 ...	533,233	5,722	38	444.92	50,269	189.40	11.4
1991 ...	(NA)	8,104	54	(NA)	82,741	205.70	13.0

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, State of Hawaii Unemployment Insurance Fact Book, 1992, pp. 6, 8, 11, 22, and 23, and records.

Table 339.-- CHILD DAY CARE SERVICES WITH PAYROLL, BY FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA: 1987 AND 1990

[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
1990						
State total ..		130	(NA)	(NA)		1,331
Oahu		97	(NA)	(NA)		1,155
Neighbor Islands ..		33	(NA)	(NA)		176

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 1990, Hawaii, CBP-90-13 (November 1992), tables 1b and 2.

Table 340.-- FOUNDATIONS: SEPTEMBER 1992

Subject	Limited to Hawaii	Not limited to Hawaii	Unclassified
Number of foundations	106	1	44
Assets:			
Number reporting	105	1	43
Amount (\$1,000)	496,060	1,312	12,559
Total giving:			
Number reporting	105	1	43
Amount (\$1,000)	24,786	50	812

Source: The Foundation Center, Foundations Directory, September 1992.

Table 341.-- PRIVATE FOUNDATIONS WITH \$10 MILLION OR MORE IN BOOK VALUE OF TOTAL ASSETS: 1988

Subject	Amount
Number reporting to Internal Revenue Service	8
With fair market value of assets over \$100 million	1
Total assets, fair market value (\$1,000)	359,476
Total revenue (\$1,000)	74,556
Contributions, gifts, and grants received (\$1,000)	54,667
Total expenses (\$1,000)	16,561
Contributions, gifts, and grants paid (\$1,000)	9,008

Source: U.S. Internal Revenue Service, SOI Bulletin, Winter 1991-1992, p. 46.

Table 342.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS:
1990 AND 1991

[Thousands of dollars]

Year and island	Total revenues	Contributions	Total outlays	Agency allocation
1990				
Total reported	15,329	14,378	14,953	10,700
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	(NA)	(NA)	(NA)	(NA)
Friendly Isle United Way (Molokai) ..	38	34	33	12
1991				
Total reported	16,121	15,345	15,888	12,163
Aloha United Way (Oahu)	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	(NA)	(NA)	(NA)	(NA)
Friendly Isle United Way (Molokai) ..	50	42	41	18

NA Not available.

Source: Aloha United Way, Annual Reports; Hawaii Island United Way, Inc., Financial Statements and records; Friendly Isle United Way, records.

Table 343.-- QUALITY OF LIFE GENERAL INDEX RANKINGS, FOR THE STATE AND HONOLULU METROPOLITAN STATISTICAL AREA: 1987 TO 1992

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>I/</u>	50	6
Honolulu MSA:		
Eisenberg and Englander, 1987 <u>2/</u>	300	58
Eisenberg and Englander, 1988 <u>3/</u>	300	43
Eisenberg and Smith, 1989 <u>4/</u>	300	14
Boyer and Savageau, 1989 <u>5/</u>	333	32
Eisenberg and Smith, 1990 <u>6/</u>	300	27
Smith and Englander, 1991 <u>7/</u>	300	27
Smith and Englander, 1992 <u>8/</u>	300	7

1/ Morgan Quitno (publisher), State Rankings (annual), cited in Honolulu Advertiser, October 8, 1991, p. D5, and March 10, 1992, p. A10.

2/ Richard Eisenberg and Debra Wishik Englander, "The Best Places to Live in America," Money, August 1987, pp. 34-44.

3/ Richard Eisenberg and Debra Wishik Englander, "The Best Places to Live in America," Money, August 1988, pp. 76-84.

4/ Richard Eisenberg and Marguerite T. Smith, "The Best Places to Live in America," Money, September 1989, pp. 124-141.

5/ Richard Boyer and David Savageau, Places Rated Almanac, rev. ed. (Prentice Hall, 1989), p. 397.

6/ Richard Eisenberg and Marguerite T. Smith, "The Best Places to Live Now," Money, September 1990, pp. 78-95.

7/ Marguerite T. Smith and Debra Wishik Englander, "The Best Places to Live Now," Money, September 1991, pp. 130-146.

8/ Marguerite T. Smith and Debra Wishik Englander, "The Best Places to Live in America," Money, September 1992, pp. 110-124.

Table 344.-- QUALITY OF LIFE SPECIAL INDEX RANKINGS, BY GEOGRAPHIC AREAS: 1986 TO 1991

Type of index, area ranked, authority, and year of publication	Areas ranked		Local rank
	Type	Number	
STRESS INDEXES			
State: Linsky and Straus, 1986 <u>1/</u>	States	50	17
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/ Arnold S. Linsky and Murray A. Straus, Social Stress in the United States (Auburn House Publishing Co., 1986), pp. 38-39 and 51. Based on "State Stress Index," calculated from 1976 data.

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 561,000 in 1991; of this total, 546,000 persons were employed and 15,000 were unemployed and seeking work. The civilian jobcount rose from 450,000 in 1981 to 591,000 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 2.8 percent in 1991, with individual island levels ranging from 2.3 to 8.4 percent. By occupation, three out of ten civilian workers are classified as professional or managerial. Activities with especially large numbers of employees include services (158,000 in 1991), retail trade (114,000), and government (109,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached \$24,000 in 1991, or 3.3 percent more than the 1981 average after adjustment for inflation. Average weekly hours in 1991 were 39.2 for all civilian workers and 47.2 for those on full-time schedules, and by industry ranged from 31.0 (for retail trade) to 43.1 (for communication and utilities). Labor union membership was estimated at 165,000 in 1992. Work stoppages in the five-year period ended in 1991 involved more than 7,900 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: 1992.

Table 345.-- 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 346.-- LABOR FORCE CHARACTERISTICS, BY COUNTIES: 1990

Subject	The State	Ha-waii	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 347.-- 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 348.--LABOR FORCE STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGES, 1990 AND 1991

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
1990				
Civilian noninstitutional population .	803	376	427	47
Civilian labor force	539	280	259	22
Percent of population	67.1	74.5	60.6	47.0
Employment	524	271	253	19
Percent of population	65.2	72.0	59.2	40.6
Unemployment	15	9	6	3
Rate ^{1/}	2.8	3.3	2.3	13.7
Not in civilian labor force	264	96	168	25
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

^{1/} Percent of civilian labor force. The 1991 error ranges for these rates, at the 90-percent confidence level, are: both sexes, 2.3-3.2; men, 2.1-3.4; women, 2.1-3.5; 16-19, 6.5-15.2.

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1990 (Bulletin 2381, June 1991), p. 38, and Geographic Profile of Employment and Unemployment, 1991 (Bulletin 2410, August 1992), p. 40.

Table 349.-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, BY RACE AND
HISPANIC ORIGIN: 1991

[Thousands]

Race <u>1/</u>	Both sexes	Female	Race <u>1/</u>	Both sexes	Female
All races	561.0	255.2	Asian/Pacific -- con.:		
White	174.3	77.3	Korean	10.7	5.8
Asian/Pacific <u>2/</u>	372.4	172.0	Other Asian/Pac.	9.9	4.0
Japanese	175.4	83.4	Black	4.2	1.8
Filipino	77.4	34.5	Native American <u>3/</u>	1.4	0.6
Hawaiian	63.1	28.2	Race n.e.c.	8.6	3.6
Chinese	35.8	16.2	Hispanic <u>4/</u>	32.7	14.2

1/ Based on census definitions. Persons of mixed race are classified by self-identification or race of mother.

2/ Asians and Pacific Islanders include Japanese, Chinese, Filipino, Korean, Asian Indian, Vietnamese, Hawaiian, Guamanian, and Samoan residents.

3/ American Indian, Eskimo, or Aleut.

4/ Hispanics may be of any race.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Information for Affirmative Action Programs (April 1992), table 2.

Table 350.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:
ANNUAL AVERAGES, 1970 TO 1991

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	539,000	524,000	15,000	2.8
1991	561,000	546,000	15,000	2.8

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as updated and revised annually through April 1992.

Table 351.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1980 TO 1991

[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	26,300	52,750	1,050	49,200	2,450
1989 $\frac{1}{I}$...	384,500	56,900	27,600	55,000	1,450	51,300	2,250
1990 $\frac{1}{I}$...	392,300	61,150	27,950	57,550	1,350	53,700	2,500
1991	403,500	66,150	29,950	61,400	1,500	57,350	2,550
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 $\frac{1}{I}$...	373,500	52,200	25,350	51,000	950	47,800	2,250
1989 $\frac{1}{I}$...	375,950	54,700	26,800	53,550	1,300	50,200	2,050
1990 $\frac{1}{I}$...	382,300	58,800	26,950	55,950	1,300	52,400	2,250
1991	394,200	63,500	28,850	59,450	1,450	55,700	2,300

Continued on next page.

Table 351.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1980 TO 1991 -- 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 <u>1/</u> ..	8,550	2,200	800	1,450	100	1,100	200
1990	10,000	2,350	1,000	1,600	50	1,300	250
1991	9,300	2,650	1,100	1,950	50	1,650	200
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 <u>1/</u> ..	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 <u>1/</u> ..	2.2	3.9	2.8	2.6	8.3	2.2	9.8
1990 <u>I/</u> ..	2.6	3.8	3.6	2.8	3.8	2.4	10.4
1991	2.3	4.0	3.7	3.2	4.2	2.9	8.4

1/ Revised from Data Book 1991, table 336.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised and updated annually through April 1992.

Table 352.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED:
ANNUAL AVERAGES, 1991

[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	3.0	Services	20.5
22 to 24 years	5.7	Hotel	5.7
25 to 34 years	32.0	Others	1.4
35 to 44 years	31.0	Occupation:	
45 to 54 years	16.6	Prof., tech., mgr.	19.0
55 to 64 years	8.9	Clerical, sales	15.4
65 years and over	2.2	Services	10.1
Sex:		Farm, fish., forest.	4.0
Male	67.1	Processing	0.9
Female	32.9	Machine trades	1.8
Industry:		Bench work	1.7
Government	5.2	Structural work	18.0
Agriculture	6.2	Miscellaneous	6.1
Construction	34.6	Not available	23.1
Manufacturing	5.4	Duration:	
Trans., commun., util. ...	7.9	1 to 4 weeks	40.3
Wholesale, retail trade ..	15.1	5 to 14 weeks	39.3
		15 weeks and over	20.5

Source: Hawaii State Department of Labor and Industrial Relations,
Characteristics of the Insured Unemployed in Hawaii--1991.

Table 353.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1980 TO 1991

[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	461,000	362,200	41,000	18,950	38,950
1985	473,150	369,800	42,400	19,900	41,100
1986	486,650	379,600	43,300	21,200	42,500
1987	504,900	391,750	45,600	22,450	45,100
1988	524,400	404,500	47,500	24,250	48,100
1989	552,000	421,650	52,000	26,600	51,850
1990 <u>1/</u> ..	580,950	441,050	57,000	27,650	55,000
1991	591,250	445,100	60,050	29,050	57,200

1/ Revised from Data Book 1991, table 338.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1992.

Table 354.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1980 AND 1988 TO 1991

Industry	1980	1988	1989	1990 <u>1/</u>	1991
Nonagriculture, wage and salary	404,100	478,050	505,450	528,400	538,550
Contract construction	23,950	23,400	29,200	32,300	33,500
Manufacturing	23,350	22,000	21,500	21,050	20,400
Durable goods	4,700	4,250	4,350	4,400	4,400
Nondurable goods	18,650	17,750	17,150	16,650	16,000
Food processing	11,150	9,950	9,500	9,350	8,800
Pineapple	2,900	2,050	1,800	1,650	1,350
Sugar	3,900	2,850	2,550	2,550	2,350
Other	4,350	5,050	5,150	5,150	5,100
Textile, apparel	3,050	2,800	2,500	2,200	1,950
Printing, publishing	3,100	3,550	3,650	3,600	3,650
Other nondurables	1,350	1,450	1,550	1,500	1,600
Transp., commun., utilities ..	31,200	38,000	39,950	42,250	43,350
Transportation	21,500	27,750	29,900	31,850	32,800
Communication	7,150	7,550	7,300	7,400	7,500
Utilities	2,550	2,650	2,800	3,000	3,100
Trade	105,250	127,450	132,550	135,950	136,350
Wholesale	18,600	20,750	21,850	22,500	22,650
Retail	86,700	106,750	110,700	113,450	113,700
Finance, insur., real estate .	32,850	34,450	35,250	36,800	37,550
Services and miscellaneous ...	98,450	133,250	145,400	154,400	158,300
Hotels	24,900	34,350	37,000	38,750	40,600
Other services, misc.	73,550	98,900	108,400	115,650	117,700
Government	89,050	99,500	101,600	105,600	109,050
Federal	30,000	33,800	34,000	34,150	34,000
Air Force	2,650	2,450	2,350	2,300	2,250
Army	4,100	5,500	5,550	5,600	5,500
Navy	11,950	12,250	12,200	11,450	11,300
Other	11,250	13,600	13,850	14,800	14,950
State	45,150	51,850	53,550	57,050	60,250
Local	13,900	13,850	14,100	14,400	14,750
Agriculture, wage and salary ...	10,650	10,000	9,650	9,550	9,500
Sugar	4,950	3,700	3,300	3,100	2,950
Pineapple	2,500	1,750	1,850	1,850	1,700
Other	3,200	4,550	4,500	4,600	4,800
Nonagric., self-employed <u>2/</u>	28,300	32,750	33,400	38,750	39,000
Agric., self-employed <u>3/</u>	4,600	3,600	3,500	3,600	4,200
Labor disputes	500	100	(Z)	650	-

Footnotes and source follow next table.

Table 355.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1991

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	538,550	415,350	47,850	25,200	50,150
Contract construction	33,500	25,350	3,700	1,300	3,200
Manufacturing	20,400	15,200	2,250	800	2,150
Durable goods	4,400	3,800	250	(2)	300
Nondurable goods	16,000	11,350	2,000	800	1,850
Food processing	8,800	4,950	1,700	650	1,550
Textile, apparel	1,950	1,900	(NS)	(NS)	(NS)
Printing, publishing	3,650	3,100	(NS)	(NS)	(NS)
Other nondurables	1,600	1,400	(NS)	(NS)	(NS)
Transp., commun., utilities .	43,350	35,350	2,550	2,350	3,050
Transportation	32,800	27,300	(NS)	(NS)	(NS)
Communication	7,500	5,850	(NS)	(NS)	(NS)
Utilities	3,100	2,200	(NS)	(NS)	(NS)
Trade	136,350	102,150	13,050	7,150	14,050
Wholesale	22,650	18,650	2,050	550	1,450
Retail	113,700	83,550	11,000	6,600	12,600
Finance, insur., real estate	37,550	30,550	2,400	1,400	3,250
Services and miscellaneous ..	158,300	116,750	14,800	8,650	18,100
Hotels	40,600	19,950	6,600	4,550	9,500
Other services, misc.	117,700	96,800	8,200	4,100	8,600
Government	109,050	90,050	9,100	3,550	6,350
Federal	34,000	32,400	800	350	450
Air Force	2,250	2,150	(NS)	(NS)	(NS)
Army	5,500	5,350	(NS)	(NS)	(NS)
Navy	11,300	11,200	(NS)	(NS)	(NS)
Other	14,950	13,700	(NS)	(NS)	(NS)
State	60,250	47,400	6,250	2,300	4,300
Local	14,750	10,200	2,050	900	1,600
Agriculture, wage and salary ..	9,500	2,250	3,600	1,150	2,550
Sugar	2,950	450	850	850	800
Pineapple	1,700	700	-	-	1,050
Other	4,800	1,100	2,750	250	700
Nonagric., self-employed <u>2/</u> ...	39,000	26,600	6,050	2,400	4,000
Agric., self-employed <u>3/</u>	4,200	900	2,550	300	500
Labor disputes	-	-	-	-	-

Footnotes and source on next page.

Table 355.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE,
1991 -- Con.

Z Fewer than 50.

NS Not shown separately.

1/ Revised from Data Book 1991, tables 339 and 340.

2/ Includes unpaid family workers and domestics. Data for 1988-1991 are not comparable to earlier years.

3/ Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as updated annually through April 1992.

Table 356.-- NUMBER OF JOBS HELD BY CURRENTLY EMPLOYED CIVILIANS,
BY COUNTIES: JULY-AUGUST 1988

[Based on a telephone survey of 3,927 persons 18 years old or over.
Excludes armed forces]

Number of jobs held	State total	Hono- lulu	Hawaii	Kauai	Maui
Currently employed ...	501,776	385,870	50,457	21,338	44,111
One job only	459,800	355,088	45,441	19,626	39,645
Full-time	382,936	294,579	37,007	16,798	34,552
Part-time	76,864	60,509	8,434	2,828	5,093
More than one job	39,808	28,897	4,809	1,636	4,466
Percent	7.9	7.5	9.5	7.7	10.1
Full-time and other	31,784	23,303	3,485	1,523	3,473
Several part-time	8,024	5,594	1,324	113	993
No response	2,168	1,885	207	76	-

Source: Hawaii State Department of Business and Economic Development, Tourism Branch, 1988 Statewide Tourism Impact Core Survey: Detailed Findings, Vol. 1 (August 1989), table I-C1.

Table 357.-- MULTIPLE JOBHOLDERS, FOR THE UNITED STATES AND HAWAII: MAY 1989

Subject	United States	Hawaii
Total employment (1,000)	117,084	531
Multiple jobholders (1,000)	7,225	28
Percent of total	6.2	<u>1/</u> 5.2
Standard error of percent <u>2/</u>	0.2	2.6

1/ Hawaii ranked 40th among the 50 States.

2/ At 90-percent confidence level (1.6 sigma).

Source: U.S. Bureau of Labor Statistics, special tabulation from Current Population Survey.

Table 358.-- CIVILIAN EMPLOYMENT, FULL-AND PART-TIME: 1991

[Thousands]

Year, sex, and age	Full-and part-time	Full time	Part-time		
			Total	Voluntary	Economic reasons
Total	545	467	78	68	10
Male	288	260	28	23	5
Female	258	207	51	45	5
16 to 19 years (both sexes)	20	8	12	10	1

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1991 (Bulletin 2410, August 1992), table 13.

Table 359.-- 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 360.-- 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 361.-- 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 362.-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX:
ANNUAL AVERAGES, 1991

Occupation	Both sexes	Men	Women
All occupations (number in thousands)	546	288	258
Percent	100.0	100.0	100.0
Managerial and professional specialty:			
Executive, administrative, and managerial	14.6	15.9	13.1
Professional specialty	14.8	13.3	16.6
Technical, sales, and administrative support:			
Technicians and related support	3.1	2.8	3.3
Sales	11.8	9.6	14.3
Administrative support, including clerical	15.9	5.6	27.4
Service occupations	15.5	12.9	18.4
Precision production, craft, and repair	10.3	18.3	1.4
Operators, fabricators, and laborers:			
Machine operators, assemblers, and inspectors ..	2.2	2.9	1.5
Transportation and material moving	3.8	6.5	0.7
Handlers, equipment cleaners, helpers, and laborers	3.7	5.8	1.4
Farming, forestry, and fishing	4.4	6.4	2.0

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1991 (Bulletin 2410, August 1992), table 15.

Table 363.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1981 TO 1991

Year	Number of employers, December 1/	Average employment	Wages and salaries	
			Total (\$1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1981	20,190	414,830	6,002,943	14,471
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	27,277	532,927	12,340,356	23,156
1991	29,688	541,387	13,056,263	24,116
EXCLUDING GOVERNMENT				
1986	24,498	355,192	5,997,767	16,886
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	29,682	439,337	10,183,227	23,179
PRIVATE NON-AGRICULTURAL				
1986	23,992	343,555	5,817,270	16,933
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	29,031	427,001	9,933,454	23,263

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 364.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1991

County or island	Number of employers, Dec. <u>1</u> / ¹	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	29,688	541,387	13,056,263	24,116
City and Co. of Honolulu .	20,988	411,127	10,281,374	25,008
Hawaii County	3,684	50,931	1,071,593	21,040
Kauai County	1,646	26,386	541,424	20,519
Maui County	3,376	52,944	1,161,872	21,945
EXCLUDING GOVERNMENT				
State total	29,682	439,337	10,183,227	23,179
City and Co. of Honolulu .	20,985	327,726	7,929,720	24,196
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

¹/₁ Not comparable to data for earlier years (see preceding table, footnote 1).

Source: Hawaii State Department of Labor and Industrial Relations, 1991 Employment and Payrolls in Hawaii (September 1992).

Table 365.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1991

Industry	Number of employers, Dec. 1/	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
All industries	29,688	541,387	13,056,263	24,116
Government	6	102,051	2,873,036	28,153
Federal	1	33,280	981,276	29,485
State	1	53,969	1,447,203	26,815
County	4	14,802	444,556	30,034
Private	29,682	439,337	10,183,227	23,179
Agriculture, forestry, fisheries ...	651	12,336	249,773	20,247
Sugar	15	3,101	71,380	23,018
Pineapple	6	1,679	37,724	22,468
Other	630	7,556	140,668	18,617
Mining	9	227	10,656	46,943
Construction	2,746	33,481	1,265,280	37,791
Manufacturing	1,065	20,809	534,978	25,709
Sugar mills	12	2,363	57,331	24,262
Pineapple canning	2	1,365	33,657	24,657
Other food processing	223	5,053	108,206	21,414
Other manufacturing	828	12,027	335,784	27,919
Transportation	1,318	33,067	874,239	26,438
Communications	113	7,495	259,820	34,666
Utilities	71	3,123	143,069	45,811
Wholesale trade	2,458	22,668	625,381	27,589
Retail trade	7,222	113,681	1,683,129	14,806
Eating and drinking places	2,308	46,825	539,059	11,512
Other retail trade	4,914	66,857	1,144,070	17,112
Finance, insurance, real estate	3,938	37,803	1,057,795	27,982
Services	9,933	154,248	3,469,704	22,494
Hotels, rooming houses, etc.	294	40,628	782,616	19,263
Health services	2,109	31,027	969,323	31,241
Other services	7,530	82,596	1,717,764	20,797
Nonclassifiable establishments	158	398	9,403	23,626

1/ Not directly comparable to data for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, 1991 Employment and Payrolls in Hawaii (September 1992), pp. 6-7.

Table 366.-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND CONSTANT DOLLARS, BY CLASS OF WORKER: 1981 AND 1991

Class of worker	1981: current dollars	1991		Percent change, 1981-1991	
		Current dollars	1981 dollars <u>1/</u>	Current dollars	1981 dollars <u>1/</u>
All classes ..	14,471	24,116	14,942	66.7	3.3
Federal	22,747	29,485	18,268	29.6	-19.7
State	14,868	26,815	16,614	80.4	11.7
County	16,185	30,034	18,608	85.6	15.0
Private	13,574	23,179	14,361	70.8	5.8

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu. The all-items index increased 61.4 percent during this period.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 367.-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1991

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 <u>1/</u>	29,682	15,699	5,830	3,969	2,630	954	601
Employment	445,366	38,640	38,251	53,733	79,254	65,839	169,649

1/ Not directly comparable to data for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, 1990 Employment and Payrolls in Hawaii (September 1991), p. 19.

Table 368.-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE:
1981 TO 1991

[For earlier years, 1975-1980, see Data Book 1987, table 386]

Year	Annual wages per employee (dollars)		Hawaii as percent of U.S.		Rank <u>1/</u>	
	Total	Private only	Total	Private only	Total	Private only
1981	14,411	13,567	92.2	86.9	32	41
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 <u>2/</u>	24,104	23,176	98.1	95.9	13	19

1/ Among 50 States and D.C. Excluding D.C., Hawaii ranked 12th for all workers and 18th for private workers in 1991.

2/ Preliminary.

Source: U.S. Bureau of Labor Statistics, Employment and Wages, Annual Averages (annual report); U.S. Department of Labor News Release USDL 92-631 (October 7, 1992).

Table 369.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES,
1986 TO 1991

Subject	1986	1987	1988	1989	1990	1991
Average weekly earnings (dollars)						
Contract construction	642.80	679.30	706.10	756.56	778.95	803.32
Manufacturing	344.65	366.42	393.60	414.80	442.90	453.32
Food and kindred products ..	321.40	341.01	362.03	368.34	385.28	392.20
Communication and utilities ..	582.15	608.75	650.62	683.65	694.85	714.60
Trade 1/	231.62	235.95	245.70	259.20	282.94	306.24
Wholesale trade	326.10	328.90	342.88	358.27	381.21	417.20
Retail trade 1/	200.26	206.30	216.04	228.30	251.84	269.70
Banking & credit agencies	291.78	297.11	305.33	321.48	343.49	373.46
Hotels	259.38	265.22	281.22	300.81	318.40	333.00
Average weekly hours						
Contract construction	36.9	38.4	37.8	38.6	38.6	38.0
Manufacturing	38.9	39.4	40.0	40.0	40.3	39.8
Food and kindred products ..	39.1	40.5	41.0	40.3	40.9	40.6
Communication and utilities ..	42.4	42.6	44.2	44.8	44.8	43.1
Trade 1/	32.9	32.5	32.5	32.4	32.9	33.0
Wholesale trade	38.5	38.2	38.7	38.9	39.3	39.1
Retail trade 1/	31.0	30.7	30.6	30.4	30.9	31.0
Banking & credit agencies	38.8	37.8	38.6	38.5	38.9	38.7
Hotels	34.4	33.7	33.8	34.3	34.2	33.4
Average hourly earnings (dollars)						
Contract construction	17.42	17.69	18.68	19.60	20.18	21.14
Manufacturing	8.86	9.30	9.84	10.37	10.99	11.39
Food and kindred products ..	8.22	8.42	8.83	9.14	9.42	9.66
Communication and utilities ..	13.73	14.29	14.72	15.26	15.51	16.58
Trade 1/	7.04	7.26	7.56	8.00	8.60	9.28
Wholesale trade	8.47	8.61	8.86	9.21	9.70	10.67
Retail trade 1/	6.46	6.72	7.06	7.51	8.15	8.70
Banking & credit agencies	7.52	7.86	7.91	8.35	8.83	9.65
Hotels	7.54	7.87	8.32	8.77	9.31	9.97

1/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as updated annually through April 1992.

Table 370.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS
IN PRIVATE INDUSTRY: 1988 TO 1992

[In dollars]

Job classification	1988	1989	1990	1991	1992
MONTHLY RATES					
Junior clerk	1,072	1,112	1,181	1,228	1,299
Clerk-stenographer	1,581	1,769	1,737	1,849	1,961
Secretary	1,597	1,680	1,762	1,871	2,006
Switchboard operator	1,405	1,333	1,414	1,435	1,633
Bookkeeper, full-charge	2,034	1,914	2,108	2,244	2,055
Engineering drafting technician	2,057	2,216	2,065	2,440	2,577
Hospital attendant	1,232	1,306	1,376	1,533	1,650
Staff nurse	2,534	2,746	2,999	3,456	3,690
HOURLY RATES					
Housekeeper	7.183	7.503	7.856	8.499	8.943
Cook, general	9.074	9.082	9.603	10.909	10.928
Waiter/waitress	4.212	4.259	4.409	4.614	5.075
Laborer (light)	7.521	7.672	7.785	8.229	8.483
Carpenter (maintenance)	11.156	11.701	12.007	13.817	14.061
Electrician (maintenance)	13.148	13.447	14.300	15.456	15.587
Automotive mechanic	11.531	11.872	12.486	13.110	13.567
Truck driver (1.5-5 tons)	10.159	10.664	10.397	10.639	11.726

1/ The 16 job titles listed in this table are meant to be only illustrative of the 105 reported in the full report; see the source for full information.

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 371.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN
PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1992

[In dollars]

Job classification and year <u>1/</u>	State average	Kauai	Oahu	Maui County	Hawaii County
MONTHLY RATES					
Junior clerk	1,299	...	1,294	1,544	...
Clerk-stenographer	1,961	...	1,958	...	...
Secretary	2,006	1,887	2,019	1,952	1,762
Switchboard operator	1,633	1,689	1,620	1,744	...
Bookkeeper, full-charge	2,055	...	2,101	2,010	1,816
Engineering drafting technician	2,577	...	2,630	...	...
Hospital attendant	1,650	...	1,650	1,643	...
Staff nurse	3,690	...	3,691	3,489	...
HOURLY RATES					
Housekeeper	8.943	8.873	8.876	9.066	8.720
Cook, general	10.928	11.034	10.446	12.134	...
Waiter/waitress	5.075	4.885	5.016	5.200	4.910
Laborer (light)	8.483	8.697	8.299	8.600	...
Carpenter (maintenance)	14.061	13.630	14.199	14.990	10.670
Electrician (maintenance)	15.587	...	17.025	14.312	13.225
Automotive mechanic	13.567	12.157	14.472	13.484	12.551
Truck driver (1.5-5 tons)	11.726	...	12.162	10.864	...

1/ See preceding table, footnote 1.

Source: Hawaii Employers Council, Pay Rates in Hawaii (Special
Publication No. 216, September 1992).

Table 372.-- MONTHLY AND HOURLY WAGE RATES FOR SPECIFIED JOB TITLES:
1992

[In dollars. Data are shown for only a few of the more than 6,000 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	Monthly	2,332	3,295
Cannery warehouse worker	Private	Hourly	6.05	7.60
Clerk, data entry	Private	Hourly	8.47	9.97
Engineer, civil	Local govt.	Monthly	2,144	4,887
Host/hostess	Private	Hourly	7.79	10.04
Laborer, general	Private	Hourly	6.59	8.09
Nurse, licensed practical	State govt.	Monthly	1,668	2,360
Police officer	Local govt.	Monthly	2,270	3,530
Professor	State govt.	Monthly	3,652	7,695
Secretary	Private	Monthly	2,510	2,621

Source: Hawaii State Department of Labor and Industrial Relations, Selected Wage Information for Hawaii 1992 (November 1992).

Table 373.-- CASH COMPENSATION PAID TO EXECUTIVES OF MAJOR CORPORATIONS
AND LABOR UNION LEADERS: 1991

[\$1,000]

Category	Total	Less than 100	100 to 249	250 to 499	500 to 999	1,000 or more	Highest
Corporate executives ...	25	-	1	13	7	4	1,946
Union leaders	20	16	4	-	-	-	16!

Source: Sunday Star-Bulletin & Advertiser, April 26, 1992, pp. B4 and B6, and June 28, 1992, pp. B4 and B5.

Table 374.--MINIMUM WAGE CHRONOLOGY: 1942 TO 1993

[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		

1/ At inception of minimum wage law, April 1, 1942.

2/ January 1.

3/ April 1.

Source: Hawaii State Department of Labor and Industrial Relations, records; Act 264, S.L.H. 1991.

Table 375.-- WEEKLY HOURS OF WORK, FOR CIVILIANS AT WORK: ANNUAL AVERAGES, 1980 TO 1991

Year	All civilians at work	Full-time schedules <u>1/</u>	Year	All civilians at work	Full-time schedules <u>1/</u>
1980 <u>2/</u>	37.0	43.0	1986	38.3	44.3
1981	36.7	43.0	1987	37.6	44.1
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

1/ Refers to persons who worked 35 hours or more during the survey week.

2/ Data for 1980 limited to nonagricultural wage and salary workers.

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment (annual).

Table 376.-- WEEKLY HOURS OF WORK, FOR CIVILIAN WORKERS:
ANNUAL AVERAGES; 1991

Hours of work	Civilian workers (1,000)	Age, sex, or race	Average hours
Total at work	514	Total at work	39.2
		Full-time schedules <u>1/</u> .	47.2
1 to 14 hours	21	Men	41.3
15 to 29 hours	55	Women	36.9
30 to 34 hours	46		
35 to 39 hours	21	Both sexes, 15 to 19 years	26.2
40 hours	247		
41 to 48 hours	34	White	39.5
49 hours and over	90		

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, 1991 (Bulletin 2410, August 1992), table 18.

Table 377.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1986 TO 1991

Type of job-seeker	1986	1987	1988	1989	1990	1991
Island workers on Mainland <u>1/</u> ..	3,664	3,805	3,942	3,961	5,275	7,197
Mainland workers in Hawaii <u>2/</u> ..	3,932	3,161	2,974	2,679	2,910	3,453
Ratio <u>3/</u>	107	83	75	68	55	48

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, 1992, p. 15.

Table 378.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF
NONGOVERNMENTAL WORKERS: 1990

[Data exclude agricultural employers with fewer than 11 employees]

Subject	Total	Injuries	Illnesses
Recordable cases	36,941	36,369	572
Per 100 full-time workers	11.0	10.8	0.2
Lost workday cases	20,648	20,371	277
Lost workdays	399,836	395,269	4,567
Per lost workday case	19	19	16
Nonfatal cases without lost workdays.	16,275	15,985	290

Source: Hawaii State Department of Labor and Industrial Relations, 1990 Occupational Injuries and Illnesses Survey, State of Hawaii, p. 4.

Table 379.-- WORK INJURIES, DEATHS, TIME LOST, AND
COMPENSATION COSTS: 1985 TO 1990

Year	Reported cases	Reported deaths	Time lost (compensated days)	Compensation costs (\$1,000)
1985 ...	37,940	49	1,262,513	136,837
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

Source: Hawaii State Department of Labor and Industrial Relations, Work Injury Statistics (1986-1988) and Worker's Compensation Data Book (1989 and 1990).

Table 380.-- 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 381.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS,
BY EMPLOYING JURISDICTION: 1989 TO 1991

[As of December 31]

Employing jurisdiction	1989	1990	1991
Total	46,426	49,237	51,009
State of Hawaii	20,680	21,926	22,560
City and County of Honolulu	7,908	8,091	8,159
County of Hawaii	1,482	1,545	1,625
County of Maui	1,205	1,287	1,427
County of Kauai	649	657	768
Dept. of Education	10,440	11,384	11,958
University of Hawaii	4,062	4,347	4,512

Source: Hawaii Labor Relations Board, HLRB Information Bulletin, No. 29, February 19, 1992, and earlier issues.

