

Envision Hawaii!

Kaua Mape

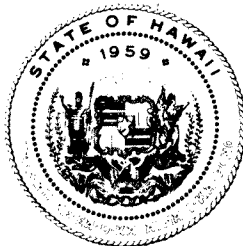
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DEPARTMENT OF BUSINESS,
ECONOMIC DEVELOPMENT
& TOURISM

The State of Hawaii
DATA BOOK

1991

A Statistical Abstract



November 1991

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This report is largely the work of the DBED 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 Emogene K. Estores, Jan N. Nakamoto, Michele Nishimoto, and Darcie Hayashikawa. The camera-ready copy was typed and proofread by Judy F. Noda, 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 DBED's Communications and Publications Office.

Copies of this report are available from the DBED Information Office, 220 South King Street, 4th floor, Room 405, P. O. Box 2359, Honolulu, Hawaii 96804. The price per copy is \$8.00 in Hawaii, \$18.00 air-mailed postpaid to the Mainland United States, and \$35.00 air-mailed postpaid to foreign countries.

ABOUT THIS BOOK

The State of Hawaii Data Book: A Statistical Abstract is the standard official summary of statistics on the social, economic, and political organization of our island state.

In addition to serving as a reference, it is a guide to other sources of statistics.

The State of Hawaii State Data Book closely follows the organization and format of its counterpart, the Statistical Abstract of the United States, thus facilitating comparison of Hawaii and national data.

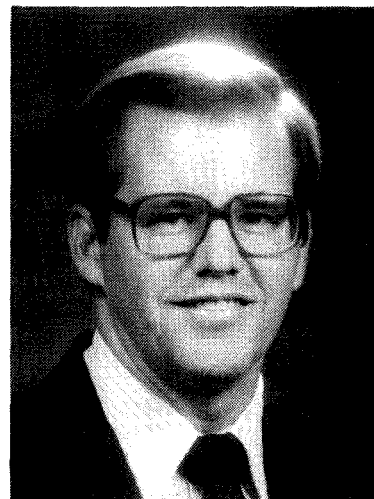
The State of Hawaii Data Book places the major emphasis on statewide data and less on counties, islands, urban places, and smaller areas. Source references for additional statistical detail are given in the introductions to the various sections and at the end of each table.

This is the 25th such abstract published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. All before 1990 are now out of print, but copies can be found in many libraries in Hawaii.

Many Federal, State, County, and private organizations cooperated with the DBED Research and Economic Analysis Division in the preparation of this book. They are credited in the source references that accompany the tables to which they contributed.



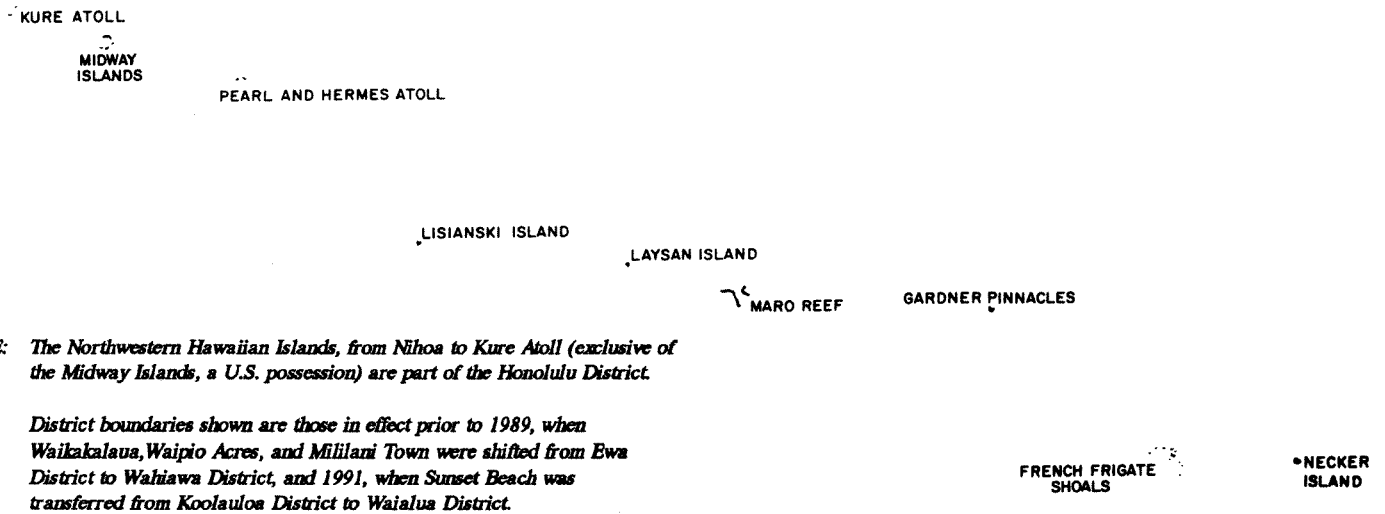
John Waihee
Governor of Hawaii



Murray E. Towill
Director of Business,
Economic Development & Tourism

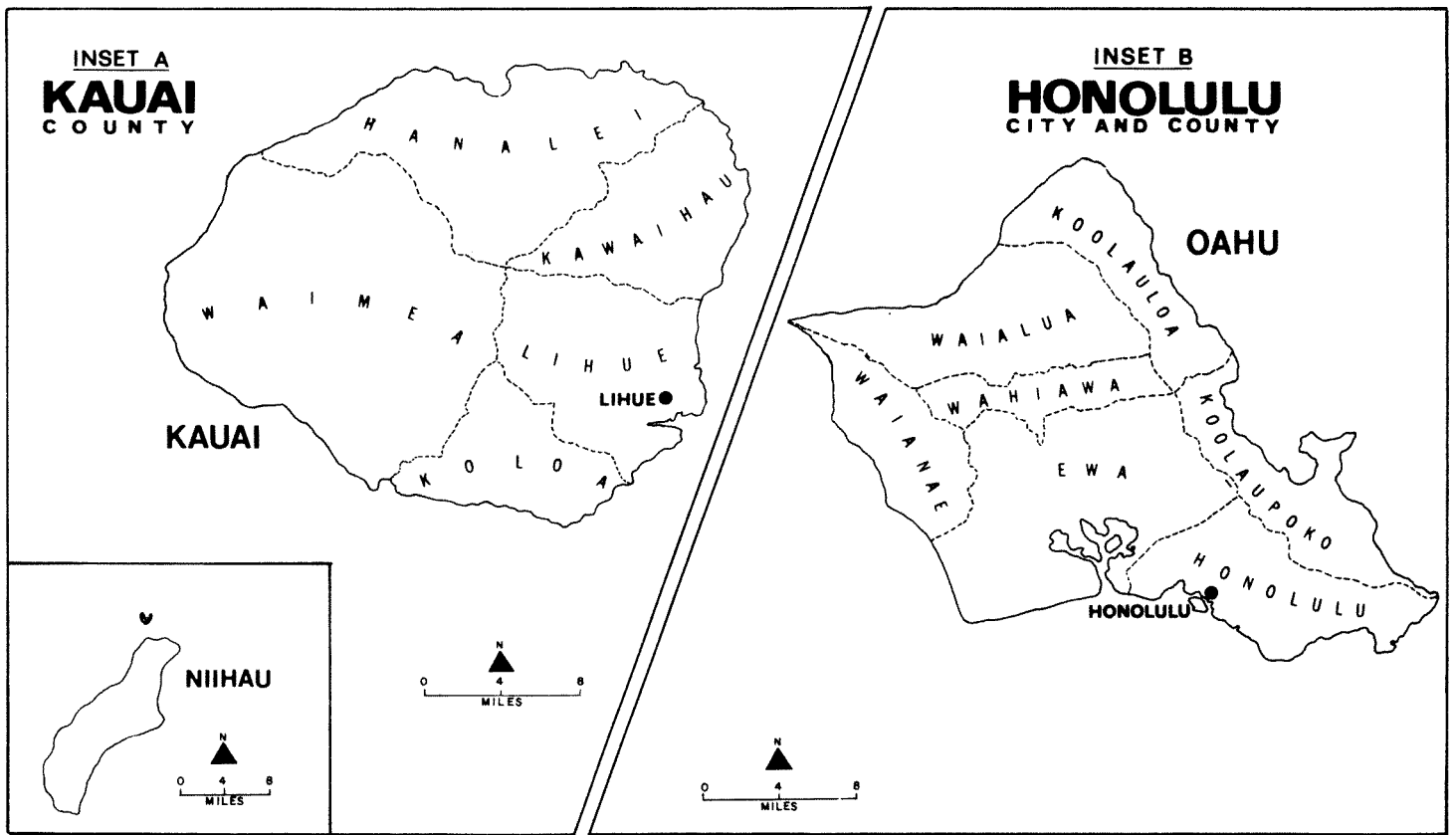
STATE OF HAWAII

COUNTIES and DISTRICTS



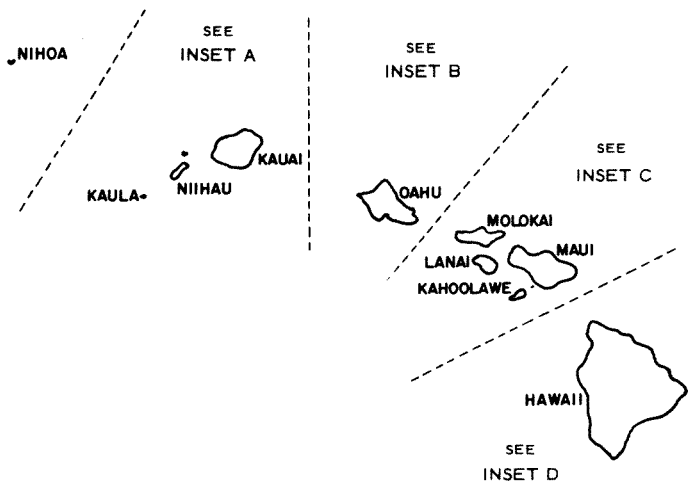
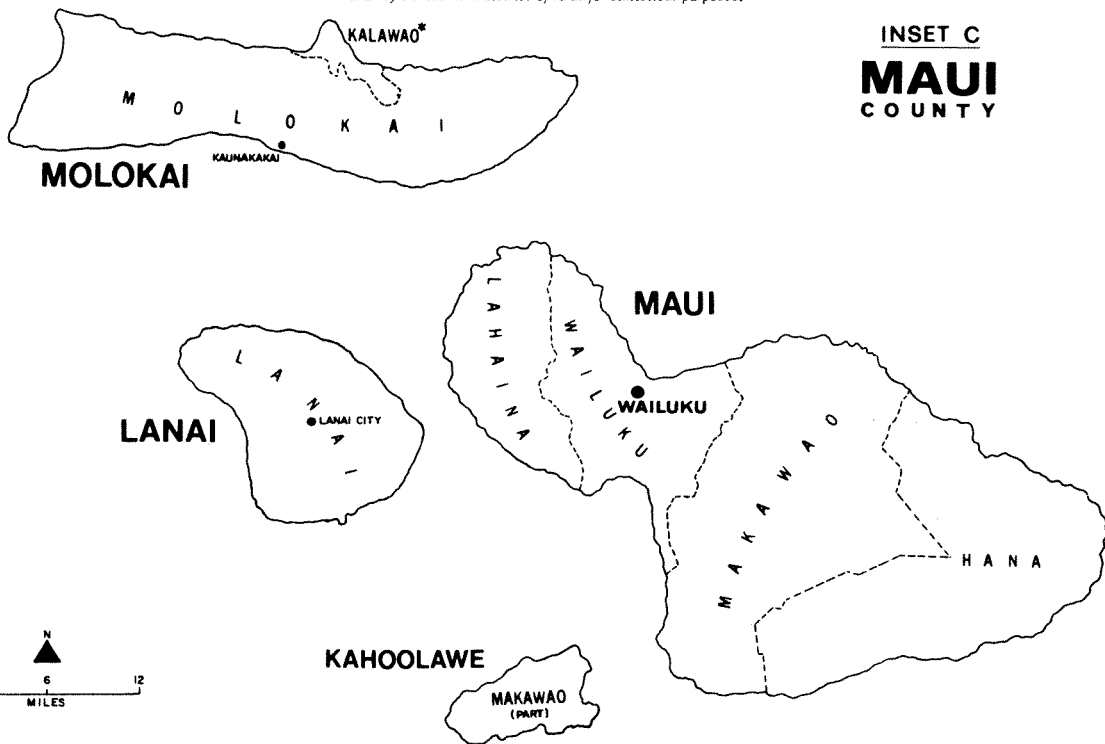
NOTE: The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession) are part of the Honolulu District.

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.



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

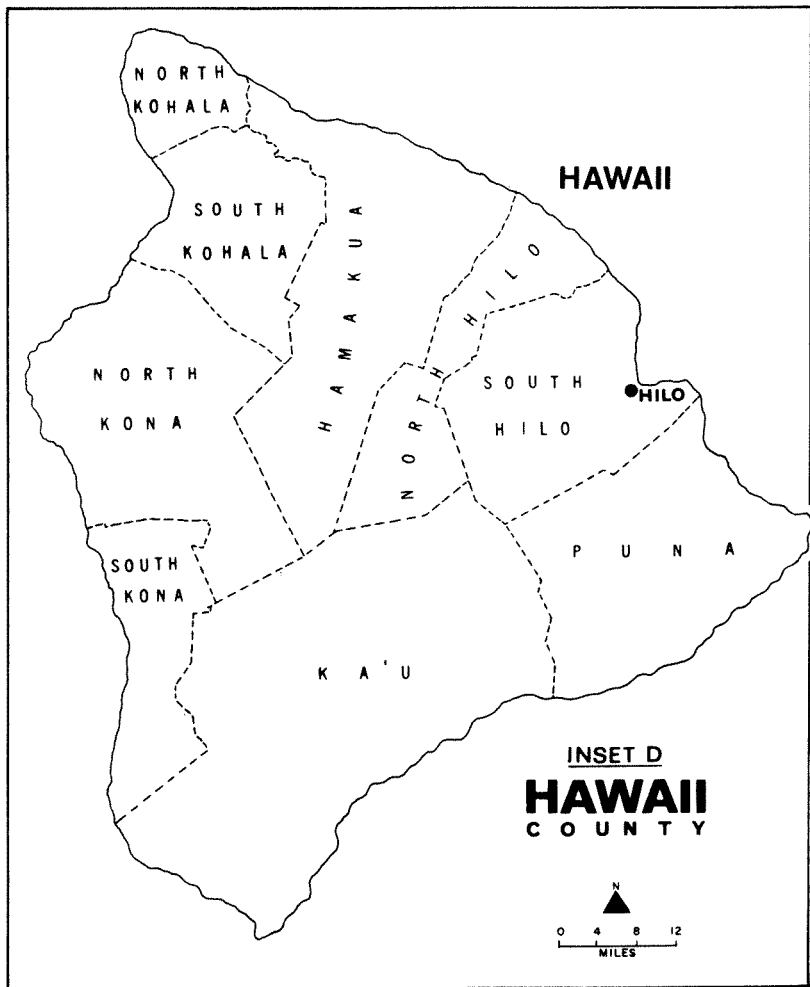
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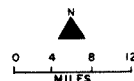
STATE OF HAWAII

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 10.4 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 1988 sample survey, were Caucasians (24 percent of the non-barracks, non-institutional population) and Japanese (22 percent). In addition, 32 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 1990 numbered 7,858, mostly from the Philippines. About 18,000 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: 1991.

Table 1.-- POPULATION: 1831-32 TO 1991

[Missionary censuses for 1831-32 and 1835-36, Hawaiian government censuses for 1850-1896, U.S. government censuses for 1900-1990, and estimates for 1876, 1944, and 1991. Data through 1896 are on a de facto or unspecified basis; data for 1900 and later years are on a resident basis, and include armed forces stationed or homeported in Hawaii]

Date	Popula- tion	Percent change <u>1/</u>	Date	Popula- tion	Percent change <u>1/</u>
1831-1832	130,313	...	1900: June 1 ...	154,001	9.4
1835-1836	108,579	-4.6	1910: Apr. 15 ..	191,874	2.2
1850: Jan.	84,165	-1.8	1920: Jan. 1 ...	255,881	3.0
1853: Dec. 26 ..	73,138	-3.5	1930: Apr. 1 ...	368,300	3.6
1860: Dec. 24 ..	69,800	-0.7	1940: Apr. 1 ...	422,770	1.4
1866: Dec. 7 ...	62,959	-1.7	1944: July 1 <u>3/</u>	858,945	16.7
1872: Dec. 27 ..	56,897	-1.7	1950: Apr. 1 ...	499,794	-9.4
1876: Jan. 1 <u>2/</u>	53,900	-1.8	1960: Apr. 1 ...	632,772	2.4
1878: Dec. 27 ..	57,985	2.4	1970: Apr. 1 ...	769,913	2.0
1884: Dec. 27 ..	80,578	5.5	1980: Apr. 1 ...	964,691	2.3
1890: Dec. 28 ..	89,990	1.8	1990: Apr. 1 ...	1,108,229	1.4
1896: Sept. 27 .	109,020	3.3	1991: July 1 ...	1,134,800	1.9

1/ Annual rate since the previous estimate or census, based on the formula for continuous compounding.

2/ Estimated population at 19th century low.

3/ Estimated population at World War II peak.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 8-10; U.S. Bureau of the Census, 1980 Census of Population, Number of Inhabitants, Hawaii, PC80-1-A13 (October 1981), table 1; 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; Federal-State Cooperative Program for Population Estimates.