Table 382.-- WORK STOPPAGES: 1986 TO 1991

[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>
1986	6	1,266	49,533
1987	4	99	14,392
1988	6	410	25,057
1989	2	48	3,046
1990	13	7,415	119,509
1991	-	-	-

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 383.-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS: 1982 TO 1991

Year	Number of stoppages begun in year	Workers involved <u>1/</u>	Man-days idle during year	Percent of estimated nonagricultural working time
1982	-	-	-	0
1983	1	2,800	5,600	0.01
1984	1	1,000	70,000	0.01
1985	1	1,000	11,000	0.01
1986-1991	-	-	-	0

1/ Workers counted more than once if involved in more than one stoppage during year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records.

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the 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 1991 was \$24 billion, compared with \$11 billion only ten years earlier, and per capita personal income was \$21,000, or 85 percent above the 1981 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 1992 at \$16,050. In 1990, one-ninth of all Island residents were below the U.S. poverty level. A family expenditure survey taken in 1989 and 1990, reported that the largest items in the family budget on Oahu were housing (accounting for 31 percent of total spending), food (16 percent), and transportation (also 16 percent). Top wealthholders in 1986 included 11,000 persons with assets of \$500,000 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: 1992, Section 14.

Table 384.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1971 TO 1991

[In millions of dollars]

Year	Value of production		Defense expenditures <u>2/</u>	Visitor expenditures <u>3/</u>
	Raw sugar and molasses <u>1/</u>	Fresh and processed pineapple		
1971 ...	202.9	141.4	958.6	705
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	4,986
1986 ...	361.9	238.4	2,866.3	5,802
1987 ...	335.9	251.4	2,923.6	6,530
1988 ...	324.0	247.0	2,924.2	7,849
1989 ...	322.0	241.9	3,050.8	8,785
1990 ...	328.9	215.9	3,203.3	9,410
1991 ...	270.7	224.6	3,300.0	9,921

NA Not available.

1/ Excludes government sugar support payments.

2/ For alternate estimates, see present report, table 319. The 1991 figure is preliminary.

3/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual) and records; data from DBEDT GSP accounts, cited in present report, table 319; Hawaii Visitors Bureau, estimates cited in present report, tables 208 and 209.

Table 385.-- 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 follows table 391.

Table 386.-- EXPENDITURES ON GROSS STATE PRODUCT: 1988 TO 1990

[In millions of dollars]

Item	1988	1989	1990
Gross state product	21,803.2	24,300.1	26,945.3
Personal consumption expenditures ^{1/}	13,085.4	14,438.8	15,893.7
Goods	9,320.9	10,242.8	11,286.6
Durables	2,811.8	3,147.9	3,533.0
Non-durables	6,509.1	7,094.9	7,818.6
Services	3,764.5	4,196.0	4,607.1
Gross private domestic investment	2,849.8	3,501.6	4,173.1
Fixed investment	2,775.1	3,419.4	4,082.6
Non-residential	2,101.5	2,478.4	2,919.2
Structures	1,095.9	1,315.2	1,680.4
Producers' durable equipment	1,005.6	1,163.2	1,238.8
Residential	673.6	941.0	1,163.4
Change in inventories	74.8	82.2	90.5
Government purchases of goods and services	6,462.5	6,954.2	7,603.9
State and local	3,363.2	3,720.6	4,210.0
Compensation of employees	1,683.7	1,776.2	1,970.1
Purchases from business	1,679.4	1,944.4	2,239.9
Federal	3,099.3	3,233.6	3,393.8
Defense	2,924.2	3,050.8	3,203.3
Non-defense	175.1	182.8	190.5
Net exports	-1,292.0	-1,014.1	-1,052.9
Exports	12,291.6	13,814.3	15,324.3
Commodities (Merchandise)	1,467.6	1,509.2	1,617.4
Services and income from investments	2,884.0	3,232.6	3,513.9
Visitor and crew expenditures	7,940.0	9,072.6	10,193.0
Less: Imports	13,583.6	14,828.4	16,377.2
Commodities (Merchandise)	9,298.4	10,062.3	10,945.5
Services and income from investments	3,475.6	3,874.1	4,354.1
Out-of-state expenditures by Hawaii residents	809.5	892.0	1,077.6
Discrepancy and omissions	697.4	419.6	262.5

1/ Purchases by Hawaii residents.

Source follows table 391.

Table 387.-- GROSS STATE (DOMESTIC) PRODUCT, BY INDUSTRY: 1977 TO 1989

[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 ...	8,946	0.46	38	1984 ...	16,500	0.45	39
1978 ...	10,006	.45	38	1985 ...	17,642	.44	40
1979 ...	11,257	.46	38	1986 ...	19,088	.46	40
1980 ...	12,621	.47	39	1987 ...	20,738	.46	40
1981 ...	13,507	.45	39	1988 ...	23,183	.48	40
1982 ...	14,412	.46	39	1989 ...	25,755	.50	38
1983 ...	15,477	.46	39				

Industry	1977	1981	1985	1989	
				Amount	Percent
Total, all industries	8,946	13,507	17,642	25,755	100.0
Farms	205	297	346	396	1.5
Agric. services, forestry, fisheries	32	54	65	111	0.4
Mining	-	-	1	8	0.0
Construction	597	976	1,022	2,237	8.7
Manufacturing	559	695	847	1,095	4.3
Transportation, utilities	940	1,312	1,760	2,530	9.8
Wholesale trade	453	626	804	1,054	4.1
Retail trade	1,001	1,529	2,047	2,993	11.6
Finance, insur., real estate	1,381	2,443	2,844	4,333	16.8
Services	1,426	2,294	3,526	5,598	21.7
Federal government:					
Civilian	578	834	1,143	1,307	5.1
Military	964	1,334	1,826	2,033	7.9
State and local government	810	1,113	1,411	2,061	8.0

1/ Among the 50 States.

Source: U.S. Bureau of Economic Analysis, "Gross State Product by Industry, 1977-89," Survey of Current Business, December 1991, pp. 43-59, and BEA diskette tabulated by DBED.

Table 388.-- CHARGES AGAINST GROSS STATE PRODUCT: 1988 TO 1990

[In millions of dollars]

Item	1988	1989	1990
Charges against gross state product	21,803.2	24,300.1	26,945.3
Compensation of employees	13,979.7	15,450.0	17,114.8
Wages and salaries	11,756.4	12,998.2	14,333.6
Supplements to wages and salaries	2,223.3	2,451.8	2,846.2
Employers' contributions for social ins. ...	1,239.5	1,338.5	1,526.7
State programs	106.6	47.0	52.4
Federal programs	1,132.9	1,291.5	1,474.3
Other labor income	983.8	1,113.3	1,254.5
Proprietors' income	1,457.0	1,555.5	1,705.5
Rental income	129.0	107.2	130.0
Corporate profits before tax	1,073.0	1,261.7	1,464.8
Profit tax	377.9	443.1	563.0
State	69.2	72.7	88.2
Federal	308.7	370.4	474.9
Profits after tax	695.1	818.6	901.7
Dividends	428.9	501.5	537.1
Undistributed profits	266.2	317.1	364.7
Net interest	1,640.9	2,071.7	2,170.5
State income	18,279.6	20,446.1	22,585.6
Business transfer payments	135.1	150.7	182.2
To persons	99.2	111.1	131.0
To non-profit institutions	35.9	39.6	51.2
Indirect business tax and non-tax, state and local	1,838.4	1,979.4	2,217.0
Subsidies less surplus of state and local government enterprises	-31.7	-42.3	-48.0
Indirect tax and non-tax, Federal	113.0	118.4	128.1
Subsidies less surplus of Federal government enterprises	-111.0	-122.1	-127.2
Charges against net state product	20,508.8	22,859.1	25,288.0
Capital consumption allowances	1,294.4	1,441.0	1,592.3

Source follows table 391.

Table 389.-- PRIVATE CONSTRUCTION EXPENDITURES: 1988 TO 1990

[Millions of current dollars]

Type of construction	1988	1989	1990
Private construction	1,769.2	2,256.2	2,843.9
Nonresidential	1,095.6	1,315.2	1,680.5
Buildings	749.2	893.4	1,210.7
Hotels	311.9	393.9	508.6
Commerical	437.4	499.5	702.2
New buildings	251.5	290.6	471.6
Additions alterations	186.2	208.9	230.6
Nonstructural	346.3	421.8	469.7
Construction	230.9	281.2	313.2
Architect., engineer. fees	115.4	140.6	156.6
Residential	673.6	941.0	1,163.5
New dwellings	544.0	740.0	947.5
Single family	483.5	574.6	665.4
Multi family	60.5	165.4	282.1
Additions, alterations	129.6	201.0	215.9

Source follows table 391.

Table 390.-- EXPORTS AND IMPORTS OF GOODS AND SERVICES:
1988 TO 1990

[In millions of dollars. Includes both domestic and
foreign imports and exports]

Classification	1988	1989	1990
Exports of goods and services <u>1/</u>	12,291.6	13,814.3	15,324.3
Merchandise exports	1,467.6	1,509.2	1,617.4
Primary	521.8	536.0	553.6
Sugar and molasses	285.1	285.1	285.1
Pineapple	236.7	250.9	268.5
Secondary	182.8	189.9	199.2
Garments	47.2	48.0	50.0
Flowers	33.0	36.3	40.3
Papaya	10.9	11.8	12.6
Macadamia nuts, coffee, and other.....	91.7	93.8	96.3
Miscellaneous	763.0	783.3	864.6
Other processed foods and feeds	26.2	27.7	30.0
Fuels and petroleum products	122.1	108.2	163.1
All other products	614.7	647.4	671.5
Services and income from investments	2,884.0	3,232.6	3,513.9
Visitor and crew expenditures	7,940.0	9,072.6	10,193.0
Imports of goods and services	13,583.6	14,828.4	16,377.2
Merchandise imports	9,298.4	10,062.3	10,945.5
Domestic	7,459.9	8,076.1	8,784.9
Waterborne	7,029.8	7,006.5	8,281.1
Airborne	430.2	469.6	503.9
Foreign, total	1,838.5	2,393.7	2,613.5
Services and income from investments	3,475.6	3,874.1	4,354.1
Out-of-State expenditures by Hawaii residents	809.5	892.0	1,077.6

1/ Not available separately for foreign and domestic exports.
Source follows table 391.

Table 391.-- SUMMARY OF GOVERNMENT ACCOUNTS: 1988 TO 1990

[In millions of dollars]

Item	1988	1989	1990
Total revenues, State and local	3,958.0	4,242.1	4,548.6
State and local tax and non-tax	3,379.8	3,648.1	3,948.6
Personal tax and non-tax	1,298.5	1,472.4	1,500.0
Corporate profits tax	69.2	72.7	88.2
Indirect business tax and non-tax	1,838.4	1,979.4	2,217.0
Contributions to social insurance programs ...	173.7	123.6	143.5
Employer	106.6	47.0	52.4
Personal	67.1	76.6	91.1
Federal grants-in-aid	578.2	594.0	600.0
Total expenditures, State and local	3,537.8	3,896.8	4,393.7
Purchases of goods and services	3,363.2	3,720.6	4,210.0
Compensation of employees	1,683.7	1,776.2	1,970.1
Purchases from business	1,679.4	1,944.4	2,239.9
Transfer payments to persons	304.8	324.3	341.7
Net interest paid	-98.5	-105.8	-110.0
Subsidies less current surplus of gov. ent.	-31.7	-42.3	48.0
Surplus or deficit (-), State & local	420.2	345.3	154.9
Total revenues, Federal	5,604.6	5,905.2	6,266.7
Federal tax and non-tax revenues	3,198.2	3,628.8	4,161.5
Personal tax and non-tax	837.7	929.8	1,061.8
Corporate profits tax	308.7	370.4	474.9
Indirect business tax and non-tax	113.0	118.4	128.1
Contributions for social insurance programs ..	1,938.8	2,210.2	2,496.7
Employer	1,132.9	1,291.5	1,474.3
Personal	805.9	918.7	1,022.4
Transfers from Federal gov. in Washington, D.C.	2,406.4	2,276.4	2,105.3
Total expenditures, Federal	5,604.6	5,905.2	6,266.7
Purchases of goods and services	3,099.3	3,233.6	3,393.8
Defense	2,924.2	3,050.8	3,203.3
Non-defense	175.1	182.8	190.5
Transfer payments to persons	2,023.4	2,184.5	2,384.4
Grants-in-aid to State and local government	578.2	5,940.0	600.0
Net interest paid (to persons)	14.7	15.2	15.7
Subsidies less current surplus of gov. ent.	111.0	-122.1	-127.2

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 392.-- TOTAL AND PER CAPITA PERSONAL INCOME AND
DISPOSABLE PERSONAL INCOME: 1960 TO 1991

[Data for 1969-1991 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
1960 ...	1,466	1,243	2,350	1,992	104	101
1961 ...	1,584	1,337	2,464	2,080	107	103
1962 ...	1,695	1,454	2,595	2,226	107	105
1963 ...	1,806	1,553	2,692	2,315	107	106
1964 ...	1,962	1,712	2,894	2,525	109	108
1965 ...	2,153	1,888	3,085	2,705	109	108
1966 ...	2,359	2,039	3,385	2,926	111	110
1967 ...	2,565	2,216	3,624	3,129	112	111
1968 ...	2,874	2,453	3,998	3,412	114	112
1969 ...	3,294	2,788	4,434	3,753	116	115
1970 ...	3,770	3,213	4,941	4,211	122	120
1971 ...	4,057	3,514	5,125	4,439	119	118
1972 ...	4,467	3,815	5,461	4,664	117	116
1973 ...	4,969	4,258	5,902	5,058	114	112
1974 ...	5,719	4,932	6,665	5,747	118	118
1975 ...	6,146	5,423	7,024	6,197	116	116
1976 ...	6,652	5,819	7,455	6,521	112	113
1977 ...	7,201	6,255	7,863	6,830	108	108
1978 ...	8,012	6,918	8,626	7,448	106	106
1979 ...	9,083	7,817	9,560	8,228	106	106
1980 ...	10,427	8,987	10,769	9,282	108	108
1981 ...	11,224	9,657	11,475	9,873	104	105
1982 ...	12,017	10,570	12,092	10,636	104	106
1983 ...	13,103	11,409	12,937	11,265	106	106
1984 ...	13,983	12,328	13,602	11,992	102	103
1985 ...	14,977	13,079	14,404	12,579	102	102
1986 ...	16,099	14,107	15,305	13,411	103	103
1987 ...	17,208	14,846	16,112	13,900	103	103
1988 ...	18,609	15,924	17,231	14,745	104	102
1989 ...	20,562	17,205	18,785	15,718	106	103
1990 ...	22,882	19,338	20,552	17,370	110	108
1991 ...	24,045	20,282	21,190	17,873	111	107

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated September 1992.

Table 393.-- PERSONAL INCOME BY MAJOR SOURCES: 1986 TO 1991

[In millions of dollars. Revised from Data Book 1991, table 381]

Item	1986	1987	1988	1989	1990	1991
Labor and proprietors income						
By type:						
Wage and salary disbursements .	9,757	10,761	11,829	13,087	14,508	15,378
Other labor income	870	922	1,015	1,158	1,301	1,434
Proprietors income	1,500	1,501	1,511	1,700	1,775	1,864
Farm	107	71	73	56	33	25
Nonfarm	1,393	1,429	1,438	1,645	1,742	1,840
By industry:						
Farm	262	229	234	234	229	217
Nonfarm	11,865	12,955	14,121	15,711	17,355	18,459
Private	8,393	9,237	10,172	11,511	12,870	13,664
Government and government enterprises	3,472	3,717	3,949	4,200	4,486	4,795
Federal, civilian	950	992	1,042	1,086	1,107	1,111
Federal military	1,230	1,360	1,389	1,429	1,492	1,609
State and local	1,292	1,366	1,519	1,685	1,887	2,074
Derivation of personal income						
Labor and proprietors income	12,127	13,183	14,355	15,945	17,584	18,676
Less: Personal contributions for social insurance	725	766	879	1,009	1,123	1,224
Net labor and proprietors income	11,402	12,418	13,476	14,936	16,461	17,452
Plus: Dividends, interest, and rent	2,510	2,541	2,732	3,027	3,326	3,416
Plus: Transfer payments	2,187	2,249	2,402	2,600	3,095	3,177
Personal income	16,099	17,208	18,609	20,562	22,882	24,045

Source: U.S. Department of Commerce, Bureau of Economic Analysis, diskettes dated September 1992.

Table 394.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES:
1980 TO 1990

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
TOTAL (MIL. DOL.)						
1980	10,279.2	8,293.1	1,986.2	901.3	374.4	710.5
1981	11,051.4	9,039.9	2,011.4	895.8	378.3	737.3
1982	11,731.7	9,570.6	2,161.1	948.9	406.6	805.7
1983	12,875.3	10,396.3	2,479.0	1,080.7	462.7	935.5
1984	13,627.9	11,063.9	2,564.0	1,117.3	471.7	975.1
1985	14,588.7	11,815.8	2,772.8	1,188.4	515.8	1,068.6
1986	15,607.4	12,537.0	3,070.4	1,316.1	566.5	1,187.9
1987	16,797.7	13,486.1	3,311.6	1,416.7	612.3	1,282.6
1988	18,374.8	14,685.4	3,689.4	1,553.0	708.9	1,427.5
1989	20,424.1	16,205.9	4,218.2	1,770.3	804.7	1,643.2
1990	22,668.4	17,880.7	4,787.7	2,026.8	884.1	1,876.8
PER CAPITA (DOLLARS)						
1980	10,617	10,854	9,729	9,682	9,499	9,916
1981	11,298	11,797	9,497	9,252	9,318	9,908
1982	11,805	12,352	9,868	9,510	9,722	10,409
1983	12,713	13,204	10,998	10,591	10,797	11,617
1984	13,257	13,943	10,934	10,525	10,738	11,552
1985	14,030	14,772	11,553	10,979	11,443	12,341
1986	14,837	15,527	12,563	11,973	12,330	13,411
1987	15,727	16,543	13,095	12,520	12,870	13,927
1988	17,015	17,890	14,234	13,462	14,530	15,032
1989	18,659	19,561	15,852	14,989	16,067	16,771
1990	20,361	21,307	17,460	16,728	17,140	18,504

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printout dated May 1992.

Table 395.-- PER CAPITA PERSONAL INCOME IN CURRENT AND CONSTANT DOLLARS
FOR THE UNITED STATES AND HAWAII: 1981 AND 1991

Subject	United States	Hawaii
Per capita personal income (current dollars):		
1981	11,010	11,475
1991	19,092	21,190
Per capita personal income (1982-1984 dollars):		
1981	12,112	12,514
1991	14,018	14,318
Percent of U.S. average:		
1981	100.0	104.2
1991	100.0	111.0
Percent increase, 1981-1991:		
Current dollars	73.4	84.7
Constant dollars	15.7	14.4
Rank (50 States and D.C.):		
1981	(X)	14
1991	(X)	8
Consumer price index (1982-1984=100): <u>1/</u>		
1981	90.9	91.7
1991	136.2	148.0

X Not applicable.

1/ Hawaii index is for Honolulu MSA.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated September 1992; U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly).

Table 396.-- PER CAPITA PERSONAL INCOME, MEDIAN FAMILY INCOME, AND AVERAGE WAGE AND SALARY EARNINGS, IN CURRENT AND CONSTANT DOLLARS: 1939 TO 1991

[Constant dollar amounts based on Honolulu consumer price index for all urban consumers (CPI-U)]

Year	Per capita personal income <u>1/</u>		Median family cash income <u>2/</u>		Average wage or salary <u>3/</u>		Honolulu CPI-U (1982-84 =100) <u>4/</u>
	Current dollars	1982-84 dollars	Current dollars	1982-84 dollars	Current dollars	1982-84 dollars	
1939 ...	525	3,596	(NA)	(NA)	970	6,644	14.6
1949 ...	1,354	5,373	3,568	14,159	2,605	10,337	25.2
1959 ...	2,116	6,938	6,366	20,872	3,745	12,279	30.5
1969 ...	4,411	11,195	11,664	29,604	6,431	16,322	39.4
1979 ...	9,506	12,794	22,750	30,619	11,709	15,759	74.3
1989 ...	18,785	14,596	43,176	33,548	20,711	16,092	128.7
1990 ...	20,552	14,882	(NA)	(NA)	22,311	16,156	138.1
1991 ...	21,190	14,318	(NA)	(NA)	23,263	15,718	148.0

NA Not available.

1/ 1939 and 1949 from U.S. Office of Business Economics estimates cited in Robert C. Schmitt, Historical Statistics of Hawaii (1977), p. 167; 1959-1991 from U.S. Bureau of Economic Analysis, printouts filed in the Hawaii State Data Center.

2/ U.S. Bureau of the Census, decennial census data for 1949-1989, cited in present volume, table 397.

3/ Data limited to private nonagricultural wage and salary workers. 1939-1969 reported in Historical Statistics of Hawaii, p. 127; 1979 in Data Book 1985, table 343; 1989-1991 in present volume, table 363.

4/ Honolulu consumer price index for all urban consumers, reported in present volume, table 411. The 1939 index was estimated from the 1940 Honolulu index and the 1939-1940 percent change in the Mainland index.

Sources cited in footnotes.

Table 397.-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1949 TO 1990

[In dollars. Based on censuses or surveys made in March or April of following year]

Year	Households	Families	Unrelated individuals with income <u>1/</u>	Persons with income <u>1/</u>	
				Male	Female
Census data:					
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
1975	15,991	17,770	6,180	9,489	4,082
1979	20,473	22,750	7,097	11,505	6,581
1989	38,829	43,176	(NA)	(NA)	(NA)
Survey data: <u>2/</u>					
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 <u>3/</u>	33,024	39,609	14,376	18,375	8,983
1989	35,035	(NA)	(NA)	(NA)	(NA)
1990	38,921	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ 14 years old and over through 1975, and 15 years old and over thereafter. Data for 1975 and 1980-1988 exclude persons in military group quarters.

2/ Based on small samples and subject to considerable sampling variation.

3/ Revision in income imputation procedures.

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); 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. 174 (August 1991), pp. 196 and 210; Release CB92-47 (April 29, 1992) and Summary Tape File 3A.

Table 398.-- 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 399.-- 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 400.-- MEDIAN INCOME FOR FOUR-PERSON FAMILIES:
1974 TO 1990

Year <u>1/</u>	Dollars	Year <u>1/</u>	Dollars	Year <u>1/</u>	Dollars
1974	17,069	1980	27,514	1986	36,618
1975	18,825	1981	29,295	1987	40,878
1976	20,113	1982	30,019	1988	42,353
1977	21,718	1983	31,614	1989	44,988
1978	22,475	1984	33,445	1990 <u>2/</u> ...	50,234
1979	24,582	1985	34,636		

1/ Calendar year for which estimate was made. Estimates are for application for fiscal years 1978-1993.

2/ The 1990 U.S. median was \$41,451. Hawaii ranked 6th among the 50 States.

Source: U.S. Bureau of the Census, "Estimates of Median Four-Person Family Income, by State: 1974-89," Current Population Reports, Technical Paper 61 (January 1992), pp. 5-6; Office of Community Services, "Fiscal Year (FY) 1993 State Median Income Estimates for Use Under the Administration for Children and Families, Office of Community Services, Division of Energy Assistance," Federal Register, Vol. 57, No. 38, February 20, 1992, pp. 6614-6615, and Correction, Vol. 57, No. 52, March 17, 1992, p. 9346.

Table 401.-- GINI RATIOS: 1929 TO 1988

[Gini ratios are measures of income equality, ranging from zero to one. Lower ratios indicate relative equality of incomes; higher ratios, relative inequality]

Year	Gini ratio
1929 .....	.513
1959 .....	.428
1970 .....	.441
1988	<u>1/</u> .519

1/ The 1988 nationwide ratio was .526, compared with .428 in 1970. Hawaii ranked 32nd among the 50 States in income equality in 1988.

Source: First Hawaiian Bank, "Income Distribution in Paradise," Economic Indicators, January-February 1991.

Table 402.-- INCOME TYPE AND PER CAPITA INCOME IN 1989, FOR THE STATE AND OAHU: 1990

Subject	State total	Oahu only
Households	356,748	265,625
With wage and salary income	297,748	226,536
Mean wage and salary income (dollars)	43,025	44,702
With nonfarm self-employment income	51,415	35,022
Mean nonfarm self-employment income (dollars) ...	22,521	22,477
With farm self-employment income	5,956	2,164
Mean farm self-employment income (dollars)	10,925	8,272
With Social Security income	90,377	64,394
Mean Social Security income (dollars)	7,815	7,712
With public assistance income	24,240	16,803
Mean public assistance income (dollars)	5,272	5,264
With retirement income	71,005	53,219
Mean retirement income (dollars)	12,116	13,230
Per capita income (dollars)	15,770	16,256

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 3.

Table 403.-- POVERTY STATUS OF PERSONS: 1969, 1975, AND 1979 TO 1990

[Based on Mainland poverty thresholds. 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:			1982	132,000	13.2
1969	68,543	9.3	1983	135,000	13.4
1975	67,000	7.9	1984	92,000	9.3
1979	91,618	9.9	1985	109,000	10.7
1989	88,408	8.3	1986	109,000	10.7
			1987	95,000	8.8
CPS: 1/			1988	117,000	11.1
1980	81,000	8.5	1989	122,000	11.3
1981	108,000	11.3	1990 2/	121,000	11.0

1/ Current Population Survey. Based on small samples and subject to considerable sampling variation.

2/ Standard errors in 1990 were 19,000 for the number of poor and 1.7 for the poverty rate. For the entire United States in 1990, there were 33,585,000 persons below the poverty level and the poverty rate was 13.5 percent.

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; 1990 CPH-L-80, table 3.

Table 404.-- 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 404.-- 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 405.-- POVERTY INCOME GUIDELINES: 1990, 1991 AND 1992

[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. 16, 1990	Effective Feb. 20, 1991	Effective Feb. 14, 1992
1	7,230	7,610	7,830
2	9,690	10,210	10,570
3	12,150	12,810	13,310
4	14,610	15,410	<u>1/</u> 16,050
5	17,070	18,010	18,790
6	19,530	20,610	21,530
7	21,990	23,210	24,270
8	24,450	25,810	<u>2/</u> 27,010

1/ Corresponding levels for four-person families elsewhere in the United States were \$13,950 on the Mainland and \$17,440 in Alaska.

2/ For larger families, add \$2,740 for each additional member.

Source: U.S. Department of Health and Human Services, "Annual Update of the Poverty Income Guidelines," Federal Register, Vol. 55, No. 33 (February 16, 1990), pp. 5664-5666; "Annual Update of the HHS Poverty Income Guidelines," Federal Register, Vol. 56, No. 34 (February 20, 1991), pp. 6859-6861; and "Annual Update of the HHS Poverty Guidelines," Federal Register, Vol. 57, No. 31 (February 14, 1992), pp. 5455-5457.

Table 406.-- ANNUAL INCOME AND EXPENDITURES OF CONSUMER UNITS,
FOR OAHU: 1987-88 TO 1989-90

[Annual averages for two-year periods. For detailed breakdowns, see
source]

Item	Annual averages (dollars)		
	1987-88	1988-89	1989-90
Total expenditures	32,164	33,425	33,320
Food at home	2,828	2,814	3,025
Food away from home	2,298	2,414	2,430
Alcoholic beverages	329	388	407
Housing	9,386	10,266	10,359
Shelter	6,196	6,869	6,770
Utilities, fuels, and public services	1,211	1,259	1,248
Household operations	287	375	500
Housekeeping supplies	404	432	509
Housefurnishings and equipment	1,288	1,331	1,333
Apparel and services	1,927	1,740	1,477
Transportation	6,023	5,893	5,200
Health care	1,115	1,469	1,691
Entertainment	1,651	1,534	1,582
Personal care products and services	470	480	475
Reading	173	186	206
Education	730	710	656
Tobacco products and smoking supplies ..	228	251	231
Miscellaneous	631	792	919
Cash contributions	874	937	886
Personal insurance and pensions	3,500	3,550	3,777
Money income before taxes	32,230	39,733	40,533
Personal taxes	3,833	5,587	5,006
Money income after taxes	28,397	34,146	35,527
Net change in total assets	(NA)	16,394	18,090
Net change in total liabilities	(NA)	19,686	18,213
Other money receipts	206	201	342
Mortgage principal paid on owned property	-625	-616	-598
Gifts of goods and services	254	1,339	1,210

NA Not available.

Source: U.S. Bureau of Labor Statistics, printouts.

Table 407.-- TOP WEALTHHOLDERS: 1962 TO 1986

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts, rising from \$60,000 in 1962 to \$500,000 in 1986. 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

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, and Spring 1990, pp. 63-78.

Table 408.-- TOTAL AND SELECTED ASSETS, DEBTS AND MORTGAGES, AND NET WORTH OF TOP WEALTHHOLDERS: 1986

[Top wealthholders are defined for this table as persons with net worth under \$10,000,000 and gross assets of \$500,000 or more]

Subject	Number of persons	Amount (millions of dollars)
Total assets ^{1/}	11,000	11,330
Debts and mortgages	10,100	1,475
Net worth	11,000	9,855
Total assets by type:		
Real estate	10,800	5,447
Corporate stock	8,900	2,439
Cash	10,700	1,041
Total bonds	5,800	806

^{1/} For the U.S., top wealthholders numbered 3,304,300. Hawaii ranked 42nd among the 50 States. In top wealthholders per 10,000 residents 18 years and over, ratios were 141 for Hawaii and 186 for the entire nation.

Source: U.S. Internal Revenue Service, "Estimates of Personal Wealth, 1986," SOI Bulletin, Spring 1990, pp. 63-78, table 7.

Table 409.-- WORTH OF RICHEST RESIDENTS: 1992

Name	Age (years)	Net worth (million dollars)
Barbara Cox Anthony	69	2,100
Doris Duke ^{1/}	79	750
Campbell family .....	...	700
Kelley family .....	...	400
Richard Palmer Kaleioku Smart	79	< 265

^{1/} Also a resident of New Jersey and Rhode Island.

Source: "The Richest People in America," Forbes, October 19, 1992, pp. 90-270.

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 1992, the Honolulu all-items consumer price index for all urban consumers (CPI-U) averaged 155.1, with the 1982-1984 level equal to 100. The index had increased 4.8 percent over the average for 1991, 35.0 percent since 1987, and 59.6 percent since 1982. Prices have risen most rapidly since the 1982-84 base period for shelter (79.6 percent) and medical care (82.6 percent) and have dropped most rapidly for electricity (12.0 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 \$55,833 as of 1991. This family budget was 37.7 percent higher than the corresponding urban United States average. Differences were particularly marked for renter shelter costs (60.0 percent higher) and personal income taxes (80.5 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: 1992, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 410.-- 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 411.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: ANNUAL AVERAGES, 1940 TO 1992

[1982-1984 average = 100. Excludes rent before 1963]

Year	CPI-U	CPI-W	Year	CPI-U	CPI-W
1940	14.7	14.5	1967	36.3	35.8
1941	15.5	15.3	1968	37.7	37.2
1942	17.6	17.4	1969	39.4	38.8
1943	18.9	18.7			
1944	19.2	19.0	1970	41.5	40.9
1945	19.7	19.5	1971	43.2	42.6
1946	21.0	20.8	1972	44.6	44.0
1947	24.4	24.1	1973	46.6	45.9
1948	25.7	25.4	1974	51.5	50.8
1949	25.2	24.9	1975	56.3	55.5
			1976	59.1	58.3
1950	24.3	24.0	1977	62.1	61.2
1951	25.7	25.4	1978	66.9	65.9
1952	26.5	26.2	1979	74.3	73.2
1953	26.7	26.4			
1954	26.9	26.6	1980	83.0	81.9
1955	27.3	27.0	1981	91.7	90.5
1956	27.7	27.4	1982	97.2	96.0
1957	28.6	28.3	1983	99.3	99.8
1958	30.0	29.6	1984	103.5	104.3
1959	30.5	30.1	1985	106.8	107.9
			1986	109.4	110.3
1960	31.3	30.9	1987	114.9	115.9
1961	32.1	31.7	1988	121.7	122.8
1962	32.8	32.4	1989	128.7	129.7
1963	33.5	33.1			
1964	33.7	33.3	1990	138.1	138.9
1965	34.4	33.9	1991	148.0	148.9
1966	35.3	34.8	1992	155.1	155.9

Source: 1964-1991 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 412.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1992

[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

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), BLS tapes tabulated by Hawaii State Data Center, and BLS press releases.

Table 413.-- PERCENT CHANGE IN SELECTED PRICE INDEXES: 1982 TO 1992

Index <u>1/</u>	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 410 and 411.

Table 414.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1988 TO 1992

[Unless otherwise specified, 1982-1984 average=100]

Group	1988	1989	1990	1991	1992
All items	121.7	128.7	138.1	148.0	155.1
Food and beverages	120.3	128.1	137.8	145.9	148.5
Food	120.2	128.2	138.3	145.9	148.3
Food at home	120.0	131.5	145.0	152.8	155.0
Cereals and bakery products	127.0	139.3	151.7	159.5	163.3
Meats, poultry, fish, and eggs ...	119.1	133.1	147.2	154.5	157.3
Meats, poultry, and fish	119.1	133.9	148.0	155.5	159.1
Dairy products	106.5	115.5	121.9	125.6	128.2
Fruits and vegetables	122.3	142.2	167.4	175.8	172.9
Other foods at home	122.2	123.0	128.8	138.2	143.2
Food away from home	121.0	122.2	128.0	133.6	137.8
Alcoholic beverages	121.0	126.5	131.0	144.4	151.1
Housing	123.0	131.1	141.5	152.8	161.7
Shelter	132.1	141.1	154.5	169.3	179.6
Renters' costs <u>1/</u>	133.9	143.4	158.1	174.6	185.2
Rent, residential	129.4	139.3	152.2	165.5	175.8
Other renters' costs	131.7	136.3	158.6	191.0	201.9
Homeowners' costs <u>1/</u>	136.5	147.7	160.7	175.1	185.8
Owners' equivalent rent <u>1/</u>	136.8	148.1	161.4	176.0	186.8
Fuel and other utilities	87.3	90.9	98.0	101.3	106.1
Fuels	72.6	75.7	84.1	85.6	90.0
Gas (piped) and electricity	72.1	75.1	83.6	84.9	89.4
Electricity	70.4	73.7	82.3	83.2	88.0
Utility (piped) gas	86.5	85.9	91.4	99.0	98.8
Household furnishings and operation ..	117.3	125.8	126.8	130.7	137.3
Apparel and upkeep	106.8	104.3	107.0	110.5	114.2
Apparel commodities	105.4	102.4	104.3	107.8	111.1
Men's and boys' apparel	121.2	123.8	118.6	126.7	131.8
Women's and girls' apparel	105.3	97.1	99.4	98.3	100.5
Footwear	101.2	93.0	98.2	102.5	104.7
Transportation	116.1	123.9	131.1	139.3	147.4
Private transportation	116.4	124.3	130.8	141.0	149.8
Motor fuel	95.4	101.1	108.6	113.2	117.5
Gasoline	95.3	100.7	109.1	115.1	119.6
Public transportation	112.9	119.4	132.7	125.0	128.3
Medical care	132.5	139.3	154.2	171.3	182.6
Entertainment	122.9	124.3	128.4	134.3	136.3
Other goods and services	137.1	146.1	160.4	175.7	189.0
Personal care	115.8	122.1	136.6	144.8	153.3

Continued on next page.

Table 414.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1988 TO 1992 -- Con.

Group	1988	1989	1990	1991	1992
All items	121.7	128.7	138.1	148.0	155.1
Commodities	115.5	121.6	128.1	134.9	138.5
Food and beverages	120.3	128.1	137.8	145.9	148.5
Commodities less food and beverages ..	111.8	116.4	120.2	126.1	130.5
Nondurables less food and beverages	110.1	113.8	120.8	127.4	133.2
Durables	114.9	121.0	119.7	124.4	126.5
Services	127.4	135.2	147.2	159.6	169.9
Medical care services	132.4	139.2	155.3	173.1	183.6
Special indexes:					
All items less shelter	117.7	124.0	131.7	139.6	145.6
All items less medical care	121.0	128.0	137.1	146.6	153.5
All items less energy	125.5	132.7	142.3	152.7	160.2
Energy	84.7	89.2	97.1	100.2	104.6
Commodities less food	112.1	116.8	120.7	127.0	131.4
Nondurables less food	110.7	114.6	121.3	128.6	134.3
Nondurables	115.7	121.7	130.3	137.7	141.6
Services less rent of shelter ^{1/}	123.8	130.2	140.5	150.3	160.9
Services less medical care	126.6	134.5	146.1	158.1	168.3

1/ December 1982=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), press releases, and printouts.

Table 415.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1988 TO 1992

[Unless otherwise specified, 1982-1984 average=100]

Group	1988	1989	1990	1991	1992
All items	122.8	129.7	138.9	148.9	155.9
Food and beverages	121.7	129.2	138.6	146.5	149.5
Food	121.7	129.3	139.1	146.6	149.3
Food at home	121.9	133.1	146.2	154.0	156.5
Cereals and bakery products	125.4	137.7	149.9	157.4	161.1
Meats, poultry, fish, and eggs ...	124.3	138.4	153.2	160.6	163.8
Meats, poultry, and fish	124.6	139.5	154.5	162.2	166.3
Dairy products	106.5	114.6	120.5	124.1	128.7
Fruits and vegetables	123.0	140.8	162.9	171.6	168.5
Other foods at home	122.0	123.2	129.0	138.5	143.4
Food away from home	121.4	122.6	128.5	134.3	138.5
Alcoholic beverages	121.4	126.6	131.5	144.1	150.8
Housing	125.5	133.7	144.3	155.7	164.1
Shelter	136.3	145.6	159.4	174.4	184.9
Renters' costs <u>1/</u>	119.3	127.9	140.6	154.5	163.9
Rent, residential	129.4	139.3	152.2	165.5	175.8
Other renters' costs	130.7	135.2	157.2	189.0	199.3
Homeowners' costs <u>1/</u>	127.9	138.3	150.6	164.1	174.1
Owners' equivalent rent <u>1/</u>	128.1	138.7	151.1	164.7	174.8
Fuel and other utilities	87.4	91.1	98.1	101.5	106.3
Fuels	72.7	75.6	84.0	85.6	89.9
Gas (piped) and electricity	72.4	75.2	83.6	85.1	89.4
Electricity	70.4	73.7	82.3	83.2	88.0
Utility (piped) gas	86.5	85.9	91.4	99.0	98.8
Household furnishings and operation ..	118.7	126.5	127.5	132.1	135.6
Apparel and upkeep	108.2	105.2	108.1	111.9	115.6
Apparel commodities	106.9	103.5	105.5	109.3	112.6
Men's and boys' apparel	123.5	126.1	121.1	129.1	132.5
Women's and girls' apparel	107.1	98.0	100.9	100.7	103.5
Footwear	101.4	93.5	98.5	102.6	105.6
Transportation	115.7	123.7	130.2	138.6	146.7
Private transportation	115.5	123.8	129.8	139.5	147.8
Motor fuel	95.4	101.1	108.6	113.2	117.5
Gasoline	95.3	100.7	109.1	115.1	119.6
Public transportation	113.6	119.3	131.0	124.2	129.3
Medical care	131.4	138.3	153.3	170.3	182.2
Entertainment	123.6	123.5	127.9	134.1	136.5
Other goods and services	136.4	146.3	161.9	179.1	193.7
Personal care	115.7	121.9	136.3	144.4	153.2

Continued on next page.

Table 415.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1988 TO 1992 -- Con.

Group	1988	1989	1990	1991	1992
All items	122.8	129.7	138.9	245.9	155.9
Commodities	116.8	122.8	129.2	136.3	140.0
Food and beverages	121.7	129.2	138.6	146.5	149.5
Commodities less food and beverages ..	113.3	118.1	122.2	128.7	133.0
Nondurables less food and beverages	110.1	113.8	121.2	128.6	134.4
Durables	117.8	124.3	123.2	128.0	129.9
Services	129.5	137.5	149.6	162.5	172.9
Medical care services	131.3	138.2	154.6	172.5	183.7
Special indexes:					
All items less shelter	118.2	124.2	131.9	140.1	146.0
All items less medical care	122.2	129.1	138.1	147.7	154.5
All items less energy	126.9	134.0	143.5	154.1	161.4
Energy	85.7	90.3	98.1	101.4	105.8
Commodities less food	113.6	118.4	122.6	129.4	133.9
Nondurables less food	110.8	114.7	121.8	129.6	135.5
Nondurables	116.7	122.5	131.0	138.7	142.9
Services less rent of shelter ^{1/}	115.0	121.0	130.5	140.2	150.1
Services less medical care	129.1	137.1	148.9	161.3	171.6

^{1/} December 1984=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), press releases, and printouts.

Table 416.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER
PRICE INDEX FOR HONOLULU: DECEMBER 1991

[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	20.449	21.550
Food	19.021	19.848
Food at home	12.758	12.870
Cereals and bakery products	1.701	1.946
Meats, poultry, fish, and eggs	4.289	4.627
Meats, poultry, and fish	4.039	4.312
Dairy products .....	.938	.872
Fruits and vegetables	3.153	2.907
Other foods at home	2.678	2.518
Food away from home	6.263	6.978
Alcoholic beverages	1.428	1.702
Housing	42.757	39.849
Shelter	32.696	30.124
Renters' costs	9.575	9.627
Rent, residential	8.081	8.602
Other renters' costs	1.494	1.024
Homeowners' costs	22.939	20.330
Owners' equivalent rent	22.756	20.201
Fuel and other utilities	4.096	4.382
Fuels	1.870	1.978
Fuel oil, coal, and bottled gas .....	.021	.026
Fuel oil .....	.001	.004
Other household fuel, commodities ..	.020	.022
Gas (piped) and electricity	1.848	1.952
Electricity	1.681	1.710
Utility (piped) gas .....	.168	.243
Household furnishings and operation	5.965	5.343
Apparel and upkeep	4.554	4.773
Apparel commodities	4.237	4.441
Men's and boys'	1.235	1.359
Women's and girls'	1.686	1.741
Footwear .....	.557	.617

Table 416.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER
PRICE INDEX FOR HONOLULU: DECEMBER 1991 -- Con.

Group	CPI-U <u>1/</u>	CPI-W <u>2/</u>
EXPENDITURE CATEGORY -- Con.		
Transportation	16.292	18.396
Private	14.784	17.233
Motor fuel	2.979	3.632
Public	1.507	1.163
Medical care	5.348	5.079
Entertainment	4.203	4.062
Other goods and services	6.396	6.292
Personal care	1.289	1.409
COMMODITY AND SERVICE GROUP		
All items	100.000	100.000
Commodities	41.969	45.451
Food and beverages	20.449	21.550
Commodities less food and beverages	21.520	23.901
Nondurables less food and beverages	13.556	14.919
Durables	7.964	8.982
Services	58.031	54.549
Medical care services	4.420	4.126
Special indexes:		
All items less shelter	67.304	69.876
All items less medical care	94.652	94.921
All items less energy	95.151	94.390
Energy	4.849	5.610
Commodities less food	22.948	25.603
Nondurables less food	14.984	16.621
Nondurables	34.005	36.469
Services less rent of shelter	25.712	24.733
Services less medical care	53.611	50.422

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 417.-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON FAMILY
ON OAHU: 1971 TO 1991

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			

Source: U.S. Bureau of Labor Statistics, annual releases for 1971-1981; 1982-1991 estimates by Paul Brewbaker, Economics Department, Bank of Hawaii.

Table 418.-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY IN THE UNITED STATES AND ON OAHU: 1981 AND 1991

[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 1990 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	1991	1981	1991	1981	1991
Total budget	25,409	40,544	31,893	55,833	125.5	137.7
Consumption	18,242	28,281	21,530	36,159	118.0	127.8
Food	5,843	8,449	7,626	12,203	130.5	144.4
Food at home	4,866	6,966	6,649	10,728	136.6	154.0
Food away from home.....	977	1,482	977	1,475	100.0	99.5
Housing	5,547	8,546	6,493	11,481	117.1	134.3
Homeowner shelter costs ..	4,886	7,840	5,467	10,260	111.9	130.9
Renter shelter costs	2,732	4,574	3,991	7,320	146.1	160.0
Housefurnishings and operations	1,199	1,522	1,395	1,956	116.3	128.5
Transportation	2,372	3,152	2,421	3,524	102.1	111.8
Clothing	1,333	1,801	1,432	1,674	107.4	92.9
Personal care	508	766	590	976	116.1	127.4
Medical care	1,443	3,082	1,590	3,330	110.2	108.0
Other family consumption <u>1/</u>	1,196	2,485	1,378	2,971	115.2	119.6
Other items <u>2/</u>	1,021	1,530	1,137	1,835	113.6	119.9
Social Security payments	1,703	3,322	2,049	4,460	120.3	134.3
Personal income taxes	4,443	7,412	7,177	13,378	161.5	180.5

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); 1991 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 1991.

Table 419.-- 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 <u>1/</u>	2nd qtr. 1990	4th qtr. 1991 <u>1/</u>
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 420.-- 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 421.-- 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	Hawai i 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.

Table 422.-- COST OF FOOD AT HOME IN HONOLULU RELATIVE
TO U.S. CITY AVERAGE: 1973 TO 1989

Index name and year	Honolulu index <u>1/</u>	Honolulu rank <u>2/</u>
Sherwood, 1973	116.1	2
Updated Sherwood, 1988	141.3	1
Interarea price index, 1988-1989	139.0	1

1/ 25-city average = 100.

2/ Among 25 major cities.

Source: U.S. Bureau of Labor Statistics, "New research on interarea consumer price differences," Monthly Labor Review, July 1991, pp. 31-34.

Table 423.-- EXPENDITURES ON A CHILD FROM BIRTH TO AGE 18: 1991

[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	<31,200	95,460	5,303
Middle income level	31,200-50,500	129,930	7,218
Higher income level	>50,500	178,620	9,923

Source: U.S. Department of Agriculture, Family Economics Review, Vol. 5, No. 1, March 1992; pp. 33-35.

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 10 banks with 188 locations, six savings and loan associations with 135 locations, four trust companies with six branches, and 45 industrial loan or small loan licensees with 187 branch offices in Hawaii as of December 31, 1991. Deposits in all financial institutions reached \$23.8 billion at the end of 1991, compared with \$9.8 billion a decade earlier. Assets of savings and loan associations stood at \$7.3 billion in 1989, more than double their 1985 level. There were 127 credit unions with combined assets of \$3.0 billion at the end of 1991.

Life insurance in force in Hawaii at the end of 1990 amounted to \$37 billion, almost twice the figure reported ten years earlier. For all 821 insurance companies doing business in the Islands, Hawaii premiums amounted to \$1.75 billion in 1990 and losses, claims, and benefits paid came to \$1.0 billion. Fire losses in fiscal 1992 amounted to \$21 million. Persons covered by the three major prepaid health insurance plans as of December 31, 1991 numbered 827,000, with annual membership dues of \$975 million.

By mid-1992, about 48,000 corporations and partnerships were registered to do business in Hawaii: 33,800 local ("domestic") corporations, 6,100 out-of-State ("foreign") corporations, and 8,400 partnerships. Business establishments with one or more employees in 1990 numbered 29,300; over half had fewer than five employees. During fiscal 1992, 3,300 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 annual sales of \$3.2 billion. Business failures in 1991 numbered 72.

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: 1992.

Table 424.-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES: 1981 TO 1991

[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		Industrial loan licensees	
	Firms	Loca- tions	Asso- cia- tions	Loca- tions	Firms	Loca- tions	Firms	Loca- tions
1981	9	171	9	163	4	7	76	236
1982	10	166	8	153	4	7	78	230
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
TYPE OF CHARTER: 1991								
Federal	3	14	4	110	-	-	-	-
State	7	174	2	25	4	6	45	187
ISLANDS: 1991								
Hawaii	6	22	6	19	1	1	10	18
Maui	7	22	6	13	1	1	10	17
Lanai	1	1	1	1	-	-	-	-
Molokai	1	1	1	2	-	-	1	1
Oahu	9	128	6	93	4	4	43	142
Kauai	4	14	5	8	-	-	8	9
Niihau	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

Table 425.-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS: 1971 TO 1991

[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 <u>2/</u>	Other			
1971	3,098.8	703.4	1,235.2	24,375.9	2,612.4	1,271.3
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	21,360.9	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

1/ Interbank and public demand deposits included in "other."
Out-of-State branches of Hawaii banks are included.

2/ Data for 1989 not strictly comparable to earlier years.

Source: Bank of Hawaii, Hawaii 1992, Annual Economic Report (1992), p. 35.

Table 426.-- CHARACTERISTICS OF STATE-CHARTERED FINANCIAL INSTITUTIONS,
BY TYPES: 1989 TO 1991

[As of December 31]

Subject	1989	1990	1991
BANKS			
Number of banks	7	7	7
Number of branches and facilities	195	194	188
Assets (million dollars)	15,401.7	17,535.8	18,624.9
Deposits (million dollars)	13,671.3	15,114.2	14,843.9
Debits to demand deposits (mil. dol.)	172,698	217,636	239,886.5
Clearings (million dollars)	58,466	61,923.1	59,542.0
SAVINGS AND LOAN ASSOCIATIONS			
Number of associations	2	2	2
Number of branches and facilities	22	23	23
Assets (million dollars)	994.5	1,009.5	905.8
Withdrawable shares (million dollars)	710.6	667.1	616.0
TRUST COMPANIES			
Number of companies	3	4	4
Number of branches and facilities	6	3	2
Assets (million dollars)	48.2	70.4	62.0
FINANCIAL SERVICES LOAN COMPANIES			
Number of companies	52	48	46
Number of branches	142	146	151
Assets (million dollars)	2,046.8	2,577.4	2,809.3

Source: Hawaii State Department of Commerce and Consumer Affairs,
Division of Financial Institutions, Comparative Statement of Condition
(semi-annual), monthly releases.

Table 427.-- CREDIT UNIONS: 1986 TO 1991

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1986	136	1,906,350,845	1,742,031,717	443,015
1987	136	2,145,826,560	1,938,767,096	461,944
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

Source: Hawaii Credit Union League, records.

Table 428.-- 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 429.-- FINANCE, INSURANCE, AND REAL ESTATE ESTABLISHMENTS
WITH PAYROLL AND EMPLOYMENT: 1990

SIC code	Major group	Estab-lishments	Employ-ment
	Total	3,726	37,516
60	Depository institutions	431	9,436
602	Commercial banks	203	6,497
603	Savings institutions	178	2,348
61	Nondepository institutions	271	2,326
62	Security and commodity brokers	66	609
63	Insurance carriers	208	3,925
64	Insurance agents, brokers and service	328	3,184
65	Real estate	2,264	15,078
67	Holding and other investment offices	145	1,738
-	Administrative and auxiliary	13	1,220

Source: U.S. Bureau of the Census, County Business Patterns 1990, Hawaii, CBP-90-13 (November 1992), p. 10.

Table 430.-- GENERAL EXCISE TAX BASE FOR INTEREST AND
INSURANCE SOLICITORS: 1982 TO 1992

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

Year <u>1/</u>	Interest	Insurance solicitors	Year <u>1/</u>	Interest	Insurance solicitors
1982	205,443	199,512	1988	230,817	160,936
1983	184,895	214,972	1989	269,093	184,310
1984	207,430	236,086	1990	309,530	223,938
1985	206,256	167,438	1991	294,623	630,481
1986	200,656	140,120	1992	227,018	800,169
1987	258,015	198,442			

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 431.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1985 TO 1990

[Includes data for all insurance companies, life or other, authorized in Hawaii]

Year	Number of companies authorized, Dec. 31	Premiums paid (\$1,000)	Losses, claims and benefits paid (\$1,000)	Cumulative net investments in Hawaii Dec. 31 1/ (\$1,000)
1985	752	1,132,282	592,550	2,680,318
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	1,753,969	1,018,866	3,155,926

1/ Does not include balances in Hawaii banks.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual).

Table 432.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1985 TO 1990

[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)
1985	417	6,965,896	30,478,068	302,554	199,101
1986	424	8,118,761	33,463,090	309,649	175,205
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	355,505	309,406

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 433.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE:
1990

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	1,753,969,678	1,018,866,612
Life <u>1/</u>	351,839,425	307,989,917
Fraternal	3,665,969	1,416,132
Fire, marine, casualty, and miscell.:		
Accident and health	130,836,408	70,357,548
Fire	16,613,035	8,250,633
Allied lines <u>2/</u>	10,733,927	1,674,833
Homeowners multiple peril	58,094,529	25,299,134
Commercial multiple peril	95,542,608	28,772,108
Private passenger auto no-fault	89,752,518	75,440,855
Other private passenger auto liability	217,358,511	153,707,257
Commercial auto no-fault	7,344,628	6,574,068
Other commercial auto liability	62,598,175	41,487,580
Private passenger auto physical damage	127,289,530	69,785,450
Commercial auto physical damage	18,079,032	9,628,592
Workers' compensation	285,142,691	159,645,847
Other liability	119,172,267	29,789,202
Medical malpractice	16,837,556	3,376,460
Financial Guaranty	3,655,792	346
Glass	128,542	30,619
Burglary and theft	296,634	40,399
Boiler and machinery	2,261,518	1,494,494
Fidelity and surety	26,226,172	1,274,085
Ocean marine	4,359,901	1,311,523
Inland marine	21,693,334	3,505,313
Earthquake	307,428	86
All other <u>3/</u>	37,744,025	13,503,904
Surplus lines	46,395,523	4,510,227

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, 1991, p. 6.

Table 434.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION
OF HOME OFFICE: 1990

[Money amounts in millions of dollars. For insurance companies authorized
to do business in Hawaii]

Subject	All companies	Domestic companies <u>1/</u>	Foreign companies <u>2/</u>	Alien companies <u>3/</u> (U.S. business only)
Number of companies, Dec. 31 ...	821	20	783	18
Financial condition, Dec. 31:				
Assets	1,704,788.3	1,423.4	1,666,454.4	36,910.4
Liabilities exc. capital and surplus	1,525,427.7	1,133.0	1,489,956.8	34,337.9
Policyholder's surplus inc. capital	179,332.7	290.4	176,495.1	2,547.1
Capital	4,094.3	24.4	4,042.5	27.4
Net gain or loss	-5,357.6	-30.4	-4,924.6	-402.5
Hawaii business:				
Direct premiums written	1,911.8	588.3	1,270.1	53.5
Claims and benefits paid	1,160.0	323.6	811.5	24.8
Investments in Hawaii, Dec. 31 <u>4/</u>	3,156.1	214.5	2,916.4	24.9
Mortgage loans (principal indebtedness)	931.2	122.6	796.5	12.0
Collateral loans (amount lent)	8.6	6.6	2.0	-
State and county bonds <u>5/</u>	833.1	22.1	810.0	1.0
Utilities stocks and bonds <u>5/</u>	285.1	22.7	253.3	9.0
Industrial and misc. stocks and bonds <u>5/</u>	1,057.8	33.8	1,021.1	2.9
Real estate <u>5/</u>	40.3	6.7	33.5	-
Balances in Hawaii banks	63.3	59.0	4.3	.04

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/ Does not include balances in Hawaii banks.

5/ Market value less encumbrances for real estate.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1991, pp. 7, 10, 11, 12, 14, 15, 38, 39.

Table 435.-- HEALTH PLANS: 1988 TO 1991

Subject	1988	1989	1990	1991
BestCare: <u>1/</u>				
Members covered, Dec. 31 <u>2/</u>	5,970	5,730	...	...
Premium revenue <u>3/</u> (\$1,000)	2,948	3,214	...	...
Hawaii Medical Service Association: <u>4/</u>				
Persons covered, Dec. 31 <u>2/</u>	557,594	577,725	605,127	620,285
Membership dues <u>3/</u> (\$1,000)	485,955	566,655	660,623	753,462
Island Care: <u>1/</u>				
Persons covered, Dec. 31 <u>2/</u>	18,469	17,619	22,337	20,872
Membership dues <u>3/</u> (\$1,000)	13,638	11,605	22,709	26,092
Kaiser Foundation Health Plan:				
Persons covered-- <u>2/</u>				
Annual average	155,539	170,772	179,450	183,393
Dec. 31	162,060	176,298	182,580	186,289
Membership dues <u>3/</u> (\$1,000)	108,191	130,744	165,145	195,225
Commercial carrier premiums for accident and health insurance (\$1,000)	120,661	127,009	130,836	(NA)

NA Not available.

1/ BestCare combined with Island Care in 1990.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Includes both employers' and employees' contributions.

4/ Includes both Straub Plan and Pacific Health.

Source: Data provided by BestCare, Hawaii Medical Service Association, Island Care, and Kaiser Foundation Health Plan, Inc.; Report of the Insurance Commissioner (annual).

Table 436.-- HEALTH INSURANCE COVERAGE OF PERSONS UNDER 65 YEARS OF AGE: 1989

[Excludes persons in the armed forces, members of their families, and persons living in group quarters, as well as those 65 years and over. Detail adds to more than indicated totals and sub-totals because of multiple coverage of some persons]

Subject	Persons under 65	Private coverage			Public coverage <u>1/</u>	No health insurance <u>2/</u>
		Total	Employer	Other private		
Number (millions) ...	0.9	0.7	0.6	0.1	0.1	0.1
Percent	100.0	82.6	73.5	9.1	12.6	10.1

1/ Medicaid, Medicare, CHAMPUS, or CHAMPVA.

2/ For the nation as a whole, 16.1 percent of the nonelderly population was without health insurance. Among the 50 States, Hawaii ranked 4th lowest in percent without coverage.

Source: Employee Benefit Research Institute, Uninsured in the United States: The Nonelderly Population Without Health Insurance (April 1991), table 9. Based on the March 1990 Current Population Survey.

Table 437.-- MEDICAL INSURANCE COVERAGE OF OAHU RESIDENTS: 1992

[Based on a telephone survey of 500 Oahu residents, October 3-12, 1992]

Subject	Percent
Percent of all residents--	
Covered by medical insurance	98
Basic only	67
Both basic and supplemental coverage	31
Not covered	2
Percent of insured residents with coverage--	
Through plans provided by their employers	73
Through spouses' employers	13

Source: Survey by Omnitrak/Hawaii Inc. cited in Honolulu Star-Bulletin, February 2, 1993.

Table 438.-- FIRES, FIRE DEATHS, AND FIRE LOSSES, BY COUNTIES:
1987 TO 1992

[Years ended June 30]

Subject and year	State total	Hono- lulu	Hawaii	Kauai	Maui
Number of fires:					
1987	6,036	4,835	558	205	438
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
Fire deaths:					
1987	6	-	1	1	4
1988	7	5	-	2	-
1989	12	11	1	-	-
1990	4	3	1	-	-
1991	4	4	-	-	-
1992	8	6	2	-	-
Fire losses (\$1,000):					
1987	14,010	9,582	2,599	290	1,539
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

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 439.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1980 TO 1990

[Data refer to establishments with taxable payrolls. Coverage excludes government and self-employed workers]

Year	Number of employees <u>1/</u>	Payroll (\$1,000)		Number of establishments, by employment-size class <u>2/</u>		
		First quarter	Annual	Total	1 to 4	5 to 9
1980	314,106	930,312	3,849,636	21,125	10,928	4,346
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

Year	Number of establishments by employment-size class <u>2/--Con.</u>						
	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more
1980	2,868	1,906	666	311	55	26	19
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

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 440.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES:
1989 AND 1990

[Excludes government employees and self-employed persons]

Year and county	Number of establish- ments <u>1/</u>	Number of employ- ees <u>2/</u>	Payroll (\$1,000)	
			First quarter	Annual
1989				
State total	28,443	410,745	1,924,365	8,253,134
Hawaii	3,194	34,871	134,968	583,402
Honolulu	20,699	317,941	1,553,267	6,675,441
Kauai	1,445	18,473	74,284	307,303
Maui	3,096	39,375	161,248	684,777
Statewide	9	85	598	2,211
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

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, 1990, Hawaii, CBP-90-13 (November 1992), p. 18.

Table 441.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS,
BY MAJOR INDUSTRY GROUP: 1990

[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 <u>1/</u>	Number of employees <u>2/</u>	Annual payroll (\$1,000)
Total	29,313	432,663	9,296,865
Agricultural services, forestry, fishing .	283	1,984	39,013
Mining	8	138	5,922
Construction	2,363	29,929	1,031,086
Manufacturing <u>3/</u>	1,023	23,323	535,431
Food and kindred products	216	9,934	210,124
Apparel and other textile products	154	2,868	36,588
Printing and publishing	196	3,631	99,444
Transportation and public utilities	1,271	41,459	1,145,872
Wholesale trade	2,099	23,589	588,425
Retail trade <u>3/</u>	7,683	114,212	1,560,207
Food stores	909	14,748	204,486
Eating and drinking places	2,350	46,510	482,434
Finance, insurance, real estate	3,726	37,516	1,012,240
Services <u>3/</u>	9,430	158,935	3,331,608
Hotels and other lodging places	261	38,450	659,850
Health services	2,131	35,192	1,006,307
Unclassified establishments	1,427	1,578	47,061

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, 1990, Hawaii, CBP-90-13 (November 1992), pp. 1-2.

Table 442.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
EMPLOYMENT-SIZE CLASS: 1990

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments	Number of employees	Annual payroll (\$1,000)
Total	29,313	432,663	9,296,865
1 to 4	15,243	27,142	748,384
5 to 9	6,064	40,134	797,250
10 to 19	3,881	52,283	1,027,016
20 to 49	2,619	79,600	1,564,161
50 to 99	878	60,110	1,211,395
100 to 249	467	68,491	1,525,534
250 to 499	93	31,685	673,904
500 to 999	41	28,090	542,147
1,000 or more	<u>1</u> / 27	45,128	1,207,074

1/ 1,000-1,499 employees, 18 establishments; 1,500-2,499, 5 establishments; 2,500-4,999, 4 establishments.

Source: U.S. Bureau of the Census, County Business Patterns, 1990, Hawaii, CBP-90-13 (November 1992), pp. 3, 13, and 17.

Table 443.-- CHARACTERISTICS OF BUSINESS AND PROFESSIONAL FIRMS,
BY COUNTIES: 1990-1991

Characteristic	State total	Honolulu	Maui	Kauai	Hawai i
Business type, total <u>1/</u>	25,685	18,426	2,714	1,463	3,081
Corporation	15,555	11,565	1,585	752	1,653
Partnership	1,254	846	154	89	165
Proprietorship	8,876	6,015	975	622	1,263
Employees, total <u>1/</u>	25,246	17,912	2,819	1,472	3,042
1 to 4	13,794	9,466	1,650	862	1,815
5 to 9	4,594	3,238	528	256	572
10 to 19	2,890	2,132	287	166	305
20 to 49	2,254	1,722	208	101	223
50 to 99	902	694	83	52	73
100 to 199	451	366	35	22	28
200 to 499	224	177	17	11	19
500 to 999	68	53	7	1	7
1,000 and over	69	64	4	1	-
Sales volume, total <u>1/</u>	18,704	13,864	1,665	1,008	2,166
Under \$500,000	13,168	9,542	1,140	751	1,734
\$500,000 to \$999,999	2,295	1,754	201	119	221
\$1.0 to \$4.9 million	1,988	1,549	198	101	140
\$5.0 to \$9.9 million	448	353	57	11	27
\$10.0 to \$24.9 million	405	324	44	20	17
\$25.0 million and over	400	342	25	6	27
Year established, total <u>1/</u>	25,400	18,729	2,391	1,402	2,877
1820 to 1849	27	15	5	2	5
1850 to 1899	152	107	14	9	22
1900 to 1949	1,826	1,323	157	100	246
1950 to 1959	1,762	1,420	116	74	152
1960 to 1969	3,433	2,707	280	136	310
1970 to 1979	8,007	5,709	977	396	925
1980 and later	10,193	7,448	842	685	1,217

1/ For the entire State, 34,400 firms were surveyed. Distributions exclude non-responding firms and those for which item (typically sales volume) was not applicable.

Source: Hawaii Business Directory, Inc., Hawaii Business Directory 1990-91 (April 1991), pp. 5-10.

Table 444.-- REGISTERED CORPORATIONS AND PARTNERSHIPS:
1989 TO 1992

[Excludes eleemosynary corporations]

Subject	1989	1990	1991	1992
Domestic (Hawaii) corporations:				
Formed <u>1/</u>	3,791	3,822	3,559	3,294
Dissolved or merged <u>2/</u>	583	6,589	2,560	2,365
On record, June 30 <u>3/</u>	34,587	31,844	32,943	33,804
Foreign (non-Hawaii) corporations:				
Qualified <u>1/</u>	812	858	770	685
Withdrawn, merged, or cancelled <u>2/</u> .	228	1,183	287	468
On record, June 30 <u>3/</u>	5,911	5,665	5,903	6,125
Partnerships:				
Registered <u>1/</u>	1,409	1,575	1,430	1,358
Dissolved or cancelled <u>2/</u>	688	3,098	1,423	1,196
On record, June 30 <u>3/</u>	10,414	8,311	8,229	8,372

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

3/ Number on record may be inconsistent with data on components of change, reflecting inaccuracy in manual tabulation.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, October 19, 1992.

Table 445.-- MAJOR CORPORATE FAMILIES HEADQUARTERED IN HAWAII: 1991

[Includes major ultimate parent companies headquartered in Hawaii and meeting the following criteria: Conduct business from two or more locations; net worth of \$500,000 or more; controlling interest in one or more subsidiary companies]

Ultimate parent company	Affiliates ^{1/}		Sales (million dollars)
	In Hawaii	On Mainland	
Parent companies with Mainland affiliates:			
Alexander & Baldwin, Inc.	7	4	846
Amelco Corporation	2	2	84
Persis Corporation	2	5	69
Waterhouse Properties, Inc.	4	1	25
Parent companies without Mainland affiliates (51 companies)	185	-	<u>2/</u> 3,783

NA Not available.

^{1/} Excludes divisions but includes all subsidiary companies.

^{2/} Excludes sales of 15 companies not reporting sales.

Source: Dun & Bradstreet, Inc., Dun's Marketing Services, America's Corporate Families 1991, Vol. 1 (1991).

Table 446.-- 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	Em- ployees	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 447.-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS, AND PROPRIETORSHIPS: 1985, 1987, AND 1989

[Money amounts in millions of dollars]

Subject	1985	1987	1989
CORPORATIONS <u>1/</u>			
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 <u>2/</u>	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	<u>3/</u> 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 448.-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: 1991

[Data may include sales and employment on the Mainland or abroad]

Rank in sales	Company	Year founded <u>1/</u>	Sales (million dollars)	Employees
1	Dole Food Co. Inc.	1851	3,216	50,000
2	Pacific Resources, Inc.	1904/1970	1,600	1,250
3	Hawaiian Electric Industries Inc. .	1891/1983	1,084	3,400
4	Bancorp Hawaii Inc.	1897/1971	1,023	4,188
5	Hawaii Medical Service Assn. (HMSA)	1938	754	1,200
6	Alexander & Baldwin Inc.	1870/1900	748	2,957
7	First Hawaiian Inc.	1858/1974	578	2,800
8	DFS Hawaii	1962	550	1,450
9	GTE Hawaiian Tel	1883	546	4,099
10	Fletcher Pacific Construct. Co. Ltd	1939	530	1,800

1/ If two years 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: Susan Hooper, "The Hawaii Business Top 250," Hawaii Business, August 1992, pp. 80 and 82.