Table 2.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1991

[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
1970: April 1 .	769,913	55,142	714,771	61,858	652,913
July 1 ..	771,600	53,800	717,800	57,800	660,100
1971: July 1 ..	801,600	50,800	750,800	62,200	688,700
1972: July 1 ..	828,300	52,000	776,400	66,200	710,100
1973: July 1 ..	851,600	58,100	793,500	70,300	723,200
1974: July 1 ..	868,000	57,500	810,500	68,300	742,100
1975: July 1 ..	886,200	58,800	827,400	63,700	763,700
1976: July 1 ..	904,200	57,800	846,400	67,000	779,400
1977: July 1 ..	918,300	56,500	861,800	65,000	796,800
1978: July 1 ..	931,600	58,300	873,300	61,100	812,200
1979: July 1 ..	953,300	57,900	895,400	64,500	830,900
1980: April 1 .	964,691	57,056	907,635	64,023	843,612
July 1 ..	967,400	57,900	909,500	64,100	845,400
1981: July 1 ..	978,200	56,600	921,600	64,300	857,200
1982: July 1 ..	993,800	54,900	938,900	66,700	872,200
1983: July 1 ..	1,012,800	55,200	957,600	66,300	891,400
1984: July 1 ..	1,028,000	57,300	970,700	67,100	903,600
1985: July 1 ..	1,039,800	56,400	983,400	64,300	919,100
1986: July 1 ..	1,051,900	58,100	993,800	66,200	927,600
1987: July 1 ..	1,068,100	58,100	1,009,900	64,800	945,100
1988: July 1 ..	1,080,000	56,800	1,023,200	69,900	953,300
1989: July 1 ..	1,094,600	56,400	1,038,200	60,300	978,000
1990: April 1 .	1,108,229	55,333	1,052,896	59,935	992,961
July 1 ..	1,113,500	55,200	1,058,300	60,600	997,700
1991: July 1 ..	1,134,800	54,700	1,080,000	63,300	1,016,700

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: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 1; Federal-State Cooperative Program for Population Estimates, provisional intercensal and postcensal estimates, 1980-1991.

Table 3.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS:
1970 TO 1990

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>	
1970: April 1 ..	769,913	10,300	796,500	36,900	1.035
July 1 ...	771,600	10,000	798,600	36,900	1.035
1971: July 1 ...	801,600	9,400	833,100	40,900	1.039
1972: July 1 ...	828,300	8,600	869,800	50,100	1.050
1973: July 1 ...	851,600	9,800	901,300	59,600	1.058
1974: July 1 ...	868,000	7,800	923,700	63,500	1.064
1975: July 1 ...	886,200	9,000	943,500	66,300	1.065
1976: July 1 ...	904,200	9,400	970,300	75,500	1.073
1977: July 1 ...	918,300	9,000	992,300	83,000	1.081
1978: July 1 ...	931,600	9,300	1,014,300	92,000	1.089
1979: July 1 ...	953,300	9,300	1,042,700	98,700	1.094
1980: April 1 ..	964,691	9,600	1,052,700	97,600	1.091
July 1 ...	967,400	9,600	1,054,300	96,500	1.090
1981: July 1 ...	978,200	11,600	1,062,500	96,000	1.086
1982: July 1 ...	993,800	14,500	1,084,600	105,300	1.091
1983: July 1 ...	1,012,800	11,500	1,109,300	108,000	1.095
1984: July 1 ...	1,028,000	16,100	1,130,600	118,700	1.100
1985: July 1 ...	1,039,800	18,600	1,138,000	116,700	1.094
1986: July 1 ...	1,051,900	17,200	1,167,500	132,900	1.110
1987: July 1 ...	1,068,100	15,700	1,186,600	134,300	1.111
1988: July 1 ...	1,080,000	20,800	1,200,600	141,400	1.112
1989: July 1 ...	1,094,600	18,700	1,245,500	169,700	1.138
1990: April 1 ..	1,108,229	18,400	1,248,400	158,500	1.126
July 1 ...	1,113,500	18,000	1,257,600	162,100	1.129

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: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 2; Federal-State Cooperative Program for Population Estimates, provisional intercensal and postcensal estimates, 1981-1990.

Table 4.-- 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 5.-- RESIDENT POPULATION, BY COUNTIES: 1970 TO 1990

[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>
1970: April 1 ...	769,913	630,528	63,468	29,761	46,156
July 1	771,600	631,600	63,800	29,800	46,500
1971: July 1	801,600	654,600	67,000	30,900	49,100
1972: July 1	828,300	674,900	70,000	31,900	51,500
1973: July 1	851,600	691,400	73,900	32,900	53,400
1974: July 1	868,000	707,600	74,000	32,600	53,800
1975: July 1	886,200	718,600	77,400	33,400	56,800
1976: July 1	904,200	728,300	80,700	34,900	60,300
1977: July 1	918,300	737,000	82,800	35,500	63,000
1978: July 1	931,600	742,600	85,900	36,800	66,200
1979: July 1	953,300	756,000	89,400	38,100	69,700
1980: April 1 ...	964,691	762,565	92,053	39,082	70,991
July 1	967,400	763,800	92,800	39,300	71,500
1981: July 1	978,200	767,400	96,300	40,500	74,100
1982: July 1	993,800	776,700	98,800	41,600	76,700
1983: July 1	1,012,800	790,200	100,600	42,500	79,500
1984: July 1	1,028,000	797,200	104,300	43,500	83,000
1985: July 1	1,039,800	804,500	105,900	44,500	84,800
1986: July 1	1,051,900	813,000	107,200	45,300	86,500
1987: July 1	1,068,100	821,700	110,000	46,800	89,600
1988: July 1	1,080,000	828,300	111,800	47,900	92,000
1989: July 1	1,094,600	832,400	116,300	49,600	96,300
1990: April 1 ...	1,108,229	836,231	120,317	51,177	100,504
July 1	1,113,500	839,300	121,300	51,600	101,400

1/ Including Kalawao County (Kalaupapa Settlement).

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 3; Federal-State Cooperative Program for Population Estimates, provisional intercensal and postcensal estimates, 1981-1990.

Table 6.-- DE FACTO POPULATION, BY COUNTIES: 1970 TO 1990

[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>
1970: April 1 ...	796,500	650,700	65,700	31,800	48,400
July 1	798,600	650,200	66,600	32,300	49,400
1971: July 1	833,100	675,300	70,600	34,000	53,100
1972: July 1	869,800	702,200	74,500	35,800	57,200
1973: July 1	901,300	726,400	78,700	36,900	59,400
1974: July 1	923,700	746,500	79,500	36,800	60,900
1975: July 1	943,500	757,100	83,300	38,100	65,100
1976: July 1	970,300	772,900	86,800	40,100	70,500
1977: July 1	992,300	786,800	89,300	41,300	74,900
1978: July 1	1,014,300	797,200	93,400	43,600	80,100
1979: July 1	1,042,700	816,000	96,700	45,200	84,800
1980: April 1 ...	1,052,700	822,000	98,700	46,100	85,900
July 1	1,054,300	822,500	99,200	46,300	86,300
1981: July 1	1,062,500	824,500	101,800	47,300	88,900
1982: July 1	1,084,600	838,300	104,300	48,200	93,800
1983: July 1	1,109,300	847,400	108,300	50,200	103,500
1984: July 1	1,130,600	851,800	110,400	53,900	114,500
1985: July 1	1,138,000	855,000	112,500	55,300	115,100
1986: July 1	1,167,500	873,500	115,500	59,400	119,200
1987: July 1	1,186,600	884,200	118,600	61,700	122,100
1988: July 1	1,200,600	892,400	120,600	63,500	124,000
1989: July 1	1,245,500	907,000	132,000	67,800	138,700
1990: April 1 ...	1,248,400	908,000	135,100	68,000	137,300
July 1	1,257,600	913,100	136,300	68,900	139,300

1/ Including Kalawao County (Kalaupapa Settlement).

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 10; Federal-State Cooperative Program for Population Estimates, provisional intercensal and postcensal estimates, 1980-1990.

Table 7.-- 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 8.-- 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 9.-- 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
Waiialua	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 10.-- RESIDENT POPULATION OF ISLANDS AND CENSUS DESIGNATED PLACES: 1990

[This table presents data for the 123 "census designated places" defined by the Hawaii State Department of Business, Economic Development & Tourism, in cooperation with the Bureau of the Census, for the 1990 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political]

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

Continued on next page.

Table 10.-- RESIDENT POPULATION OF ISLANDS AND CENSUS
DESIGNATED PLACES: 1990 -- Con.

Island and place	Resident population	Island and place	Resident population
Oahu 1/	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 2/	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	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 10.-- RESIDENT POPULATION OF ISLANDS AND CENSUS
DESIGNATED PLACES: 1990 -- Con.

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

2/ 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.

Source: U.S. Bureau of the Census, printouts dated February 21, 1991.

Table 11.-- 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	253,978,000	1,136,000	861,000	122,000	102,000
Percent net undercount ..	2.1	2.4	2.9	1.4	1.6

Source: U.S. Bureau of the Census, Release CB91-221 (June 13, 1991), tables 1 and 3.

Table 12.-- 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).

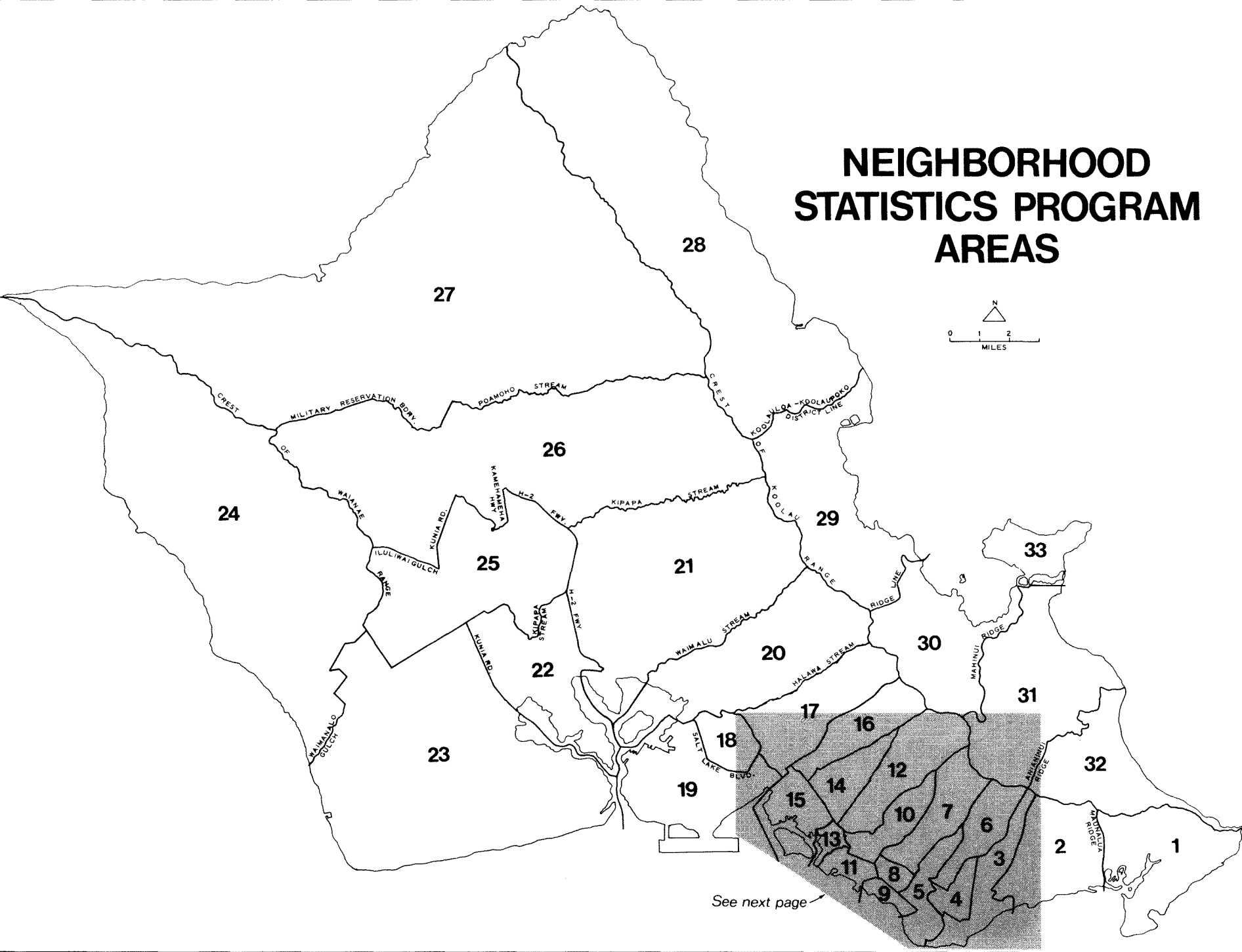
3/ The City and County of Honolulu consists of Oahu and the Northwestern Hawaiian Islands (except Midway).

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.

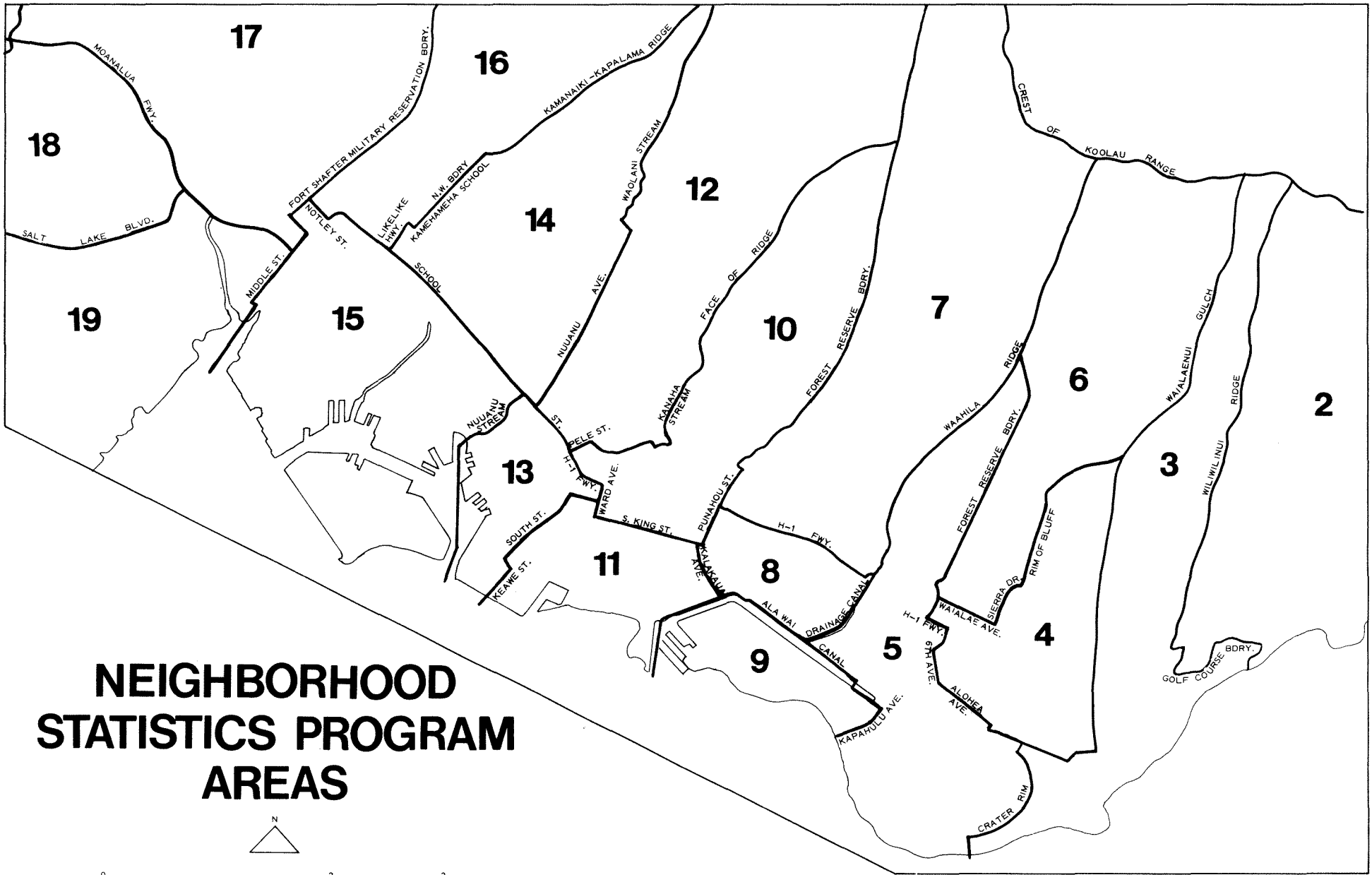
5/ Among all U.S. counties.