Table 449.-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1990 AND 1991

[Based on 1991 ranks for reporting companies]

Company	Net income or loss (\$1,000)		Revenues (\$1,000,000)	
	1990	1991	1990	1991
Largest net incomes:				
Dole Food Co.	120,455	133,700	3,003.2	3,216.0
Bancorp Hawaii	5,688	112,690	954.3	1,022.8
Alexander & Baldwin, Inc.	115,189	92,436	757.9	748.5
Largest net losses:				
HAL Inc.	(121,287)	(95,548)	340.7	365.0
Investors Equity Life Ins. Co.	(NA)	(5,784)	(NA)	23.4
International Holding Capital .	3,062	(3,920)	68.1	57.6

NA Not available.

Source: "The Hawaii Business Top 250," Hawaii Business, August 1992, p. 68.

Table 450.-- SMALL BUSINESS SHARE OF PRIME CONTRACT DOLLARS, BY MAJOR PRODUCER SERVICE CATEGORY: FISCAL YEAR 1988

[Data refer to contracts in which the principal place of performance is Hawaii]

Major product or service category	Amount to small business (\$1,000)	Percent to small business
All products and services	566,225	48.2
Research and development	27,360	16.5
Construction	232,326	85.6
Other services	202,708	32.5
Supplies and equipment	103,831	3.6

Source: The State of Small Business: A Report of the President Transmitted to the Congress 1990, pp. 219-221.

Table 451. -- MINORITY-OWNED FIRMS: 1987

[Firms are classified as minority owned if the sole owner or at least half of the partners or shareholders (limited to the 10 partners or shareholders received) were members of specified minority groups]

Minority <u>1/</u>	All firms		Firms with paid employees		
	Firms	Sales and receipts (\$1,000)	Firms	Sales and receipts (\$1,000)	Employees
All firms	60,928	6,522,000	10,589	5,342,000	65,058
Minority-owned:					
Black	399	12,310	52	7,429	147
Hispanic	1,226	58,098	177	41,838	542
Other minorities	31,406	1,662,269	4,443	1,114,878	15,094
Aleut	6	6	-	-	-
Eskimo	11	32	-	-	-
American Indian	89	6,201	16	5,512	48
Asian Indian	115	9,008	28	7,650	66
Chinese	4,962	337,265	763	240,883	3,530
Japanese	15,751	869,341	2,324	595,908	7,702
Korean	2,061	148,515	379	87,130	1,172
Vietnamese	529	14,859	42	5,892	78
Filipino	3,891	95,789	381	50,294	801
Hawaiian <u>2/</u>	2,550	109,094	359	67,489	1,011
Other Asian and Pacific Islander	1,441	72,159	151	54,120	686

1/ Persons of mixed race were instructed to report the race with which they most closely identified. Whites (Caucasians), although only 33.4 percent of the 1980 population of Hawaii, were treated as a non-minority group for census purposes.

2/ For the United States as a whole, Hawaiians owned 4,279 firms with sales and receipts of \$221,176,000.

Source: U.S. Bureau of the Census, 1987 Economic Censuses, Survey of Minority-Owned Business Enterprises, MB87-1, Black (July 1990), table 2; MB87-2, Hispanic (April 1991), table 5; MB87-3, Asian Americans, American Indians, and Other Minorities (June 1991), tables 5 and 14.

Table 452.-- 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 453.-- BUSINESS CLIMATE INDEXES: 1988 TO 1992

Index	1988	1989	1990	1991	1992
Economic performance ...	B	A	A	A	A
Business vitality	C	D	D	D	F
Development capacity ...	B	B	B	B	B

Source: The Corporation for Enterprise Development, The 1992 Development Report Card for the States (6th ed., 1992), p.53.

Table 454.-- BUSINESS FAILURES: 1991 AND 1992

Subject	1991	1992
Firms	74	289
Assets (million dollars)	29	126.3

Source: The Dun & Bradstreet Corporation, cited in Honolulu Star-Bulletin, February 10, 1993, p. B-1.

Table 455.-- BUSINESS FAILURES, BY INDUSTRY SECTOR: 1988 TO 1991

Industry sector	1988	1989	1990	1991 <u>1/</u>
Firms, all sectors	178	170	149	72
Agriculture, forestry, fishing	2	-	-	1
Mining	-	-	-	-
Construction	10	3	4	4
Manufacturing	2	1	4	5
Transportation, public utilities	4	3	2	3
Wholesale trade	11	2	6	6
Retail trade	19	11	22	16
Finance, insurance, real estate	3	4	2	4
Services	127	146	105	13
Unclassifiable	-	-	4	20

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 1991 it had 143 post offices and stations handling 478 million pieces of mail and accounting for postal receipts of \$158 million. There were 607,000 telephone access lines in service, 409,000 telephone homes, and uncounted millions of local, interisland, and transpacific calls in 1991. The 58 commercial, public and educational radio stations in the Islands in 1992 included 28 on the regular broadcast band and 30 FM stations. The State also had 22 television stations (20 commercial and 2 public), including satellites but excluding translators. Eight cable TV companies served 321,000 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 nine 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: 1992, Section 18.

Table 456.-- POSTAL SERVICE: 1988 TO 1992

[Years ended September 30]

Subject	1988	1989	1990	1991	1992
Post offices, September 30 ...	75	74	74	74	73
Stations, September 30 ^{1/}	72	74	70	70	70
Gross postal receipts (\$1,000)	119,740	129,177	136,087	151,429	158,134
Pieces of mail ^{2/} (millions) .	400	434	463	473	478

^{1/} Includes both classified and contract stations (see following table).

^{2/} Originating in Hawaii. Excludes mail originating elsewhere.

Source: U.S. Postal Service, Honolulu District, records.

Table 457.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS:
SEPTEMBER 30, 1992

Island	Total	Post offices			Stations	
		1st class	2nd class	3rd class	Classified ^{1/}	Contract ^{2/}
State total ..	143	34	29	10	34	36
Hawaii	36	8	15	2	2	9
Maui	18	8	2	-	2	6
Lanai	1	-	1	-	-	-
Molokai	5	1	-	4	-	-
Oahu	63	12	4	1	28	18
Kauai	20	5	7	3	2	3
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 458.-- TELEPHONE ACCESS LINES, BY ISLAND AND TYPE: 1981 TO 1991

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Year	All access lines	By island		By type		
		Oahu	Other islands	Residence	Business	Other types
1981	431,893	324,968	106,925	314,355	95,000	22,538
1982	445,452	334,150	111,302	323,588	98,691	23,173
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

Source: GTE Hawaiian Telephone Company, data provided May 5, 1992.

Table 459.-- RESIDENTIAL TELEPHONES IN SERVICE, BY ISLANDS:
1989 TO 1991

[Estimates based on 1987 survey data reporting 1.74 telephones per residence access line]

Islands	1989	1990	1991
State total	670,330	692,106	710,969
Oahu	494,611	504,215	515,228
Other islands	175,719	187,890	195,741

Source: GTE Hawaiian Telephone Company, data provided May 5, 1992.

Table 460.-- HAWAIIAN TELEPHONE COMPANY OPERATIONS: 1989 TO 1991

Subject	1989	1990	1991
Operating revenues (\$1,000)	512,144	539,283	545,910
Operating expenses (\$1,000)	426,562	443,089	448,917
Net income (\$1,000)	48,340	51,963	46,698
Net investment in property, plant, and equipment (\$1,000)	899,751	944,095	983,243
Total assets (\$1,000)	1,070,670	1,121,529	1,217,705
Access lines ^{1/}	594,642	629,715	658,521
Total salaries and wages (\$1,000)	146,099	154,222	153,261
Number of employees	4,260	4,185	4,099

Source: GTE Hawaiian Tel 1991 Annual Report, p. 24.

Table 461.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES,
BY COUNTIES: 1990 AND 1991

County	Number of companies Dec. 31 ^{1/}		Subscribers, Dec. 31		Basic service revenue (\$1,000)	
	1990	1991	1990	1991	1990	1991
State total	8	8	310,258	320,657	54,660	61,843
Hawaii	3	3	30,700	29,410	6,052	7,205
Maui	2	2	38,885	40,785	6,438	7,651
Honolulu	2	2	224,768	231,817	38,305	42,825
Kauai	3	3	15,905	18,645	3,865	4,161

^{1/} State totals are unduplicated figures; one company provided service to three counties.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 462.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES:
1970 TO 1991

Subject	1970	1975	1980	1985	1990	1991
Companies, Dec. 31	6	10	10	9	8	8
Subscribers, Dec. 31 (1,000) .	12.1	54.6	128.7	220.4	310.3	320.7
Revenue <u>1/</u> (mil. dol.) .....	...	...	16.2	33.0	54.7	61.8

1/ Gross revenue 1980, and basic service revenue thereafter.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 463.-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION,
1932 TO 1992, AND BY COUNTIES, 1992

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV <u>1/</u>	AM	FM	TV <u>1/</u>
1932: Jan. 1	2	-	-	-	-	-
1947: Jan. 1	5	-	-	-	-	-
1962: Jan. 1	20	1	9	-	1	-
1977: Jan. 1	25	7	10	-	1	2
1992: June 30	28	26	20	-	4	2
COUNTIES: 1992						
Hawaii	5	7	6	-	-	-
Maui	4	6	5	-	1	1
Honolulu <u>2/</u>	17	11	9	-	3	1
Kauai	2	2	-	-	-	-

1/ Includes satellites but excludes translators and cable television.

2/ Includes one commercial AM station with studio on Oahu but transmitter on Molokai.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), p. 482; Federal Communications Commission, Field Operations Bureau, Honolulu, September 30, 1992.

Table 464.-- 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 I.

Table 465.-- 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 466.-- COMMUNICATION AND RELATED ESTABLISHMENTS: 1990

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
27	Printing and publishing	196	482	Telegraph & other	3
271	Newspapers	19	483	Radio, TV broadcast ...	41
272	Periodicals	24	484	Cable, other pay TV ...	11
273	Books	5	489	Commun. services, n.e.c	19
274	Miscell. publishing .	12	5942	Book stores	57
48	Communication	115	731	Advertising	76
481	Telephone	37	7311	Advertising agencies	52

Source: U.S. Bureau of the Census, County Business Patterns 1990, Hawaii, CBP-90-13 (November 1992), table 1b.

Table 467.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1988 TO 1992

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		
1988	868	672	42	6	324,185	1,962,537
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

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.

Table 468.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1988-89 TO 1991-92

[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, Korean; and United Chinese Press, Chinese]

Newspaper	1988-89	1989-90	1990-91	1991-92
Daily:				
Honolulu Advertiser 1/	98,025	98,400	101,220	103,114
Honolulu Star-Bulletin 2/	96,074	92,811	89,704	87,809
Hawaii Tribune-Herald (Hilo) 3/	20,360	20,354	20,486	20,193
West Hawaii Today (Kailua-Kona) 4/ ..	9,757	10,781	11,733	11,698
Maui News (Wailuku) 3/	16,722	17,861	18,170	18,494
Garden Island (Lihue) 3/	8,737	8,664	8,246	7,478
Sunday morning:				
Sunday Star-Bulletin and Advertiser .	203,752	200,798	200,199	200,378
Hawaii Tribune-Herald (Hilo)	23,146	23,291	23,879	23,999
West Hawaii Today (Kailua-Kona)	10,025	11,576	12,684	12,971
Maui News (Wailuku)	17,660	19,405	19,939	20,822
Garden Island (Lihue)	8,899	9,157	8,552	8,058

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 469.-- POSTAGE RATES AND NEWSPAPER PRICES, FOR
HONOLULU: 1982 TO 1992

[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			
1982	20	17	13	25	100
1983	20	17	13	25	100
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

^{1/} Street sales, for the Honolulu Advertiser, Honolulu Star-Bulletin, and Sunday Star-Bulletin and Advertiser.

Source: Postal rates from Statistical Abstract of the United States: 1992, p. 550, as updated by Postal Service Customer Information. Newspaper rates from Hawaii Newspaper Agency.

Table 470.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1987 TO 1992

[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 <u>3/</u>		Monthly charge, indiv. resident line <u>4/</u>
		Direct dialing <u>1/</u>	Through operator <u>2/</u>	Direct dialing <u>1/</u>	Through operator <u>2/</u>	
1987 ..	0.25	1.11	2.00	0.98	2.53	18.89
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

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 (\$2.50 for rotary phone), interstate subscriber line charge (\$3.50), hearing impaired relay service fee (\$0.08), and federal and state taxes (\$0.69).

Source: Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

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 1990 amounted to 299 trillion British thermal units, compared with 253 trillion Btu a decade earlier. Fully 98.5 percent in 1990 was provided by petroleum. Transportation, including aviation fuels, accounted for 52 percent of the total. Total expenditures for fuels and electricity in 1991 were \$2.2 billion.

Electricity sales amounted to 8.5 billion kilowatt-hours in 1991, a total that has increased 32 percent since 1981. Manufactured gas sales reached 34 million therms in 1991, five percent above the figure ten years earlier. Residential rates in 1991 averaged 10.5 cents per kilowatt-hour and \$1.79 per therm. Average residential use (7,252 kWh and 184 therms in 1991) has declined since the early 1970s.

The liquid fuel tax base for 1992 was approximately 1.3 billion gallons, compared with 893 million in 1982. The 1992 total included 381 million gallons of gasoline, 711 million of aviation fuel, and 189 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 \$97 million in 1989. Seventy-eight patents were granted to Hawaii residents in 1991.

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: 1992, Sections 19 and 20.

Table 471.-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS):
1970 TO 1990

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	36,698	92	0	0	30
1975	37,056	89	0	0	25
1976	37,990	93	0	0	29
1977	40,249	86	0	0	26
1978	40,851	84	0	0	0
1979	44,486	90	0	0	0
1980	43,505	86	0	0	0
1981	38,721	80	0	0	15
1982	35,637	90	0	47	26
1983	36,297	84	0	42	28
1984	37,252	82	21	38	28
1985	40,004	86	19	46	25
1986	38,931	78	18	16	0
1987	40,884	82	13	63	0
1988	47,621	81	16	50	0
1989	49,641	89	14	32	11
1990	50,292	89	0	28	6

^{1/} For data by type of petroleum, see source. Revised data, 1984-1989.

^{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, Consumption Estimates, 1960-1990 (May 1992), p. 105.

Table 472.-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU):
1970 TO 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	0.8	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	243.6	238.1	0.8	0.3	1.6	2.8	0.0
1988	283.9	278.7	0.8	0.3	1.3	2.8	0.0
1989	295.3	290.3	0.9	0.3	0.8	2.9	0.1
1990	299.0	294.4	0.9	0.0	0.7	3.0	0.1

1/ For data by type of petroleum, see source. Revised data, 1984-1989.

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, Consumption Estimates, 1960-1990 (May 1992), p. 105.

Table 473.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1990

[Trillion Btu. Revised data for 1985-1989]

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	33.7	62.0	125.1	76.6
1988	23.9	48.6	69.3	142.0	81.9
1989	25.3	48.8	66.8	154.4	85.8
1990	25.1	45.1	72.2	156.6	86.1

^{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, Consumption Estimates, 1960-1990 (May 1992), pp. 106-110.

Table 474.-- ENERGY CONSUMPTION AND ELECTRICITY SALES, TOTAL AND PER CAPITA: 1960 TO 1991

Year	Primary energy consumption		Electricity sales by utilities	
	Total (trillion Btu)	Per capita ^{1/} (million Btu)	Total (1,000 kWh)	Per capita ^{1/} (kWh)
1960	120.49816	185.040	1,602,197	2,460
1961	141.31562	211.487	1,766,031	2,643
1962	137.19339	197.799	1,966,105	2,835
1963	143.86984	207.156	2,077,571	2,991
1964	153.96038	216.480	2,284,275	3,212
1965	160.60139	224.492	2,445,025	3,418
1966	175.59905	242.339	2,639,866	3,643
1967	196.12467	264.105	2,832,469	3,814
1968	214.96128	283.291	3,109,256	4,098
1969	221.93865	284.975	3,426,052	4,399
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 (est.).....	306.70400	243.803	8,310,537	6,606
1991 (est.)	315.50600	247.320	8,524,088	6,682

^{1/} Based on estimated de facto population.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

Table 475.-- ENERGY CONSUMPTION, BY SOURCE: 1970 TO 1991

[Trillion Btu]

Year	Total	Petroleum	Biomass <u>1/</u>	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 <u>2/</u>	314.9631	289.2301	20.9498	2.3310	1.0183	0.8715	0.4189	0.1435
1990 ...	306.704	280.874	21.2400	2.3400	1.0700	0.8900	0.2900	-
1991 <u>3/</u>	315.506	289.900	21.2000	2.3000	1.0000	0.8000	0.3060	-

1/ Beginning 1989, includes solid waste.

2/ Preliminary.

3/ Estimated.

Source: U.S. Energy Information Administration; Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records.

Table 476.-- ELECTRICITY GENERATION BY SOURCE: 1986 TO 1991

[Millions of kWh generated]

Year	Total	Petroleum	Biomass	Hydro-electric	Geo-thermal	Wind	Other <u>1/</u>
1986	8,251	7,412	646	100	18	58	17
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

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 477.-- ELECTRICITY PRODUCTION, BY SOURCE, BY ISLANDS: 1991

[Million kWh]

Island	Total	Petroleum	Biomass <u>1/</u>	Hydro-electric	Wind	Other <u>2/</u>
State total ..	9,609.6	8,664.4	815.7	91.7	29.5	0.8
Hawaii	892.5	686.4	157.3	22.4	19.3	0.7
Maui	1,027.5	861.3	148.7	16.4	-	1.1
Lanai	25.2	25.2	-	-	-	-
Molokai	32.1	32.1	-	-	-	-
Oahu	7,138.6	6,729.1	399.2	-	10.3	-
Kauai	493.7	330.3	110.5	52.9	-	-

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 478.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SOURCE:
1970 TO 1991

[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 <u>1/</u> .	2,186.2	1,711.6	304.8	1,406.8	304.8	779.4

1/ Provisional.

Source: Hawaii State Department of Business, Economic Development and Tourism, Division of Energy, records.

Table 479.-- ELECTRIC UTILITIES: 1981 TO 1991

Year	Customers, Dec. 31 <u>1/</u>			Installed capacity, Dec. 31 (kW) <u>2/</u>	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1981 ..	305,927	265,042	40,885	1,652,380	6,424,016	1,855,837	4,568,179
1982 ..	313,009	270,712	42,297	1,644,980	6,332,707	1,801,297	4,531,410
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 <u>4/</u>	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 <u>5/</u>	380,963	328,899	52,064	1,572,349	8,524,088	2,385,276	6,178,756

Year	Average annual use (kWh) <u>3/</u>		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1981 ..	7,002	111,732	.11563	.10605	699,031	214,584	484,447
1982 ..	6,654	107,133	.12348	.11061	723,622	222,423	501,199
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 <u>4/</u>	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 <u>5/</u>	7,252	117,524	.10546	.08733	785,896	251,553	534,343

1/ 1990 based on November data.

2/ Does not include purchased power.

3/ Based on number of customers at end of year.

4/ Revised.

5/ 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 480.-- ELECTRIC UTILITIES, BY ISLANDS (OLD METHODOLOGY): 1991

[Based on methodology used in previous years. For data based on new methodology, see the following table]

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
State total	380,963	328,899	52,064	1,572,349	8,460,185	2,363,725	6,076,697
Oahu	255,176	223,304	31,872	1,188,600	6,508,263	1,679,734	4,828,529
Hawaii	53,351	44,244	9,107	143,850	751,689	289,463	462,226
Kauai	23,917	20,129	3,788	94,360	370,451	119,802	250,649
Maui County	48,519	41,222	7,297	145,539	829,782	274,727	535,293
Lanai	1,173	1,019	154	9,710	19,763	4,942	14,821
Maui	44,627	37,974	6,653	131,029	781,457	263,073	518,385
Molokai	2,719	2,229	490	4,800	28,562	11,654	16,908

Continued on next page.

Table 480.-- ELECTRIC UTILITIES, BY ISLANDS (OLD METHODOLOGY): 1991 - Con.

County or island	Average annual use (kWh) <u>1/</u>		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Resi- dential	Other	Resi- dential	Other	Total	Resi- dential	Other
State total	7,187	116,716	0.10539	0.08726	779,382	249,104	530,278
Oahu	7,522	151,498	0.09366	0.07768	532,408	157,323	375,085
Hawaii	6,542	50,755	0.13827	0.12365	97,177	40,025	57,152
Kauai	5,952	66,169	0.13571	0.13226	49,409	16,258	33,151
Maui County	6,665	73,358	0.12921	0.12122	100,388	35,498	64,890
Lanai	4,850	96,240	0.16289	0.14513	2,956	805	2,151
Maui	6,928	77,917	0.12379	0.11494	92,147	32,566	59,581
Molokai	5,228	34,506	0.18251	0.18678	5,285	2,127	3,158

1/ 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. 1991-1986 Financial and Statistical Data Booklet (July 15, 1992).

Table 481.-- ELECTRIC UTILITIES, BY ISLANDS (NEW METHODOLOGY): 1991

[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, Dec. 31 (kW) <u>2/</u>	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
State total	380,963	328,899	52,064	1,572,349	8,524,088	2,385,276	6,118,756
Oahu	255,176	223,304	31,872	1,188,600	6,538,952	1,688,248	4,850,704
Hawaii	53,351	44,244	9,107	143,850	778,993	300,723	478,270
Kauai	23,917	20,129	3,788	94,360	370,451	119,802	250,649
Maui County	48,519	41,222	7,297	145,539	835,692	276,503	539,133
Lanai	1,173	1,019	154	9,710	20,056	4,978	15,078
Maui	44,627	37,974	6,653	131,029	787,074	264,849	522,225
Molokai	2,719	2,229	490	4,800	28,562	11,654	16,908

Continued on next page.

Table 481.-- ELECTRIC UTILITIES, BY ISLANDS (NEW METHODOLOGY): 1991 - Con.

County or island	Average annual use (kWh)		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Resi- dential	Other	Resi- dential	Other	Total	Resi- dential	Other
State total	7,252	117,524	0.10546	0.08733	785,896	251,553	534,343
Oahu	7,560	152,193	0.09354	0.07763	534,503	157,924	376,579
Hawaii	6,797	52,517	0.13857	0.12401	100,983	41,671	59,312
Kauai	5,952	66,169	0.13571	0.13226	49,409	16,258	33,151
Maui County	6,708	73,884	0.12911	0.12112	101,001	35,700	65,301
Lanai	4,885	97,909	0.16292	0.14485	2,995	811	2,184
Maui	6,974	78,495	0.12370	0.11481	92,721	32,762	59,959
Molokai	5,228	34,506	0.18251	0.18678	5,285	2,127	3,158

1/ 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., 1991-1986 Financial and Statistical Data Booklet (July 15, 1992).

Table 482.-- GAS UTILITIES: 1981 TO 1991

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)			
	Total	Residential	Other	Total	Residential	Other	
1981 ...	32,421	28,343	4,078	32,396	6,422	25,975	
1982 ...	32,905	28,979	3,926	32,224	6,329	25,895	
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	
Year	Average annual use (therms) <u>1/</u>		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1981 ...	227	6,369	1.72585	1.50091	50,069	11,083	38,986
1982 ...	218	6,596	1.73311	1.43891	48,229	10,969	37,260
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

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 483.-- GAS UTILITIES, BY ISLANDS: 1991

[Excludes bottled gas]

Island	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
State total ..	34,973	31,378	3,595	33,974	5,775	28,199
Oahu	32,487	29,278	3,209	30,866	5,331	25,535
Hawaii	1,813	1,496	317	2,265	322	1,943
Kauai	277	277	-	56	56	-
Maui	396	327	69	788	66	721
Molokai	-	-	-	-	-	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) <u>1/</u>		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total ..	184	7,844	1.78649	1.25285	45,646	10,317	35,329
Oahu	182	7,957	1.80527	1.25816	41,751	9,624	32,127
Hawaii	215	6,129	1.55923	1.21307	2,858	502	2,357
Kauai	202	-	1.61651	-	90	90	-
Maui	203	10,455	1.52226	1.17179	946	101	845
Molokai	-	-	-	-	-	-	-
Lanai	-	-	-	-	-	-	-

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 484.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU:
1986 TO 1991

Year	Number of customers, Dec. 31		Net input ^{1/} (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use ^{2/} (kWh)	Average residential rate (dollars per kWh)	Generating capability (kW) Dec. 31
	Total	Residential only					
1986 ..	235,742	205,636	5,933,569	5,625,398	7,113	0.08328	1,277,000
1987 ..	241,426	211,277	6,135,382	5,804,298	7,322	0.08591	1,277,000
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

^{1/} Net generation plus purchased power.

^{2/} Based on average number of customers during the year.

Source: Hawaiian Electric Co., Inc., records.

Table 485.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1986 TO 1991

Calendar year	Customers, Dec. 31		Gas sold ^{1/} (1,000 therms)		Average annual residential usage ^{1/} (therms)
	Total	Residential	Total	Residential	
1986 ...	30,831	27,516	28,137	5,318	193
1987 ...	31,398	28,069	29,345	5,435	194
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

^{1/} Includes liquefied petroleum gas.

Source: Gasco, Inc., records.

Table 486.-- LIQUID FUEL TAX BASE: 1982 TO 1992

[In thousands of gallons]

Year reported ^{1/}	All types		Gasoline	Diesel oil	
	Total	Excluding aviation		Non-hwy.	Hwy. use
1982	893,288	418,811	308,600	88,312	17,303
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

Year reported ^{1/}	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1982	2,628	960	474,477	207	802
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

^{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 487.-- LIQUID FUEL TAX BASE, BY COUNTIES: 1992

[In thousands of gallons]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	1,286,118	1,046,225	90,903	97,171	51,819
Gasoline	381,118	254,097	47,004	56,883	23,134
Diesel oil, non-hwy. ...	162,983	72,558	34,431	29,334	26,659
Diesel oil, hwy. use ...	26,289	18,530	2,441	4,453	863
Liq. pet. gas, off hwy.	3,644	2,319	511	576	237
Liq. pet. gas, hwy. use	532	433	40	31	29
Small boats, gasoline ..	48	48	-	-	-
Small boats, diesel oil	102	13	-	89	-
Aviation fuel	711,402	698,226	6,475	5,805	896

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections & Distributions, Calendar Year Ending December 31, 1992" (annual release).

Table 488.-- IMPORTS AND EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS: 1990

[1,000 barrels]

Product	Imports			Exports		
	Total	Domestic	Foreign	Total	Domestic	Foreign
Crude oil	43,719	17,631	26,089	36	-	36
Distillates	849	849	-	4,709	3,972	737
Jet fuel ^{1/}	2,824	1,022	1,802	85	85	-
Residual fuel oil	4,023	2,893	1,129	1,659	633	1,026
Naphtha	10	10	-	1,905	1,333	572
Other	153	153	-	101	101	-

^{1/} Excludes imports of unknown origin (3,686,500 in 1988).

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records.

Table 489.-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL,
BY COUNTIES: 1987 AND 1990

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
1990	324	213	53	22	(1/)	36	(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 1990, Hawaii, CBP-90-13 (November 1992), tables 1b and 2.

Table 490.-- CHARACTERISTICS OF GASOLINE SERVICE STATIONS WITH
PAYROLL: 1987

Subject	State total	Oahu
Number of establishments in business--		
Any time during the year	355	241
Offering self-service	173	129
At end of year	341	232
Sales (\$1,000)	427,232	296,341
Gallon sales of gasoline (1,000)	261,738	186,633
Through self-service	128,298	95,633
Gallon sales of other automotive fuels	3,853	2,501
Gasoline pumps, December 31	2,909	2,020
Self-service	1,284	914
Other automotive fuel pumps, December 31	114	73
Total storage capacity of all fuels, December 31 (1,000 gallons)	7,625	5,097

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, Miscellaneous Subjects, RC87-S-4 (October 1990), tables 2-5.

Table 491.-- 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 492.-- BOILERS AND PRESSURE VESSELS: 1990 AND 1991

Date	Total	Power boilers	Heating boilers	Pressure vessels
1990: Dec. 31 ...	8,581	581	2,479	5,521
1991: Dec. 31 ...	8,885	598	2,554	5,733

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 493.-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY SUGAR PLANTATIONS, BY ISLANDS: 1991

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated <u>1/</u>	819	251	187	259	123
Purchased	21.13	1.29	7.33	2.00	10.51
Sold	431.23	180.98	100.12	104.68	45.45
Used <u>2/</u>	409.24	71.23	93.87	156.14	87.99
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	23,685	7,693	4,821	7,293	3,877
Bagasse	17,332	5,765	4,167	4,774	2,627
Fuel oil	5,744	1,927	655	2,294	868
Other fuels	608	-	-	225	383

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 - 1991 (Energy Report 31, October 1992), pp. 7-10.

Table 494.-- HIGH TECHNOLOGY INDUSTRY EMPLOYMENT AS A PERCENT OF ALL EMPLOYMENT, FOR THE UNITED STATES AND HAWAII: 1989

Subject	Value
United States (percent)	11.3
Hawaii (percent)	2.6
Rank among 50 States and D.C.	51

Source: U.S. Bureau of Labor Statistics, "High technology employment: another view," Monthly Labor Review, July 1991, pp. 26-30.

Table 495.-- HIGH-TECHNOLOGY COMPANIES, EMPLOYEES, AND REVENUES:
1990-1991

Characteristics	Compa- nies <u>1/</u>	Employ- ees <u>1/</u>	Revenues <u>2/</u> (\$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 496.-- 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 497.-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING,
FOR THE UNIVERSITY OF HAWAII: 1987-88 TO 1991-92

[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)
1987-88 ...	678	61,476,926	417	39,410,637	261	22,066,289
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

Source: Office of Research Administration, University of Hawaii,
1991-1992 Extramural Awards (1992), p. i.

Table 498.-- RESEARCH AND DEVELOPMENT EXPENDITURES AT DOCTORATE-GRANTING
INSTITUTIONS: 1986 TO 1990

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

Type of expenditure	1986	1987	1988	1989	1990
Total R&D expenditures	57,383	57,345	64,278	70,733	76,525
Federally financed	35,322	34,472	38,560	40,574	42,665

Source: National Science Foundation, Academic Science/Engineering:
R & D Expenditures, Fiscal Year 1990, NSF 92-321, Detailed Statistical
Tables (July 1992), tables B-23 and B-24.

Table 499.-- TELESCOPES AT THE SUMMITS OF MAUNA KEA AND HALEAKALA: 1991

Location and facility	Mirror size (meters)	Year completed	Primary use	Local staff <u>1/</u>
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 500.-- PATENTS ISSUED TO HAWAII
RESIDENTS: 1984 TO 1991

[Fiscal years ended September 30. Data include
design, plant, and reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1984	43	1988	62
1985	33	1989	74
1986	37	1990	78
1987	52	1991	<u>1/</u> 78

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 '90, pp. 64-65,
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 672,000 in 1982 to 886,000 in 1992. Vehicle miles rose during the decade ending in 1991 from 5.9 billion to 8.1 billion. Hawaii residents purchased 87,000 new passenger cars and 12,000 trucks in 1991. By the end of that year, 700,000 licensed drivers had access to 4,102 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 73.5 million in 1981 to 76.5 million in 1991.

Almost all scheduled interisland travel is by air. In 1991, airlines and air taxis reported 9.4 million interisland passengers, some 39 percent more than in 1981, and carried 72,000 tons of cargo. The State has seven commercial airports, 15 general aviation, military or semi-private airports, 13 civilian heliports, 3,500 active pilots, and about 600 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1991, 7,136,000 overseas passengers arrived by air, a 10-year growth of 66 percent. Overseas air cargo received that year weighed 171,000 tons.

Undocumented State-registered vessels as of December 31, 1991 numbered 13,592, 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: 1992, Sections 21 and 22.

Table 501.-- HIGHWAY DISTANCES: 1992

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	26.1	Kaunakakai-Maunaloa	16.5
Hilo-Mauna Kea summit	39.3	Kaunakakai-Airport	7.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	11.5
Hilo-Kailua, via Naalehu	125.2		
Hilo-Kailua, via Saddle Rd. ..	84.3	OAHU <u>1/</u>	
Hilo-Kailua, via Hamakua	91.2	Honolulu-Ala Moana Center	1.6
Hilo-Waimea, via Saddle Rd. ..	57.9	Honolulu-UH, via King Street	3.2
Hilo-Waimea, via Hamakua	55.3	Honolulu-Waikiki	3.2
Hilo-Upolu Pt., via Hamakua ..	83.7	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Kawaihae, via Hamakua ...	69.5	Honolulu-Waimanalo, via Nuuanu ..	13.3
Waimea-Hawi	21.4	Honolulu-Kailua, via Nuuanu	11.6
Waimea-Kawaihae	11.5	Honolulu-Kaneohe, via Kalihi	10.8
Kawaihae-Hawi	18.0	Honolulu-Kahuku, via Kahaluu	36.2
Kawaihae-Kailua	48.4	Honolulu-Kahuku, via Wahiawa	46.2
Kailua-Keahole Airport	6.8	Honolulu-Kaena Pt., via Wahiawa .	42.4
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Waianae .	44.3
		Honolulu-Wahiawa	20.5
MAUI		Honolulu-Pearl Harbor Shipyard ..	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	4.8
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.7	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	33.0
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.1
Wailuku-Makena	17.6	Circle island, via Nuuanu Pali ..	81.1
Wailuku-Lahaina, via Kahakuloa	38.0		
Wailuku-Lahaina, via Olowalu .	20.9	KAUAI	
Kahului-Kihei	7.9	Lihue-Haena	38.0
Lahaina-Wailea	32.4	Lihue-Wailua	5.9
Lahaina-Napili	8.9	Lihue-Lihue Airport	2.0
Lahaina-Kaanapali	3.7	Lihue-Poipu	11.9
		Lihue-Mana	32.9
LANAI		Lihue-Kalalau Lookout	44.6
Lanai City-Lanai Airport	2.7	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	8.0	Poipu-Princeville	40.7

1/ Honolulu distances measured from South King and Bishop Streets; Waikiki, from Kalakaua Avenue and Lewers Street.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 502.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1970 TO 1991

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	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 503.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED,
BY ISLANDS: DECEMBER 31, 1991

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Free-ways <u>1/</u>	Other	
State total	4,101.72	96.55	3,791.16	214.01
Hawaii <u>2/</u>	1,446.97	7.04	1,364.55	75.38
Maui	597.40	3.21	537.49	56.70
Lanai	46.68	-	32.68	14.00
Molokai	129.29	-	117.29	12.00
Oahu	1,467.98	86.30	1,348.24	33.44
Kauai	413.40	-	390.91	22.49
Niihau	-	-	-	-

1/ Classified as interstate and freeways and expressways.

2/ Data exclude Chain of Craters Road, closed due to volcanic eruption.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 504.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1991

Island	Number of bridges <u>1/</u>	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 505.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1991

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
Middle Street	393
Structure No. 8, Waiawa Interchange	300
Maui:	
Olowalu	318
Kauai:	
Kipu-Mahaulepu (private road)	2,200

Source: Hawaii State Department of Transportation, Highways Division, records; McBryde Sugar Plantation, records.

Table 506.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1982 TO 1992

[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	
1982	689,468	671,513	566,060	80	3,863	
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	
		Motor vehicles -- continued				
Year	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters <u>2/</u>	Trailers and semi-trailers	
1982	88,410	1,395	388	11,317	17,955	
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	

Footnotes and source on next page.

Table 506.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1982 TO 1992 -- 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 507.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1982 TO 1992

[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
1982	671,513	495,629	77,024	33,931	64,929
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

Source: City and County of Honolulu, Department of Data Systems, records.

Table 508.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES:
1990 TO 1992

[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 508.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES:
1990 TO 1992 -- Con.

[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
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

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 509.-- TRUCK CHARACTERISTICS: 1977, 1982, AND 1987

[Percent]

Vehicular and operational characteristics	1977	1982	1987 ^{1/}
Major use: Personal transportation	50.0	54.3	60.5
Body type: Pickup, panel, or mini-van	85.1	89.1	91.2
Vehicle size: Light	89.0	92.9	94.6
Annual miles: Less than 10,000	54.1	59.7	57.0
Year model: Over 4 years old	68.1	75.8	62.1
Vehicle acquisition: Purchased new	54.6	47.3	49.6
Fleet size: 1 truck	64.0	72.3	64.4
Truck type: Single-unit, 2 axles	95.7	96.6	96.4
Range of operation: Local	87.3	78.2	80.2
Fuel type: Diesel and LPG	4.6	3.7	5.4

^{1/} There were 160,800 trucks in Hawaii in 1987, which traveled 1,550.5 million truck miles, or 9,600 per truck.

Source: U.S. Bureau of the Census, 1987 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC87-T-12 (March 1990), tables 1 and 2.

Table 510.-- VEHICLE DENSITIES: 1970 TO 1991

Measure	1970	1975	1980	1985	1990	1991
Motor vehicles per --						
1,000 persons ^{1/}	506	532	585	657	707	702
Mile of street or highway	115	134	158	184	219	219
Persons per ^{1/} --						
Motor vehicle	2.0	1.9	1.7	1.5	1.4	1.4
Mile of street or highway	226	252	270	280	307	311

^{1/} Based on de facto population.

Source: Hawaii State Department of Transportation, Highways Division, records; Hawaii State Data Center population estimates.

Table 511.-- 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 512.-- NEW PASSENGER CARS AND MOTOR TRUCKS
REGISTERED: 1986 TO 1991

Year	Total	Passenger cars	Motor trucks
1986	68,060	49,680	18,380
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

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts and Figures (annual).

Table 513.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1986 TO 1991

Year	State total	Hono- lulu	Maui	Hawaii	Kauai
1986	68,379	48,497	8,535	7,896	3,451
1987	71,987	49,028	10,865	7,436	4,658
1988	74,962	49,401	11,413	8,410	5,738
1989	85,425	52,855	13,733	11,362	7,475
1990 <u>1/</u>	102,821	57,524	19,737	14,527	11,033
1991	98,698	52,002	21,054	14,389	11,253

1/ For unknown reasons, total differs somewhat from total in tables 514 and 515.

Source: Hawaii Automobile Dealers Association, HADA Yearbook (annual), as revised.

Table 514.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY NAMEPLATE:
1990 AND 1991

Nameplate	1990: total		1991			
	Rank	Number	Total		Retail	Fleet <u>1/</u>
			Rank	Number		
All nameplates ..	...	102,721	...	98,698	47,783	50,915
Chevrolet	1	19,218	1	21,436	4,584	16,852
Ford	3	10,265	2	17,534	7,363	10,171
Pontiac	2	13,858	3	9,517	713	8,804
Honda	5	6,200	4	6,361	6,361	-
Nissan	6	5,355	5	6,352	4,214	2,138
Toyota	4	7,056	6	6,057	5,671	386
All others .....	...	40,769	...	31,441	18,877	12,564

1/ "Program" cars sold to car rental companies through local and mainland dealers.

Source: Hawaii Automobile Dealers Association, 1992 HADA Yearbook, pp. 4 and 6, as corrected.

Table 515.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, RETAIL AND FLEET, BY PLACE OF MANUFACTURE: 1990 AND 1991

Year and place of manufacture	Cars and trucks	Cars			Trucks (all retail)
		Total	Retail	Fleet	
1990, total	102,721	87,481	39,304	48,177	15,240
Domestic	70,718	61,208	16,290	44,918	9,510
Imports	32,003	26,273	23,014	3,259	5,730
Percent	31.2	30.0	58.6	6.8	37.6
1991, total	98,698	86,616	35,701	50,915	12,082
Domestic	70,026	62,438	14,236	48,202	7,588
Imports	28,672	24,178	21,465	2,713	4,494
Percent	29.1	27.9	60.1	5.3	37.2

Source: Hawaii Automobile Dealers Association, 1992 HADA Yearbook, pp. 4-5.

Table 516.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1986 TO 1991

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1986	612,101	453,220	70,493	30,374	58,014
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

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 517.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1991

Age	Both sexes	Male	Female
Total	699,664	377,424	322,240
15 to 19 years	37,735	20,932	16,803
20 to 24 years	66,159	35,791	30,368
25 to 34 years	168,987	88,579	80,408
35 to 44 years	169,663	88,638	81,025
45 to 54 years	107,060	57,403	49,657
55 to 64 years	74,891	40,127	34,764
65 to 74 years	55,582	32,622	22,960
75 to 84 years	17,968	12,132	5,836
85 years and over	1,619	1,200	419
Median age (years)	39.5	39.9	39.1

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 518.-- LICENSED DRIVERS PER 100 RESIDENT POPULATION,
BY AGE AND SEX: 1991

Age	Both sexes	Males	Females
All ages, 15 years and over	78	83	73
15 to 24 years	62	62	62
25 to 44 years	87	89	86
45 to 64 years	87	97	78
65 years and over	58	75	43

Source: Calculated from tables 21 and 517.

Table 519.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1981 TO 1991

Year and county	Highway fuel consumption <u>1/</u>		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle <u>2/</u>	Total (millions)	Per vehicle <u>2/</u>
1981	319,588	492	5,855.7	9,018
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
COUNTIES: 1991				
Honolulu	270,757	444	5,402.0	8,849
Hawaii	62,624	547	1,116.8	9,754
Kauai	24,401	413	609.7	10,317
Maui	49,037	434	1,013.7	8,962

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 520.-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1989 TO 1991

Site	1989	1990	1991
Pali Highway at tunnels	51,503	50,590	61,046
Likelike Highway at tunnels	57,025	54,296	60,217
H-1 Freeway at Manoa-Palolo Drainage Canal <u>1/</u>	128,273	123,621	123,915
H-1 Freeway at Kapalama Drainage Canal Bridge	193,254	193,983	208,530
Nimitz Highway at Kapalama Drainage Canal Bridge	79,870	73,188	81,593
Kalaniana'ole Highway east of Ainakoa Ave.	79,275	80,135	77,703

1/ Includes Kapiolani on- and off-ramps.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 521.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1986 TO 1991
[Average speeds, in miles per hour. Years ended September 30]

Year	State-wide	Urban inter-state	Rural	
			Arterials <u>1/</u>	Major collectors
1986	55.1	58.4	51.4	52.6
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	<u>2/</u> 55.0	57.0	52.0	52.1

1/ Other than freeways and expressways.

2/ The corresponding U.S. average was 56.6. Hawaii ranked 44th among the 50 States.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 522.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1980 TO 1990, AND BY COUNTIES, 1990

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1980	18,301	165	13,026	185
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
COUNTIES: 1990				
Honolulu	19,753	77	9,397	88
Hawaii	4,015	44	2,535	47
Kauai	942	9	629	9
Maui	1,923	24	1,499	32

1/ Traffic accidents with damage of \$300 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 523.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1991

[As of December 31]

Island	Taxicabs <u>1/</u>	Bicycles and mopeds <u>2/</u>
Hawaii	87	10,918
Maui	157	2,837
Lanai	2	159
Molokai	5	192
Oahu	1,702	93,466
Kauai	-	2,900

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.

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

Table 524.-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY
SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1992

[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

Source: Information provided by listed companies.

Table 525.-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS (SIC 751)
ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1987

Subject	State total <u>1/</u>		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 526.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: JULY 1992

County	Passenger carriers <u>1/</u>			Property carriers <u>2/</u>	
	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 527.-- PUBLIC TRANSIT, FOR OAHU: 1981 TO 1991

[Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage <u>1/</u>	Total passengers <u>2/</u>	Revenues (dollars)
1981	400	16,748,338	73,546,802	17,991,735
1982	400	16,767,816	74,109,528	18,269,144
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

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 528.-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1989 TO 1991

[Calendar year data for City and County of Honolulu bus system]

Fare category	1989	1990	1991
All passengers	74,964,453	75,648,930	76,540,997
Adults, full fare	43,699,952	44,508,635	45,539,491
Students	11,558,225	11,301,854	11,021,547
School subsidy	242,201	212,211	191,298
Stadium express	11,249	7,894	7,551
Senior citizens and handicapped	14,319,192	14,454,242	14,642,226
Free transfers	5,133,592	5,164,094	5,138,884
Average bus speed (m.p.h.)	15.0	15.0	15.0

Source: City and County of Honolulu, Honolulu Public Transit Authority.

Table 529.-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1992

[In dollars]

Effective date	Cash fares <u>1/</u>		Monthly passes	
	Adult	School	Adult	School
March 1, 1971 .....	.25	.15	...	...
March 2, 1971 .....	.25	.10	...	...
June 9, 1972 <u>2/</u> .....	.25, .50	.10, .25	...	...
March 15, 1974 .....	.25	.10	...	...
November 1, 1979 .....	.50	.25	15.00	7.50
June 18, 1984 <u>3/</u> .....	.60	.25	15.00	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 December 7, 1992.

Source: City and County of Honolulu, Department of Transportation Services, records.

Table 530.-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1981 TO 1991

[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
1981	6	128,178	1987	6	244,555
1982	6	155,059	1988	6	285,139
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			

Source: Lahaina, Kaanapali and Pacific Rail Road, records.

Table 531.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1991

Island	Airports <u>1/</u>				Helicopters <u>2/</u>	
	State		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).

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 532.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1981 TO 1991

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	Hilo International Airport <u>1/</u>	Keahole Airport	Kahului Airport	Lihue Airport	Molokai Airport
1981	339,359	53,274	57,488	102,760	59,404	61,876
1982	308,728	47,964	51,889	112,428	65,305	69,142
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

1/ Formerly General Lyman Field; new name became effective July 1, 1989.

Source follows next table.

Table 533.-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS
AND ENPLANED PASSENGERS: 1989 AND 1990

Subject	Rank <u>1/</u>		Number	
	1989	1990	1989	1990
Total aircraft operations	16	17	403,738	407,093
Air carrier operations	19	22	194,354	194,455
Total enplaned passengers <u>2/</u> ...	14	15	8,943,521	9,002,217

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 534.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1991

[An FAA directive dated December 8, 1987, requires all aircraft with 60 seats or less to be designated as air taxis, even if such aircraft are operated by a designated air carrier. This reclassification especially affects the data for Molokai Airport]

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	403,566	196,037	65,390	113,799	28,340
Hilo International	88,206	19,596	38,504	20,802	9,304
Kahului	180,857	51,668	74,410	49,717	5,062
Lihue	112,679	30,825	64,341	11,027	6,486
Keahole	56,140	26,478	11,069	15,265	3,328
Molokai	47,898	124	35,304	10,367	2,103

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 535.-- 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 536.-- CIVIL FLYING: 1987 TO 1990

Item	1987	1988	1989	1990
Aircraft facilities, Dec. 31	54	54	53	50
Airports	35	35	34	34
Heliports	19	19	19	16
Public aircraft facilities, Dec. 31 ...	18	18	17	16
Paved and lighted facilities, Dec. 31 .	12	12	12	12
Large aircraft in operation, Dec.	57	51	51	52
Aloha Airlines	10	12	13	17
Hawaiian Airlines	29	31	31	35
Mid Pacific Airlines	18	8	7	-
General aviation: <u>1/</u>				
Active civil aircraft, Dec.	486	600	519	561
Hours flown (1,000)	163	426	290	278
Active personnel, Dec. 31:				
Pilots, except instructors	3,373	3,598	3,814	3,505
Flight instructors	271	293	284	309
Nonpilot airmen <u>2/</u>	2,778	3,008	3,185	3,306

1/ Aircraft based in Hawaii. Data based on small samples with large specified standard errors.

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 537.-- OVERSEAS AND INTERISLAND AIR
PASSENGER MOVEMENTS: 1981 TO 1991

[Calendar years. Data include both revenue and
non-revenue passengers]

Year	Overseas passengers <u>1/</u>			Inter- island passenger arrivals
	Arrivals	Departures	Through	
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113
1982 ..	4,669,747	4,641,716	882,832	7,327,447
1983 ..	4,760,459	4,714,689	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	1,020,465	9,368,576

1/ Includes West Coast, Canada, Europe, and the
Central and South Pacific.

Source: Hawaii State Department of Trans-
portation, Airports Division, records.

Table 538.-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND,
BY AIRPORT: 1991

Airport	Passengers <u>1/</u>		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	7,215,323	7,135,595	153,188	171,015	16,829	22,141
Honolulu	6,457,548	6,341,675	142,674	158,211	16,829	22,135
Hilo	-	-	218	117	-	-
Kahului	551,558	580,305	6,511	8,351	-	6
Keahole	128,630	134,006	3,515	3,068	-	-
Lihue	77,587	79,609	270	1,268	-	-
INTERISLAND						
Total	9,368,576	9,368,576	72,052	72,052	11,836	11,836
Honolulu	4,195,036	4,209,871	47,597	21,615	7,144	4,684
Hilo	709,223	730,588	14,359	10,505	1,165	1,756
Upolu	-	3	2	5	-	-
Waimea-Kohala ...	7,275	6,374	-	4	-	-
Keahole	941,346	914,795	3,209	8,478	945	1,480
Kahului	1,812,791	1,797,247	4,890	18,088	1,690	2,527
Hana	11,829	11,854	-	25	-	-
Molokai	159,686	156,890	367	587	69	31
Kalaupapa	7,421	7,440	1	25	-	-
Lanai	63,125	64,332	63	1,542	14	3
Lihue	1,270,073	1,269,480	1,411	10,699	809	1,355
Other airports <u>2/</u>	193,567	196,906	153	479	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,020,465, passing through Honolulu International Airport).

2/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 539.-- AIR CARGO AND AIRMAIL: 1981 TO 1991

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1981	151,513	101,301	22,388	19,887	132,559	14,131
1982	155,278	105,388	21,280	25,006	114,038	15,014
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

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 540.-- HELICOPTER TOURS: 1977 TO 1992

Subject	1977	1982	1987	1989	1990	1991	1992
Companies	9	14	36	36	37	33	31
Aircraft	15	26	71	74	78	90	91

Source: Hawaii Helicopter Operators Association, records.

Table 541.-- 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 542.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1984 TO 1992

[Updated to December 25, 1992. For historical data, see Robert C. Schmitt, What People Paid to Travel (Hawaiian Historical Society, 1991), pp. 40-41]

Effective date of change in fare	Regular one-way fares, including taxes (dollars)			Flight time ^{1/} (hours, min.)
	First class	Coach, weekend	Coach weekday	
1984: Sept.	415.00	353.14	353.14	5:00
Oct.	415.00	353.00	353.00	5:02
Dec.	454.00	364.00	364.00	5:02
1986: Nov. 14 ...	576.00	459.00	459.00	5:03
1987: Apr. 11 ...	588.00	469.00	469.00	5:00
June 5	598.00	479.00	479.00	5:00
June 30 ...	605.00	486.00	486.00	5:00
Aug. 7	613.00	494.00	494.00	5:00
1989: Feb. 4	718.00	514.00	514.00	5:06
June 3	733.00	524.00	524.00	5:05
1990: Jan. 4	762.00	545.00	545.00	5:05
Feb. 14 ...	771.00	554.00	554.00	5:05
March 2 ...	777.00	560.00	560.00	5:05
Sept. 1 ...	818.00	589.00	589.00	5:05
Oct. 2	852.00	613.00	613.00	5:05
Nov. 3	901.00	648.00	648.00	5:05
1991: July 1	895.00	642.00	642.00	5:05
Dec. 21 ...	913.00	655.00	655.00	5:05
1992: Feb. 20 ...	931.00	668.00	668.00	5:08
Mar. 3	913.00	655.00	655.00	5:08
Apr. 10 ...	913.00	400.00	400.00	5:08
Jul. 3	956.00	416.00	416.00	5:08
Oct. 23 ...	1,006.00	436.00	436.00	5:08
Dec. 11 ...	1,056.00	486.00	486.00	5:08
Dec. 25 ...	1,126.00	566.00	566.00	5:08

^{1/} Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight times vary based on type of aircraft.

Source: United Airlines, records.

Table 543.-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO,
AND SEATTLE, FOR MAJOR AIRLINES: DECEMBER 25, 1992

[Dollars. Includes taxes]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class	696	1,126	1,236
Coach (unrestricted)	586	566	606
United Airlines, round-trip:			
First class	1,392	2,252	2,472
Coach (unrestricted)	1,172	1,132	1,212
Major carriers, lowest round-trip:			
United Airlines <u>1/</u>	442	372	492
Lowest carrier	402	352	452
Highest carrier	442	372	492
Average	429	365	479

1/ United roudtrip restricted fares. Requires 14-day advance purchase, departure on Monday-Thursday, 60-day maximum stay. Penalties for changes or cancellations, blackout dates apply.

Source: United Airlines, records.

Table 544.-- ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1991 TO 1992

[Updated to December 18, 1992]

Effective date of change in fare	One-way fares <u>1/</u> (dollars)		
	Regular	Kamaaina	
1991: May 3	69.95	54.95	
May 15	62.95	54.95	
June 14	65.95	54.95	
June 21	65.95	57.95	
1992: February 15	65.95	58.95	
February 29	69.95	57.95	
July 22	69.00	49.00	
August 5	69.00	<u>3/</u> 59.00	
December 18	74.00	<u>4/</u> 64.00	
Aircraft	Flight time between Honolulu and-- <u>2/</u>		
	Lihue	Kahului	Hilo
DC-9	32	33	46
DASH-7	44	42	73

1/ Fares are identical between Honolulu and each of the Neighbor Islands. "Kamaaina" fares are available only to Hawaii residents. For a complete chronology of interisland air fares, 1929 to 1990, see Robert C. Schmitt, What People Paid to Travel (Hawaiian Historical Society, January 1991), table 11, pp. 38-39.

2/ Average scheduled nonstop flight times (eastbound and westbound averaged), in minutes effective June 21, 1991.

3/ \$52.00 one day advance purchase.

4/ Friday through Sunday rate. \$54.00 on Monday-Thursday.

Source: Hawaiian Airlines, tariff records and Schedule and Planning Division.

Table 545.-- 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			40	3,400	1,000			
Barbers Point .			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 546.-- SMALL CRAFT MOORING FACILITIES CAPACITY, BY ISLANDS:
1991-1992

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 ...	1,459	94	705	80	2,948	926
Hawaii	14	2	315	23	-	200
Maui	46	2	145	5	-	-
Lanai	28	3	-	-	-	-
Molokai	3	1	29	12	-	-
Oahu	1,286	79	180	29	2,948	675
Kauai	82	7	36	11	-	51

1/ As of December 31, 1991. At that time, 1,992 vessels were moored (1,365 at catwalks and piers, 627 at other moorage), and valid applications on file numbered 2,801.

2/ As of January 10, 1992. Totals for 20 organizations controlling moorage.

3/ Includes moorings (82), ramps (10), and dry storage (834).

Source: Hawaii State Department of Transportation, Harbors Division, Boating Branch, Small Craft Mooring Facilities Utilization Report (quarterly), and records.

Table 547.-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS: 1992

[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 <u>1/</u>				
Total .	525	301	224	22	<u>2/</u> 25	<u>3/</u> 931	<u>4/</u> 138
Hawaii	63	50	13	7	24	156	115
Maui	52	27	25	4	24	170	48
Molokini ...	1	1	-	-	7	182	30
Kahoolawe .	1	1	-	-	7	120	20
Lanai	14	8	6	-	8	91	13
Molokai	18	10	8	1	25	213	138
Oahu	238	151	87	4	25	913	71
Kauai	39	22	17	6	25	174	80
Niihau	-	-	-	-	-	-	-
Lehua	1	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 16, 1991.

Table 548.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1991

Subject	Number	Subject	Number
Certificates outstanding .	13,592	Type of vessel:	
Length:		Cabin motorboat	2,430
Under 16 feet	5,404	Open motorboat	5,092
16 to less than 26 feet	6,666	Runabout	2,752
26 to less than 40 feet	1,314	Sail/inboard	549
40 to 65 feet	191	Sail/outboard	532
Over 65 feet	17	Sail only	1,032
Median (feet)	18.1	Motor vessel over 65 feet .	6
Hull material:		Other	1,199
Wood	1,094	Uses:	
Fiberglass	10,614	Pleasure	11,833
Metal	528	Commercial fishing	865
Inflatable	1,105	Charter fishing	24
Other	251	Commercial passenger	222
Propulsion:		Other commercial	61
Inboard	888	Livery	218
Outboard	8,058	Dealer or manufacturer	39
Inboard/outboard	2,032	Youth group	48
Sail/inboard	549	Government	223
Sail/outboard	532	Other	59
Sail only	874	Island kept:	
Manual	244	Hawaii	1,899
Other	415	Kauai	1,097
Type of storage:		Lanai	54
On water	2,417	Maui	1,169
On land	11,175	Molokai	149
		Oahu	9,224

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 549.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:
1986 TO 1991

Category	1986	1987	1988	1989	1990	1991
Documented <u>1/</u>	1,348	1,389	1,380	1,600	1,700	1,775
Numbered <u>2/</u>	14,052	14,008	14,250	13,501	14,081	13,592

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.

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 550.-- BOATING ACCIDENTS: 1986 TO 1991

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1986	54	3	3	14	69	293.0
1987	62	1	2	18	76	720.2
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

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual); Hawaii State Department of Transportation, Harbors Division, Boating Branch, Reportable Boating Accident Statistics for Period 1988 to 1990 and Recreational Boating Accident Statistics (Reportable) 1989 to 1991.

Table 551.-- 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 552.-- 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 553.-- 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 554.-- 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 555.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS:
1985 TO 1989

Harbor	1985	1986	1987	1988	1989
FREIGHT <u>1/</u> (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 <u>2/</u>					
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 556.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1989

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Imports	Exports	Receipts	Shipments	Receipts	Shipments
Hilo	1,569,142	31,291	-	49,451	64,864	1,109,320	314,216
Residual fuel oil	214,993	-	-	214,993	-	214,993	-
Fabricated metal products	305,600	-	-	305,600	40	174,172	131,388
Kawaihae	732,392	10,788	1,419	12,861	82,699	432,726	191,899
Fabricated metal products	156,712	-	-	(NA)	(NA)	(NA)	(NA)
Kahului	2,278,516	12,888	10,514	51,190	137,387	1,598,297	468,240
Sugar	155,021	-	-	-	137,387	21	17,613
Fabricated metal products	433,848	382	3	790	-	283,612	149,061
Motor vehicles, parts, and equipment	198,881	1,990	-	102	-	124,793	71,996
Barbers Point	7,374,418	3,709,321	148,505	2,723,379	167,694	42,140	493,600
Crude petroleum	5,862,212	3,491,896	-	2,370,316	-	-	-
Residual fuel oil	934,406	216,959	100,606	262,435	12,498	24,338	228,191
Petro. & coal prod. NEC .	204,839	-	-	-	-	1,816	203,023
Honolulu	10,360,134	815,645	192,764	2,968,090	795,743	1,593,070	3,827,048
Fresh fruits	257,374	2,868	190	24,713	77,049	149,132	3,422
Meat, fresh, chill, froz.	167,562	7,199	2,370	129,063	2,928	2,064	23,938
Vegetables & prep. NEC ..	202,757	5,234	575	112,194	6,047	45,988	32,719
Prepared fruit & vege- table juice NEC	389,612	3,299	3,476	8,109	251,810	122,682	236
Molasses	200,351	-	26,070	-	134,605	37,903	1,773
Alcoholic beverages	234,427	7,127	936	181,576	561	4	44,223
Misc. food products	329,712	4,860	7,344	40,052	3,146	108,759	165,551
Lumber	243,943	563	2,251	165,799	1,594	3,506	70,230
Pulp & paper prod. NEC ..	155,626	928	400	104,185	73	1,618	48,422

Continued on next page.

Table 556.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1989 -- Con.

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Imports	Exports	Receipts	Shipments	Receipts	Shipments
Honolulu - Con.							
Gasoline	228,628	16,610	142	40,788	30,697	4,451	135,940
Jet fuel	261,808	-	-	186,438	-	4,793	70,577
Distillate fuel oil	335,526	-	168	82,207	2,855	25,326	220,248
Residual fuel oil	698,293	-	38,552	-	-	169,400	335,999
Petro. & coal prod. NEC .	210,402	2	-	18,344	-	16,471	175,035
Building cement	434,705	257,690	278	9,442	-	11	167,284
Fabricated metal product	1,291,524	2,693	351	72,587	642	471,440	743,811
Motor vehicles, parts, equipment	832,710	38,729	848	135,286	45,043	184,951	427,853
Nawiliwili	1,038,452	7,275	-	17,744	127,277	655,619	230,537
Fabricated metal products	287,967	499	-	-	-	163,312	124,156
Kalaupapa	1,687	-	-	-	-	1,238	449
Kaunakakai	144,494	-	-	1,199	-	97,511	45,784
Port Allen	131,592	-	-	-	-	124,029	111

482

NA Not available.

NEC Not elsewhere classified.

1/ Includes internal and local movements, not separately shown in this table: 89,779 tons at Barbers Point and 167,774 tons at Honolulu.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1989, Part 4 (June 1991), pp. 30-37, and unpublished printouts.

Table 557.-- SUMMARY STATISTICS FOR TRANSPORTATION SERVICES
ESTABLISHMENTS: 1987 AND 1990

[Includes only establishments with payroll]

1987 SIC code	Kind of business	No. of establish- ments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid em- ployees, Mar. 12
1987					
42	Motor freight transp., 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
1990					
42	Trucking and warehousing ..	225	(NA)	100,556	4,220
44	Water transportation	53	(NA)	78,696	2,937
47	Transportation services ...	596	(NA)	143,817	7,546

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 1990, Hawaii, CBP-90-13 (November 1992), 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 1991, with a total area of 1.7 million acres. The value of crop sales in 1991 was \$464 million, or 16 percent more than the total for 1981. Livestock sales amounted to \$90 million, or two percent more than the 1981 level. Combined crop and livestock sales in 1991 ranged from \$56 million in Kauai County to \$182 million on the Big Island. Major crops were sugar (\$175 million in sales, down 16 percent over the decade), pineapple (\$108 million, or 20 percent over the 1981 total), flowers and nursery products (\$68 million, or 131 percent more than in 1981), and macadamia nuts (\$35 million, up 31 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from \$104 million in 1981 to \$181 million in 1991, or 74 percent. About 735 farms sold \$68 million of flowers and nursery products in 1991, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1991 included cattle and calves (\$33 million in sales), milk (\$30 million), and eggs (\$16 million). In 1991, Hawaii produced 33 percent of the fresh market vegetables consumed locally, 48 percent of the fresh market fruits, 24 percent of the beef and veal, 14 percent of the pork, 11 percent of the chickens, and 88 percent of the eggs.

Aquaculture has been growing in importance in recent years, with an aggregate value rising from \$11,000 in 1970 to \$9.2 million in 1990. Shellfish production amounted to 599,000 pounds in 1990, with a value of \$3.0 million.

Statistics on Hawaiian agriculture exclude marijuana and other illicit plants. Authorities confiscated or destroyed marijuana with a potential street value in excess of \$2.5 billion in 1991, 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: 1992.

Table 558.-- 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

Continued on next page.

Table 558.-- 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
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
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 ..	1,003	1,040	259	268
number ..	211,045	241,969	193,062	219,651
Beef cows farms ..	724	784	198	208
number ..	83,427	90,523	76,126	81,629
Milk cows farms ..	73	88	27	38
number ..	11,836	12,767	11,736	12,662
Cattle and calves sold farms ..	807	817	225	241
number ..	101,315	91,675	96,239	86,603

Continued on next page.

Table 558.-- 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
Livestock and poultry, con.:				
Hogs and pigs inventory farms ..	372	371	136	132
number ..	47,564	49,029	42,784	42,683
Hogs and pigs sold farms ..	307	319	127	126
number ..	69,019	66,875	64,618	61,919
Sheep and lambs				
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
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 559.-- FARMS AND LAND IN FARMS, FOR COUNTIES: 1987

Item	Hawaii	Honolulu	Kauai	Maui
Farms number ..	2,810	938	400	722
Land in farms acres ..	1,007,287	130,771	224,153	359,310
Average size of farm acres ..	358	139	560	498
Value of land and buildings:				
Average per farm .. dollars ..	573,527	440,397	709,213	873,008
Average per acre .. dollars ..	1,600	3,159	1,266	1,754
Estimated market value of all machinery and equipment:				
Average per farm .. dollars ..	27,187	39,523	70,317	81,608
Farms by size:				
1 to 9 acres ..	1,602	707	181	365
10 to 49 acres ..	883	156	139	223
50 to 179 acres ..	180	31	51	79
180 to 499 acres ..	71	21	11	25
500 to 999 acres ..	14	7	5	5
1,000 acres or more ..	60	16	13	25
Total cropland farms ..	2,561	742	294	573
acres ..	137,924	49,887	50,146	89,439
Harvested cropland farms ..	2,390	716	235	496
acres ..	63,098	24,779	21,890	42,952
Irrigated land farms ..	644	583	190	410
acres ..	12,899	36,301	32,486	67,198
Market value of agricultural products sold \$1,000 ..	219,756	168,824	67,847	153,313
Average per farm .. dollars ..	78,205	179,983	169,619	212,345
Crops, including nursery and greenhouse crops ... \$1,000 ..	195,140	100,356	62,099	140,722
Livestock, poultry, and their products \$1,000 ..	24,616	68,468	5,748	12,591

Source: U.S. Bureau of the Census, 1987 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC87-A-11 (August 1989), pp. 130-132.

Table 560.-- EMPLOYMENT IN AGRICULTURE: 1900 TO 1990

[Data for 1940 and later years include forestry and fisheries]

Year	Number	Percent of total	Year	Number	Percent of total
1900	55,931	62.0	1950	31,806	19.0
1910	54,742	54.1	1960	15,981	7.6
1920	54,803	49.0	1970	13,161	4.6
1930	61,811	40.1	1980	14,560	3.5
1940	54,629	35.5	1990	16,509	3.1

Source: Robert C. Schmitt, Historical Statistics of Hawaii (1977), pp. 122-124; present volume, table 359.

Table 561.-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1982 TO 1992

[In thousands of dollars. Data are on a cash basis accounting. "Producing" refers to the raising and production of agricultural products in their natural state, the production of natural resource products, fishing, and aquaculture; see HRS, 1985 Replacement, Section 237-5]

Year <u>1/</u>	Amount	Year <u>1/</u>	Amount	Year <u>1/</u>	Amount
1982	173,891	1986	250,954	1990	317,337
1983	220,298	1987	274,202	1991	301,884
1984	242,641	1988	298,261	1992	408,662
1985	262,791	1989	326,400		

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 562.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT:
1970 TO 1991

Year	Number of farms <u>1/</u>	Farm acreage <u>2/</u> (1,000)	Farm employment <u>3/</u>		
			Self-em- ployed 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

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 563.-- VALUE OF CROP AND LIVESTOCK SALES: 1970 TO 1991

[\$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 ^{1/} ...	595,030	506,586	213,800	106,365	186,421	88,444
1991	553,979	463,844	174,900	107,775	181,169	90,135

1/ Revised from Data Book 1991, table 554.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual) and records.