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



See next page →



NEIGHBORHOOD STATISTICS PROGRAM AREAS

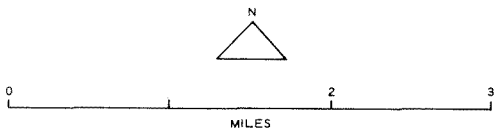


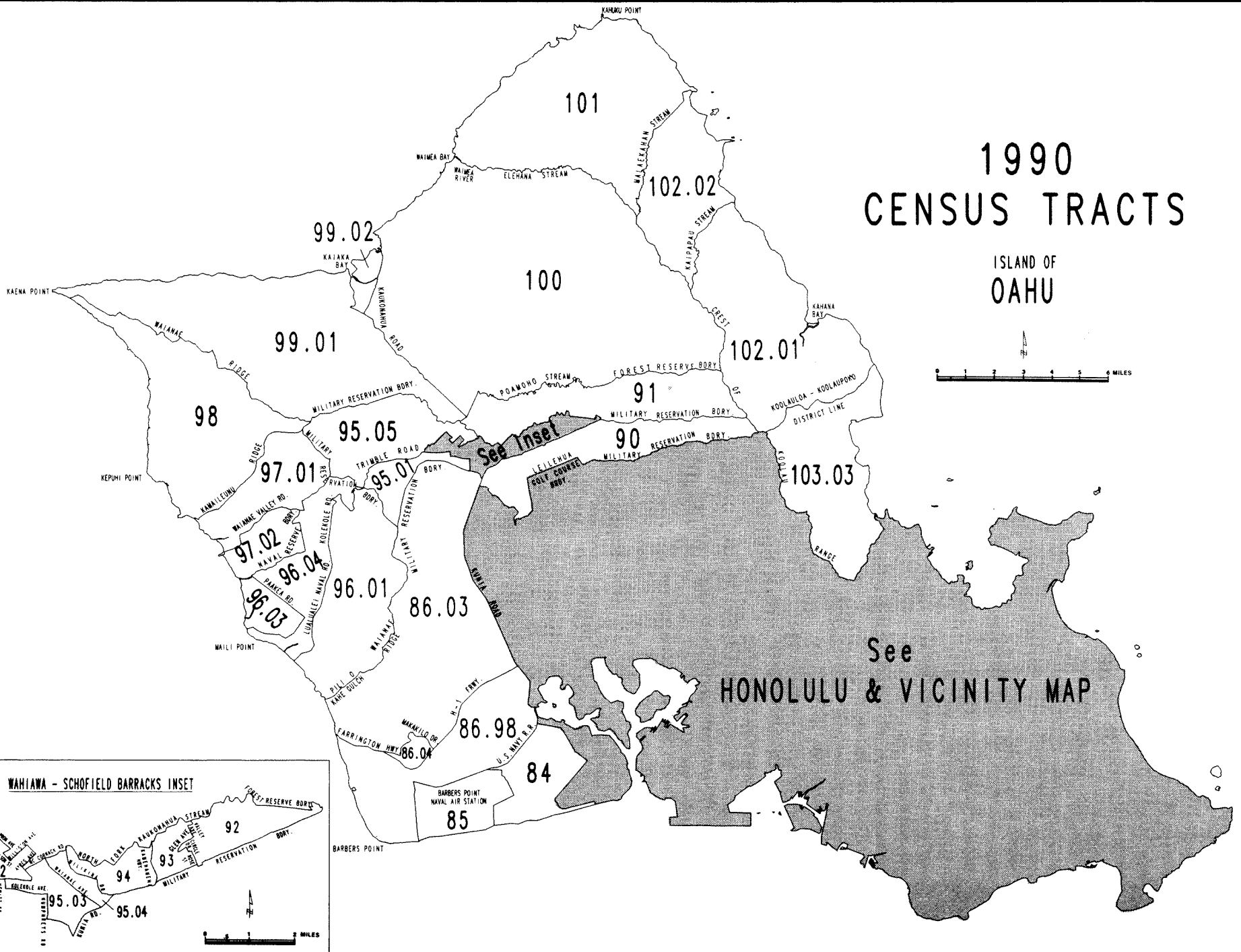
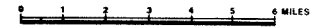
Table 13.-- POPULATION OF OAHU NEIGHBORHOODS: 1980 AND 1989

Neighborhood (see maps on pp. 25-26)	April 1, 1980	July 1, 1989	Percent increase
Oahu total	762,564	841,600	10.4
1 Hawaii Kai	25,603	28,737	12.2
2 Kuliouou	14,187	15,933	12.3
3 Waialae-Kahala	11,459	11,362	-0.8
4 Kaimuki	19,742	19,930	1.0
5 Diamond Head/ Kapahulu	21,206	21,574	1.7
6 Palolo	13,793	14,103	2.2
7 Manoa	23,213	23,961	3.2
8 McCully/Moiliili	26,644	26,471	-0.6
9 Waikiki	17,384	18,680	7.5
10 Makiki/Tantalus	28,340	28,456	0.4
11 Ala Moana/Kakaako	10,091	11,327	12.2
12 Nuuanu/Punchbowl	16,145	16,847	4.3
13 Downtown	8,598	11,653	35.5
14 Liliha/Kapalama	21,046	23,331	10.9
15 Kalihi/Palama	40,144	40,118	-0.1
16 Kalihi Valley	17,613	17,809	1.1
17 Moanalua	12,948	12,927	-0.2
18 Aliamanu/Salt Lake	30,785	37,247	21.0
19 Airport	28,436	28,514	0.3
20 Aiea	30,363	34,522	13.7
21 Pearl City	42,816	49,451	15.5
22 Waipahu	34,861	51,625	48.1
23 Ewa	35,632	39,516	10.9
24 Waianae Coast	31,564	35,121	11.3
25 Mililani/Waipio	24,363	32,813	34.7
26 Wahiawa	42,169	43,882	4.1
27 North Shore	12,921	14,008	8.4
28 Koolauloa	11,123	12,388	11.4
29 Kahaluu	11,330	13,058	15.2
30 Kaneohe	36,125	42,086	16.5
31 Kailua/Mokapu	52,771	55,058	4.3
32 Waimanalo	9,139	9,091	-0.5

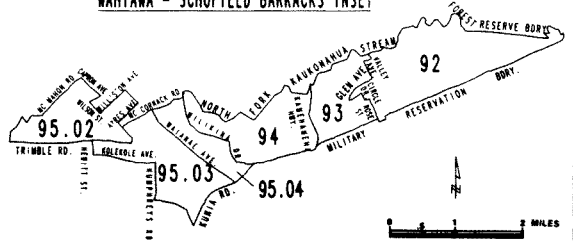
Source: Honolulu Department of General Planning, records.

1990 CENSUS TRACTS

ISLAND OF
OAHU

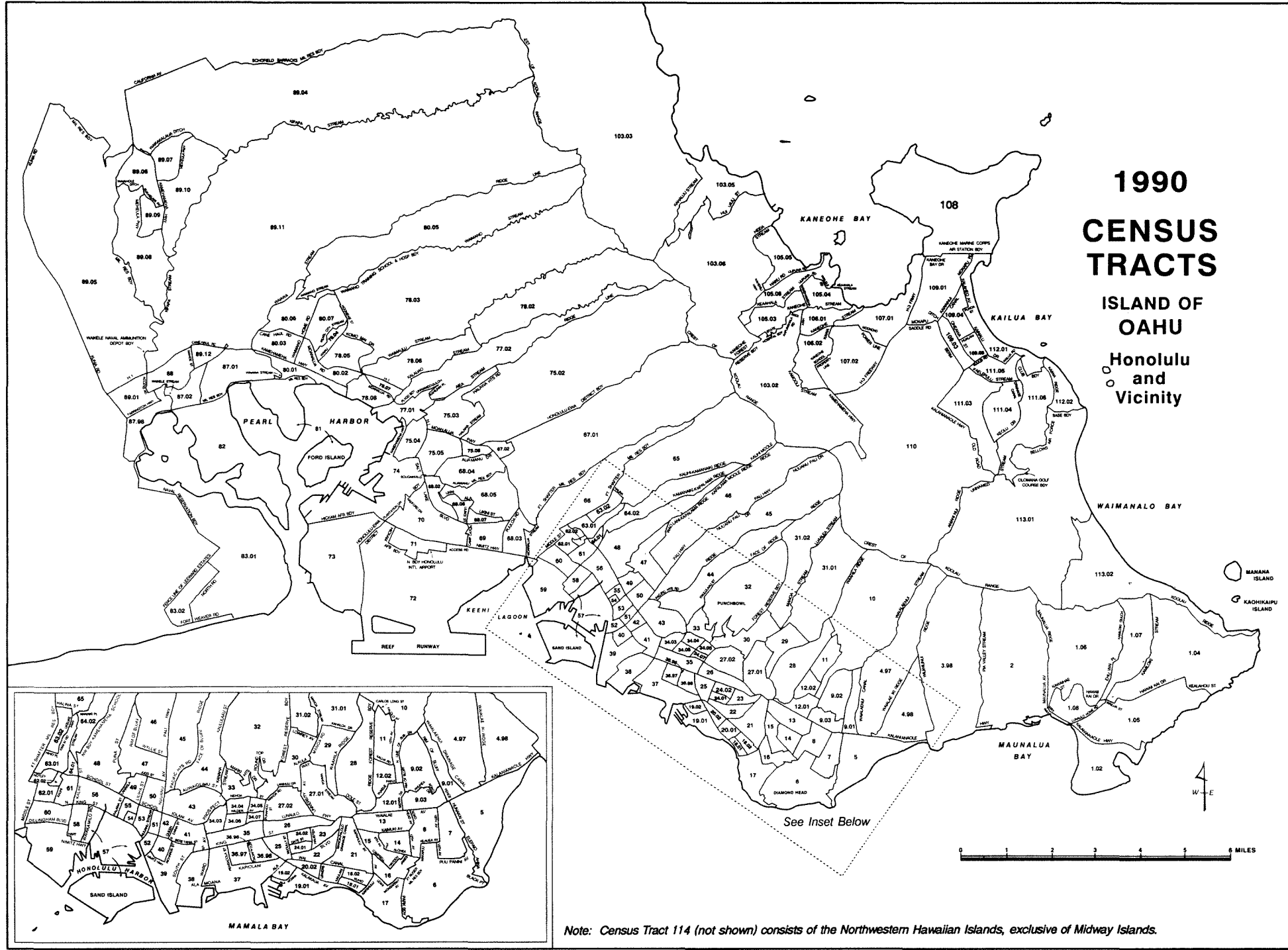


WAIANA - SCHOFIELD BARRACKS INSET

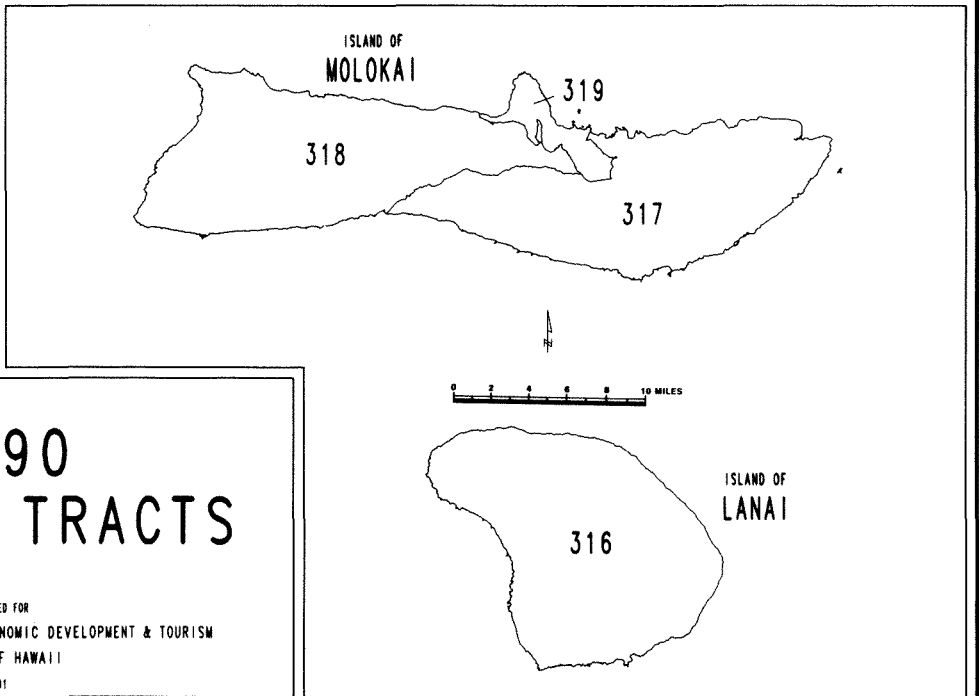
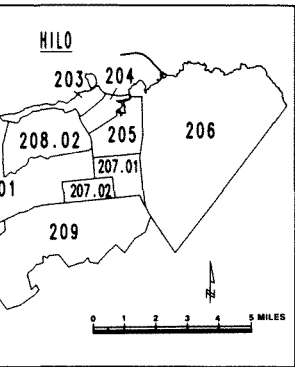
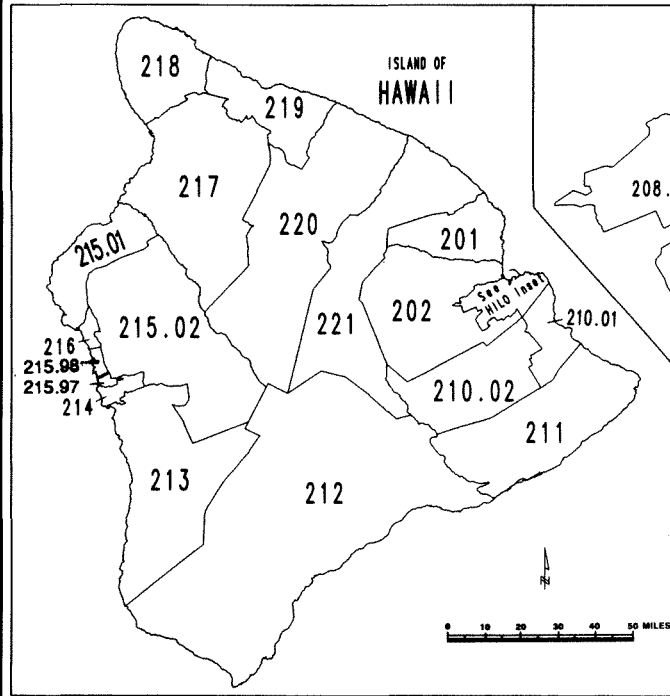
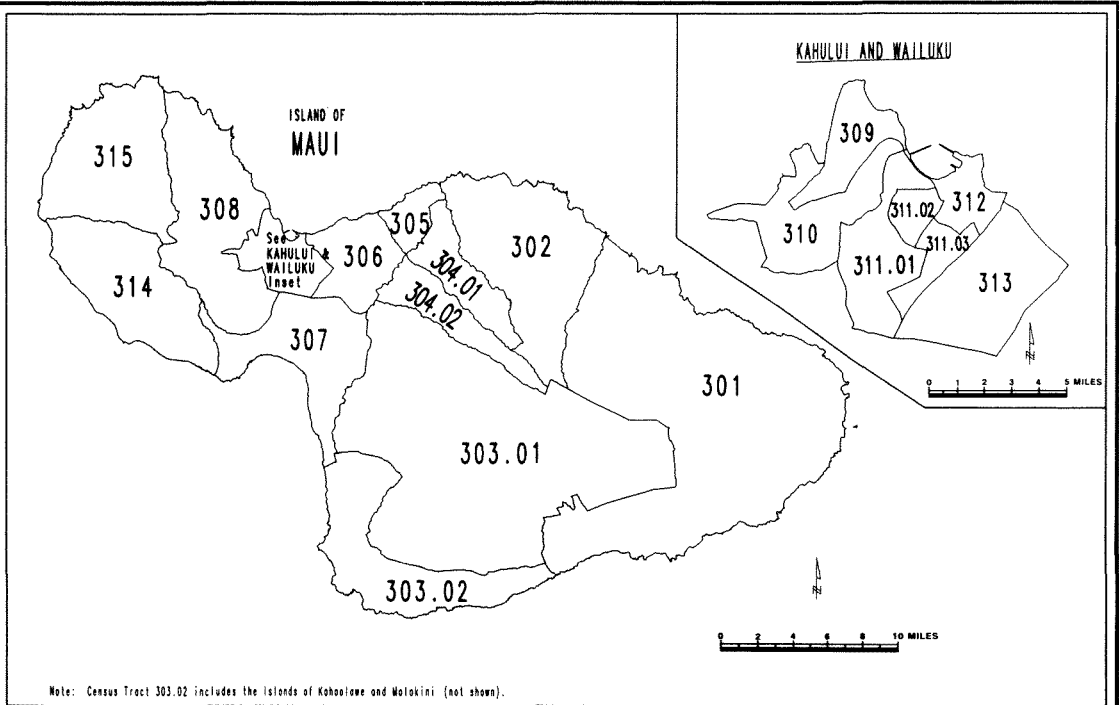
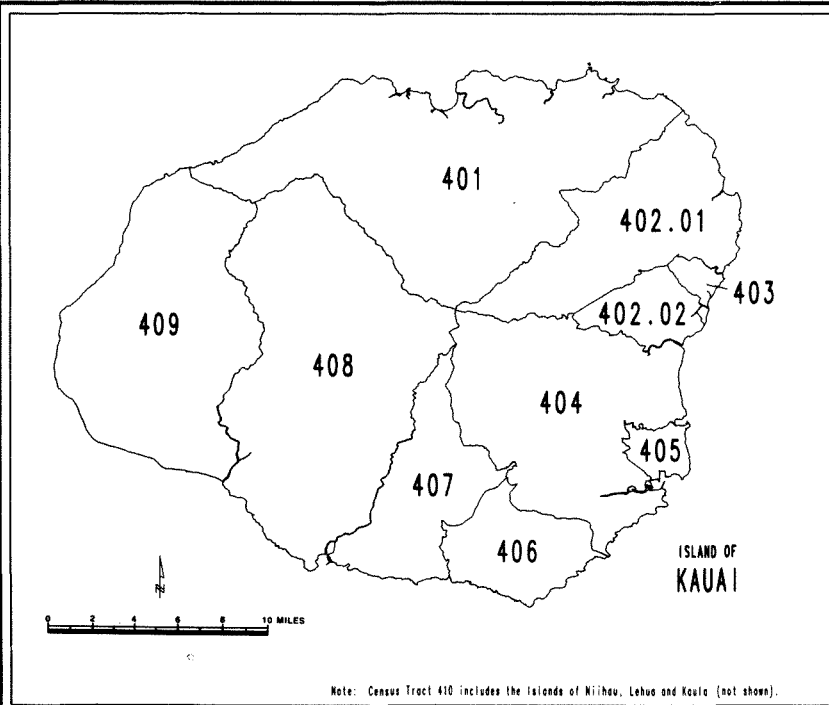


1990 CENSUS TRACTS

ISLAND OF
OAHU
Honolulu
and
Vicinity



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

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

District 1/ and census tract	Population	Households	District 1/ and census tract	Population	Households
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 2/	298	-
			58	3,404	1,073

Continued on next page.

Table 14.-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990 - Con.

District <u>1</u> / and census tract	Popu- lation	House- holds	District <u>1</u> / and census tract	Popu- lation	House- holds
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 <u>2</u> /	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 <u>2</u> /	53	-	89.07	4,560	1,304
74	3,633	711	89.08	6,688	1,910
74.99 <u>2</u> /	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

Continue on next page.