Table 564.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1981, 1989, 1990, AND 1991

County or island	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
State total:					
1981	4,400	1,965	3,100	900	10,500
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
Hawaii County:					
1981	2,550	1,150	2,125	750	2,950
1989	2,700	1,010	1,575	725	3,610
1990	2,650	1,005	1,560	610	3,475
1991	2,600	1,005	1,915	640	3,640
Maui County:					
1981	550	420	400	100	2,675
1989	600	360	225	110	2,560
1990	600	355	260	125	2,525
1991	600	355	350	140	2,540
Oahu:					
1981	1,000	125	725	150	2,400
1989	950	125	450	200	2,425
1990	950	125	460	225	2,425
1991	900	125	625	290	2,300
Kauai County:					
1981	375	275	200	50	1,475
1989	400	225	175	60	1,175
1990	400	225	200	60	1,140
1991	400	225	215	75	1,140

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 565.-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES
OR ISLANDS: 1981, 1989, 1990, AND 1991

[\$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:						
1981	489,502	401,348	207,500	89,745	104,103	88,154
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	553,979	463,844	174,900	107,775	181,169	90,135
Hawaii County:						
1981	163,730	140,712	76,800	-	63,912	23,018
1989	207,445	174,741	56,900	-	117,841	32,704
1990	198,564	169,147	55,000	-	114,147	29,417
1991	182,459	149,070	43,600	-	95,470	33,389
Maui County:						
1981	115,295	103,690	50,500	39,915	13,275	11,605
1989	133,042	124,781	66,400	32,863	25,518	8,261
1990	151,519	142,685	69,600	43,388	29,697	8,834
1991	144,397	134,444	57,900	45,700	30,844	9,953
Oahu:						
1981	115,295	105,222	34,200	49,830	21,192	48,287
1989	179,670	133,608	35,500	65,447	32,661	46,062
1990	180,772	135,588	36,800	62,977	35,791	45,184
1991	170,725	128,899	30,600	62,075	36,224	41,826
Kauai County:						
1981	56,968	51,724	46,000	(Z)	5,724	5,244
1989	64,891	60,131	51,500	(Z)	8,631	4,760
1990	64,175	59,166	52,400	(Z)	6,766	5,009
1991	56,398	51,431	42,800	(Z)	8,631	4,967

Z Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual) and records.

Table 566.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1981, 1990 AND 1991

Subject	1981	1990	1991
Acreage in crop (1,000 acres):			
Sugarcane	216.1	162.0	155.6
Pineapples (land used for pineapple)	41.0	30.9	28.4
Vegetables and melons (harvested acreage) ..	4.2	5.3	5.2
Fruits, excluding pineapples	5.4	7.0	6.9
Coffee	1.8	5.3	<u>1/</u> 2.3
Macadamia nuts	13.8	22.6	22.5
Miscellaneous crops	9.0	4.6	5.5
Number of crop farms:			
Sugar	360	55	55
Pineapples	18	10	10
Vegetables and melons	583	485	490
Fruits (excluding pineapples)	657	735	800
Coffee	625	630	<u>1/</u> 615
Macadamia nuts	490	690	690
Taro	123	140	180
Flowers and nursery products	680	710	735
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	8,831	6,538	5,857
Pineapples, fresh equivalent (1,000 tons) ..	636	575	555
Vegetables and melons (1,000 lb.)	73,330	84,920	91,660
Fruits, excluding pineapples (1,000 lb.) ...	83,010	107,310	83,960
Coffee, parchment (1,000 lb.)	2,210	2,800	<u>1/</u> 2,300
Macadamia nuts, in shell (1,000 lb.)	33,360	50,000	49,500
Taro (1,000 lb.)	6,100	5,800	7,000
Value of crop sales (\$1,000):			
Sugar (unprocessed cane)	207,500	213,800	174,900
Pineapples (fresh equivalent)	89,745	106,365	107,775
Vegetables and melons	21,669	35,825	38,660
Fruits (excluding pineapples)	15,516	24,079	24,330
Coffee (parchment)	4,420	<u>2/</u> 7,560	<u>1/</u> 4,600
Macadamia nuts (in shell)	26,454	41,000	34,650
Taro	1,305	2,262	3,010
Field crops (not estimated separately)	5,107	5,052	<u>2/</u> 7,591
Flowers and nursery products	29,482	70,393	68,078

1/ Excludes Kauai.

2/ Includes Kauai coffee value.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 567.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1991

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	56.1	42.5	23.0	34.0
Pineapples (land used for pineapple)	-	15.7	12.7	(1/)
Vegetables and melons (harvested acreage)	1.5	2.7	0.9	0.1
Fruits, excluding pineapples	5.3	0.2	0.7	0.7
Coffee	(D)	(D)	-	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
Miscellaneous crops	1.8	2.0	0.8	0.9
Number of crop farms:				
Sugar	45	2	3	5
Pineapples	-	5	2	3
Vegetables and melons	260	85	125	20
Fruits (excluding pineapples)	575	55	120	50
Coffee	(D)	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	-	(D)
Taro	100	23	7	50
Flowers and nursery products	335	120	230	50
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	1,725	1,693	1,012	1,427
Pineapples, fresh equivalent (1,000 tons)	-	334	221	(2/)
Vegetables and melons (1,000 lb.)	32,570	47,380	11,140	570
Fruits, excluding pineapples (1,000 lb.)	71,455	665	4,480	7,360
Coffee, parchment (1,000 lb.)	2,300	-	-	(D)
Macadamia nuts, in shell (1,000 lb.)	(D)	(D)	(D)	(D)
Taro (1,000 lb.)	1,380	(D)	(D)	4,000
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	43,600	57,900	30,600	42,800
Pineapples (fresh equivalent)	-	45,700	62,075	(3/)
Vegetables and melons	15,404	15,010	7,891	355
Fruits (excluding pineapples)	20,611	292	1,881	1,546
Coffee (parchment)	4,600	-	-	(D)
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	552	(D)	(D)	1,744
Flowers and nursery products	31,329	7,975	26,238	2,536

D Withheld to avoid disclosure of individual operations.

1/ Less than 500 acres.

2/ Less than 500 tons.

3/ Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1991.

Table 568.-- VEGETABLES, MELONS, FRUITS, NUTS, COFFEE, AND TARO: 1991

[Data shown for crops with sales in excess of \$1,000,000]

Crop	Acreage harvested <u>1/</u>	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	460	17.8	8,200	23.1	1,894
Head cabbage	620	24.0	14,900	19.7	2,935
Cucumbers	250	14.8	3,700	46.0	1,702
Ginger root	250	48.0	12,000	63.0	7,560
Lettuce (head, semi-head)	240	12.5	3,000	43.0	1,290
Dry onions	115	11.3	1,300	105.0	1,365
Green onions	210	7.6	1,600	97.0	1,552
Green peppers	170	11.3	1,920	63.5	1,219
Tomatoes	250	24.0	6,000	52.0	3,120
Watermelons	580	24.3	14,100	14.4	2,030
Watercress	40	...	1,400	115.0	1,610
Sweet corn	465	5.4	2,500	42.2	1,055
Daikon	250	15.2	3,800	28.2	1,072
Fruits:					
Bananas	890	12.8	11,400	41.0	4,674
Guavas	900	...	14,000	14.6	2,044
Papayas	2,025	27.3	55,350	29.3	16,228
Macadamia nuts (1991-1992)	18,200	2.7	53,900	64.3	34,650
Coffee (1991-1992) <u>2/</u>	2,300	1.4	2,300	200.0	4,600
Taro	600	...	7,000	43.0	3,010

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 1991.

Table 569.-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1972 TO 1991

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

Source: Hawaiian Sugar Planters' Association, records; Alexander & Baldwin, Inc., "Water to the Roots," Ampersand, Spring 1987, pp. 3-6.

Table 570.-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU,
BY SOURCE: 1989 TO 1991

[1,000 pounds, net]

Source	1989	1990	1991
Total arrivals	303,526	290,606	291,626
From Hawaii	91,881	88,631	86,410
Oahu <u>1/</u>	33,314	29,215	26,347
Other islands <u>2/</u>	58,567	59,416	60,063
Hawaii <u>2/</u>	30,203	27,123	26,853
Maui <u>2/</u>	15,388	15,137	15,565
Molokai <u>2/</u>	12,667	16,938	17,457
Kauai <u>2/</u>	309	218	188
From U.S. Mainland <u>2/</u>	205,915	194,610	198,149
From foreign countries <u>2/</u>	5,730	7,365	7,067

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 (June 1991), table 1, and records.

Table 571.-- GOVERNMENT PAYMENTS FOR AGRICULTURE: 1982 TO 1991

[\$1,000]

Year	Amount	Year	Amount	Year	Amount
1982	586	1986	2,810	1989	396
1983	6,775	1987	344	1990	657
1984	2,675	1988	465	1991	730
1985	1,184				

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 572.-- LIVESTOCK INVENTORY, 1981 TO 1991, AND BY GEOGRAPHIC AREAS, 1991

[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
1981	228	13	55	1,242	7
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
GEOGRAPHIC AREAS: 1991					
Hawaii County	136.0	1.7	2.6	(D)	(NA)
Maui	27.7	0.9	8.3	(D)	(NA)
Molokai and Lanai	7.2	-	0.7	(D)	(NA)
Oahu	18.0	7.3	19.3	982	(NA)
Kauai County	11.1	0.5	4.0	(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.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 573.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES: 1981, 1990 AND 1991

Subject	1981	1990 <u>1/</u>	1991
Number of livestock operations, Dec. 31:			
Cattle <u>2/</u>	900	900	900
Hogs	650	500	450
Milk	80	80	80
Eggs	55	55	55
Broilers	10	8	8
Honey	28	12	13
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) <u>3/</u>	28,666	29,071	27,328
Pork (dressed weight; 1,000 lb.)	8,708	6,850	6,059
Milk (million lb.)	147.9	148.6	138.8
Eggs (million)	221.3	227.5	224.5
Broilers and chickens (1,000 lb.) <u>4/</u>	9,046	7,266	5,545
Honey (1,000 lb.)	875	1,570	1,310
Value of livestock sales (\$1,000):			
Cattle <u>5/</u>	28,405	28,735	32,667
Hogs <u>5/</u>	8,382	7,252	6,463
Milk	30,320	30,760	30,328
Eggs	15,159	16,115	15,996
Broilers and chickens	5,307	4,334	3,386
Other <u>6/</u>	581	1,248	1,295

1/ Revised from Data Book 1991, table 564.

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.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 574.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1991

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	-	-	7	1
Honey	9	2	-	2
Volume of livestock marketings:				
Beef <u>2/</u> (dressed weight; 1,000 lb.)	22,087	3,130	1,021	1,090
Pork (dressed weight; 1,000 lb.)	472	1,490	3,380	717
Milk (million lb.)	(D)	(D)	99.2	(D)
Eggs (million)	(D)	(D)	177.3	(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>	26,864	3,787	886	1,130
Hogs <u>4/</u>	507	1,609	3,515	832
Milk	(D)	(D)	21,913	(D)
Eggs	(D)	(D)	12,456	(D)
Broilers and chickens	(D)	(D)	(D)	(D)
Other <u>5/</u>	848	167	50	230

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 1991.

Table 575.-- FLORICULTURE AND NURSERY PRODUCTS, 1989 TO 1991,
AND BY ISLANDS, 1991

Island and year	Number of farms	Growing area					Wholesale value (\$1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1989	710	2,206	3,615	25,395	50	1,490	62,206
1990	710	2,364	3,950	24,775	35	1,670	70,393
1991	735	2,555	4,095	27,715	35	1,790	68,078
Islands, 1991:							
Hawaii	335	1,361	2,855	17,230	35	865	31,329
Kauai	50	124	60	325	-	115	2,536
Maui/Molokai .	120	475	340	1,190	0	440	7,975
Oahu	230	595	840	8,970	0	370	26,238

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (July 28, 1992), pp. 10 and 13.

Table 576.-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1987 TO 1991

[\$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

Type	1987	1988	1989	1990	1991
Total sales ...	31,904	33,042	37,475	37,734	40,920
Anthuriums, cut	9,170	8,816	9,280	11,185	10,595
Foliage, potted	8,935	8,609	8,130	8,525	9,595
Other flowers, nursery products .	13,799	15,617	20,065	18,024	20,730

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers and Nursery Products, Annual Summary (July 28, 1992), p. 15.

Table 577.-- FLORICULTURE AND NURSERY PRODUCTS, BY COMMODITY: 1991

[Shown for commodities with value of sales over \$750,000]

Commodity	Number of farms	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	133	1,000 dozens	972	6,707
Birds of Paradise	57	1,000 dozens	150	841
Ginger, pink	88	1,000 dozens	98	710
Ginger, red	110	1,000 dozens	154	791
Heliconias	108	1,000 dozens	154	1,052
Proteas	39	1,000 stems	1,125	766
Roses, Tea	13	1,000 dozens	656	3,234
Orchids:				
Sprays: Dendrobium	77	1,000 dozens	416	2,980
Potted: Dendrobiums	73	1,000 pots	580	3,061
Lei flowers:				
Carnations	19	Million blooms	22.6	1,178
Dendrobiums	52	Million blooms	27.8	808
Tuberose	10	Million blooms	(D)	(D)
Foliage:				
Potted, primarily for--				
Indoor or patio use	84	...	(NA)	14,148
Landscape use	61	...	(NA)	3,620
Unfinished stock (for further growing on)	38	...	(NA)	1,410
Potted flowering plants:				
Chrysanthemums	6	1,000 pots	284	1,082
Poinsettias	32	1,000 pots	320	1,234
Ornamentals and trees	57	...	(NA)	4,550
Plant rentals	44	...	(NA)	3,887

D Withheld to avoid disclosure of individual operations.

NA Not available.

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (July 28, 1992), pp. 3-9.

Table 578.-- MARKET SUPPLY OF SPECIFIED FOODS: 1981, 1990, AND 1991

Commodity and year	Total market supply <u>1/</u>			Per capita market supply <u>2/</u>	Percent from Hawaii
	Total	Inship-ment	Hawaii		
Fresh market fruits:					
1981	82,439	61,556	20,883	77.6	25.3
1990	200,948	89,753	111,195	159.7	55.3
1991	173,628	90,018	83,610	135.9	48.2
Fresh market vegetables:					
1981	174,567	105,052	69,515	164.3	39.8
1990	218,538	149,638	68,900	173.7	31.5
1991	229,355	153,130	76,225	179.5	33.2
Beef and veal: <u>3/</u>					
1981	94,792	66,126	28,666	89.2	30.2
1990	111,537	82,466	29,071	88.7	26.1
1991	114,320	86,992	27,328	89.5	23.9
Pork: <u>3/</u>					
1981	34,632	25,924	8,708	32.6	25.1
1990	41,762	34,912	6,850	33.2	16.4
1991	42,934	36,875	6,059	33.6	14.1
Chickens:					
1981	32,896	23,850	9,046	31.0	27.5
1990	48,929	41,663	7,266	38.9	14.9
1991	49,304	43,759	5,545	38.6	11.2
Eggs:					
1981	20,906	2,464	18,442	19.7	88.2
1990	21,462	2,504	18,958	17.1	88.3
1991	21,153	2,445	18,708	16.6	88.4

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 3.

3/ Carcass weight equivalent.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 579.-- LAND EVALUATION RATING, FOR SIX MAJOR ISLANDS: 1985

[Thousand acres. The Land Evaluation and Site Assessment Commission land evaluation rating is a composite index, scaled from 0 to 100, based on measurements of soil productivity and the suitability of land for agricultural purposes. Data exclude Kahoolawe, Niihau, Lehua, Kaula, and the Northwestern Hawaiian Islands]

Land evaluation rating	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total area	4,042	2,579	466	90	166	386	355
90 to 100	66	-	17	3	7	39	-
80 to 89	137	17	39	11	16	33	20
70 to 79	189	95	20	2	6	27	40
60 to 69	212	125	36	(Z)	9	22	20
50 to 59	221	113	64	3	10	12	18
40 to 49	309	227	40	6	10	18	7
30 to 39	605	543	29	1	3	11	17
20 to 29	492	282	55	48	50	30	26
10 to 19	1,813	1,176	165	15	55	194	206
Under 10	-	-	-	-	-	-	-
Mean rating ...	32.8	29.8	40.8	36.7	37.6	40.1	32.9

Z Less than 500 acres.

Source: Land Evaluation and Site Assessment Commission, A Report on the State of Hawaii Land Evaluation and Site Assessment System (February 1986), Exhibit A.

Table 580.-- 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 581.-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 1991

Year	Number of operations, Dec. 31		Acreage, Dec. 31	Produc- tion (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

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Table 582.-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION, AND VALUE,
BY COUNTIES: 1991

Subject	State total	Hawaii	Maui	Honolulu	Kauai
Number of operations ...	71	21	8	27	15
Prawn producers	12	-	-	10	2
Acreage (Dec. 31)	595	84	15	470	26
Production (1,000 lb.)..	1,206.6	581.7	32.0	589.9	3.0
Shellfish	389.0	(NA)	32.0	354.0	3.0
Finfish	319.8	222.7	(NA)	97.1	(NA)
Algae	497.8	359.0	(NA)	138.8	(NA)
Other <u>1/</u>	(NA)	(NA)	(NA)	(NA)	(NA)
Value (\$1,000)	6,884.0	3,599.5	145.0	3,117.0	22.5
Shellfish	2,075.0	212.5	145.0	1,695.0	22.5
Finfish	1,287.9	846.5	(NA)	441.4	(NA)
Algae	2,698.6	2,320.0	(NA)	378.6	(NA)
Other <u>1/</u>	822.5	220.5	(NA)	602.0	(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-1991. 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 60 square miles in fiscal 1991.

The commercial fish catch in fiscal year 1991 amounted to 22 million pounds, with a value of \$53 million to primary producers. Ahi (yellowfin and bigeye tuna) and aku (skipjack) accounted for 42 percent of the total value. Other important species are swordfish, marlin, spiny lobster, opakapaka, mahimahi, akule, and ono. Commercial fishermen numbered 4,043. Among Marine Life Conservation Districts, those with the most fish per acre were Honolulu Bay (5,676), Hanauma Bay (2,945), and Manele-Hulopoe Bay (2,757).

The value of mineral production reached \$100 million in 1991, almost all of it in cement (\$49 million) and crushed stone (\$48 million). The 1990 total, \$106 million, was an all-time high.

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: 1992, Sections 24 and 25.

Table 583.-- FOREST AND NATURAL AREA ACREAGE: JUNE 30, 1991

Island	Conservation district forest land		Planted forest		Natural areas <u>3/</u>	
	Forest reserve land <u>1/</u>	Private forest land <u>2/</u>	Planted in preceding year	Total standing	Number of areas	Acres
State total ..	639,298	327,845	218	46,071	21	122,703
Hawaii	438,416	106,745	202	17,178	9	86,135
Maui	73,227	53,180	-	11,837	4	17,123
Kahoolawe	-	-	-	-	-	-
Lanai	-	6,150	-	512	-	-
Molokai	16,030	-	-	3,219	2	2,950
Oahu	28,626	87,920	13	7,097	3	1,770
Kauai	82,999	73,850	3	6,228	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 584.-- WOODLAND ON FARMS, 1978 TO 1987, AND BY COUNTIES, 1987

[Acres]

Use	1978	1982	1987				
			State total	Hawaii	Maui	Hono-lulu	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 585.-- 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 586.-- FOREST LAND, TIMBERLAND AREA, VOLUME OF SAWTIMBER,
AND GROWING STOCK: JANUARY 1, 1987

Subject	1,000 acres	Subject	Amount
Total forest land	1,748	Sawtimber, net volume:	
Timberland	700	Total (mil. bd. ft.)	1,196
Federal	-	Softwood (mil. bd. ft.)	18
State or county	338	Growing stock, net volume:	
Private	362	Total (mil. cu. ft.)	280
		Softwood (mil. cu. ft.)	4

Source: U.S. Forest Service, cited in Statistical Abstract of the United States: 1990, p. 672.

Table 587.-- FOREST AND BRUSHLAND FIRES, 1989 TO 1991, AND BY
COUNTIES, 1991

[Years ended June 30]

Subject	1989	1990	1991, by counties				
			State total	Hawaii	Maui	Hono- lulu	Kauai
Number of fires ..	82	210	205	94	50	55	6
Acres burned	6,585	3,384	38,352	21,258	14,347	2,733	14

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

Table 588.-- COMMERCIAL FISHING: 1970 TO 1991

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch ^{1/}		
		Pounds landed	Pounds sold	Value to primary producers (dollars)
1970	1,264	9,786,726	9,588,319	3,585,166
1971	1,373	15,176,525	14,945,539	4,633,875
1972	1,544	15,577,669	15,246,519	5,536,521
1973	1,677	14,029,491	13,719,284	5,676,783
1974	2,085	13,997,774	13,660,574	6,234,924
1975	1,991	10,801,441	10,404,019	6,242,614
1976	2,283	11,893,141	11,332,659	7,508,395
1977	2,368	15,298,515	14,763,816	9,433,781
1978	2,574	13,672,061	13,139,142	11,115,964
1979	2,447	12,310,524	11,890,241	12,673,328
1980	2,525	10,418,964	9,946,065	10,497,456
1981	2,577	10,890,468	10,465,731	11,828,575
1982	2,525	9,178,789	8,824,348	10,754,276
1983	2,480	7,841,959	7,529,178	10,506,860
1984	2,940	9,819,800	9,344,200	13,556,184
1985	2,638	9,436,591	9,077,357	15,901,656
1986	2,880	9,503,193	9,081,881	18,557,533
1987	3,008	12,128,527	11,628,387	20,477,699
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

^{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 589.-- COMMERCIAL FISH CATCH, BY SPECIES: 1991

[Year ended June 30, 1991]

Species <u>1/</u>	Pounds caught	Pounds sold	Value (dollars)
Total catch	22,264,343	21,380,976	53,412,797
Sea catch, all species <u>2/</u>	22,241,647	21,358,520	53,360,933
Tunas	9,460,495	9,130,192	23,253,030
Aku (Skipjack)	1,667,798	1,566,664	2,187,081
Ahipalaha	450,485	443,807	644,934
Bigeye (ahi)	3,268,211	3,209,240	11,112,577
Yellowfin (ahi)	4,049,272	3,893,424	9,285,946
Billfishes	8,252,987	7,959,614	18,337,731
Blue marlin	1,227,965	1,141,432	936,890
Striped marlin	1,159,320	1,140,286	1,237,635
Swordfish	5,660,278	5,484,004	15,968,621
Miscellaneous pelagic species .	1,708,732	1,619,264	3,035,347
Mahimahi	1,003,934	955,589	1,757,048
Ono	400,001	361,652	884,763
Deep bottom fishes	818,956	768,546	2,687,026
Opakapaka	214,954	207,730	864,783
Uku	194,570	189,593	572,459
Ulaula	137,610	133,615	685,325
Akule/opelu	958,298	916,948	1,574,953
Akule	653,563	618,591	1,078,075
Opelu	304,735	298,357	496,878
Jacks	225,335	210,618	352,077
Inshore fishes	265,827	230,766	503,240
Sharks	146,111	133,826	101,090
Lobsters	219,221	215,808	2,883,028
Spiny lobster	173,395	172,429	2,432,145
Slipper lobster	45,826	43,379	450,883
Crabs	45,238	42,042	194,657
Shrimps	69,696	69,668	318,643
Shrimp laevigatus	69,602	69,574	318,168
Other animals	46,194	39,343	69,981
Seaweeds	9,752	8,018	34,167
Miscellaneous	14,805	13,867	15,963
Pond landings, all species	22,696	22,456	51,864

1/ Shown separately for all species over 250,000 lb. or \$250,000.

2/ Including species not shown separately.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings, State of Hawaii--Fiscal Year 1990-1991.

Table 590.-- COMMERCIAL SEA LANDINGS, BY ISLANDS: 1991

[Year ended June 30, 1991]

Island	Pounds landed	Pounds sold	Value (dollars)
State total	22,241,647	21,358,520	53,360,933
Hawaii	2,808,944	2,677,643	4,739,968
Maui	664,697	537,777	1,212,777
Lanai	24,171	20,059	45,437
Molokai	55,937	44,489	132,624
Oahu	17,614,870	17,164,968	45,165,587
Kauai and Niihau	1,073,028	913,584	2,064,540

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings, State of Hawaii--Fiscal Year 1990-1991.

Table 591.-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD: 1991

[Year ended June 30, 1991]

Fishing method	Pounds landed	Pounds sold	Value (dollars)
All methods	22,241,647	21,358,520	53,360,933
Aku pole and line	1,274,451	1,274,385	1,710,584
Longline	14,150,055	13,872,919	36,316,227
Handline	2,689,274	2,577,860	6,196,570
Trolling	2,936,552	2,516,372	4,439,943
Net	758,189	707,223	1,171,927
Trap	331,914	328,481	3,317,380
All other methods	101,212	81,280	208,302

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings, State of Hawaii--Fiscal Year 1990-1991.

Table 592.-- FISH POPULATIONS AROUND SELECTED SHORELINE AREAS:
YEAR ENDED JUNE 30, 1992

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu	100	2,945	685
Pupukea, Oahu	74	2,011	161
Molokini Shoal, Maui	97	2,219	388
Honolua Bay, Maui	70	5,676	1,285
Manele-Hulopoe Bays, Lanai	97	2,757	352
Wailea Bay, Hawaii	60	1,527	241
Lapakahi, Hawaii	38	1,552	281
Kealakekua Bay, Hawaii	62	2,710	287
Old Kona Airport, Hawaii	40	2,451	117
Artificial reefs:			
Maunalua Bay, Oahu (tire modules) .	(NA)	(NA)	855
Waianae, Oahu (tire modules)	(NA)	(NA)	1,202
Keawakapu, Maui	(NA)	(NA)	595
Fisheries Management Areas:			
Red Hill, Hawaii	52	3,633	369
Honokohau, Hawaii	38	2,050	245
Keahu O Lu	60	4,434	354
Other areas:			
Kure Atoll, NWHI	95	5,006	922
Honaunau Bay, Hawaii	62	1,854	160
Kapalua Bay, Maui	73	3,786	880

NA Not available.
Source follows next table.

Table 593.--MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED
LOCATIONS: YEAR ENDED JUNE 30, 1992

[Three leading species at each location, based on both individuals per acre
and pounds per acre]

Location and species	Individuals per acre		Pounds per acre	
	Rank	Number	Rank	Number
Hanauma Bay MLCD, Oahu:				
Parrotfishes (scaridae)	1	294	9	16
Saddle-back wrasse (thalassoma duperrey) ...	2	270	10	15
Manini (acanthurus triostegus)	3	245	6	31
Pualu (acanthurus xanthopterus)	8	85	1	105
Redlip parrot (scarus rubroviolaceus)	(1/)	(NA)	2	74
Nenue (kyphosus bigibbus)	(<u>1</u> /)	(NA)	3	64
Pupukea MLCD, Oahu:				
Blackfin damsel (chromis vanderbilti)	1	399	(<u>1</u> /)	(NA)
Maiii (acanthuras nigrofuscus)	2	270	1	17
Saddle-back wrasse (thalassoma duperrey) ...	3	212	4	12
Maikoiko (acanthurus lecopareius)	10	54	2	17
Naenae (acanthurus olivaceus)	9	61	3	16
Kapalua, Maui:				
White weke (mulloides flavolineatus)	1	1,196	1	313
Saddle-back wrasse (thalassoma duperrey) ...	2	376	4	59
Parrotfishes (scaridae)	3	258	7	28
Clown tang (nasolituratus)	(1/)	(NA)	2	111
Naenae (acanthurus olivaceus)	(<u>1</u> /)	(NA)	3	79

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, 1991 to June 30, 1992.

Table 594.-- MINERAL INDUSTRIES: 1958 TO 1987

[Excluding mines at manufactures]

Subject	1958	1963	1967	1972	1977	1982	1987
Number of establishments <u>1/</u>	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 595.-- NONFUEL MINERAL PRODUCTION: 1989 TO 1991

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Minerals	1989	1990 <u>1/</u>	1991 <u>2/</u>
QUANTITY (1,000 SHORT TONS)			
Cement:			
Masonry	10	12	10
Portland	493	532	560
Gem stones	(NA)	(NA)	(NA)
Sand and gravel (construction)	*600	438	400
Stone (crushed)	6,205	*7,000	6,000
VALUE (\$1,000)			
Total	92,051	106,095	100,280
Cement:			
Masonry	1,566	1,870	1,600
Portland	40,495	46,311	48,720
Gem stones	44	55	60
Sand and gravel (construction)	*3,200	2,459	2,300
Stone (crushed)	46,746	*55,400	47,600

* Estimated.

NA Not available.

1/ Revised.

2/ Preliminary.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1991," Mineral Industry Surveys (1992).

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 26,000 building permits issued in 1991, with an estimated value of \$2.4 billion. The total included \$1.2 billion for new private residential construction, \$158 million for hotels, and \$393 million for private nonresidential structures. The value of government construction contracts awarded was \$687 million. Construction put in place, as indicated by the contracting tax base, totaled \$4.0 billion in 1992. The value of land transfers in fiscal 1992 was \$4.0 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 98,000 by 1987, 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 1992, based on Multiple Listing Service data, was \$349,000; 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, postal vacancy surveys sponsored by the Federal Home Loan Bank of Seattle, 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: 1992.

Table 596.-- NUMBER AND VALUE OF BUILDING PERMITS,
BY COUNTIES: 1981 TO 1991

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1981	21,395	15,141	3,427	1,276	1,551
1982	16,974	11,743	2,581	1,214	1,436
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
ESTIMATED VALUE (\$1,000)					
1981	898,428	550,254	136,617	67,844	143,713
1982	714,938	493,139	75,715	55,380	90,704
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

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 597.-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES: 1991

[Thousands of dollars. Limited to private construction, including additions, alteration, and repairs]

Category	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County <u>1/</u>
Total	2,148,465	1,456,851	369,453	118,410	203,751
Residential	1,191,851	721,693	296,525	65,345	108,288
Hotel	157,532	152,300	1,047	-	4,185
Non-residential	393,223	275,571	39,338	35,694	42,619
Additions and alterations	405,859	307,287	32,543	17,370	48,659

1/ Preliminary.

Source: Calculated by Hawaii State Department of Business, Economic Development & Tourism from county 'Monthly Cooperative Report of Local Construction' submitted to F.W. Dodge Division, McGraw-Hill Information Systems Company.

Table 598.-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1982 TO 1992

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

Year <u>1/</u>	Amount	Year <u>1/</u>	Amount	Year <u>1/</u>	Amount
1982 ...	1,294,871	1986 ...	1,808,024	1990 ...	4,003,650
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		

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 599.-- 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 600.-- 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 601.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND
SUBDIVIDERS AND DEVELOPERS, BY INDUSTRY: 1987

[Includes establishments both with and without payroll]

1987 SIC code	Industry	Number	Proprie- tors and working partners	All em- ployees (average)	Value of business done (\$1,000)
	Construction industries and subdividers and developers	5,796	4,310	21,706	3,233,759
15-17	Construction industries	5,605	4,147	21,385	3,104,309
15	Building construction--General contractors and operative builders	1,346	828	(D)	(D)
16	Heavy construction other than building construction-- contractors	136	44	2,745	402,471
17	Special trade contractors	4,123	3,275	(D)	(D)
6552	Land subdividers and developers, n.e.c. <u>1/</u>	183	161	309	129,444

D Withheld to avoid disclosing data for individual companies.

1/ For establishments without payroll, may also include data for an
unknown number of cemetery subdividers and developers.

Source: U.S. Bureau of the Census, 1987 Census of Construction Industries,
Pacific States, CC87-A-9 (July 1990), Hawaii table 1.

Table 602.-- 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 603.-- ESTIMATED VALUE PER HOUSING UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1986 TO 1991

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1986	1987	1988	1989	1990	1991
One-family	80,119	80,719	101,649	109,519	144,090	168,666
Two-family	59,184	64,490	69,465	84,415	133,905	173,586
Multi-family	47,789	42,507	81,169	100,462	68,363	155,223

Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual tabular release).

Table 604.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1987 TO 1991

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
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
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
Units demolished: <u>1/</u>						
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

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 605.-- HONOLULU CONSTRUCTION COST INDEXES: 1971 TO 1992

[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 (Sept) .	104.3	106.9	101.4	99.6	97.5	101.5

1/ Wages and benefits.

Source: First Hawaiian Bank, Research Department, records.

Table 606.-- 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 607.-- 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 608.-- CONDOMINIUM AND COOPERATIVE HOUSING UNITS, BY COUNTIES: 1987

Type of housing unit	State total	Honolulu	Maui	Hawaii	Kauai
Condominium units ^{1/}	98,111	74,325	14,100	5,629	4,057
Cooperative units	2,832	2,738	94	-	-

^{1/} Includes some nonresidential condominium units.
Source follows next table.

Table 609.-- CONDOMINIUM HOUSING UNITS, TOTAL AND OWNER OCCUPIED, BY LAND OWNERSHIP, BY COUNTIES: 1987

[Includes some nonresidential condominium units]

Ownership of land and condominium unit	State total	Honolulu	Maui	Hawaii	Kauai
All condo units	98,111	74,325	14,100	5,629	4,057
On fee simple land	34,856	22,988	6,462	3,314	2,092
On leased land	59,395	49,825	6,120	1,803	1,647
Other categories ^{1/}	3,860	1,512	1,518	512	318
Owner occupied condo units	26,424	25,203	753	369	99
On fee simple land	9,690	8,912	475	251	52
On leased land	16,734	16,291	278	118	47

^{1/} Such as fee and leasehold condominium units sold on agreement of sale.
Source: Legislative Reference Bureau, Ownership Patterns of Land Beneath Hawaii's Condominium and Cooperative Housing Projects (Report No. 6, 1987), pp. 8, 10-12, and 27.

Table 610.-- 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 611.-- TIME SHARE PROPERTIES AND UNITS, BY GEOGRAPHIC AREAS:
OCTOBER 18, 1990

[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
		Waikiki	Other Oahu			
Properties	63	15	2	6	16	24
Units	2,497	867	73	122	759	676

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Time Sharing Office, records.

Table 612.-- TENURE AND CONTROL OF HOUSING UNITS: ANNUALLY, 1980 TO 1992

[Data include some condominium units occupied or intended for occupancy by nonresidents]

Year	All housing units <u>1/</u>	Owner occupied units <u>2/</u>		Renter occupied and vacant units		
		Land owned	Land leased	Private <u>3/</u>	Federal <u>1/</u>	State and County <u>1/</u>
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

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 follows table 615.