Table 14.-- 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 15.-- RESIDENT POPULATION AND HOUSEHOLDS FOR HAWAII, KALAWAO, KAUAI,
AND MAUI COUNTIES, BY DISTRICTS AND CENSUS TRACTS: 1990

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

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

Continue on next page.

Table 15.-- 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	Lahaina	14,574	4,868
303.01	5,525	1,960	314	9,189	2,683
303.02	2,496	1,029	315	5,385	2,185
304.01	7,271	2,290			
304.02	6,127	1,929	Lanai	2,426	847
305	2,093	674	316	2,426	847
Wailuku	45,685	15,017	Molokai	6,587	2,026
306	213	85	317	4,419	1,407
307	12,869	4,902	318	2,168	619
307.99 ^{1/}	9	-			
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 16.-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR
 WAIKIKI: 1960 TO 1990

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

Subject	1960	1970	1980	1990	Density <u>1/</u>	
					1980	1990
Resident population	11,075	13,124	17,384	19,768	34.3	39.0
Temporarily absent <u>2/</u> ..	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 <u>2/</u>	7,714	21,926	46,500	76,538	91.7	151.0
Employed persons: <u>3/</u>						
Living in Waikiki	6,327	7,866	9,593	(NA)	18.9	(NA)
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 Hawaii State Data Center 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 P.L. 94-171 tape, and Data Book 1987, table 380.

Table 17.-- 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 <u>1/</u>	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 <u>1/</u>	986,171	806,429	73,135	28,264	78,343
Rural	122,058	29,802	47,182	22,913	22,161

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

Source: U.S. Bureau of the Census, 1990 Census of Population and Housing, printout, and Geography Division, records.

Table 18.-- CENTERS OF POPULATION, BY COUNTIES: 1980

County	North latitude (degrees)	West longitude (degrees)	Approximate location
State of Hawaii ..	21.2009	157.6129	7 mi. SE of Koko Head
Hawaii County	19.7015	155.3667	17 mi. W of Hilo
Maui County	20.8809	156.5184	1 mi. SW of Wailuku PO
Kalawao County	21.1930	156.9766	Kalaupapa
Honolulu County	21.3704	157.8946	1457 Ala Aolani St.
Kauai County	22.0065	159.4659	3.5 mi. N of Knudsen Gap

Source: Hawaii State Census Statistical Areas Committee, Centers of Population, 1960-1980 (Report CTC-59, August 17, 1984).

Table 19.-- 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	32.6

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

Subject	State total	City & Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	1,108,229	836,231	120,317	130	51,177	100,374
Male	563,891	425,994	60,665	80	25,951	51,201
Female	544,338	410,237	59,652	50	25,226	49,173
Males per 100 females ..	103.6	103.8	101.7	160.0	102.9	104.1
Under 18 years	280,126	204,613	34,515	-	14,115	26,883
18 to 64 years	703,098	539,786	70,716	86	30,378	62,132
65 years and over	125,005	91,832	15,086	44	6,684	11,359
Percent:						
Under 18 years	25.3	24.5	28.7	0	27.6	26.8
18 to 64 years	63.4	64.5	58.8	66.2	59.4	61.9
65 years and over	11.3	11.0	12.5	33.8	13.1	11.3
Median age (years)	32.6	32.2	34.3	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 21.-- ETHNIC STOCK BY MILITARY STATUS: 1988

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,024 persons]

Ethnic stock <u>1/</u>	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	1,048,702	100.0	38,815	67,323	942,564
Unmixed	717,415	68.4	36,463	52,933	628,019
Caucasian	249,586	23.8	24,669	33,364	191,553
Japanese	228,567	21.8	965	1,905	225,697
Chinese	48,476	4.6	2,003	626	47,787
Filipino	126,200	12.0	63	5,503	118,694
Hawaiian	9,417	0.9	73	-	9,344
Korean	11,205	1.1	-	485	10,720
Black	19,392	1.8	7,917	8,272	3,203
Puerto Rican	4,591	0.4	341	914	3,336
Samoan	6,734	0.6	324	1,304	5,106
Other unmixed or unknown	13,247	1.3	108	560	12,579
Mixed	331,287	31.6	2,352	14,390	314,544
Part Hawaiian	207,146	19.8	556	4,456	202,134
Non Hawaiian	124,141	11.8	1,796	9,934	112,411

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 22.-- ETHNIC STOCK, BY COUNTIES: 1988

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,024 persons]

Ethnic stock <u>1/</u>	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,048,702	796,654	113,690	47,343	91,015
Unmixed	717,415	558,987	70,172	30,191	58,065
Caucasian	249,586	187,047	28,918	8,663	24,958
Japanese	228,567	178,396	24,913	9,743	15,515
Chinese	48,476	45,999	1,661	304	512
Filipino	126,200	91,795	11,673	10,298	12,434
Hawaiian	9,417	5,405	1,314	388	2,310
Korean	11,205	10,141	425	177	462
Black	19,392	19,055	35	20	282
Puerto Rican	4,591	3,514	497	151	429
Samoan	6,734	6,546	134	23	31
Other unmixed and unknown	13,247	11,089	602	424	1,132
Mixed	331,287	237,667	43,518	17,152	32,950
Part Hawaiian	207,146	142,793	29,824	11,166	23,363
Non Hawaiian	124,141	94,874	13,694	5,986	9,587

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 23.-- 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 24.-- PLACE OF BIRTH, CITIZENSHIP, AND LENGTH OF RESIDENCE IN HAWAII, BY MILITARY STATUS: 1988

[Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Based on a sample survey of 17,024 persons]

Subject	All groups	Armed forces	Military dependents	Other civilians
Total	1,048,686	38,815	67,323	942,548
PLACE OF BIRTH				
Native born	896,467	35,442	55,588	805,437
Hawaii	650,215	2,497	14,123	633,595
Mainland U.S.	236,265	32,021	40,345	163,899
American Samoa ..	4,835	256	461	4,118
U.S. territory, possession	5,152	668	659	3,825
Foreign born	148,607	3,227	11,524	133,856
China	13,599	0	768	12,831
Indo-China	6,511	54	341	6,116
Japan	21,754	341	1,556	19,857
Korea	9,094	-	541	8,553
Philippines	71,452	1,675	4,804	64,973
Other foreign	26,197	1,157	3,514	21,526
Not reported	3,612	146	211	3,255
CITIZENSHIP				
U.S. citizen	984,071	38,011	62,420	883,640
Native born	913,687	36,386	59,401	817,900
Naturalized	70,384	1,625	3,019	65,740
U.S. national	2,087	-	-	2,087
Alien	51,584	658	4,548	46,378
Not reported	10,960	146	355	10,459
LENGTH OF RESIDENCE IN HAWAII				
Less than 1 year	48,090	5,523	10,978	31,589
1 to 4 years	184,422	26,373	44,432	113,617
5 to 9 years	119,708	3,146	5,543	111,019
10 to 19 years	222,969	1,118	2,777	219,074
20 years or more	463,462	2,348	2,592	458,522
Not reported	10,051	307	1,001	8,743
Median years	17.5	3.1	3.0	19.6

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

Table 25.-- LANGUAGE SPOKEN AT HOME BY PERSONS FIVE YEARS OLD AND OVER,
BY ABILITY TO SPEAK ENGLISH: 1980

[Unless otherwise specified, data are based on a 15.7-percent sample]

Language	Total	Speak English --			
		Very well	Well	Not well	Not at all
Persons 5 and over	887,707	...	...	...	...
Speak only English at home	658,752	...	...	...	...
Speak a language other than English at home	228,955	110,338	74,946	37,797	5,874
Chinese <u>1/</u>	20,066	9,057	6,096	4,014	899
Japanese <u>1/</u>	80,230	39,640	24,705	13,475	2,410
Korean	9,231	2,707	3,317	2,749	458
Philippine language <u>1/</u>	66,655	26,550	26,311	12,533	1,261
Spanish	11,933	8,752	2,460	697	24
All others	40,840	23,632	12,057	4,329	822
Speak a Polynesian language at home <u>2/</u>	21,740	12,220	7,200	2,220	100
Hawaiian <u>2/</u> , <u>3/</u>	9,060	6,580	2,200	240	40
Samoan <u>2/</u>	11,020	5,000	4,320	1,640	60
Tongan <u>2/</u>	1,180	360	560	260	-
Other Polynesian <u>2/</u>	480	280	120	80	-

1/ For statistics on individual Chinese, Japanese, and Philippine languages or dialects, see Data Book 1984, tables 38 and 39.

2/ Based on the 5-percent Public Use Microdata Sample.

3/ For demographic characteristics of persons speaking Hawaiian at home, see Data Book 1986, table 32.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 197, and Census of Population and Housing, 1980, Public Use Microdata Sample A--5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 26.-- 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 27.-- 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 28.-- 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 29.-- 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 30.-- 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 31.-- 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 32.-- 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 33.-- INTENDED RESIDENTS ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL AND MILITARY STATUS: 1985 TO 1990

Year	All intended residents	Westbound by military status				Eastbound and northbound <u>1/</u>
		Total	Military service	Military dependent	All other	
1985	(NA)	25,770	11,247	11,599	2,924	(NA)
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

NA Not available.

1/ Not available by military status.

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

Table 34.-- CHARACTERISTICS OF INTENDED RESIDENTS ARRIVING IN HAWAII: 1990

Characteristics	Persons		Characteristics	Westbound	
	West-bound	Other <u>1/</u>		Party heads	Persons
Previous residence	29,320	8,850	Occupation of head ..	16,210	29,320
United States	28,760	920	Management	1,990	3,600
Foreign	570	7,930	Professional	2,970	5,370
Age:			Military service ..	5,470	9,890
Median (years)	26.5	(NA)	Mil. dependent	670	1,220
60 and over	1,460	(NA)	Student	1,000	1,820
Males per 100 females ..	106.0	(NA)	Retired	490	890
			All others	3,620	6,530

NA Not available.

1/ Eastbound or northbound.

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

Table 35.-- IMMIGRANTS ADMITTED, BY COUNTRIES OF BIRTH: 1986 TO 1990

[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	1986	1987	1988	1989 <u>1/</u>	1990
All countries	7,814	6,796	6,637	7,086	7,858
Canada	115	131	139	140	158
China and Taiwan	724	678	579	766	664
Japan	240	265	285	333	335
Korea	894	912	913	828	721
Philippines	4,508	3,784	3,410	3,587	4,167
Vietnam	296	144	330	350	543
Other countries	1,037	882	981	1,082	1,270

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.

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

Table 36.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1985 TO 1990

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	Vietnam	Other countries
1985	4,291	238	561	2,434	93	(1/)	965
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

1/ Included with "other countries."

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

Table 37.-- RESIDENCE ONE YEAR EARLIER, 1981-1984 AND 1986-1989,
AND FIVE YEARS EARLIER, 1985

[Excludes persons in military group quarters. Based on a sample of 2,428 households (7,512 persons of all ages) for 1981-1984, 532 households (1,616 persons) for 1985, 2,041 households (6,064 persons) for 1986-1989]

Subject	Total population <u>1/</u>	Non-movers	Different house		
			Same State	Different State	Different country
Residence 1 year earlier:					
Annual average, 1981-1984	960,402	782,172	129,081	39,473	9,676
Annual average, 1986-1989	1,034,158	847,399	121,468	52,961	12,331
Residence 5 years earlier, 1985	921,236	534,131	252,978	107,359	26,768

1/ Excludes persons under 1 year old in 1981-1984, 1986-1989, and under 5 years old in 1985.

Source: U.S. Bureau of the Census for U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1981 to 1988; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 38.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1987 AND 1988

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 17,733 persons 1 year old and over in 1987 and 17,024 persons 1 year old and over in 1988]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
1987				
Population 1 and over	1,028,244	37,626	61,437	929,181
Same house	846,706	23,608	40,092	783,006
Different house, same island	117,383	6,235	7,404	103,744
Different island	5,920	9	26	5,885
Different state	40,845	5,764	11,564	23,517
U.S. territory or possession	1,545	123	-	1,422
Different country	7,802	1,238	1,404	5,160
Previous residence not reported .	8,043	649	947	6,447
Migrants 1/	50,192	7,125	12,968	30,099
Percent of number reporting ...	4.9	18.9	21.1	3.2
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 1/	49,048	7,910	10,511	30,627
Percent of number reporting ...	4.7	20.4	16.4	3.3

1/ From different state, territory, or country.

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

Table 39.-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS: 1987 AND 1988

[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 17,733 persons in 1987 and 17,024 persons in 1988. Excludes persons living in institutions or barracks, in Kalawao, or on Niihau]

Likelihood of out-migration	All groups	Armed forces	Military dependents	Other civilians
1987				
Total	1,044,031	37,626	65,134	941,271
Almost certain to be living in Hawaii	965,588	24,640	47,671	893,277
Some possibility of living elsewhere	21,040	2,040	2,994	16,006
A good chance of living elsewhere ...	13,203	1,149	2,328	9,726
Almost certain to be living elsewhere	34,452	9,301	11,275	13,876
Not reported	9,748	496	866	8,386
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

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 6,687 resident deaths in 1990, or 6.0 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 7.1 in 1990. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fourth. Resident live births in 1990 numbered 20,438, or 18.4 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 98.2 percent of all babies were born in hospitals in 1990, and one-fifth were born to military couples. One out of four births was to an unmarried woman. There were 6,396 fetal deaths in 1990, including 4,707 elective abortions. Marriages numbered 18,306 in 1990, with about 46 percent accounted for by nonresidents. Divorces reached a 1990 total of 5,179. 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 2,563 physicians and surgeons, 915 dentists, 8,848 professional nurses, and 591 pharmacists licensed and living in Hawaii as of February 1991. 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 1990 were scarlet fever, with 4,771 cases, and chicken pox, with 2,007, but the most fatal was AIDS (60 deaths). State mental health facilities served 8,044 patients in 1990, but the number of in-patients at the end of the year was only 205. 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: 1991 contain data for the nation as a whole.

Table 40.-- BIRTHS AND DEATHS: 1970 TO 1990

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	6,380	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

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 estimates in present report, table 2.

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 41.-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1989 AND 1990

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians <u>1/</u>			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
Deaths:						
1989	6,730	48	6,682	78	6,604	126
1990	7,055	40	7,015	78	6,937	118
Birth rates: <u>2/</u>						
1989	15.6	0	16.3	63.3	13.8	32.7
1990	16.3	0	17.1	68.3	14.4	35.5
Death rates: <u>2/</u>						
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

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, based on estimates in present report, tables 2 and 3.

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

Table 42.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1985 TO 1990

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate <u>1/</u>			
1985	25,335	24.4	18,267	1,473	5,595
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 <u>2/</u> ...	26,834	24.1	20,438	1,689	4,707

1/ Per 1,000 resident population, July 1. From present report, table 2.

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

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

Table 43.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1989 AND 1990

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State <u>1/</u>
Births:						
1989 ...	19,428	19,335	93	-	19,361	26
1990 ...	20,528	20,438	89	1	20,466	28
Deaths:						
1989 ...	6,730	6,380	211	139	6,551	171
1990 ...	7,055	6,687	364	4	6,879	192

1/ Data received from other States.

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

Table 44.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1988 TO 1990

[Excludes births to Hawaii residents occurring out of state]

Subject	1988	1989	1990
Number of resident births	18,937	19,335	20,438
City and County of Honolulu	14,430	14,736	15,380
Percent on Oahu	76.2	76.2	75.3
Hawaii County	1,980	2,007	2,228
Kauai County	873	861	945
Maui County (incl. Kalawao)	1,654	1,731	1,885
Percent attended by M.D. or O.D. in hospital <u>1/</u>	98.6	98.3	98.2
Males per 100 females	103.6	104.8	105.3
Median weight of single births (grams)	3,315	3,317	3,318
Percent low birth weight (under 2,500 grams) ...	6.9	7.1	7.1
Percent single births under 40 weeks gestation .	51.1	48.9	48.6
Percent plural	1.8	2.3	2.0
Percent with 1 or more congenital malformations	3.2	1.4	1.4
Percent illegitimate	22.4	23.9	25.0
Percent with prenatal visit in first three months	71.6	70.5	68.9
Percent first child born to mother <u>2/</u>	30.3	29.9	29.1
Percent first child born alive to mother	42.1	42.1	42.5
Median age of mothers (years)	27.1	27	27
Median age of known fathers (years)	29.6	29	29

1/ Place of occurrence basis.

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

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

Table 45.-- FERTILITY RATES, BY MILITARY STATUS: 1980 AND 1988

[Military dependents are included in the military category. For 1960 and 1970 data, see Data Book 1987, table 60]

Military status	Crude birth rate <u>1/</u>		General fertility rate <u>2/</u>		Total fertility rate <u>3/</u>	
	1980	1988	1980	1988	1980	1988
Total	18.8	17.4	78.7	73.5	2,084	2,158
Civilian	16.5	15.7	68.9	66.5	1,871	2,013
Military	35.0	30.2	147.5	126.9	3,496	2,930

1/ Annual number of live births per 1,000 resident population.

2/ Annual number of live births per 1,000 women 15-44 years of age.

3/ Average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

Source: 1980 calculated by Eleanor C. Nordyke, East-West Population Institute; 1988 estimated by Hawaii State Data Center.

Table 46.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF PARENTS: 1990

Military status of parents	Total births	Unmixed	Mixed <u>1/</u>	Not certain <u>2/</u>
All groups	20,438	8,921	10,379	1,138
Military	4,059	2,998	971	90
Civilian	14,531	5,922	8,604	5
Status not reported	1,848	1	804	1,043

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 47.-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX: 1990

[A total of 6,789 first names, including variant spellings, was reported for the 20,528 babies born in Hawaii in 1990]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Joshua	213	Ashley	186
2	Michael	204	Jessica	147
3	Christopher	183	Nicole	118
4	Justin	169	Brittany	109
5	Matthew	143	Jennifer	94
6	Jordan	137	Sarah	93
7	Ryan	126	Amanda	87
8	Brandon	120	Michelle	86
9	James	118	Lauren	84
10	Daniel	116	Chelsea	83

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

Table 48.-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1990

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	105	Lee	51
2	Smith	74	Wong	37
3	Wong	71	Kim	28
4	Johnson	67	Nakamura	27
5	Williams	65	Tanaka	27
6	Kim	62	Ching	23
7	Brown	55	Lum	23
8	Jones	48	Yamamoto	23
9	Martin	40	Chang	22
10	Ramos	40	Smith	21

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

Table 49.-- 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: 1989, p. 71.

Table 50.-- CHARACTERISTICS OF RESIDENT DEATHS: 1987 TO 1990

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1987	1988	1989	1990
Number of resident deaths	6,147	5,970	6,380	6,687
City and County of Honolulu	4,534	4,304	4,634	4,796
Hawaii County	784	793	845	889
Kauai County	305	339	323	341
Maui County (incl. Kalawao)	522	534	578	661
Males per 100 females	144.4	145.1	139.7	139.2
Median age (years)	72.2	72.9	73	73
Centenarian deaths: Male	14	14	13	14
Female	21	24	27	36
Oldest (years): Male	107	102	104	105
Female	103	107	106	104
Percent married	46.9	48.2	45.9	46.7
Deaths under 1 year	164	131	156	132
Per 1,000 live births	8.8	7.4	8.1	6.5
Fetal deaths <u>1/</u>	7,264	7,409	6,748	6,396
Per 1,000 deliveries	392	281	259	238
Fetal deaths, 20 or more weeks gestation <u>2/</u>	183	205	193	213
Per 1,000 live births	9.2	10.8	10.0	10.4
Standard fetal deaths <u>3/</u>	1,405	1,411	1,468	1,689
Elective abortions	5,971	5,998	5,280	4,707
Per 1,000 live births	321.8	314.8	273.1	230.3

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 51.-- CAUSE OF DEATH, BY SEX: 1990

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	6,687	3,892	2,795
Tuberculosis	4	3	1
Syphilis	1	-	1
Other infective	176	135	41
Malignant neoplasm	1,644	961	683
Digestive organs	536	342	194
Respiratory system	412	277	135
Breast	123	-	123
Genital organs	167	105	62
Urinary organs	44	29	15
Leukemia	54	44	10
Other	308	164	144
Diabetes mellitus	163	88	75
Heart disease	2,084	1,188	896
Rheumatic	25	13	12
Hypertensive	55	25	30
Ischemic	1,078	632	446
Other heart	926	518	408
Hypertension	13	7	6
Cerebrovascular disease	514	263	251
Arteriosclerosis	34	16	18
Other circulatory	103	62	41
Aneurysm	-	-	-
Influenza/pneumonia	282	148	134
Chronic obstructive pulmonary diseases	224	132	92
Peptic ulcer	13	9	4
Cirrhosis of liver	77	47	30
Nephritis and nephrosis	48	26	22
Pregnancy, birth & puerperium	2	-	2
Congenital anomalies	36	14	22
Perinatal conditions	63	37	26
Ill-defined conditions	62	36	26
Other diseases	504	263	241
Accidents	291	219	72
Motor vehicles	173	126	47
Other	118	93	25
Suicide	132	102	30
Homicide & legal intervention	42	32	10
Other external causes	175	104	71

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

Table 52.-- CATASTROPHIC MORTALITY: 1981 TO 1991

[Includes all accidents, natural disasters, and other events causing five or more deaths. Complete through September 30, 1991]

Date	Place	Kind of disaster	Deaths
1981: Dec. 5	Pearl Harbor	Airplane crash	11
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

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 53.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1970 TO 1990

Method	1970	1980	1987	1988	1989	1990
All methods	4,197	5,204	6,490	6,315	6,730	7,055
Burial	2,197	2,343	2,690	2,543	2,740	2,798
Cremation	1,509	2,241	3,185	3,145	3,369	3,564
Removal	470	567	565	591	594	656
Entombment	13	44	39	29	19	35
Educational purpose	3	-	-	-	-	-
Other	-	1	-	-	-	-
Unknown	5	8	11	7	8	2

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

Table 54.-- 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 55.-- 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 56.-- CHRONIC CONDITIONS: 1988

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Malignant neoplasms	7,373	6.9
Benign and unspecified neoplasms ...	5,404	5.1
Thyroid disease	11,887	11.2
Diabetes	23,581	23.3
Mental and nervous condition	11,172	10.6
Heart condition	27,671	26.2
Hypertension	82,539	78.1
Varicose veins	8,646	8.2
Hemorrhoids	14,262	13.5
Bronchitis/emphysema	17,391	16.5
Asthma	48,196	45.6
Hayfever	67,322	63.7
Chronic sinusitis	48,520	45.9
Stomach ulcer	9,822	9.3
Gallbladder	9,198	8.7
Kidney stone	6,843	6.5
Skin condition	49,731	47.1
Arthritis	37,719	35.7
Visual impairment	10,162	9.6
Hearing impairment	42,427	40.2
Impairment of back or spine	71,119	67.3
Gout	39,119	37.0

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

Table 57.-- ACUTE CONDITIONS: 1988

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	2,590,589	245.2
Infective parasitic diseases	90,760	8.6
Respiratory condition	1,776,650	168.1
Digestive system condition	71,212	6.7
Injuries	241,134	22.8
All other acute conditions	410,833	38.9

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

Table 58.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1988

Type of limitation	Number
Persons with one or more chronic conditions	441,362
No limitation of activity	339,299
Limited, but not in major activity	26,102
Limited in amount or kind of activity	41,859
Unable to carry on major activity	12,882
Not reported	21,220
Restricted days in past 12 months <u>1/</u>	12,672,145
Per person <u>2/</u>	8.6

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

Characteristics	U.S.	Hawaii
Dental caries prevalence per child:		
Primary or deciduous teeth ^{1/}	1.884	3.658
Secondary or permanent teeth ^{2/}	0.818	0.897
Percent of 5-year old students with baby bottle tooth decay (3 or more decayed maxillary anterior teeth) .	5.0	14.3
Percent of 6- to 8-year old students with--		
Untreated primary or permanent tooth decay ^{3/}	27.0	36.2
One or more decayed primary or permanent teeth	53.0	96.9

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

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

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

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

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

Table 60.-- SPECIFIED COMMUNICABLE DISEASES: 1988 TO 1990

Disease	Cases			Deaths		
	1988	1989	1990	1988	1989	1990
All reportable diseases ..	9,683	11,303	9,394	110	95	87
AIDS <u>1/</u>	140	127	144	91	68	60
Chickenpox	840	2,211	2,007	-	-	-
Gonorrhea	875	731	639	-	-	-
Hansen's Disease <u>2/</u>	20	17	19	-	1	-
Hepatitis, all types	127	250	171	4	5	8
Influenza	660	1,638	199	-	1	3
Leptospirosis <u>3/</u>	67	69	43	-	1	-
Malaria <u>4/</u>	10	8	8	-	-	-
Measles (Rubeola)	17	29	41	-	-	-
Meningitis, all types	170	199	136	-	9	6
Mumps	24	20	26	-	-	-
Rubella	33	13	8	-	-	-
Salmonellosis	508	371	458	-	-	-
Scarlet fever, other strep. ...	5,671	5,085	4,771	-	3	2
Syphilis	122	18	19	-	-	-
Tuberculosis	171	193	205	15	4	6
All others	228	<u>5/</u> 324	500	-	3	2

1/ By date of diagnosis, with deaths allocated back to year when first reported. Data prior to 1990 are revised.

2/ Excludes reinstated cases.

3/ Includes previously unreported cases.

4/ Acquired outside the State.

5/ Includes 31 incidents of gastroenteritis involving 2 or more persons.

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

Table 61.-- 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-dent-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	25	40	11	501	15
1991	(NA)	(NA)	(NA)	(NA)	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	(NA)	(NA)	(NA)	(NA)	2,159	450

NA Not available.

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

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

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 62.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE
CIVILIAN HOSPITALS: 1985 TO 1990

[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:					
1985	2,361	84,473	1,566	6.8	66.3
1986 <u>1/</u>	2,378	91,704	1,586	6.3	66.7
1987	2,346	93,256	1,661	6.5	70.8
1988 <u>1/</u>	2,835	117,548	2,074	6.4	73.3
1989	2,351	91,686	1,722	6.7	73.3
1990	2,532	93,511	1,755	6.8	69.4
Long-term care:					
1985	2,769	2,575	2,590	367	93.5
1986 <u>1/</u>	2,977	2,901	2,602	327	87.4
1987	2,995	2,553	2,779	397	92.8
1988 <u>1/</u>	3,187	2,746	2,907	376	91.7
1989	3,212	2,653	2,993	409	93.5
1990	3,401	3,137	3,165	368	93.1

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 63.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,
BY TYPE OF FACILITY, BY ISLANDS: 1990-1991

[Except for Tripler Army Medical Center, data are for facilities recognized
by the Hawaii State Health Planning and Development Agency]

Category and island	Hospitals, December 31, 1990				Care homes, July 1991	
	Total <u>1/</u>	Acute care <u>2/</u>	Long-term care	Specialty care	Type I <u>3/</u>	Type II <u>4/</u>
NUMBER OF FACILITIES						
State total ..	57	25	40	11	494	14
Oahu	38	12	24	9	397	10
Hawaii	7	5	7	-	47	0
Kauai	5	3	5	-	24	3
Maui	4	3	2	1	17	-
Molokai	2	1	1	1	9	1
Lanai	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	6,772	2,532	3,401	839	2,159	450
Oahu	5,138	2,017	2,304	817	1,773	370
Hawaii	706	236	470	-	187	14
Kauai	372	114	258	-	86	52
Maui	498	151	339	8	73	-
Molokai	44	8	22	14	40	14
Lanai	14	6	8	-	-	-

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

2/ Includes Tripler Army Medical Center which had a bed capacity of 525.

3/ Five beds or less.

4/ More than five beds.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, Utilization of Inpatient Facilities, 1990, and Hospital and Medical Facilities Branch, records.

Table 64.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE
CIVILIAN HOSPITALS, BY ISLANDS: 1990

[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	93,511	1,755	6.8	69.4
Oahu	68,608	1,403	7.4	69.7
Hawaii	11,123	166	5.4	70.2
Kauai	4,901	60	4.5	52.9
Maui	8,650	124	5.2	82.2
Molokai	164	1	2.4	13.7
Lanai	65	1	3.7	11.1
LONG-TERM CARE				
State total	3,137	3,166	368	93.1
Oahu	2,040	2,140	383	92.9
Hawaii	492	452	335	96.1
Kauai	328	233	259	90.2
Maui	212	314	544	93.2
Molokai	55	19	128	87.4
Lanai	10	6	225	77.2

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 65.-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES:
1983 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)	
1983	8.2	357.87	2,964	216
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	(NA)	(NA)	(NA)	317
1990	(NA)	(NA)	(NA)	348

NA Not available.

1/ January data, except 1983, which refers to July.

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

Table 66.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1985 TO 1990

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1985	6,328	251	6,077	3,933	3,268	4,221	8,891
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

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

Table 67.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1989 TO 1991

[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

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

Table 68.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1989 TO 1991

[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	
1989	205	-	183	165	4
1990	205	10	153	158	6
1991	195	2	148	134	6

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

Table 69.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1986 TO 1990

Subject	1986	1987	1988	1989	1990
Patients on register, Dec. 31 ..	653	633	571	541	498
Medically released	653	633	571	541	498
At home	549	532	474	447	405
Kalaupapa	99	97	93	90	89
Hale Mohalu at Leahi	5	4	4	4	4
New cases	37	24	20	18	18
Deaths	4	6	13	14	9

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

Table 70.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: FEBRUARY 15, 1991

Place of address	Physicians and surgeons ^{1/}	Dentists	Registered nurses	Pharmacists
Total licensed..	4,610	1,208	11,874	1,018
Hawaii addresses ...	2,563	915	8,848	591
Hawaii	201	83	731	56
Maui	181	56	631	48
Lanai	1	1	10	1
Molokai	7	4	39	2
Oahu	2,080	738	7,081	454
Kauai	93	33	356	30
Niihau	-	-	-	-
Out of State.....	2,047	293	3,026	427

^{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 71.-- 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 72.-- 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 73.-- MARRIAGES AND DIVORCES: 1970 TO 1990

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments <u>2/</u>	Rates per 1,000 resident population		Percent of marriages	
	Total	Resident <u>1/</u>		Resident marriages	Divorces, annulments <u>2/</u>	Nonresident <u>3/</u>	Inter-racial <u>4/</u>
1970 ...	10,599	7,889	2,589	10.2	3.4	25.6	40.7
1971 ...	9,734	8,104	3,691	10.1	4.6	16.7	42.7
1972 ...	9,750	8,482	3,891	10.2	4.7	13.0	41.7
1973 ...	9,776	8,656	4,170	10.2	4.9	11.5	43.7
1974 ...	9,649	8,500	4,111	9.8	4.7	11.9	43.2
1975 ...	9,673	8,440	4,265	9.5	4.8	12.7	43.1
1976 ...	9,769	8,318	4,712	9.2	5.2	14.9	43.2
1977 ...	10,266	8,427	4,601	9.2	5.0	17.9	43.3
1978 ...	10,736	8,650	4,837	9.3	5.2	19.4	44.5
1979 ...	11,678	9,424	5,055	9.9	5.3	19.3	44.6
1980 ...	11,856	9,442	4,438	9.7	4.6	20.4	44.4
1981 ...	12,218	9,445	4,253	9.7	4.3	22.7	44.5
1982 ...	13,483	10,053	4,233	10.1	4.3	25.4	45.0
1983 ...	14,062	10,216	4,583	10.1	4.5	27.3	45.5
1984 ...	14,982	10,020	4,769	9.7	4.6	33.3	46.3
1985 ...	15,421	9,893	4,887	9.5	4.7	35.8	46.9
1986 ...	16,219	9,571	4,674	9.1	4.4	30.4	46.5
1987 ...	16,567	9,714	4,419	9.1	4.1	41.3	44.6
1988 ...	17,281	9,708	5,020	9.0	4.6	43.8	42.9
1989 ...	17,974	9,952	5,613	9.1	5.1	44.6	44.3
1990 ...	18,306	10,407	5,179	9.4	4.7	43.1	45.9

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 74.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1987 TO 1990

[Place of occurrence basis]

Subject	1987	1988	1989	1990
MARRIAGES				
Number	16,567	17,281	17,974	18,306
Percent on Oahu	61.4	58.8	57.7	58.3
Percent Hawaii residents:				
Both bride and groom	54.5	52.2	51.3	53.1
One partner only	4.2	4.0	4.1	3.7
Neither bride nor groom	41.3	43.8	44.6	43.1
Median age (years):				
Groom	30.7	31	31	31
Bride	28.4	28	28	28
Percent previously married:				
Groom	39.6	40.4	39.8	39.5
Bride	39.0	39.8	40.4	40.1
DIVORCES AND ANNULMENTS				
Number	4,419	5,020	5,613	5,179
Divorces	4,404	5,005	5,600	5,163
Annulments	15	14	13	10
Not reported	-	1	-	6
Percent occurring on Oahu	75.3	79.8	78.5	77.5
Percent Hawaii residents:				
Both partners	75.0	76.1	75.4	73.9
One partner only	24.7	23.6	23.1	26.0
Neither partner	0.2	0.3	0.1	0.2
Median age (years):				
Husband	35.2	34.9	35	35
Wife	32.7	32.6	32	33
Percent interracial ^{1/}	38.9	40.5	39.4	40.3
Percent with children under 18 years	51.8	52.2	55.3	52.1
Median years married	6.4	6.6	6.2	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 75.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT,
BY RACE MIXTURE AND TYPE OF CEREMONY: 1990

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages	18,306	10,407	7,899
Race of partners:			
Both partners same race <u>1/</u>	12,904	5,630	7,274
Different	5,402	4,777	625
Percent different	29.5	45.9	7.9
Type of ceremony:			
Civil ceremony	4,683	3,815	868
Religious ceremony	13,622	6,591	7,031
Unknown	1	1	-

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

Table 76.-- 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).

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 1990-1991 totaled 207,558, slightly more than in the preceding year but well below the all-time high of 216,000 reached in 1971-1972. There were 238 public schools with 10,721 classroom teachers and 171,793 students (82.8 percent of the total). There were also 134 private schools with 2,485 teachers and 35,765 pupils. Students graduating from public and private high schools in 1989-1990 numbered 11,717. Some 56,500 students attended colleges and universities in the State in 1990-1991, including 18,800 on the Manoa Campus of the University of Hawaii, 650 at UH-West Oahu, 4,400 at UH-Hilo, 21,800 at six community colleges, and 10,800 in four private colleges and universities. Ninety-two percent of the children 5 and 6 years old were in school in 1980 (compared with 87 percent in 1970), and 47 percent in the 18- and 19-year-old group were enrolled (compared with 53 percent a decade earlier). The expenditure per pupil in public schools rose from \$2,457 in 1980-1981 to \$5,337 in 1990-1991. In scholastic aptitude tests, Hawaii students scored somewhat above 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 2.4 million books, 9,500 periodical subscriptions, and 84,000 phonodisks and phonotapes in 1990, with an annual circulation of 6.2 million. The University of Hawaii libraries in 1991 counted 3.0 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: 1991 presents comparable information for the nation as a whole.

Table 77.-- SCHOOL ENROLLMENT BY AGE: 1970 AND 1980

Age	Number enrolled in school		Percent enrolled in school	
	1970	1980	1970	1980
Persons 3 years old and over enrolled in school .	238,925	266,181	...	...
3 and 4 years old	7,097	11,436	24.5	39.0
5 and 6 years old	27,683	26,070	87.4	92.0
7 to 13 years old	108,757	102,604	96.7	98.9
14 and 15 years old	30,409	31,741	95.8	98.6
16 and 17 years old	26,362	31,711	90.8	93.4
18 and 19 years old	14,486	16,869	53.1	46.9
20 and 21 years old	7,672	11,164	22.4	25.6
22 to 24 years old	6,357	10,907	13.6	17.5
25 to 34 years old	6,942	15,254	6.4	8.5
35 years old and over	3,160	8,425	...	...