Table 613.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY,
1980 TO 1992

[As of April 1. Data include some condominium units occupied
or intended for occupancy by nonresidents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	341,764	254,815	86,949	36,041	16,021	34,887
1982 ..	346,726	256,689	90,037	37,453	16,476	36,108
1983 ..	349,996	259,149	90,847	38,264	16,044	36,539
1984 ..	354,484	262,337	92,147	39,164	16,318	36,665
1985 ..	358,581	265,412	93,169	40,054	16,428	36,687
1986 ..	363,416	268,551	94,865	41,006	16,556	37,303
1987 ..	369,425	272,134	97,291	42,022	16,690	38,579
1988 ..	375,434	275,520	99,914	43,397	16,871	39,646
1989 ..	382,052	278,191	103,861	45,520	17,173	41,168
1990 ..	389,810	281,683	108,127	48,253	17,613	42,261
1991 ..	398,325	284,835	113,490	50,579	18,649	44,262
1992 ..	407,606	288,805	118,801	53,421	19,439	45,941

Source: Source follows table 615.

Table 614.-- 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 follows table 615.

Table 615.-- RESIDENT AND NONRESIDENT HOUSING UNITS, BY COUNTIES:
ANNUALLY, 1980 TO 1992

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
<u>RESIDENT 1/</u>						
1980	322,598	247,152	75,446	33,594	13,395	28,457
1981	327,570	249,176	78,394	34,782	14,165	29,447
1982	332,326	251,002	81,324	35,969	14,797	30,558
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
<u>NONRESIDENT 2/</u>						
1980	11,637	4,886	6,751	621	1,433	4,697
1981	14,194	5,639	8,555	1,259	1,856	5,440
1982	14,400	5,687	8,713	1,484	1,679	5,550
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

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, 1992 Visitor Plant Inventory Report.

Table 616.-- SELECTED HOUSING CHARACTERISTICS: 1980 AND 1990

[Data for 1980 include most condominium units used or intended for use by transients; 1990 data apparently exclude most such units]

Subject	1980	1990	Percent change
Total housing units	334,235	389,810	16.6
Occupancy and tenure:			
Occupied housing units	294,052	356,267	21.2
Owner occupied	151,954	191,911	26.3
Percent owner occupied	51.7	53.9	(X)
Renter occupied	142,098	164,356	15.7
Vacant housing units	40,183	33,543	-16.5
For seasonal, recreational, or occasional use	6,431	12,806	99.1
Homeowner vacancy rate (percent)	1.4	0.8	(X)
Rental vacancy rate (percent)	10.3	5.4	(X)
Persons per owner-occupied unit	3.41	3.19	-6.5
Persons per renter-occupied unit	2.87	2.78	-3.1
Units with 1.01 or more persons per room	44,905	56,708	26.3
Percent of all occupied units	15.3	15.9	(X)
Units in structure: <u>1/</u>			
1-unit, detached	158,174	202,990	28.3
1-unit, attached	13,562	34,041	151.0
2 to 4 units	33,386	24,182	-27.6
5 to 9 units	22,874	22,258	-2.7
10 or more units	103,791	100,238	-3.4
Mobile home, boat, other <u>2/</u>	418	6,101	1,359.6
Number of rooms: <u>1/</u>			
Median	4.4	(NA)	(NA)
Mean	(NA)	4.4	(NA)
Value of house and lot: <u>3/</u>			
Specified owner-occupied units	109,334	144,431	32.1
Less than \$50,000	9,186	3,339	-63.7
\$50,000 to \$99,999	31,651	13,111	-58.6
\$100,000 to \$149,999	35,660	16,706	-53.2
\$150,000 to \$199,999	18,699	21,119	12.9
\$200,000 to \$299,999	14,138	39,679	537.7
\$300,000 or more		50,477	
Median (dollars)	118,100	245,300	107.7

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Table 616.-- SELECTED HOUSING CHARACTERISTICS: 1980 AND 1990 -- Con.

Subject	1980	1990	Percent change
Contract rent:			
Specified renter-occupied units paying cash rent	122,095	139,266	14.1
Less than \$250	52,504	15,119	-71.2
\$250 to \$499	57,961	36,779	-36.5
\$500 to \$749	} 11,630	{ 43,763	} 651.2
\$750 to \$999		{ 25,164	
\$1,000 or more		{ 18,441	
Median (dollars)	271	599	121.0

X Not applicable.

NA Not available.

1/ Data for 1980 exclude vacant seasonal and migratory units.

2/ Because of rewording of census question, data for 1980 and 1990 apparently are not comparable.

3/ Data limited to single-family homes on less than 10 acres without a business or medical office on the property.

Source: U.S. Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Hawaii, HC80-1-A13 (July 1982) and Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983); 1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii, 1990 CPH-1-13 (August 1991).

Table 617.-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES: 1990

[Data include some condominium units used or intended for use by transients]

Subject	State total <u>1</u> /	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 617.-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES: 1990 -- Con.

Subject	State total <u>1/</u>	Hono- lulu	Hawaii	Kauai	Maui
VALUE OF SPECIFIED OWNER- OCCUPIED HOUSING UNITS <u>2/</u>					
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 <u>3/</u>					
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 618.-- 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

Continued on next page.

Table 618.-- 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

Continued on next page.

Table 618.-- 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 81, table 4.

Table 619.-- VACANCY AND HOMEOWNERSHIP RATES, FOR THE STATE AND HONOLULU MSA: 1986 TO 1991

[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
U.S. 1991	7.4	<u>1/</u> 7.5	1.7	<u>1/</u> 1.7	64.1	<u>1/</u> 61.4
Rank <u>2/</u>	42	57	33	51	48	57

1/ Rate for all U.S. metropolitan statistical areas.

2/ State rank among 50 States; Honolulu MSA rank among the 61 U.S. MSAs.

Source: U.S. Bureau of the Census, "Housing Vacancies and Homeownership Annual Statistics: 1991," Current Housing Reports, Series H111/91-A (April 1992), pp. 15-18 and 35-36.

Table 620.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1989

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers. Data for 1977-1981 have been adjusted to include newly completed but vacant units, omitted from base in earlier reports. No survey was published for 1984, 1985, 1987, and 1988]

Year and month	Total units	Vacant units				Units under construction
		Used and new		Used	New	
		Number	Percent			
1977: April 1/ ...	215,923	5,472	2.5	3,399	2,073	2,228
1978: March	226,103	5,178	2.3	3,312	1,866	4,820
1979: May	233,631	4,081	1.7	2,584	1,497	4,754
1980: March	238,028	5,104	2.1	3,039	2,065	3,980
1981: March	240,354	5,235	2.2	3,306	1,929	2,400
1982: March	244,077	4,130	1.7	2,665	1,465	1,087
1983: March	241,355	3,253	1.3	2,558	695	2,002
1986: May	250,500	5,750	2.3	4,593	1,157	877
1989: Apr.-May ...	257,050	3,730	1.5	3,414	316	3,027
TYPE OF UNIT: 1989						
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	-	...	...

1/ Dated March 1977 in the original report but April 1977 thereafter. For survey data for 1955-1976, see Historical Statistics of Hawaii, p. 397.

Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacancy Survey (annual), as adjusted to 1982-1989 definitions.

Table 621.-- 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 622.-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN,
CHANGING RESIDENCE IN PAST YEAR: 1979 TO 1989

[Excludes persons in institutions or barracks, in Kalawao, or on Niihau]

Year surveyed	Movers		Percent moving <u>1/</u>	
	Total	Civilians <u>2/</u>	Total	Civilians <u>2/</u>
Persons 1 year old and over:				
1979	139,025	103,705	16.2	13.3
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 <u>3/</u>	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
Household heads:				
1979	45,908	34,069	17.2	14.0
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 <u>3/</u>	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

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 623.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS: 1989

[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	334,391	281,555	50,243	15.0	2,594
Military or dependent ...	40,333	27,147	13,096	32.5	91
Military	39,268	26,409	12,768	32.5	91
Military dependent	1,065	738	328	30.8	-
Civilian	294,058	254,409	37,147	12.6	2,503

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 624.-- 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 625.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1989 TO 1991

Subject	1989	1990	1991
Total units owned by HHA, June 30 <u>1/</u>	5,723	5,723	<u>1/</u> 5,929
Occupied	5,641	5,199	5,794
Population in units, June 30	16,817	17,878	17,039
Per occupied unit	2.98	3.43	2.94
Total assets, June 30 (million dollars) ..	147	157	178
Operating revenues of HHA, fiscal year: <u>2/</u>			
Gross (\$1,000)	14,223	15,607	17,003
Net (\$1,000)	563	354	-299
Operating revenues per unit per month, fiscal year (dollars) <u>2/</u>	227.98	250.15	271.80
Rent charged per unit per month, fiscal year (dollars) <u>2/</u>	190.32	207.20	221.63

1/ Federal low-rent, 5,213; State low-rent, 716.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 626.-- HOMELESSNESS: 1992

Characteristics	Total	Home- less	Hidden homeless <u>1/</u>	At risk <u>2/</u>
Households or parties <u>3/</u>	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 <u>4/</u>	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 627.-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE OF LICENSE AND LOCATION: JUNE 1991

Type of license	Active	Inactive	Location	Active	Inactive
Total	14,626	7,580	Oahu	10,741	5,214
			Hawaii	1,605	691
Broker:			Maui	1,668	581
Individual ...	4,325	669	Kauai	589	301
Corporation or partnership	1,260	55	Molokai	48	9
Salesman	9,041	6,856	Lanai	2	2
			U.S. mainland ...	-	738
			Foreign	-	44

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, September 30, 1991.

Table 628.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES,
FOR OAHU: 1972 TO 1992

[Data include 1-family and condominium properties for all years and cooperative, commercial/industrial, business opportunities, income, and vacant properties through 1977 and from 1982 forward]

Year	Number listed	Number sold	Percent sold	Average sales price (dollars)
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 <u>1/</u> ..	9,926	5,714	57.6	82,076
1979-1980 <u>1/</u> ..	13,506	8,009	59.3	103,698
1980-1981 <u>I/</u> ..	14,090	5,553	39.4	124,897
1981 <u>2/</u>	13,799	3,735	27.1	144,227
1982	13,484	2,948	21.9	143,046
1983	13,556	4,868	35.9	142,914
1984 <u>3/</u>	13,258	4,732	35.7	141,888
1985	13,558	5,261	38.8	137,650
1986	16,047	6,467	40.3	151,985
1987	12,887	8,855	68.7	188,200
1988	14,548	9,886	68.0	201,000
1989	13,873	9,757	70.3	238,257
1990	17,097	9,243	54.1	319,500
1991	15,280	5,682	37.2	299,599
1992	13,421	5,509	41.0	292,342

1/ Year ended February 28 or 29.

2/ March through December.

3/ January 1 through December 3.

Source: Honolulu Board of Realtors, records.

Table 629.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1990 TO 1992

Year and type of property	Number listed	Number sold	Percent sold	Sales price (dollars)	
				Mean	Median
1990					
Total	17,097	9,243	54.1	319,500	...
Residential (1-family) ...	5,216	2,744	52.6	498,511	352,000
Condominium/cooperative ..	10,588	6,149	58.1	225,901	187,000
Vacant land	521	170	32.6	392,931	289,000
Multi-family	230	81	35.2	845,384	640,000
Commercial	213	46	21.6	1,221,804	430,000
Business opportunities ...	329	53	16.1	88,304	60,000
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

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 630.-- MULTIPLE LISTING SERVICE UNITS SOLD, SINGLE-FAMILY RESIDENTIAL AND CONDOMINIUM, BY SELLING PRICE RANGE, FOR OAHU: 1991 AND 1992

Selling price range	Single-family residential		Condominium	
	1991	1992	1991	1992
All properties	1,912	1,985	3,607	3,342
Less than \$50,000	-	-	4	2
\$50,000, less than \$75,000	-	1	10	12
\$75,000, less than \$100,000	-	2	50	55
\$100,000, less than \$125,000	1	1	210	167
\$125,000, less than \$150,000	6	5	426	423
\$150,000, less than \$175,000	19	15	551	502
\$175,000, less than \$200,000	54	46	730	665
\$200,000, less than \$225,000	46	50	485	493
\$225,000, less than \$250,000	77	70	374	396
\$250,000, less than \$275,000	126	136	212	170
\$275,000, less than \$300,000	242	218	140	115
\$300,000, less than \$400,000	731	787	230	210
\$400,000, less than \$500,000	251	286	95	66
\$500,000, less than \$600,000	131	157	35	26
\$600,000, less than \$700,000	76	70	12	14
\$700,000, less than \$800,000	47	41	12	11
\$800,000, less than \$900,000	27	35	8	8
\$900,000, less than \$1,000,000	11	19	5	1
\$1,000,000 or more	67	46	18	6
Median value	\$340,000	\$349,000	\$192,000	\$193,000
Mean value	\$432,338	\$411,868	\$219,338	\$211,649

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 631.-- 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]

Characteristic	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
Bishop Estate land	13,616	Three times	0.1
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 632.-- 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 633.-- CHARACTERISTICS OF PRIVATE SINGLE-FAMILY AND MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1986 TO 1991

Year	Single-family developments			Multi-family developments <u>1/</u>			
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1986 ..	1,191	4,887	1,392	159,083	858	727	108,656
1987 ..	1,393	4,721	965	164,214	798	556	105,680
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

1/ Four stories or less.

Source: Bank of Hawaii, Construction in Hawaii 1992 (1992), p. 15, as revised.

Table 634.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE: 1986 TO 1991

Year	Mortgages recorded			Fore-closures <u>1/</u> (\$1,000)	Mortgage assignments (\$1,000)	Agreements of sale (\$1,000)
	Number	Total value (\$1,000)	Average value (dollars)			
1986 ...	48,602	7,109,021	146,270	139,757	6,260	187,307
1987 ...	49,657	6,508,957	131,079	51,382	4,038	256,328
1988 ...	41,841	7,159,347	171,104	(NA)	*5,420	239,933
1989 ...	47,826	10,464,959	218,834	(NA)	(NA)	234,280
1990 ...	50,450	14,671,725	290,817	(NA)	(NA)	268,457
1991 ...	50,437	11,374,604	225,521	(NA)	(NA)	183,528

* 11 months.

NA Not available.

1/ Commercial and residential projects.

Source: Data from Title Guaranty of Hawaii and Hawaii State Bureau of Conveyances, cited in the Bank of Hawaii, Construction in Hawaii 1992 (1992), p. 27.

Table 635.-- MORTGAGE LOANS OUTSTANDING: 1966 TO 1991

[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
1966	1,138.6	1975	3,564.9	1984	7,575.4
1967	1,228.1	1976	3,959.5	1985	6,291.3
1968	1,386.9	1977	4,496.0	1986	4,614.6
1969	1,579.5	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	6,665.8
1972	2,424.2	1981	7,498.0	1990	7,782.9
1973	2,797.4	1982	7,730.1	1991	8,645.3
1974	3,210.2	1983	7,553.9		

Source: Bank of Hawaii, Hawaii 1992, Annual Economic Report (1992), p. 35.

Table 636.-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1988 TO 1991

[Years ended June 30. Data include leases, agreement of sales assignments, subleases, timeshares, etc., as well as deeds]

Subject	1988	1989	1990	1991
Number of deeds filed and recorded ^{1/}	63,836	81,289	65,858	68,357
Approximate value of land conveyed (\$1,000) ..	10,365,238	16,154,886	11,304,180	4,009,189

^{1/} Data for 1989-1991 revised from Data Book 1991, table 627, to include timeshare deeds.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 637.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES:
1989 TO 1991

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1989	1990	1991
State total	13,303,281,000	14,262,953,800	7,483,343,700
Honolulu	8,514,925,700	8,764,531,600	4,793,932,600
Maui	2,446,997,200	2,046,874,000	1,028,857,100
Hawaii	1,671,483,100	2,893,085,800	983,727,600
Kauai	669,875,000	558,462,400	676,826,400

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 638.-- 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 639.-- CHARACTERISTICS OF SINGLE FAMILY HOMES INSURED UNDER
FHA SECTION 203(B): 1990 AND 1991

Subject	1990	1991
Number insured	897	813
Proposed	382	591
Existing	515	222
Amount (\$1,000)	113,389	100,996
Averages:		
Age of structure (years)	13.5	13.9
Improved living area (square feet)	1,224	1,307
Lot size (square feet)	7,481	8,243
Number of rooms	5.6	6.0
Market price of site	67,468	*73,750
Site to value ratio (percent)	50.3	(B)
Site price per square foot (dollars)	5.45	(B)
Construction cost per square foot (dollars)	62.98	(B)
Appraised value (dollars)	163,032	182,812
Sales price per square foot (dollars)	136.01	*100.02
Annual family income (dollars)	47,317	45,151

*Sample under 25.

B Sample under 10.

Source: U.S. Department of Housing and Urban Development, Housing Information and Statistics Division, FHA Homes - 1990, pp. 31-60, and FHA Homes - 1991, pp. 31-51.

Table 640.-- SEATING CAPACITIES OF SELECTED STADIUMS,
THEATERS, AND CHURCHES: 1987-1988

Facility type and name	Seating capacity
Stadiums and sports arenas:	
Aloha Stadium	50,000
Aiea High School Stadium	9,600
Neal Blaisdell Center Arena <u>1/</u>	8,731
Leilehua High School Stadium	6,500
Waipahu High School Stadium	6,500
Brigham Young University-Hawaii Cannon Activity Center ..	6,000
University of Hawaii Baseball Stadium	4,312
Theaters and auditoriums:	
Neal Blaisdell Center Arena <u>2/</u>	8,780
Neal Blaisdell Center Exhibition Hall <u>3/</u>	5,000
Francis Wong Stadium (Hoolulu Park Complex Multi-purpose Pavilion) <u>2/</u>	4,500
Lahaina Civic Center Convention Hall <u>2/</u>	4,050
Andrews Amphitheater	4,000
Hilo Civic Auditorium <u>2/</u>	3,550
Waikiki Shell <u>4/</u>	3,257
Pearlridge West Theater complex (12 theaters)	2,160
Neal Blaisdell Center Concert Hall	2,158
Waikiki 3 Theater	1,262
Hilton Hawaiian Village Dome	1,120
Kauai War Memorial Concert Theater	1,100
Waikiki 1 and 2 Theaters (each)	982
Kapiolani Theater	760
Kennedy Theater	600
Ruger Theater	507
Churches:	
Kawaiahao Church	1,300
Central Union Church (Sanctuary)	800
St. Theresa Co-Cathedral	800
St. Andrew's Cathedral	750
St. Anthony	750
Cathedral of Our Lady of Peace	700
St. Augustine	700
Star of the Sea	700

Continued on next page.

Table 640.-- SEATING CAPACITIES OF SELECTED STADIUMS,
THEATERS, AND CHURCHES: 1987-1988 -- Con.

- 1/ Capacity in boxing configuration.
- 2/ Capacity in concert configuration.
- 3/ Capacity in reception configuration.
- 4/ Includes 1,299 temporary seating.

Source: Compiled by the Hawaii State Department of Business and Economic Development from the Honolulu Fire Department, Fire Prevention Bureau; Honolulu Building Department; officials of the facilities listed.

Table 641.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES:
DECEMBER 31, 1991

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	4,904	3,959	127	176	438	2	22	180
Elevators	4,211	3,354	100	167	401	-	20	169
Under 9 stories:								
Hydro	1,083	715	43	70	144	-	9	102
Roped	1,409	1,011	47	97	191	-	11	52
9 to 18 stories	1,059	968	10	-	66	-	-	15
19 to 28 stories	379	379	-	-	-	-	-	-
29 to 38 stories	196	196	-	-	-	-	-	-
39 stories or more	85	85	-	-	-	-	-	-
Escalators and moving walks	306	294	6	-	4	-	-	2
Inclined lifts	10	4	3	1	-	-	-	2
Private industrial elevators	11	1	-	3	7	-	-	-
Manlifts	11	10	-	1	-	-	-	-
Chair lifts	22	18	1	2	-	-	-	1
Dumbwaiters	328	276	17	1	25	2	2	5
Other facilities	5	2	-	1	1	-	-	1

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 642.-- TALLEST STRUCTURES, BY ISLANDS: MARCH 1991

Island and structure	Location	Year completed	Height	
			Stories	Feet
BUILDINGS ^{1/}				
Hawaii:				
Bayshore Towers	Hilo	1970	15	135
Maui: ^{2/}				
Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Royal Lahaina Hotel	Kaanapali	1970	12	132
Molokai: ^{2/}				
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: ^{2/}				
KMVI Radio Tower	Wailuku	1947	...	455
Lanai: ^{2/}				
Storage tanks	Manele Harbor .....	...	...	50
Molokai: ^{2/}				
KAIM Radio Tower	Kalua Koi	1981	...	410
Oahu:				
VLF Antenna	Lualualei	1972	...	1,503
Kauai:				
Communication Engineers Tower	Mana	1964	...	400

^{1/} Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

^{2/} As of March 1990.

Source: Compiled by DBED 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.

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 1992, the general excise and use tax base for diversified manufacturing (that is, manufacturing exclusive of sugar processing, pineapple canning, and petroleum refining) was \$714 million. There were two pineapple canneries and 12 sugar mills in Hawaii in 1992. Canned and fresh pineapple sales in 1991 totaled \$225 million. Sugar production in 1991 amounted to 724,000 short tons, the lowest total in 45 years. The value of sugar production (including commercial molasses) in 1991 was \$271 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: 1992.

Table 643.-- STATISTICAL SUMMARY OF MANUFACTURES: 1963 TO 1990

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 manu- facture <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 643.-- STATISTICAL SUMMARY OF MANUFACTURES: 1963 TO 1990--Con.

Subject	1986	1987	1988	1989	1990
All establishments: <u>1/</u>					
Total	(NA)	1,022	(NA)	(NA)	(NA)
With 20 employees or more	(NA)	225	(NA)	(NA)	(NA)
All employees:					
Number (1,000)	23.1	22.2	21.7	20.5	20.7
Payroll (million dollars)	424.0	440.2	452.4	432.6	476.7
Production workers:					
Number (1,000)	15.7	15.2	14.3	13.0	13.2
Hours (millions)	29.0	28.8	27.4	25.2	26.1
Wages (million dollars) .	239.3	254.2	255.0	244.2	263.1
Value added by manufac- ture <u>2/</u> (million dollars)	1,173.9	1,405.3	1,376.8	1,609.8	1,557.5
Cost of materials <u>3/</u> (million dollars)	1,898.9	2,048.8	1,980.1	2,220.7	2,680.5
Value of shipments <u>3/</u> (million dollars)	3,086.4	3,447.9	3,337.3	3,813.4	4,202.9
New capital expenditures (million dollars)	47.3	102.0	76.1	98.4	126.9

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; 1986 Annual Survey of Manufactures, Geographic Area Statistics, M86(AS)-3 (July 1988), table 1; 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 Manufacturers, Geographic Area Statistics, M90 (AS)-3 (April 1992), table 1.

Table 644.-- 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 645.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1990
 [Includes operating manufacturing establishments and auxiliaries]

Subject	All manu- factures	Food and kindred products (SIC 20)		Apparel and other textile products (SIC 23)	Commercial printing (SIC 275)	Stone, clay, and glass products (SIC 32)
		Total	Sugar and confect. prod. (SIC 206)			
All employees:						
Number (1,000)	20.7	8.4	3.2	3.0	1.3	1.1
Payroll (mil. dol.)	476.7	185.1	69.1	34.0	31.9	40.9
564 Production workers:						
Number (1,000)	13.2	5.7	2.4	2.2	0.8	0.9
Hours (millions) ...	26.1	11.5	4.9	3.9	1.9	1.9
Wages (mil. dol.) ..	263.1	108.8	46.4	18.1	20.0	29.9
Value added by manu- facture (mil. dol.)	1,557.5	559.8	249.1	19.6	49.9	87.1
Cost of materials (mil. dol.)	2,680.5	802.9	264.8	38.5	38.1	129.8
Value of shipments (mil. dol.)	4,202.9	1,356.7	507.2	63.1	90.2	221.6
New capital expend- itures (mil. dol.)	126.9	52.7	24.8	1.8	1.2	15.1
End-of-year inven- tories (mil. dol.)	431.0	186.9	86.8	9.9	5.5	24.9

Source: U.S. Bureau of the Census, 1990 Annual Survey of Manufactures, Geographic Area Statistics, M90(AS)-3 (April 1992), table 2.

Table 646.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1989

SIC code	Industry	Number of establishments		Number of employees for week including March 12	Annual payroll (\$1,000)
		Total	With 20 employees or more		
	Manufacturing	971	231	22,886	492,781
20	Food and kindred products	212	76	10,130	202,148
2061	Raw cane sugar	11	11	3,266	61,610
22	Textile mill products	8	1	87	1,720
23	Apparel and other textile products	158	39	2,954	36,395
24	Lumber and wood products	44	6	418	9,344
25	Furniture and fixtures	29	7	376	7,253
26	Paper and allied products	8	4	218	5,926
27	Printing and publishing	187	37	3,508	89,940
28	Chemicals and allied products ..	24	6	489	12,644
29	Petroleum and coal products	4	2	407	17,277
30	Rubber and miscellaneous plastics products	20	3	207	2,979
31	Leather and leather products ...	6	1	(B)	(D)
32	Stone, clay, and glass products	52	13	953	31,927
33	Primary metal industries	4	1	(C)	(D)
34	Fabricated metal products	29	8	418	10,648
35	Industrial machinery and equipment	34	4	272	7,232
36	Electronic and other electronic equipment	16	2	196	4,201
37	Transportation equipment	14	6	510	17,314
38	Instruments and related products	15	-	72	1,302
39	Miscellaneous manufacturing industries	88	8	888	13,588
--	Administrative and auxiliary ...	19	7	571	16,649

B 20 to 99.

C 100 to 249.

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, County Business Patterns 1989, Hawaii, CBP-89-13 (October 1991), table 1B.

Table 647.-- PLANT CAPACITY UTILIZATION RATES:
FOURTH QUARTER ESTIMATES, 1989 AND 1990

[The sample of manufacturing plants located in Hawaii was not selected specifically to represent the state but is a by-product of the national survey. Consequently, the state data are subject to high sampling variability that may disguise real movement in the series. No survey was conducted in 1991]

Type of rate	1989	1990
Utilization of full production capacity (percent)	86	73
Utilization of national emergency production capacity (percent)	80	69

Source: U.S. Bureau of the Census, Industry Division, records.

Table 648.-- MANUFACTURING SALES RECEIPTS: 1988 TO 1991

[Millions of dollars]

Category	1988	1989	1990	1991
Total manufacturing ...	2,051.2	2,259.0	2,615.1	2,402.6
Sugar processing	337.5	342.1	353.3	302.0
Pineapple canning	191.7	182.7	161.6	172.7
Petroleum	915.3	1,076.4	1,345.9	1,214.8
Diversified manufacturing ..	606.7	657.9	754.4	713.2

Source: Bank of Hawaii, Hawaii 1992, Annual Economic Report, p. 35.

Table 649.-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:
1982 TO 1992

[In thousands of dollars. Data exclude sugar processing, pineapple canning, and petroleum refining, and are on a cash basis accounting. Manufactured goods shipped out of State were exempted from the general excise tax by Act 239, SLH 1987, effective January 1, 1988]

Year re- ported <u>1/</u>	Tax base	Year re- ported <u>1/</u>	Tax base	Year re- ported <u>1/</u>	Tax base
1982	530,598	1986	568,532	1990	728,387
1983	511,823	1987	595,140	1991	714,407
1984	519,601	1988	629,303	1992	714,470
1985	527,673	1989	630,997		

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 650.-- MANUFACTURING CLIMATE: 1989

Factor	States ranked	Hawaii rank
Overall rank (among low manufacturing intensity States only)	21	19
State and local government fiscal policies	50	21
State regulated employment costs	50	14
Labor costs	50	48
Productivity of resources	50	45

Source: 11th Annual Grant Thornton Manufacturing Climates Study (August 1990), pp. 13 and 55.

Table 651.-- PINEAPPLE COMPANIES AND CANNERIES AND
SUGAR COMPANIES AND MILLS: 1940 TO 1992

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
ISLANDS: 1992				
Hawaii	-	-	3	3
Maui	1	1	2	3
Oahu	2	1	2	2
Kauai	-	-	5	4

1/ 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 652.-- SUGAR AND MOLASSES PRODUCTION: 1971 TO 1991

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	
1971 ...	232,278	115,810	10,685,019	1,229,976	1,149,510	330,227
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

^{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.

Table 653.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1971 TO 1991

Year	Average raw sugar price ^{1/} (cents per lb.)	Hourly-rated employees		Industry-wide strikes (weeks)	Average daily earnings ^{2/} (dollars)	
		Average number ^{3/}	Total man-days		Cash wages	Employee benefits
1971 ...	8.52	8,610	2,077,011	-	26.08	10.27
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	6	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	3	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

^{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 654.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE
AND SUGAR PRODUCTION: 1970 TO 1991

[In millions of dollars. Calendar year data unless otherwise
specified]

Year	Pineapple		Sugar		
	Canned fruit and juices <u>1/</u>	Fresh market sales <u>2/</u>	Value of production		Government sugar support payments
			Raw sugar 96 ^o	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	-

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.

Table 655.-- 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).

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 \$11.2 billion in 1990. 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 1987 and 1992, the retailing tax base rose 47 percent, the wholesaling base by 45 percent, and the base for services by 74 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 58,000 in 1982 to 74,000 in 1992. There were 671 hotels, motels, transient condominiums, and apartment-hotels in Hawaii on the latter date, including 460 on the Neighbor Islands. Almost 31 percent of all transient units were in condominium structures. Occupancy rates averaged 81 percent in Waikiki and 61 percent on the Neighbor Islands during 1992. The average daily room rate was \$106 in 1992. Total hotel rentals in 1992 amounted to \$1.6 billion.

Fully 245 feature motion pictures and television specials and series were filmed in Hawaii in 1991, accounting for local expenditures of \$35 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: 1992, Section 28, presents similar data for other states and the nation as a whole.

Table 656.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES:
1982 TO 1992

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

Year reported <u>1/</u>	Retailing	Services <u>2/</u>	Amusement, etc. <u>3/</u>	Intermediary services	Wholesaling
1982	6,874,963	1,905,068	130,280	69,775	3,207,768
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	7,498,622

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 657.-- 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 establish. . .	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 658.-- 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 659.-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND URBAN PLACES: 1987

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12
State total	7,195	8,084,416	1,016,127	101,969
Hawaii County	842	721,798	87,929	9,456
Hilo	378	403,435	49,429	5,077
Kailua	219	186,592	23,352	2,553
Balance of county	245	131,771	15,148	1,826
Honolulu County	4,918	6,079,556	752,824	74,485
Ahuimanu	5	(D)	(D)	(D)
Aiea	246	420,642	47,567	4,593
Ewa	2	(D)	(D)	(D)
Ewa Beach	16	9,687	1,199	158
Hauula	10	10,815	1,202	123
Heeia	3	3,288	786	78
Hickam Housing	-	-	-	-
Honolulu	3,644	4,451,451	559,406	54,846
Iroquois Point	-	-	-	-
Kahaluu	1	(D)	(D)	(D)
Kailua	173	175,779	22,961	2,383
Kaneohe	188	292,847	31,582	3,036
Laie	7	7,307	972	156
Maile	5	2,651	475	57
Makaha	8	6,780	639	98
Makakilo City	3	(D)	(D)	(D)
Maunawili	8	3,199	282	30
Mililani Town	35	68,832	7,728	588
Mokapu	1	(D)	(D)	(D)
Nanakuli	9	9,914	788	90
Pearl City	101	137,280	17,042	1,806
Schofield Barracks ...	3	432	85	9
Wahiawa	102	71,320	10,233	1,177
Waialua	12	5,564	653	72
Waianae	39	49,897	5,855	611
Waimanalo	25	15,660	2,417	268
Waimanalo Beach	-	-	-	-
Waipahu	154	208,664	22,902	2,014
Waipio Acres	-	-	-	-
Balance of county	118	99,948	15,677	2,117

Continued on next page.

Table 659.-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND URBAN PLACES: 1987 -- Con.

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees for period including March 12
Kauai County	464	362,491	47,121	5,173
Hanamaulu	7	2,932	640	108
Kalaheo	8	3,815	591	68
Kapaa	108	72,905	8,965	993
Kekaha	4	(D)	(D)	(D)
Lihue	158	155,160	18,116	1,773
Balance of county	179	(D)	(D)	(D)
Maui County	971	920,571	128,253	12,855
Island of Lanai	10	5,260	727	69
Island of Molokai	29	21,436	2,359	247
Kahului	191	294,026	36,963	3,471
Kihei	105	92,034	12,382	1,588
Lahaina	361	277,365	44,865	4,579
Makawao	9	6,046	540	68
Pukalani	14	19,169	2,100	229
Wailuku	132	115,312	14,036	1,207
Balance of county	120	89,923	14,281	1,397

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, Hawaii, RC87-A-12 (May 1989), table 5.

Table 660.-- 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)	Per- cent 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 661.-- RETAIL SALES, BY TYPE OF STORE: 1987 AND 1990

[In millions of dollars]

Kind of store	1987	1990
All stores <u>1/</u>	8,267	<u>2/</u> 11,204
Food stores	1,599	2,137
Supermarkets	1,470	1,964
General merchandise stores	1,258	1,502
Department stores	997	1,191
Automotive dealers	1,232	1,476
Eating and drinking places	1,366	1,913
Gasoline service stations	434	692
Building materials, hardware dealers	235	339
Apparel and accessories stores	595	892
Furniture, home furnishings, appliance stores ...	293	413

1/ Includes other types of stores, not shown separately.