Source: U.S. Bureau of the Census, 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 51; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 66.

Table 78.-- PERCENT ENROLLED IN SCHOOL, FOR SELECTED AGE GROUPS, BY COUNTIES: 1980

County	5 and 6 years	7 to 13 years	14 and 15 years	16 and 17 years	18 and 19 years	20 and 21 years
State total	92.0	98.9	98.6	93.4	46.9	25.6
Hawaii	90.3	99.1	98.0	94.2	51.3	27.8
Honolulu	92.2	98.9	98.6	93.6	46.7	26.5
Kauai	94.9	98.9	100.0	95.0	52.0	18.1
Maui	90.9	98.9	98.4	90.3	40.7	11.5

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 66 and 175.

Table 79.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS
OLD AND OVER: 1940 TO 1989

Years completed	1940	1950	1960	1970	1980	1989
Percent 4 years of high school or more	20.5	31.6	46.1	61.9	73.8	82.3
Percent 4 years of college or more	5.3	6.1	9.0	14.0	20.3	23.9

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; "Educational Attainment in the United States: March 1989 and 1988," Current Population Reports, Population Characteristics, Series P-20, No. 451 (August 1991), p. 89.

Table 80.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER:
ANNUAL AVERAGES, 1981-83, 1984-86, AND 1987-89

[Based on pooled samples of 1,831 households (5,676 persons of all ages) for 1981-1983, 1,630 households (4,987 persons) for 1984-1986, and 1,540 households (4,529 persons) for 1987-1989]

Years of school completed	1981-1983	1984-1986	1987-1989
Persons 25 years and over	561,575	622,737	678,012
None or unknown	5,838	9,199	7,278
Elementary	76,698	70,822	66,557
High school, 1 to 3 years	52,950	57,464	56,411
High school, 4 years	203,057	236,708	257,060
College, 1 to 3 years	104,577	116,565	137,675
College, 4 years	72,476	78,938	90,508
College, 5 or more years	45,979	53,042	62,523
Median (years)	12.7	12.7	12.8

Source: U.S. Bureau of the Census for the U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1981 to 1989; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 81.-- 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 82.-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES,
FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1980-1981 TO 1990-1991

School year	Schools <u>1/</u>			Teachers <u>1/</u>		
	Total	Public	Private	Total	Public	Private
1980-81 ...	371	230	141	10,324	8,113	2,211
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
School year	Enrollment or membership <u>1/</u>			High school graduates		
	Total	Public	Private	Total	Public	Private
1980-81 ...	202,972	165,094	37,878	14,647	12,088	2,559
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	(NA)	(NA)	(NA)

NA Not available.

1/ September data for all years.

Source: Hawaii State Department of Education, records.

Table 83.-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 12, 1990, AND HIGH SCHOOL GRADUATES, 1989-1990, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

Island	Number of schools, September 12, 1990			Number of teachers, September 12, 1990		
	Total	Public	Private	Total	Public	Private
State total	372	238	134	13,206	10,721	2,485
Hawaii	44	31	13	16,89	1,503	186
Maui	35	22	13	1,107	981	126
Lanai	1	1	-	37	37	-
Molokai	7	5	2	100	95	5
Oahu	263	165	98	9,590	7,484	2,106
Kauai	21	13	8	681	619	62
Niihau	1	1	-	2	2	-
Island	Enrollment, September 12, 1990			High school graduates, 1989-1990 school year		
	Total	Public	Private	Total	Public	Private
State total	207,558	171,793	35,765	11,717	9,335	2,382
Hawaii	26,745	24,595	2,150	1,465	1,325	140
Maui	17,823	15,658	2,165	876	780	96
Lanai	502	502	-	46	46	-
Molokai	1,708	1,669	39	89	89	-
Oahu	150,233	119,768	30,465	8,636	6,493	2,143
Kauai	10,515	9,569	946	605	602	3
Niihau	32	32	-	-	-	-

Source: Hawaii State Department of Education, records.

Table 84.-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES:
1989 AND 1990

Grade	September 12, 1989			September 12, 1990		
	Total	Public	Private	Total	Public	Private
All grades	205,591	169,904	35,687	207,558	171,793	35,765
Nursery	2,950	379	2,571	2,918	407	2,511
Kindergarten	17,024	14,157	2,867	16,794	13,942	2,852
1	17,084	14,552	2,532	17,005	14,540	2,465
2	16,714	14,188	2,526	16,737	14,329	2,408
3	16,084	13,671	2,413	16,380	13,959	2,421
4	15,562	13,256	2,306	15,788	13,458	2,330
5	14,766	12,509	2,257	15,286	13,055	2,231
6	14,133	11,935	2,198	14,682	12,420	2,262
7	14,303	11,455	2,848	14,281	11,381	2,900
8	13,934	11,200	2,734	14,267	11,488	2,779
9	14,500	11,874	2,626	15,085	12,347	2,738
10	13,382	10,858	2,524	13,362	10,822	2,540
11	13,262	10,798	2,464	13,053	10,596	2,457
12	11,906	9,500	2,406	11,719	9,271	2,448
Specials <u>1/</u>	9,987	9,572	415	10,201	9,778	423

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

Table 85.-- SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 12, 1990

[Combined totals for public and private systems]

Grade	State total	Hawaii	Maui	Honolulu	Kauai
All grades	207,558	26,745	20,033	150,233	10,547
Nursery	2,918	174	152	2,425	167
Kindergarten	16,794	2,112	1,699	12,124	859
1	17,005	2,065	1,750	12,330	860
2	16,737	2,179	1,672	11,992	894
3	16,380	2,166	1,610	11,732	872
4	15,788	2,114	1,580	11,250	844
5	15,286	2,114	1,469	10,934	769
6	14,682	1,984	1,437	10,442	819
7	14,281	1,929	1,349	10,251	752
8	14,267	1,964	1,364	10,234	705
9	15,085	1,925	1,483	10,988	689
10	13,362	1,613	1,261	9,865	623
11	13,053	1,649	1,223	9,591	590
12	11,719	1,371	1,051	8,725	572
Special <u>1/</u>	10,201	1,386	933	7,350	532

1/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records.

Table 86.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL,
1987 TO 1990

Category	1987	1988	1989	1990
All federally-connected pupils	37,721	36,965	36,899	36,159
Percent of total enrollment	22.7	22.1	21.8	21.1
Military dependents	20,540	20,104	20,228	19,889
Others <u>1/</u>	17,181	16,861	16,671	16,270

1/ Includes dependents of civilian employees of armed forces.

Source: Hawaii State Department of Education, records.

Table 87.-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 12, 1990, AND PRIVATE HIGH SCHOOL GRADUATES, 1989-1990, BY CHURCH AFFILIATION

Church affiliation	Schools	Teachers	Enrollment	High school graduates
Total	134	2,485	35,765	2,382
Church-affiliated	91	1,279	21,353	978
Roman Catholic	41	707	12,553	693
Other church-affiliated	50	572	8,800	285
Non-church-affiliated ...	43	1,206	14,412	1,404

Source: Hawaii State Department of Education, records.

Table 88.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1980-1981 TO 1990-1991

Fiscal year	Expenditures (dollars)		Cost per pupil ^{1/} (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1980-1981 ..	402,344,699	30,860,000	2,457.32	21,085	176
1981-1982 ..	432,228,402	17,237,000	2,700.72	22,473	177
1982-1983 ..	497,763,951	23,304,890	3,098.23	21,504	^{2/} 174
1983-1984 ..	509,710,506	11,941,000	3,255.97	25,380	176
1984-1985 ..	526,741,742	13,652,707	3,351.18	25,648	174
1985-1986 ..	585,533,781	27,812,430	3,795.31	26,595	176
1986-1987 ..	589,592,735	23,445,100	3,748.38	27,546	176
1987-1988 ..	622,638,850	32,211,000	3,950.49	28,353	177
1988-1989 ..	661,605,931	37,505,200	4,171.74	29,835	174
1989-1990 ..	727,501,992	50,569,700	4,605.11	32,252	175
1990-1991 ..	863,592,130	50,464,700	5,336.74	34,448	175

^{1/} Based on average daily membership.

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

Source: Hawaii State Department of Education, records.

Table 89.-- SCHOLASTIC APTITUDE TEST SCORE AVERAGES: 1975 TO 1991

Component	1974-75	1979-80	1985-86	1988-89	1989-90	1990-91
Verbal	414	396	403	406	404	405
Math	478	472	477	482	481	478

1/ The U.S. averages in 1990-91 were 422 for verbal and 474 for math.
 Source: U.S. Department of Education, National Center for Education
 Statistics, Digest of Education Statistics 1990 (February 1991), p. 126;
Honolulu Advertiser, August 27, 1991, pp. A1 and A5.

Table 90.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL
 GRADES 3, 6, 8, AND 10: 1991

[Percent of students taking test]

Subject and level	Norm	Grade 3	Grade 6	Grade 8	Grade 10
Reading:					
Below average	23	24	22	26	24
Average	54	58	57	55	60
Above average	23	18	21	19	16
Math:					
Below average	23	18	20	27	21
Average	54	50	46	48	50
Above average	23	32	34	25	29

Source: Honolulu Advertiser, December 19, 1991, p. A-3.

Table 91.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS:
FALL 1980 TO 1990

[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>		
1980 ..	43,542	20,319	14,402	4,235	1,682	3,504	247
1981 ..	45,425	20,629	14,487	4,324	1,818	3,478	369
1982 ..	47,527	21,065	14,879	4,328	1,858	3,752	410
1983 ..	46,468	21,112	15,091	4,339	1,682	3,613	433
1984 ..	43,970	20,023	14,234	4,255	1,534	3,237	435
1985 ..	43,369	19,666	13,565	4,283	1,818	3,200	443
1986 ..	42,837	18,977	12,762	4,438	1,777	3,300	480
1987 ..	43,054	18,448	12,254	4,400	1,794	3,553	482
1988 ..	42,767	18,477	12,121	4,382	1,974	3,634	492
1989 ..	43,785	18,622	12,021	4,601	2,000	3,973	601
1990 ..	45,742	18,810	12,073	4,809	1,928	4,449	652
Community Colleges <u>3/</u>							
Year	Total	Hono- lulu	Kapio- lani	Lee- ward	Wind- ward	Kauai	Maui
1980 ..	19,472	4,509	4,978	5,575	1,442	1,082	1,886
1981 ..	20,949	5,211	5,089	6,032	1,489	1,201	1,927
1982 ..	22,300	5,331	5,560	6,261	1,568	1,272	2,308
1983 ..	21,310	5,131	5,284	6,060	1,462	1,190	2,183
1984 ..	20,275	4,554	5,281	5,785	1,366	1,176	2,113
1985 ..	20,060	4,539	5,058	5,667	1,543	1,177	2,076
1986 ..	20,080	4,275	5,226	5,703	1,644	1,248	1,984
1987 ..	20,571	4,527	5,505	5,748	1,650	1,183	1,958
1988 ..	20,164	4,303	5,599	5,445	1,558	1,239	2,020
1989 ..	20,589	4,199	5,741	5,652	1,606	1,313	2,078
1990 ..	21,831	4,379	6,275	5,805	1,622	1,413	2,337

Footnotes and source follow next table.

Table 92.-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY THE UNIVERSITY OF HAWAII: 1980 TO 1990

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First profes- sional <u>4/</u>	Other <u>5/</u>
1980	46	2,859	969	102	136	124
1981	57	2,701	968	115	152	106
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
Year ended June 30	University of Hawaii at Hilo <u>2/</u>			Univ. of Hawaii- West Oahu: Bachelor	Community Colleges <u>3/</u>	
	Certifi- cates <u>6/</u>	Associate degrees	Bachelor degrees		Certifi- cates <u>6/</u>	Associate degrees
1980	86	256	160	48	481	1,807
1981	57	261	171	47	483	1,763
1982	74	263	160	46	519	1,882
1983	68	242	193	91	509	2,008
1984	80	239	188	136	473	2,026
1985	67	229	180	77	454	1,875
1986	56	196	183	98	478	1,933
1987 <u>7/</u> .	56	202	201	139	378	1,840
1988 <u>7/</u> .	48	206	208	108	345	1,731
1989 <u>7/</u> .	74	180	154	116	201	1,609
1990 <u>7/</u> .	83	175	203	126	220	1,744

1/ Includes unclassified, special and no data on student level.

2/ Hilo College, College of Agriculture, and Hawaii Community College.

3/ Excludes Hawaii Community College, which is part of UHH.

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

5/ Certificates in Dental Hygiene and professional diplomas.

6/ Certificates of Achievement. At UHH, includes Certificates in Education beginning 1989 (30 in 1989).

7/ For community colleges, excludes no data (64 in 1987, 15 in 1988, 21 in 1989, 68 in 1990).

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

Table 93.-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES,
AND FACULTY AND STAFF: 1988 TO 1990

Subject	1988	1989	1990
Curricula offered at Manoa Campus, Fall <u>1/</u> ...	257	260	264
Bachelor's degree programs	88	88	88
Master's degree programs	84	85	86
Doctoral programs (DrPH, EdD, PhD)	49	49	49
Other programs <u>1/</u>	36	38	41
Tuition per semester (full-time undergraduate, regular session):			
Manoa Campus:			
Resident	\$ 565	\$ 615	615
Nonresident	1,840	1,840	1,840
Hilo (upper division):			
Resident	525	575	575
Nonresident	1,720	1,720	1,720
West Oahu:			
Resident	390	415	415
Nonresident	1,240	1,240	1,240
Community colleges:			
Resident	175	200	200
Nonresident	1,130	1,230	1,230
Finances, fiscal year ending June 30:			
Current fund revenues (\$1,000)	392,143	422,113	472,527
Current fund expenditures (\$1,000)	374,529	407,831	456,760
Number of students receiving financial aid .	15,556	(NA)	(NA)
Faculty and staff, October	7,168	7,388	7,790
Board of Regents appointees	5,482	5,806	6,180
Full-time	3,528	3,682	3,974
Part-time	1,954	2,124	2,206
Civil Service personnel	1,686	1,582	1,610
Full-time	1,637	1,540	1,567
Part-time	49	42	43

NA Not available.

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

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

Table 94.-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1988 TO 1991

[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
1988, total	9,612	8,957	655	342	884	136
Brigham Young ..	2,055	2,055	-	74	220	-
Chaminade	2,507	2,169	338	85	268	125
Hawaii Loa	490	490	-	3	103	-
Hawaii Pacific .	4,560	4,243	317	180	293	11
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

1/ Brigham Young University, Hawaii Campus (in Laie); Chaminade University of Honolulu; Hawaii Loa College (in Kaneohe); Hawaii Pacific University (in Honolulu).

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 95.-- 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 1990 (February 1991), pp. 195-196.

Table 96.-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES:
1986 TO 1989

[In thousands of dollars. Fiscal year data]

Institution	1986	1987	1988	1989 <u>1/</u>
All universities and colleges	47,676	58,671	58,779	84,753
University of Hawaii at Manoa	38,815	39,899	45,190	63,215

1/ The U.S. total in fiscal 1989 was \$15,658 million. Hawaii ranked 36th among the 50 States, and UH/Manoa ranked 59th among all universities and colleges.

Source: National Science Foundation, Federal Support to Universities, Colleges, and Nonprofit Institutions: Fiscal Year 1989, NSF 91-316 Final (1991), pp. 128 and 130.

Table 97.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM:
1985 TO 1990

Subject	1985	1986	1987	1988	1989	1990
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> ..	497.05	497.55	497.55	532.05	543.05	557.05
Librarians	134.00	133.00	133.00	146.00	153.00	162.50
All others	363.05	364.55	364.55	386.05	390.05	394.55
Hours open <u>2/</u>	54	54	54	54	54	54
Collections, June 30:						
Books <u>3/</u>	1,976.8	2,096.8	2,073.8	2,225.7	2,320.8	2,391.7
Circulation, year ended						
June 30 <u>3/</u>	6,011.4	6,500.2	6,480.5	6,552.9	6,561.9	6,225.2

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/ In thousands.

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

Table 98.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM
BY DISTRICTS: 1990

District	Library locations, June 30	Personnel, June 30 ^{1/}	Circulation, year ended June 30	
Total system	49	557.05	6,225,224	
Oahu	22	298.00	4,252,178	
Hawaii State Library	1	88.00	534,780	
East Oahu Library District ...	12	125.50	2,162,635	
West Oahu Library District ...	9	84.50	1,552,763	
Other islands	26	145.55	1,930,072	
Hawaii Library District	13	63.55	903,322	
Kauai Library District	5	33.50	446,962	
Maui Library District ^{2/}	8	48.50	579,788	
Library for the Blind and Physically Handicapped	1	14.50	44,974	
Administration/Centralized Processing Center .....	...	99.00	...	
	Collections, June 30			
District	Books	Periodical subscriptions	Phono-disk ^{3/}	Video tapes
Total system	2,391,764	9,505	83,770	4,861
Oahu	1,542,954	5,742	53,278	3,399
Hawaii State Library	417,323	2,033	18,307	1,048
East Oahu Library District ...	672,262	2,283	22,636	1,597
West Oahu Library District ...	453,369	1,426	12,335	754
Other islands	743,622	3,624	27,221	1,440
Hawaii Library District	322,064	1,516	7,681	428
Kauai Library District	182,158	859	10,303	479
Maui Library District ^{2/}	239,400	1,249	9,237	533
Library for the Blind and Physically Handicapped	<u>4/</u> 105,188	<u>4/</u> 139	<u>5/</u> 3,271	22

^{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 99.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION,
BY CAMPUS: 1990 AND 1991

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1990	1991	1990	1991
All campuses	2,877,676	3,008,359	585,609	741,708
University of Hawaii at Manoa <u>1/</u> ..	2,385,601	2,500,175	369,243	509,749
University of Hawaii-West Oahu ...	23,710	24,575	6,000	6,000
University of Hawaii at Hilo <u>2/</u> ..	206,068	211,568	72,152	77,924
Community colleges, total <u>2/</u>	262,297	272,041	138,214	148,035
Honolulu	52,604	52,695	42,027	45,264
Kapiolani	40,253	44,157	19,312	22,422
Leeward	57,143	58,733	26,088	19,524
Windward	34,748	36,353	11,123	14,047
Kauai	41,500	42,713	20,862	20,447
Maui	36,049	37,390	18,802	26,331

1/ 1991 volumes total includes Government Documents Collection, not previously included. 1991 circulation total includes media use at Wong Audiovisual Center, not previously included.

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 1990 numbered 68,000, compared with 69,600 in 1989 and 71,300 in 1980. The rate per 1,000 resident population increased from 53 in 1985 to 61 in 1990. Seventy-five percent of the serious crimes in 1990 occurred on Oahu. For the State as a whole, major offenses known to police in 1990 included 44 murders, 352 rapes, 1,016 robberies, 1,605 aggravated assaults, 13,577 burglaries, 46,699 cases of larceny, and 4,224 auto thefts. The value of property reported stolen in 1990 amounted to \$41 million, exclusive of motor vehicles; only 4.4 percent was recovered. Authorities confiscated 1,277,000 marijuana plants, with a potential value of \$7.7 billion, during the year. Confirmed instances of child abuse and neglect numbered 2,092 in 1990. Eighteen percent of the major offenses known to police were cleared by arrest or otherwise during the year. Thirty-nine percent of the persons arrested for major crimes and 23 percent of those arrested for lesser offenses in 1990 were less than 18 years of age. The number of inmates in the 10 State correctional institutions averaged 2,430 during fiscal 1991; of this number, 1,462 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 1990 numbered 964,000, including 825,000 traffic cases. Filings in the United States District Court for Hawaii in 1990 included 1,025 civil cases, 1,758 criminal cases, and 909 bankruptcy cases. The last legal execution in Hawaii took place in 1947. There were 4,969 attorneys licensed in Hawaii as of mid-1991, 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: 1991, Section 5.

Table 100.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE,
BY COUNTIES: 1979 TO 1990

[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 1990, table 104]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate <u>1/</u>				
1979	66,026	69.3	52,600	4,675	2,467	6,284
1980	71,727	74.1	57,155	5,307	2,646	6,619
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	63,453	59.4	49,296	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	61.1	51,175	7,518	2,605	6,659

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 101.-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1981 TO 1990

[Revised from Data Book 1990, table 105]

Offense	1981	1982	1983	1984	1985
All Part I offenses <u>1/</u>	63,903	65,089	59,545	57,340	55,355
Murder	47	31	57	34	43
Manslaughter (neg.) <u>1/</u>	1	-	-	-	-
Forcible rape <u>2/</u>	314	319	300	311	312
Robbery	1,444	1,561	1,315	1,181	1,041
Aggravated assault	570	590	868	843	913
Burglary	16,611	16,337	13,589	12,552	12,159
Larceny	40,102	41,568	38,585	38,301	37,345
Motor vehicle theft	4,268	4,244	4,343	3,607	2,981
Arson <u>3/</u>	546	439	488	511	561
Offense	1986	1987	1988	1989	1990
All Part I offenses	60,652	63,453	65,666	69,601	67,957
Murder	51	51	45	53	44
Manslaughter (neg.) <u>1/</u>	-	-	2	1	2
Forcible rape <u>2/</u>	325	396	353	353	352
Robbery	1,103	1,043	914	908	1,016
Aggravated assault	1,082	1,364	1,502	1,427	1,605
Burglary	14,184	12,500	13,665	14,879	13,577
Larceny	39,935	43,669	44,859	47,204	46,699
Motor vehicle theft	3,486	3,986	3,927	4,385	4,224
Arson <u>3/</u>	486	502	399	391	438

1/ Manslaughter offenses due to traffic accidents have been deleted for consistency in statewide reporting. However, arrests for all traffic offenses are counted.

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 1980-1987 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 as otherwise indicated. Since 1989, statistics for Honolulu are compiled from a special report obtained specifically for this publication.

Table 102.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED
BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE: 1979 TO 1990

[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>
1979 ..	66,026	88,801	13,943	61,994	21.1	69.8
1980 ..	71,727	93,150	14,374	58,841	20.0	63.2
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 ..	63,453	107,259	12,247	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

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 1979-1988. All traffic cases excluded effective 1989.

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

Table 103.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1990

County	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	Part I	Part II, except traffic	Part I	Part II, except traffic
State total ..	67,957	119,366	12,534	68,645	18.4	57.5
Honolulu	51,175	87,082	8,932	51,343	17.5	59.0
Hawaii	7,518	10,275	1,961	6,201	26.1	60.4
Kauai	2,605	5,304	649	2,579	24.9	48.6
Maui	6,659	16,705	992	8,522	14.9	51.0

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

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

Table 104.-- MARIJUANA CONFISCATED OR DESTROYED BY AUTHORITIES, BY COUNTIES: 1990

Subject	State total	Hawaii	Maui	Honolulu	Kauai
Plants <u>1/</u>	1,277,119	1,183,894	62,073	11,332	19,820
By police department	738,468	646,861	61,825	11,332	18,450
By DLNR <u>2/</u>	538,651	537,033	248	-	1,370
Potential value <u>3/</u> (\$1,000) ..	7,662,714	7,103,364	372,438	67,992	118,920

1/ Of any size. Plants vary in height from seedlings to more than ten feet.

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

3/ Based on an estimated street value of \$6,000-\$8,000 per pound and yield of one pound or more per mature plant, or approximately \$6,000 per plant, as agreed by DOCARE and county vice divisions in April 1991. Excludes value of confiscated processed marijuana. Earlier estimates were based on a potential value of \$1,000 per plant; see Data Book 1990, table 108.

Source: Compiled from county police departments and DLNR by Hawaii Criminal Justice Data Center.

Table 105.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES
CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1990

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise ^{1/}		Clearances per 100 offenses ^{1/}	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	67,957	51,175	12,534	8,932	18.4	17.5
Murder	44	34	32	23	72.7	67.6
Manslaughter (neg.), excluding traffic ...	2	1	2	-	100.0	-
Rape	352	270	217	179	61.6	66.3
Robbery	1,016	892	239	188	23.5	21.1
Aggravated assault	1,605	1,120	840	507	52.3	45.3
Burglary	13,577	9,751	1,722	1,131	12.7	11.6
Larceny	46,699	35,478	8,728	6,415	18.7	18.1
Auto theft	4,224	3,324	718	475	17.0	14.3
Arson	438	305	36	14	8.2	4.6

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

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

Table 106.-- POLICE PERSONNEL, BY COUNTIES: 1990

Subject	State total	Honolulu	Hawaii	Kauai	Maui
Police personnel, December 31	3,051	2,230	334	156	331
Per 1,000 de facto population ..	2.43	2.45	2.46	2.26	2.38

Source: County police department records.

Table 107.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES,
BY AGE AND SEX, FOR COUNTIES: 1990

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	12,612	9,220	1,723	934	735
Juveniles	4,901	3,542	725	356	278
Male	3,634	2,653	503	266	212
Female	1,267	889	222	90	66
Adults	7,711	5,678	998	578	457
Male	5,736	4,177	731	459	369
Female	1,975	1,501	267	119	88
PART II OFFENSES (EXCEPT TRAFFIC)					
Total	51,307	38,481	5,177	4,108	3,541
Juveniles	11,635	7,819	1,728	802	1,286
Male	7,524	5,267	989	484	784
Female	4,111	2,552	739	318	502
Adults	39,672	30,662	3,449	3,306	2,255
Male	33,275	25,767	2,912	2,726	1,870
Female	6,397	4,895	537	580	385

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

Table 108.-- CHILD ABUSE AND NEGLECT REPORTS: 1983 TO 1990

[Data for 1989 and 1990 are incomplete and do not include cases reported to the new Child Protection Services System]

Subject	1983	1984	1985	1986	1987	1988	1989	1990
Reports	3,181	3,979	4,414	4,598	4,809	4,637	3,437	3,601
Confirmed ..	1,549	1,791	2,289	2,590	2,543	2,620	2,122	2,092

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

Table 109.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1980 TO 1990

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
1980 ...	14,075.2	10,296.9	73.2	31,832.9	2,102.2	6.6
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

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

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

Table 110.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY COUNTIES: 1990

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
Value of property stolen (\$1,000)	51,178.5	37,094.4	4,904.4	6,958.8	2,220.9
Motor vehicles	10,152.1	5,440.7	1,570.7	2,317.6	823.1
Other property	41,026.4	31,653.7	3,333.8	4,641.2	1,397.7
Value of stolen property recovered 1/ (\$1,000) ...	9,576.5	4,814.8	1,437.4	2,605.0	719.2
Motor vehicles	7,752.2	3,887.7	1,273.0	2,001.2	590.1
Other property	1,824.3	927.1	164.3	603.8	129.1
Percent of value recovered	18.7	13.0	29.3	37.4	32.4
Motor vehicles	76.4	71.5	81.1	86.3	71.7
Other property	4.4	2.9	4.9	13.0	9.2

1/ See previous table, footnote 1.

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

Table 111.-- STATE AND COUNTY GOVERNMENT EMPLOYMENT AND EXPENDITURES FOR CRIMINAL JUSTICE ACTIVITIES: 1988

Subject	Total	Police protection	Correc-tion	Judicial and legal
Full-time equivalent employment, October.....	1/ 4,515	2,959	1,556	...
Expenditures, fiscal year (million dollars)	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: 1991, p. 187.

Table 112.-- CRIMINAL JUSTICE POSITIONS AND EXPENDITURES:
FISCAL YEAR 1980-1981 TO 1985-1986

[Annual totals exclude data for Attorney General and Public
Defender, not available before 1984-1985]

Fiscal year and agency	Authorized positions (full-time equivalent <u>1/</u>)	Expenditures (\$1,000)
1980-1981	4,449.5	111,446
1981-1982	4,886.5	143,289
1982-1983	5,046.0	143,826
1983-1984	5,339.0	145,490
1984-1985	5,659.0	177,947
1985-1986	6,013.0	197,249
AGENCY: 1985-1986		
Police	2,901.0	98,263
Prosecutors	291.0	9,142
Judiciary	1,438.0	52,813
Corrections	1,287.0	34,762
Intake Service Centers	70.0	1,725
Paroling Authority	26.0	545
Public Defender <u>2/</u>	98.0	3,233
Attorney General <u>2/</u>	223.0	11,389

1/ Except for police, which are based on full-time positions only (sworn and non-sworn).

2/ Not included in all agency totals (see headnote).

Source: Hawaii State Department of the Attorney General, Hawaii Criminal Justice Data Center, Management and Administrative Statistics for the Criminal Justice System in the State of Hawaii (February 1989), p. 136.

Table 113.-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:
1989 TO 1991

[As of June 30]

Subject	1989	1990	1991
Federal judges and magistrates: <u>1/</u>			
U.S. Bankruptcy Court	1	1	1
U.S. District Court	8	11	11
State justices and judges: <u>2/</u>			
Supreme Court	5	5	5
Intermediate Court of Appeals	3	3	3
Circuit Courts <u>3/</u>	24	24	24
Assigned to Family Court	1	1	1
District Courts <u>4/</u>	32	32	35
Assigned to Family Court	8	10	9
Land Court	(5/)	(5/)	(5/)
Tax Appeal Court	(5/)	(5/)	(5/)
Attorneys licensed in Hawaii <u>6/</u>	3,949	4,768	4,969

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 114.-- 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 115.-- STATE JUDICIARY TERMINATIONS: 1986 TO 1991

[Years ended June 30]

Court and type of case	1986	1987	1988	1989	1990	1991
Supreme Court <u>1/</u>	2,588	2,371	2,883	3,046	2,170	2,350
Civil cases	287	262	247	246	199	179
Criminal cases	312	254	287	427	266	333
Other proceedings	1,989	1,855	2,349	2,373	1,705	1,838
Intermediate Court of						
Appeals <u>2/</u>	224	248	188	186	186	196
Civil cases	87	91	68	78	32	35
Criminal cases	42	49	60	59	56	54
Other proceedings	95	108	60	49	98	107
Circuit Courts proper ...	13,467	10,604	11,321	15,079	15,644	14,061
Civil cases	7,465	5,622	4,977	5,405	6,418	6,421
Criminal cases	2,717	2,305	2,752	2,951	3,567	2,936
Part I offenses	1,073	925	1,013	1,126	1,211	1,044
Part II offenses	1,644	1,380	1,739	1,825	2,356	1,892
Other proceedings	3,285	2,677	3,592	6,723	5,659	4,704
Family Courts	34,635	40,130	34,433	34,450	48,438	39,342
Civil cases	16,038	14,294	11,709	11,301	20,128	12,977
Criminal cases	163	650	309	2,395	3,027	3,373
Other proceedings	18,434	25,186	22,415	20,754	25,283	22,992
District Courts	899,473	807,513	771,287	892,480	897,864	974,031
Civil cases	20,354	20,402	21,643	24,179	21,968	17,872
Traffic cases	822,295	730,573	708,365	821,080	824,692	903,331
Other violations	26,842	24,885	9,284	10,565	10,984	11,811
Criminal cases	29,982	31,653	31,995	36,656	40,220	41,017
Part I offenses	4,326	4,567	5,208	5,186	5,778	5,770
Part II offenses	25,656	27,086	26,787	31,470	34,442	35,247

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 135 in 1986, 137 in 1987, 120 in 1988, 138 in 1989, 139 in 1990, and 123 in 1991.

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

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

Table 116.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1988 TO 1990

[Years ended June 30]

Court and type of action	1988	1989	1990
Supreme Court, total	3,119	3,083	2,218
Primary cases	835	787	624
Appeals	778	727	567
Original proceedings	57	60	57
Supplemental proceedings	2,284	2,298	1,594
Intermediate Court of Appeals, total ..	180	188	204
Primary cases	120	140	138
Appeals	119	140	138
Supplemental proceedings	60	48	65
Circuit Courts Proper, total	13,588	13,720	13,910
Primary proceedings	13,052	13,295	13,484
Civil actions	5,732	5,524	5,876
Probate proceedings	1,884	1,606	1,673
Guardianship proceedings	524	418	474
Miscellaneous proceedings	1,386	1,984	1,629
Criminal actions	3,526	3,763	3,832
Part I offenses	1,197	1,364	1,294
Part II offenses	2,329	2,399	2,538
Supplemental proceedings	536	425	426
Family Courts, total	40,058	39,950	43,499
Primary proceedings, referrals	33,199	32,546	36,524
Marital actions, proceedings	7,484	6,085	6,596
Adoption proceedings	717	724	822
Parental proceedings	1,982	1,789	2,260
Miscellaneous proceedings	3,458	3,733	3,579
Criminal actions	2,185	3,453	4,156
Adults' referrals	3,417	3,612	4,118
Children's referrals	13,956	11,682	14,351
Supplemental proceedings	6,859	7,404	6,975
District Court, total	857,676	941,008	892,362
Civil	23,693	26,185	24,510
Regular civil	17,744	21,209	19,603
Small claims	5,949	4,976	4,907
Traffic	790,166	866,329	814,847
Moving - arrest and citation	125,294	148,038	160,787
Non-moving	90,821	98,248	112,676
Parking	574,051	620,043	541,384
Other violations	9,347	11,238	11,327
Criminal actions	34,470	37,256	41,678
Part I offenses	5,326	5,119	5,723
Part II offenses	29,144	32,137	35,955

Source follows next table.

Table 117.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE:
1988 TO 1990

[Years ended June 30]

Court and type of termination	1988	1989	1990
Supreme Court, total	3,003	3,184	2,309
Opinion filed	321	396	318
Dismissal motion granted	28	30	28
Withdrawn or discontinued	92	158	80
Transferred	120	138	139
Other disposition	2,442	2,316	1,744
Intermediate Court of Appeals, total .	188	186	186
Opinion filed	120	134	118
Dismissal motion granted	-	-	-
Withdrawn or discontinued	5	3	2
Transferred	-	-	-
Other disposition	63	48	66
Circuit Courts Proper, total	11,321	15,079	15,644
No service	319	208	337
No answer	280	256	320
No statement of readiness	77	71	911
Dismissal: Notice of	795	915	880
Stip. for	2,755	2,941	2,729
By judge	646	631	1,387
Nonjury: Trial	248	291	239
Trial not completed	10	9	4
Jury: Verdict	333	353	364
Trial not completed	8	7	12
No trial held	1,580	1,983	2,168
Hearings: Contested	268	166	275
Uncontested	1,981	3,535	2,897
Others	2,021	3,713	3,121
Family Courts, total	34,433	34,450	48,438
Nolle prosequi	34	107	226
Dismissal	82	622	524
Nonjury: Trial	101	797	882
Trial not completed	2	488	1,041
Jury: Verdict	-	9	5
Trial not completed	-	1	2
No trial held	1,419	2,316	4,108
Hearings: Contested	4,077	3,924	5,643
Uncontested	13,911	13,088	16,759
Counseling service	6,962	6,692	9,982
Others	7,845	6,406	9,266

Continued on next page.

Table 117.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE:
1988 TO 1990 -- Con.

Court and type of termination	1988	1989	1990
District Court, total	771,287	892,480	897,864
Felonies	1,852	2,348	3,156
Stricken or discharged	229	409	508
By commitment to Grand Jury	17	33	34
By commitment to Circuit Court ..	1,606	1,906	2,614
Misdemeanors	30,143	34,308	37,064
By discharge or dismissal	8,078	9,845	10,388
By nolle prosequi	2,102	3,048	2,870
Stricken	1,616	2,065	2,320
By bail forfeiture	2,213	2,058	2,573
By commitment to Circuit Court ..	796	1,727	2,166
By conviction	15,338	15,565	16,747
Civil cases	21,643	24,179	21,968
By discontinuance or dismissal ..	8,239	9,532	7,967
By default or confession	12,752	13,641	13,076
By trial	559	913	880
By commitment to Circuit Court ..	93	93	45
Traffic and other violations	717,649	821,080	824,692
By discharge or dismissal	46,673	63,219	70,514
By nolle prosequi	15,509	14,919	13,181
Stricken	27,149	23,529	62,229
By bail forfeiture	537,903	609,701	551,433
By commitment to Circuit Court ..	219	250	419
By conviction	90,196	109,462	126,846

Source: The Judiciary, State of Hawaii, Annual Report, Statistical Supplement for 1988, 1989, and 1990.