2/ Sales per household were \$31,121, second highest of the 50 States. The U.S. ratio was \$19,488.

Source: Market Statistics estimates cited in Statistical Abstract of the United States: 1992, pp. 766-767.

Table 662.-- SHOPPING CENTER CHARACTERISTICS:
1988 TO 1991

Characteristic	1988	1989	1990	1991
Number	129	141	148	152
Gross leasable area (mil. sq. ft.)	13.3	14.0	14.0	14.0
Retail sales (bil. dol.)	2.3	2.4	2.6	2.6

Source: National Research Bureau data cited in Statistical Abstract of the United States for 1990 (p. 775), 1991 (p. 777), and 1992 (p. 769).

Table 663.-- 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 664.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS
WITH PAYROLL, FOR THE STATE AND OAHU: 1987

Merchandise line	Number of establishments		Sales (\$1,000)	
	State total	Oahu	State total	Oahu
Total retail trade 1/	7,195	4,918	8,084,416	6,079,556
Groceries and other foods	1,379	910	1,202,647	810,779
Meals and snacks	2,422	1,726	1,190,265	923,059
Alcoholic drinks	1,114	780	193,732	138,029
Packaged alcoholic beverages	810	503	285,075	213,456
Cigars, cigarettes, and tobacco	1,022	615	118,405	83,794
Drugs, health aids, and beauty aids	860	526	444,311	351,591
Soaps, detergents, & household cleaners .	466	275	50,477	33,623
Paper and related products	469	269	51,217	30,892
Men's and boys' wear exc. footwear	989	560	289,292	223,761
Women's and girls' wear exc. footwear ...	1,257	775	537,393	432,690
Footwear exc. infants and toddlers	527	308	109,908	89,258
Sewing, knitting, and needlework goods ..	138	87	19,333	14,506
Curtains, draperies, and dry goods	199	113	49,146	36,454
Major household appliances	182	91	70,593	49,049
Small electric appliances	238	145	33,975	23,879
TVs and video recorders and tapes	164	105	37,825	27,546
Audio equipment, musical instruments, and supplies	264	182	86,908	73,167
Furniture and sleep equipment	243	172	133,271	103,102
Floor coverings	146	74	29,617	21,941
Computer hardware/software equipment and supplies	75	51	18,050	14,762
Kitchenware and home furnishings	505	282	67,273	50,591
Jewelry	941	606	333,687	276,603
Photographic equipment and supplies	322	182	37,476	28,859
Toys, hobby goods, and games	434	276	68,218	53,323
Optical goods	140	94	17,976	14,218
Sporting goods	343	211	97,703	74,288
Hardware, tools, plumbing and electrical supplies	345	193	81,945	55,732
Lawn and garden equipment and supplies ..	386	222	63,773	46,218
Lumber and building materials	147	84	104,432	70,282
Paint and related preservatives and supplies	146	55	30,463	18,853

Continued on next page.

Table 664.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS
WITH PAYROLL, FOR THE STATE AND OAHU: 1987 -- Con.

Merchandise line	Number of establishments		Sales (\$1,000)	
	State total	Oahu	State total	Oahu
Cars, trucks, and powered vehicles	115	77	968,730	776,288
Automotive fuels	430	282	373,181	260,591
Automotive lubricants	538	325	8,914	5,110
Auto tires, batteries, and accessories ..	517	334	147,467	104,489
Household fuels	25	(NA)	9,463	(NA)
Pets, pet foods, and supplies	280	173	21,378	15,863
All other merchandise	1,161	735	426,299	330,250
Unclassified merchandise	936	580	56,964	40,212
Nonmerchandise receipts	1,239	808	213,000	157,053
Miscellaneous merchandise	(X)	(X)	4,634	5,395

X Not applicable.

NA Not available.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

Source: U.S. Bureau of the Census, 1987 Economic Censuses CD-ROM Vol. 1, Release 1C, "1987 Census of Retail Trade: Merchandise Line sales--U.S., States, MSAs."

Table 665.-- DUTY-FREE STORE REVENUES: 1982 TO 1991

[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
1982	145,382,976	1987	369,788,429
1983	150,424,959	1988	445,072,755
1984	170,661,949	1989	451,185,041
1985	180,126,919	1990	413,932,037
1986	270,891,959	1991	378,587,469

Source: DFS Hawaii, records.

Table 666.-- 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 <u>1/</u>	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 <u>2/</u>	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 667.-- RETAIL SALES AND HOTEL RECEIPTS OF CIVILIAN AND MILITARY ESTABLISHMENTS WITH PAYROLL: 1977 TO 1987

[In millions of dollars]

Control of establishment	Retail sales			Hotel receipts		
	1977	1982	1987	1977	1982	1987
Total	3,455.9	5,506.7	8,552.6	556.1	987.1	1,578.9
Civilian	3,225.3	5,101.7	8,087.4	548.7	973.3	1,562.0
Military	230.6	405.0	465.2	7.4	13.8	16.9
Percent	6.7	7.4	5.4	1.3	1.4	1.1

Source: U.S. Bureau of the Census, Census of Retail Trade and Census of Service Industries, 1982 and 1987; Data Book 1988, table 685.

Table 668.-- CHARACTERISTICS OF EATING PLACES WITH PAYROLL: 1987

Subject	Restaurants and lunchrooms	Cafeterias	Refreshment places
Number of establishments in business --			
Any time during year	964	24	720
At end of year	915	23	690
Sales (\$1,000)	664,981	15,381	424,531
Seating capacity, end of year	88,936	2,404	37,171
Average cost of meal:			
Less than \$2.00	28	-	37
\$2.00 to \$4.99	232	23	515
\$5.00 to \$6.99	272	1	131
\$7.00 to \$9.99	130	-	37
\$10.00 to \$14.99	182	-	-
\$15.00 to \$29.99	105	-	-
\$30.00 or more	15	-	-

Source: U. S. Bureau of the Census, 1987 Census of Retail Trade, Miscellaneous Subjects, RC87-S-4 (October 1990), tables 8 and 10.

Table 669.-- FLOOR SPACE OF DEPARTMENT STORES AND GROCERY STORES WITH PAYROLL: 1987

Subject	Depart- ment stores <u>1/</u>	Grocery stores
Number of establishments in business--		
Any time during year	26	604
At end of year	26	576
Sales (\$1,000)	646,151	1,450,165
Under-roof floor space, December 31 (1,000 sq. ft.) ..	3,267	3,894
Selling space	2,575	2,862
Sales per square foot of selling space (dollars)	251	507

1/ Including leased departments.

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, Miscellaneous Subjects, RC87-S-4 (October 1990), table 25.

Table 670.-- 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 671.-- ALCOHOLIC BEVERAGE SALES, BY TYPE: 1990 AND 1991

[Wine gallons of 128 fluid ounces]

Type of beverage	Total sales		Per capita sales ^{1/}	
	1990	1991	1990	1991
All types	36,374,344	35,740,219	28.9	28.0
Distilled spirits	1,716,023	1,550,172	1.4	1.2
Sparkling wine	287,281	289,350	0.2	0.2
Still wine	2,112,167	2,158,942	1.7	1.7
Cooler beverage	353,887	348,380	0.3	0.3
Draft beer	1,587,296	1,540,197	1.3	1.2
Beer other than draft	30,317,690	29,853,178	24.1	23.4

^{1/} Based on estimated de facto population.

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 672.-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1987

Geographic area	All wholesalers		Merchant wholesalers	
	Number of establishments	Sales (\$1,000)	Number of establishments	Sales (\$1,000)
State total	1,998	5,362,490	1,718	3,762,672
Hawaii County	191	347,224	171	269,888
Hilo	116	275,949	102	204,498
Kailua	36	33,323	32	(D)
Honolulu County	1,577	4,501,802	1,340	3,127,947
Aiea	67	172,664	61	144,516
Ewa Beach	13	27,206	12	(D)
Honolulu	1,293	3,816,710	1,095	2,621,357
Kailua	31	21,399	27	16,189
Kaneohe	24	14,315	21	12,606
Pearl City	40	117,864	33	46,125
Waipahu	49	135,071	41	103,325
Kauai County	73	124,882	64	96,221
Lihue	43	85,106	38	(D)
Maui County	157	388,582	143	268,616
Island of Lanai	1	(D)	1	(D)
Island of Molokai ...	5	3,047	4	(D)
Kahului	73	260,544	67	164,568
Wailuku	42	77,007	39	(D)

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1987 Census of Wholesale Trade, Hawaii, WC87-A-12 (April 1989), table 5.

Table 673.-- WHOLESAL 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 674.-- 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 675.-- 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 676.-- 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 ^{1/}	(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 ^{1/}	(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 677.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1987

Geographic area	Number of establishments		Receipts (\$1,000)	
	All services	Hotels <u>1/</u>	All services	Hotels <u>1/</u>
State total	7,458	237	4,455,953	1,562,043
Hawaii County	736	35	382,211	191,918
Hilo	388	9	131,071	12,539
Kailua	170	13	85,259	46,113
Honolulu County	5,704	130	3,234,314	868,888
Aiea	188	3	70,268	2,575
Ewa Beach	18	-	3,838	-
Honolulu	4,529	118	2,848,869	828,367
Kailua	242	-	57,539	-
Kaneohe	143	1	36,243	(D)
Mililani Town	39	-	12,131	-
Pearl City	144	-	45,720	-
Wahiawa	96	1	23,833	(D)
Waianae	24	1	10,155	(D)
Waimanalo	13	-	10,649	-
Waipahu	116	-	26,747	-
Kauai County	293	27	186,636	98,474
Kapaa	56	9	28,560	20,513
Lihue	129	8	69,391	10,311
Maui County	725	45	652,792	402,763
Island of Lanai ...	3	-	(D)	-
Island of Molokai .	20	2	17,641	(D)
Kahului	171	3	110,323	(D)
Kihei	66	7	16,496	8,064
Lahaina	116	17	140,715	102,114
Pukalani	18	-	2,674	-
Wailuku	237	1	67,673	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Hawaii, SC87-A-12 (July 1989), table 5.

Table 678.-- 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 estab- lishments		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, architec- tural, 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 679.-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1987

[Includes only establishments with payroll. Apparently excludes condominium units in rental pools for transient use]

Subject	Number of establishments	Guest-rooms, Dec. 31	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
SUBJECT TO FEDERAL INCOME TAX					
Hotels, motels, other lodging ...	237	47,209	1,562,043	436,081	31,600
Hotels	196	45,342	1,539,940	430,648	31,099
25 guestrooms or more	175	45,084	1,536,711	429,804	30,995
Less than 25 guestrooms	21	258	3,229	844	104
Motels, motor hotels, tourist courts .	33	1,867	20,893	5,085	462
Other lodging places <u>1/</u>	8	(NA)	1,210	348	39
EXEMPT FROM FEDERAL INCOME TAX					
Camps and membership lodging <u>2/</u>	3	(NA)	(D)	(D)	(D)

DA Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Rooming and boarding houses, 6 establishments; camps and recreational vehicle parks, 2.

2/ Sporting and recreational camps, 2; organization hotels and lodging houses on membership basis, 1.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Hotels, Motels, and Other Lodging Places, SC87-S-3 (April 1991), tables 1, 6, and 11.

Table 680.-- VISITOR ACCOMMODATIONS, BY TYPE, 1982 TO 1992, AND BY ISLANDS, 1992

[As of February 1982-1991 and Spring 1992]

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>
1982	417	208	209	57,968	43,568	14,400
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 <u>3/</u>	534	264	270	71,566	52,438	19,128
1991 <u>3/</u>	596	313	283	72,575	52,468	19,887
1992 <u>3/</u>	671	374	297	73,779	51,134	22,645
ISLANDS:						
1992 <u>3/</u>						
Oahu	211	150	61	37,279	29,146	8,133
Waikiki <u>4/</u> .	133	81	52	32,539	25,114	7,425
Rest of Oahu	78	69	9	4,740	4,032	708
Other islands	460	224	236	36,500	21,988	14,512
Hawaii	133	81	52	9,170	6,836	2,334
Maui	197	65	132	18,626	9,322	9,304
Lanai	5	5	-	366	366	-
Molokai	9	5	4	560	373	187
Kauai	116	68	48	7,778	5,091	2,687

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/ Some properties reported later in the year.

4/ 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, 1982 to 1992. The 1990 and 1991 data have been revised.

Table 681.-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA:
SPRING 1992

Type of accommodation	Properties			Units		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All types	671	211	460	73,779	37,279	36,500
Apartment-hotel	18	11	7	360	303	57
Bed and breakfast	97	20	77	411	38	373
Condominium	233	36	197	14,363	3,289	11,074
Condo and hotel	64	25	39	8,282	4,844	3,438
Cottage	53	20	33	279	60	219
Hotel	163	86	77	49,324	28,500	20,824
Other <u>1/</u>	43	13	30	760	245	515

1/ Hostel, lodge, etc.

Source: Hawaii Visitors Bureau, 1992 Visitor Plant Inventory, pp. 4-10.

Table 682.-- HOTELS AND MOTELS (SIC 701), BY COUNTIES: 1985 TO 1990

County	1985	1986	1987	1988	1989	1990
State total	230	238	240	221	243	233
Hawaii	33	37	43	36	38	35
Honolulu	129	132	131	123	132	124
Kauai	25	27	24	22	27	24
Maui	43	42	42	40	46	50

Source: U.S. Bureau of the Census, County Business Patterns, Hawaii (annual).

Table 683.-- HOTEL ROOMS, OCCUPANCY RATES, AND DAILY ROOM AND GUEST RATES:
1982 TO 1992

[Includes condominium units in rental pools for transient occupancy]

Year	Hotel units, February <u>1/</u>			Percent occupied <u>2/</u>	Daily rates <u>2/</u> (dollars)		Guests per room <u>2/</u>
	State total	Oahu	Other islands		Per room	Per guest	
1982	57,968	33,492	24,476	70.4	51.78	26.44	1.96
1983	58,765	34,354	24,411	69.7	54.78	27.71	1.98
1984	62,448	36,848	25,600	76.0	59.25	29.59	2.00
1985	65,919	38,600	27,319	76.1	68.84	34.39	2.00
1986	66,308	39,010	27,298	81.7	73.20	36.80	1.99
1987	65,318	38,185	27,133	81.1	80.09	40.23	1.99
1988	69,012	37,841	31,171	78.5	87.94	44.22	1.99
1989	68,034	36,467	31,567	79.0	95.83	47.93	2.00
1990	71,566	36,899	34,667	78.8	102.10	50.75	2.01
1991	72,575	36,623	35,952	72.4	101.89	50.69	2.01
1992	73,779	37,279	36,500	72.6	105.59	(<u>3/</u>)	2.02

1/ Except 1992, which was Spring. Data for 1990 and 1991 have been revised.

2/ Annual averages.

3/ Series discontinued after 1991.

Source: Hawaii Visitors Bureau, 1992 Visitor Plant Inventory Report, p. 64; Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii (December issues).

Table 684.-- HOTEL ROOM OCCUPANCY AND ROOM RATES, AND FOOD AND BEVERAGE SALES, BY GEOGRAPHIC AREAS: 1992

[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 ..	72.65	105.59	76.71	21.61	5.86	14.87
Oahu	80.52	98.38	79.21	18.91	4.48	14.59
Waikiki	80.76	99.35	80.24	18.97	4.54	15.00
Other Oahu.....	76.42	81.26	62.10	18.35	3.87	11.38
Hawaii	57.91	119.62	69.27	28.75	8.12	17.19
Hilo	62.48	62.27	38.91	13.28	2.88	11.24
Kona	59.43	77.74	46.20	14.60	4.25	11.86
Kohala	55.49	173.54	96.29	42.19	12.03	20.16
Maui	63.49	124.77	79.22	24.30	8.21	14.14
Kaanapali	68.91	129.37	89.15	20.70	7.43	13.59
West Maui	65.25	118.78	77.50	18.56	7.81	15.97
Other	53.84	122.06	65.72	39.94	11.03	14.67
Kauai	59.73	108.04	64.53	25.48	8.15	15.19
North	40.20	134.74	54.16	40.23	15.63	19.12
Central	62.58	91.64	57.35	20.88	6.05	13.96
South	61.07	137.56	84.00	29.61	9.82	15.70
Molokai	44.24	77.30	34.19	34.10	9.78	9.73
All Neighbor Islands	60.58	120.33	72.89	17.14	5.38	15.24

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii, December 1992, and records.

Table 685.-- GENERAL EXCISE TAX BASE FOR RENTALS:
1982 TO 1992

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

Year reported <u>1/</u>	Total	Hotel rentals	All other rentals <u>2/</u>
1982	2,265,287	844,926	1,420,361
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

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 686.-- ARRANGEMENT OF PASSENGER TRANSPORTATION: 1987

[Includes only establishments with payroll]

Kind of business	Estab- lish- ments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid em- ployees, 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 687.-- PASSENGER TRANSPORTATION ARRANGEMENT: 1990

SIC code	Industry	Number of establishments		Number of employees, week incl. March 12	Annual payroll (\$1,000)
		State total	Oahu		
472	Passenger transp. arrangement	503	404	6,070	112,715
4724	Travel agencies	332	265	2,212	43,867
4725	Tour operators	111	92	2,993	54,936
4729	Pass. transport arrangement, n.e.c.	43	33	742	12,359

n.e.c. Not elsewhere classified.

Source: U.S. Bureau of the Census, County Business Patterns 1990, Hawaii, CBP-90-13 (November 1992), pp. 7 and 24.

Table 688.-- MOTION PICTURE SERVICES: 1977 TO 1990

[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. Mar. 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
1990 <u>1/</u>	24	(NA)	3,212	137
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)
1990	36	(NA)	6,531	672
Video tape rental (SIC 784):				
1987	78	12,319	2,456	376
1990	72	(NA)	3,930	515

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 1990, Hawaii, CBP-90-13 (November 1992).

Table 689.-- 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 declined from \$2.0 billion in 1981 to \$1.6 billion in 1991. Exports to foreign countries amounted to only \$238 million in 1981, but by 1991 reached \$568 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 \$148 million in 1991.

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 \$48 million in fiscal 1991. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at \$1.4 billion, almost all of it in petroleum and petroleum products. The other four subzones accounted for a combined total of \$1.2 billion.

Foreign-owned businesses in Hawaii had property, plant, and equipment with a gross book value of \$10.7 billion in 1990 and employed 50,200 persons. Foreign investments in Hawaii between 1959 and 1990 totaled \$11 billion, five-sixths of it Japanese. During 1989 and 1990 alone, Japanese investors spent \$7.3 billion on Hawaiian real estate.

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: 1992. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 690.-- 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 691.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS
DISTRICT: 1981 TO 1991

[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 <u>1/</u>	Imports for consumption <u>1/</u>	Exports of foreign and domestic merchandise <u>2/</u>
1981	1,982.2	1,525.4	237.7
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

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, 1980-1988; U.S. Merchandise Trade: Selected Highlights, FT920, December 1989 to 1991.

Table 692.-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY
CLASSIFICATION: 1990 AND 1991

[In millions of dollars]

Classification	1990	1991
General imports by district of entry:		
Customs value <u>1/</u>	2,260.64	1,620.91
C.i.f. value <u>2/</u>	2,381.89	1,698.33
General imports by district of unloading:		
Customs value <u>1/</u>	2,819.43	2,254.18
C.i.f. value <u>2/</u>	2,981.68	2,375.10
Imports for consumption by district of entry (customs value <u>1/</u>)	2,100.27	1,892.43
Exports of domestic and foreign merchandise by district of export (f.a.s. value <u>3/</u>)	512.25	568.32
Exports of merchandise by district of origination ..	178.7	147.7
Manufactured commodities	128.1	97.6
Non-manufactured commodities	50.6	50.1

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 1990 and 1991, tables 1, 4, 5 and 6, and U.S. Merchandise Trade, FT900 Supplement, for December 1990 and 1991, exhibit 2.

Table 693.-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY
METHOD OF TRANSPORTATION: 1990 AND 1991

[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 <u>1/</u>	Vessel	Air	Vessel	Air
General imports: <u>2/</u>					
1990	2,819.43	1,113.18	1,600.55	4,332.53	24.11
1991	2,254.18	601.23	1,634.65	618.82	23.68
Exports: <u>3/</u>					
1990	512.25	122.09	200.19	373.93	16.48
1991	568.32	149.94	202.26	507.34	12.73

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 1990 and 1991, tables 1 and 6.

Table 694.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT,
TOTAL AND BY LEADING COUNTRIES OF ORIGIN OR DESTINATION: 1989

[See headnote to preceding table]

Country	Total	Imports for consumption	Exports of domestic merchandise
All countries	2,507,469,626	1,970,093,475	537,376,151
Japan	674,893,654	452,417,883	222,475,771
Singapore	231,583,141	223,714,064	7,869,077
Taiwan, Republic of China ...	208,468,043	193,352,157	15,115,886
Korea, Republic of	204,725,390	91,461,575	113,263,815
Indonesia	200,011,304	198,493,087	1,518,217
Australia	197,116,487	114,314,754	82,801,733
Malaysia	125,723,016	122,133,201	3,589,815
Philippines	118,017,648	113,034,962	4,982,686
France	96,448,196	95,896,264	551,932
China, People's Republic of .	63,401,627	62,477,639	923,988
Italy	53,555,075	53,471,156	83,919
Hong Kong	44,238,980	29,506,430	14,732,550
New Zealand	42,005,635	28,990,026	13,015,609
Canada	38,400,101	30,509,067	7,891,034
United Kingdom	26,608,449	25,949,445	659,004
Thailand	26,536,392	23,726,683	2,809,709
Switzerland	24,349,737	24,315,418	34,319
Marshall Islands	21,546,088	263,983	21,282,105
Netherlands	13,316,219	11,906,830	1,409,389
Germany, Federal Republic of	10,851,019	9,432,597	1,418,422
Ecuador	9,683,106	9,650,476	32,630
Brunei	8,956,871	8,932,276	24,595
Spain	8,671,968	8,671,968	-
French Polynesia	6,550,475	514,583	6,035,892
Papua New Guinea	6,060,834	16,584	6,044,250

Source: Hawaii State Department of Business, Economic Development, & Tourism, Trade and Industry Development Branch, Hawaii's Foreign Trade 1989, A Statistical Digest (April 1991), table 2. Compiled from U.S. Bureau of the Census tapes.

Table 695.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT,
BY COMMODITY CLASSIFICATION: 1989

[See headnote to table 693]

Commodity ^{1/}	Imports for consumption	Exports of domestic mdse.
All commodities	1,970,093,475	537,376,151
Animals and animal products	48,677,508	11,480,391
Vegetable products	18,365,981	22,507,239
Animal or vegetable fats	574,890	473,002
Prepared foodstuffs, beverages, tobacco	76,379,347	38,394,280
Mineral fuels, other mineral products	487,372,880	18,829,457
Products of chemical industry	36,609,121	8,499,656
Plastics, rubber	14,520,211	1,965,085
Rawhides, leather, travel goods	86,009,535	4,039,678
Wood, wood articles	11,265,710	2,093,745
Pulp of wood, paper, paperboard	22,755,666	23,974,723
Textiles, textile articles	54,908,606	4,481,267
Footwear, headgear, umbrellas	10,861,558	240,700
Articles of stone, etc.; glass, glassware ...	21,943,718	1,524,275
Precious stones and metals	51,667,312	3,730,630
Base metals	34,955,832	16,533,383
Machinery, electrical equipment, sound and TV equipment	600,876,084	72,536,955
Vehicles, aircraft, vessels	283,958,467	247,245,049
Vehicles	268,351,017	7,359,657
Aircraft, spacecraft	14,781,657	239,502,658
Vessels	825,793	382,734
Optical, scientific, musical instruments; clocks, watches	19,685,548	23,451,977
Arms and ammunition	68,497	185,415
Miscellaneous manufactured articles	44,616,935	13,772,828
Works of art, antiques	2,502,745	16,417,088
Special classification provisions	41,517,324	4,999,328

^{1/} Classification system not comparable to that in use for earlier years.

Source: Hawaii State Department of Business, Economic Development & Tourism, Trade and Industry Development Branch, Hawaii's Foreign Trade 1988, A Statistical Digest (April 1991), tables 7, 8, 20, and 21.

Table 696.-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS: 1990 TO 1992

[Years ended September 30, unless otherwise specified]

Subject	1990	1991	1992
Zone No. 9:			
Firms using zone	395	351	335
User employment at zone 1/	217	195	178
Value of merchandise (\$1,000):			
In/out	47,708	48,308	65,214
Exports	6,001	7,290	13,466
Revenue 2/ (\$1,000)	1,699	1,821	1,984
Expenditures 2/ (\$1,000)	1,304	1,387	1,431
Subzone No. 9-A:			
User employment at subzone	241	672	672
Quantity (1,000 metric tons):			
Merchandise, in/out	9,230.7	8,622.0	8,751.3
Exports	1,859.1	1,891.0	1,737.3
Value (million dollars):			
Merchandise, in/out	1,138.6	1,428.4	1,125.2
Exports	228.8	332.4	182.2
Subzone No. 9-B:			
User employment at subzone	19	19	19
Value (\$1,000):			
Merchandise, in/out	6,277	2,759	2,602
Exports	3,144	1,371	1,292
Subzone No. 9-C:			
User employment at subzone	1,151	925	455
Value (million dollars):			
Merchandise, in/out	251.8	199.9	68.0
Exports	8.5	12.6	.034
Subzone No. 9-D:			
User employment at subzone	1,250	910	963
Value (\$1,000):			
Merchandise, in/out	94,598	102,215	119,787
Exports	4,695	6,630	5,224

Continued on next page.

Table 696.-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS: 1990 TO 1992--Con.

Subject	1990	1991	1992
Subzone No. 9-E: <u>3/</u>			
User employment at subzone	237	410	396
Quantity (1,000 metric tons):			
Merchandise, in/out	3,454.9	6,004.7	5,417.7
Exports	135.0	443.3	403.5
Value (million dollars):			
Merchandise, in/out	359.2	915.3	656.4
Exports	13.1	65.7	48.1

1/ For firms occupying facilities on a continuing basis only.

2/ Years ended June 30.

3/ Activated as a subzone April 1, 1990. Data for 1990 refer to six-month period ended September 30.

Source: Hawaii State Department of Business, Economic Development & Tourism, Foreign-Trade Zone No. 9, annual reports and records.

Table 697.-- 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 <u>1/</u>	191.4	535.4
Percent of total manufacturers' shipments	5.7	14.0
Direct exports <u>1/</u>	62.0	377.4
Supporting exports <u>1/</u>	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 698.-- EMPLOYMENT AND PROPERTY, PLANT AND EQUIPMENT OF HAWAII
AFFILIATES OF FOREIGN-OWNED COMPANIES: 1988 TO 1990

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned
10 percent or more, directly or indirectly, by a foreign person]

Subject	1988	1989	1990 <u>1/</u>
Employment by nonbank affiliates (1,000)	34.8	45.0	50.2
Percent of all nonbank businesses	8.6	10.5	11.2
Employment by country of ultimate beneficial owner (1,000)	34.8	45.0	50.2
Canada .....	.8	.8	.8
Europe	3.2	4.0	5.9
Latin America, other W. Hemisphere	3.5	3.7	3.6
Africa and Middle East	0	0	0
Asia and Pacific	27.2	36.1	39.6
Australia	1.5	2.6	3.1
Japan	24.3	30.3	32.7
U.S. ....	.2	.4	.3
Gross property, plant, and equipment (million dollars)	4,990	8,224	10,658
Commercial property <u>2/</u>	3,316	5,169	7,495
Other	1,674	3,055	3,163

1/ Preliminary.

2/ 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 1990," Survey of
Current Business, May 1992, pp. 45-68, and earlier reports.

Table 699.-- 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 700.-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS:
DECEMBER 31, 1990 AND 1991

Subject	1990	1991
Parcels owned by foreigners	66	78
Individuals	11	15
Organizations	55	63
Acres owned by foreigners	173,767	175,517
Percent of all privately owned agricultural land ^{1/} ...	8.7	8.8
Individuals	478	1,492
Organizations	173,289	174,025
Value of foreign-owned agricultural land (\$1,000):		
At time of acquisition	491,972	598,184
Adjusted current value	498,885	623,502

^{1/} The 1991 percent for Hawaii ranked second among the 50 States, exceeded only by Maine (15.7 percent), and well above the national percentage (1.2).

Source: U.S. Department of Agriculture, Economic Research Service, Foreign Ownership of U.S. Agricultural Land Through December 31, 1990 (Staff Report No. AGES 9120, April 1991), pp. 6, 9, and 13, and Foreign Ownership of U. S. Agricultural Land Through December 31, 1991 (Staff Report No. AGES 9211, [1992]), pp. 6, 9, and 13.

Table 701.-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND
 JAPANESE: PRE-1970 TO JUNE 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	13,600,638	11,624,631
Before 1970	35,000	31,900
1970-1974	438,589	328,689
1975-1979	522,160	264,740
1980-1984	910,416	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 (Jan.-June)	217,352	193,852
Future investments	6,127,595	5,740,595

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Development & Marketing Branch, A Listing of Foreign Investments in Hawaii, Annual 1991 and 1992 (first 6 months).

Table 702.-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR:
PRE-1970 TO JUNE 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 June 1992	1990	1991	First half 1992
All countries	13,600,638	1,970,530	2,407,175	217,352
Australia	857,431	14,250	206,800	-
Bermuda	15,500	-	-	-
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	11,624,631	1,924,330	2,107,375	193,852
Korea, Republic of	12,550	-	-	1,000
Liechtenstein	(NA)	(NA)	-	-
Netherlands	19,600	-	-	-
Netherlands Antilles ..	67,735	-	50,000	-
New Zealand	58,900	20,500	-	-
Singapore	(NA)	-	-	-
Spain	(NA)	(NA)	-	-
Switzerland	(NA)	-	(NA)	-
Taiwan	22,000	-	-	-
United Arab Emirates ..	(NA)	-	-	-
United Kingdom	193,801	(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 (first six months).

Table 703.-- JAPANESE INVESTMENT IN HAWAII REAL ESTATE AND BUSINESSES: 1986 TO 1990

Year and category	Million dollars
1986, total	1,200
1987, total	1,400
1988, total	1,870
1989, total	2,786
1990, total	3,784.1
Hotels and resorts	1,523.7
Office buildings, commercial property	884.6
Businesses	43.9
Acreage, miscellaneous	919.3
Residential	412.6

Source: Greg Wiles, "Japan investors pull back after record haul in 1990," Sunday Star-Bulletin & Advertiser, November 24, 1991, pp. A1, A8, A9.

Table 704.-- JAPANESE INVESTMENT IN REAL ESTATE, FOR THE UNITED STATES, HAWAII AND HONOLULU METROPOLITAN STATISTICAL AREA: 1991 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
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)

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.

Table 705.-- CHARACTERISTICS OF JAPANESE REAL ESTATE INVESTMENTS,
FOR THE STATE AND HONOLULU MSA: 1991

Subject	State total	Honolulu MSA
Amount (million dollars)	1,656	662
Average transaction (million dollars)	75.3	55.2
Leading property types (percent):		
Hotel/resort	48	27
Land	20	(1/)
Golfcourse	(1/)	24
Residential	21	44
Leading acquisition methods (percent):		
New construction, joint venture	29	13
New construction, full ownership	50	82
Leading investor types (percent):		
Construction/development company	57	14
Individual/investment company	(1/)	48
Miscellaneous public/private company	29	37
Trading company	7	(1/)

1/ Not among top three types.

Source: Kenneth Leventhal & Company, 1991 Japanese Investment in United States Real Estate (1992), pp. 19, 21, 26, and 27.

BIBLIOGRAPHY

This volume is the 26th 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, Molokai, and Kauai. In December 1991, the Hawaii County Department of Research & Development issued 1991 County of Hawaii Data Book. 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, 1992 Edition, prepared by the Kauai County Office of Economic Development, was published in November 1992. H & S Publishing released the fifth edition of its Kauai Data Book as well in 1992.

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 112th, dated 1992; 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 1992

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

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: DBED records.

ON-LINE AVAILABILITY OF DATA BOOK TABLES TO PUBLIC

Early in 1988, the Hawaii State Department of Business and Economic Development initiated a pilot program to make Data Book tables and selected other statistical series available to anyone with a personal computer and a modem.

The program incorporates the full text of The State of Hawaii Data Book (including available updates to the current edition) and the data and analyses in the department's most recent Quarterly Statistical & Economic Report. Other publications and data series may be added if there is sufficient demand.

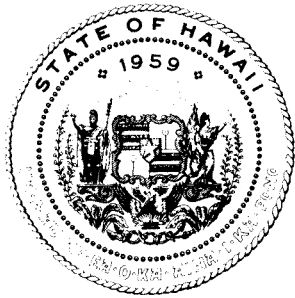
The DBED electronic bulletin board is available free 24 hours a day, seven days a week.

Until now, getting updated Data Book tables was a time-consuming process. Now the almost daily updates are available on-demand and in a format that is more convenient for people who use many of the popular electronic spreadsheets.

The system is easy to use. It is menu-driven and contains numerous "prompts" which guide the user to the data sets. It also has electronic mail features that permit users to leave messages on the system. User comments and suggestions are welcome.

The bulletin board is maintained on a Gateway 2000 486/33E microcomputer which is located in the Department's Information Resources Management Division. The system uses the PC Board version 14.5a software. The bulletin board can be accessed at either 300, 1200, 2400, 9600 or 14,400 baud. Anyone wishing to access the system can call (808) 586-2496. Neighbor Island residents can call toll free 1-800-421-3233. The bulletin board can also be accessed through Hawaii FYI. A users guide is available from the Department's Library (586-2424) or can be retrieved from the system.

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.



**THE STATE
OF HAWAII**

DATA

BOOK

1992

**A STATISTICAL ABSTRACT
INDEX**

DBEDT

THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

WE'RE IN THE BUSINESS OF HELPING PEOPLE.

MARCH 1993

This report has been cataloged as follows:

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