Table 118.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:
ANNUAL AVERAGES, 1981 TO 1991

[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	Boys	Girls
1981	952	561	82	210	88	11
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

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

2/ As of 1991, includes nine facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers, Kulani Correctional Facility, Halawa High Security Facility, Halawa Medium Security 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.

Source: Hawaii State Department of Public Safety, records.

Table 119.-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED FELON
POPULATION: 1981 TO 1991

[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
1981	27.0	27.8	40.7	173.5	55.7	124.9	47.4
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	(NA)	122.6	(NA)	(NA)	42.8
1991	32.1	33.6	(NA)	(NA)	(NA)	(NA)	43.2

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 1991), and records.

Table 120.-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:
1988 AND 1989

[Years ended June 30]

Item	1988	1989
Number of parolees, June 30 <u>1/</u>	1,076	1,217
Parolees in Hawaii	718	820
Parolees outside Hawaii	192	219
Absconders and suspensions (cumulative)	166	178
Minimum imprisonment terms fixed	1,379	1,027
Number of persons for whom terms fixed	477	722
Persons considered for parole	538	605
Paroles tentatively granted	451	463
Paroles denied	87	142
Persons reconsidered for minimum terms previously set .	333	436
Terms reset	14	28
Terms reset/parole granted	271	371
Terms undisturbed	42	29
Deferred reconsideration	6	18
Parole violation hearings	147	231
Parole revocations	139	170
Continued on parole	7	12
Deferred decision/hearing	1	25
Pardon investigations	11	21
Persons pardoned	10	18
Persons whose paroles were suspended because their whereabouts unknown	65	88
Discharges	130	135
Discharged from parole	88	94
Final discharge	36	33
Deceased	1	1
Administrative <u>2/</u>	5	6

1/ In addition, provided courtesy supervision to 32 interstate cases on June 30, 1988 and 46 on June 30, 1989.

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

Source: Hawaii State Department of Corrections, 1989 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 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 167 major beaches and streams surveyed in 1990 were found to have enterococci levels per 100 ml. ranging from 0.5 to 258.3, and 78 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 (Iwa, 1982) gusted to 117 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 and Land Development 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: 1991, Section 6.

Table 121.-- 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 121.-- 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 122.-- TIME DIFFERENTIALS BETWEEN HONOLULU AND SELECTED CITIES: 1991

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 1991-1992, p. 37A; consulates; airlines.

Table 123.-- 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 124.-- 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 125.-- 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 126.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1989

[See maps on pages 6 and 7]

County or island	Square miles		
	Total	Land <u>2/</u>	Inland water <u>3/</u>
State total	6,470.8	6,425.2	45.6
Counties: <u>4/</u>			
Hawaii	4,035.2	4,034.2	1.0
Maui	1,171.0	1,161.6	9.4
Kalawao	14.3	13.3	1.0
Honolulu <u>5/</u>	620.5	596.3	24.2
Kauai <u>5/</u>	629.8	619.8	10.0
Islands: <u>4/</u>			
Hawaii	4,035.2	4,034.2	1.0
Maui <u>6/</u>	734.5	728.6	5.9
Kahoolawe	45.9	45.0	0.9
Lanai	141.2	140.4	0.8
Molokai	263.7	260.9	2.8
Oahu	617.6	593.6	24.0
Kauai	558.2	549.4	8.8
Niihau <u>7/</u>	71.1	70.0	1.1
Kaula	0.4	0.4	-
Northwestern Hawaiian Islands <u>8/</u>	2.910	2.690	0.220
Nihoa	0.238	0.238	-
Necker Island	0.105	0.105	-
French Frigate Shoals	0.081	0.081	-
Gardner Pinnacles	0.011	0.011	-
Maro Reef	Awash	Awash	Awash
Laysan Island	1.454	1.234	0.220
Lisianski Island	0.586	0.586	-
Pearl and Hermes Atoll	0.106	0.106	-
Kure Atoll	0.329	0.329	-

Continued on next page.

Table 126.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1989 -- Con.

County or island	Square kilometers <u>1/</u>		Acres <u>1/</u>	
	Total	Land <u>2/</u>	Total	Land <u>2/</u>
State total	16,759.3	16,641.2	4,141,312	4,112,128
Counties: <u>4/</u>				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui	3,032.9	3,008.5	749,440	743,424
Kalawao	37.0	34.4	9,152	8,512
Honolulu <u>5/</u>	1,607.1	1,544.4	397,120	381,632
Kauai <u>5/</u>	1,631.2	1,605.3	403,072	396,672
Islands: <u>4/</u>				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui <u>6/</u>	1,902.3	1,887.1	470,080	466,304
Kahoolawe	118.9	116.5	29,376	28,800
Lanai	365.7	363.6	90,368	89,856
Molokai	683.0	675.7	168,768	166,976
Oahu	1,599.6	1,537.4	395,264	379,904
Kauai	1,445.7	1,422.9	357,248	351,616
Niihau <u>7/</u>	184.1	181.3	45,504	44,800
Kaula	1.0	1.0	256	256
Northwestern Hawaiian Islands <u>8/</u>	7.5	7.0	1,862	1,722
Niihau	0.6	0.6	152	152
Necker Island	0.3	0.3	67	67
French Frigate Shoals	0.2	0.2	52	52
Gardner Pinnacles	0.0	0.0	7	7
Maro Reef	Awash	Awash	Awash	Awash
Laysan Island	3.8	3.2	931	790
Lisianski Island	1.5	1.5	375	375
Pearl and Hermes Atoll	0.3	0.3	68	68
Kure Atoll	0.9	0.9	211	211

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles; these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 square mile = 640 acres = 2.58999 square kilometers.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

Continued on next page.

Table 126.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1989 -- Con.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water, and islands having less than 40 acres of area.

4/ Because of rounding, island figures may not add to county figures.

5/ Reflects inclusion of Kaula in the County of Kauai rather than in the City and County of Honolulu. Kaula was transferred to the County of Kauai by Act 245, S.L.H. 1988, approved June 9, 1988.

6/ Molokini, offshore of Maui, not measured; other sources give the area of Molokini as 18.6 acres (0.03 square miles or 0.075 square kilometers).

7/ Includes Lehua, elsewhere reported as 243 acres (0.38 square miles or 0.98 square kilometers).

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

Source: Unpublished data supplied by the Geography Division, U.S. Bureau of the Census, May 5, 1983; cited in the Hawaii State Department of Planning and Economic Development, Remeasurements of the Area of Hawaii, 1982 (Statistical Memorandum 83-6, May 18, 1983).

Table 127.-- 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 128.-- 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 4.

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 129.-- 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 130.-- ELEVATIONS OF MAJOR SUMMITS

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

Island and summit	Feet	Meters
Hawaii:		
Mauna Kea 1/	13,796	4,205
Mauna Loa 2/	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
Kaumuohua	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 130.-- 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 July 15, 1991; 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 131-- 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 132.-- MAJOR STREAMS, BY ISLANDS: 1991

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): <u>1/</u>		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	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 Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalua 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 133.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1991

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 133.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1991 - 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 15, 1991; 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 134.-- MAJOR NAMED WATERFALLS, BY ISLANDS: 1991

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 135.-- 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
Kauai	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 136.-- VOLCANIC ERUPTIONS: 1969 TO 1991

[Complete through September 1, 1991. 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	3,162	ER	780-650	75.0	1,493.0

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

2/ Still in progress, September 1, 1991. As of that time, there had been 48 separate episodes. These had destroyed 179 housing units and added over 290 acres to the area of the island.

Source: Gordon A. Macdonald, Agatin T. Abbott, and Frank L. Peterson, Volcanoes in the Sea, 2nd ed. (1983), pp. 64-65 and 80-81, as updated by the staff of the Hawaiian Volcano Observatory.

Table 137.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1975 TO 1991

[Complete to August 31, 1991]

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

Source: Hawaii Institute of Geophysics, records; Hawaii Volcano Observatory Summaries; U.S. Geological Survey, National Earthquake Information Service. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii at Manoa, November 4, 1991.

Table 138.-- EARTHQUAKES WITH HONOLULU INTENSITIES OF
V OR GREATER: 1859 TO 1991

[Complete to August 31, 1991]

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, November 4, 1991.

Table 139.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:
1946 TO 1991

[Complete to October 7, 1991]

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 140.-- MAJOR DAMS: 1991

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 and Land Development, records.

Table 141.-- WATER USE, BY TYPE, BY ISLANDS: 1985

[Million gallons per day]

Use	State total	Hawaii	Maui	Lanai	Molo-kai	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 and Land Development.

Table 142.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS:
1990 AND 1991

Geographic area	Number of services, June 30		Consumption (million gallons) <u>1/</u>	
	1990	1991	1990	1991
State total	209,475	213,194	70,088	72,642
City and County of Honolulu	141,038	142,466	49,727	50,663
Honolulu <u>2/</u>	60,387	60,480	27,161	27,111
Rest of Oāhu	80,651	81,986	22,566	23,552
Hawaii County	29,820	30,848	7,064	7,356
Kauai County	14,338	14,949	4,139	4,465
Maui County	24,279	24,931	9,158	10,158
Maui	22,886	23,513	8,849	9,838
Molokai	1,393	1,418	309	320

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 143.-- POLLUTION ABATEMENT COSTS AND EXPENDITURES:
1986 AND 1988

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

Subject	1986	1988
Total pollution abatement capital expenditures	1.8	7.9
Gross annual cost of pollution abatement	15.3	16.2
Payments to government units	0.7	0.5
Operating costs, total	14.6	15.7
Cost recovered through abatement activities	0.5	<u>1/</u> 0.8
Operating costs by form of pollutants abated:		
Air	3.8	4.8
Water	5.6	5.5
Solid waste, hazardous	1.1	1.3
Solid waste, non-hazardous	4.1	4.2
Operating costs by kind of cost:		
Depreciation	2.3	2.4
Labor	3.4	3.6
Materials and supplies	3.8	4.7
Services, equipment leasing, and other costs	5.1	4.9

1/ For water and solid waste pollution only.

Source: U.S. Bureau of the Census, "Pollution Abatement Costs and Expenditures, 1986," Current Industrial Reports, MA-200 (86)-1 (April 1989), pp. 20, 37, and 53, and "Manufacturers' Pollution Abatement Capital Expenditures and Operating Costs, Final Report for 1988," Current Industrial Reports, MA 200 (88)-1 (September 1990), pp. 14, 31, and 48.

Table 144.-- 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 145.-- WATER QUALITY AT PUBLIC BEACHES, BY ISLANDS: 1990

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 ..	167	2,585	0.5	258.3	37	9.6
Hawaii	44	274	0.6	107.0	14	11.0
Hilo Shoreline ..	24	177	0.6	107.0	10	16.7
Kona Shoreline ..	20	97	0.9	15.4	4	4.2
Maui	31	329	0.8	9.8	1	1.7
Lanai	2	19	0.8	3.4	-	2.1
Molokai	2	20	5.5	5.8	-	5.6
Oahu	66	1,789	0.5	258.3	17	12.9
Kauai	22	154	0.7	76.1	5	8.8

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 1990 was that reported for four Oahu locations (three in Kaneohe Bay and one off Sand Island).

3/ The highest average value in 1990 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 146.-- WATER QUALITY AT SELECTED PUBLIC BEACHES:
1989 AND 1990

Island and beach	Number of samples		Enterococci density ^{1/}	
	1989	1990	1989	1990
Hawaii:				
Hapuna Beach	12	4	1.5	5.2
Kahaluu Beach	12	8	1.0	1.2
Kealakekua Bay (curio stand)	12	5	1.5	3.9
Mooheau Park	3	11	3.4	5.2
Spencer Beach Park	12	4	6.5	2.0
Maui:				
Kapalua (Fleming) Beach	3	11	1.1	2.3
Kihei (north)	-	12	...	0.9
Makena Beach	4	11	0.7	0.8
Seven Pools	2	6	16.7	1.2
Sheraton Kaanapali	5	11	0.8	1.1
Lanai:				
Hulopoe Bay	2	9	6.5	0.8
Molokai:				
Kaunakakai Harbor	2	10	26.4	5.5
Oahu:				
Ala Moana Park (center)	12	16	1.8	2.4
Ewa Beach Park	21	49	1.8	1.4
Haleiwa Beach	-	35	...	12.4
Hanauma Bay	29	68	8.3	7.1
Kailua Beach Park	26	42	4.2	4.3
Kuhio Beach	22	49	4.9	11.9
Makaha Beach	-	40	...	2.1
Waimea Beach	-	36	...	6.4
Kauai:				
Anini Park Pavilion	4	8	6.0	4.9
Kalapaki Beach	5	11	21.8	4.7
Kekaha (Oomano Pt.)	5	9	0.8	1.2
Poipu Beach Pavilion	5	11	2.2	1.1
W. of Lydgate Park (wading pool) ..	4	9	3.3	6.5

^{1/} See previous table, footnote 1.
Source: Hawaii State Department of Health, Clean Water Branch, records.

Table 147.-- REFUSE AND SEWAGE STATISTICS FOR OAHU: 1980 TO 1991

[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	
1980	613,549	325,976	287,573	36,885
1981	714,017	370,946	343,071	35,945
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

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
1980	45,165	1,592	47	19
1981	43,744	1,623	48	19
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

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 148.-- HAZARDOUS WASTE SITES ON THE NATIONAL PRIORITY LIST: 1989 AND 1990

Category	Number	Rank <u>1/</u>
1989	7	42
1990	7	42

1/ Among the 50 States. The national total was 1,219 sites in 1989 and 1,207 in 1990.

Source: EPA data cited in Statistical Abstract of the United States for 1990 (p. 205) and 1991 (p. 211).

Table 149.-- 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 150.-- AIR QUALITY IN DOWNTOWN HONOLULU:
1980 TO 1990

[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
1980	37	18	1988	26	<5
1981	40	19	1989	30	<5
1982	29	11	1990	30	<5
1983	26	<5	Standards: 1/ Primary ... Secondary .		
1984	25	<5			
1985	24	<5		75	80
1986	25	<5		60	...
1987	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 July 3, 1991.

Table 151.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1990

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

Sampling station	Total suspended particulates			Sulfur dioxide		
	Annual range		Arith- metic average	Annual range		Arith- metic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point <u>1/</u>	21	38	28	<5	<5	<5
Downtown Honolulu	20	35	30	<5	<5	<5
Liliha	24	36	31	...	...	...
Pearl City <u>1/</u> ...	9	16	14	...	...	...
Waimanalo <u>1/</u>	11	20	15	...	...	...
Maui:						
Lahaina <u>1/</u> , <u>2/</u> ..	10	24	17	...	...	...
Kauai:						
Lihue <u>1/</u> , <u>3/</u>	13	20	17	...	...	...

1/ Particulates data from PM₁₀ samplers (measuring inhalable particulates of less than 10 micrograms).

2/ Ten months of data.

3/ Seven months of data.

Source: Hawaii State Department of Health, Clean Air Branch, data supplied July 3, 1991.

Table 152.-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT MAUNA LOA:
ANNUAL MEAN VALUES, 1958 TO 1990

[Parts per million]

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

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 153.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Hawaii:						
Hilo Airport	30	71.2	75.9	53	94	128
Hawaii Volcanoes Nat. Park Hdq. .	3,970	57.6	63.2	37	85	101
Naalehu	675	70.2	75.2	55	90	47
Kailua	30	72.1	77.3	54	93	25
Puako 1/	5	73.1	79.8	52	98	10
Waimea (Kamuela)	2,670	61.3	66.8	34	90	31
Honokaa	1,070	67.6	75.5	(NA)	(NA)	86
Mauna Kea summit 2/	13,796	31.3	42.5	11	66	20
Maui:						
Hana	120	71.3	76.8	50	90	69
Haleakala summit	10,025	42.6	50.0	14	73	44
Kihei 3/	85	70.9	78.4	49	98	13
Kahului Airport	40	71.5	79.2	48	96	20
Lahaina	45	71.5	78.0	52	93	15
Molokai:						
Kaunakakai	10	(NA)	(NA)	(NA)	(NA)	14
Molokai Airport	450	70.2	77.6	48	90	27
Lanai:						
Lanai City	1,620	65.8	72.8	46	88	37
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 153.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Oahu (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 and Land Development, data supplied May 20, 1991 and September 16, 1991.

Table 154.-- 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	12.2
Fastest observation, 1 minute <u>1</u> /	35	44	46	65
Percent of possible sunshine	41	67	69	56
Mean number of days:				
Clear	35.5	131.5	88.2	53.9
Partly cloudy	129.6	143.0	180.3	182.2
Cloudy	200.2	90.7	96.6	129.3
Precipitation .01 inch or more .	278.7	99.6	99.3	201.0

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, 1990 for Hilo, Kahului, Honolulu, and Lihue.

Table 155.-- 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 155.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent)		Wind (miles/hour)		Percent of possible sunshine	Mean sky cover, sunrise to sunset <u>2/</u>	Mean number of days		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest obs. <u>1/</u>			Sunrise to sunset		
							Clear	Cloudy	
January ..	81	62	9.7	32	63	5.5	9.3	8.8	9.8
February .	79	59	10.3	35	65	5.6	7.9	7.9	9.3
March	73	57	11.4	30	70	5.8	7.2	9.4	8.9
April	70	56	11.9	31	67	6.2	5.2	10.5	9.1
May	67	54	11.9	30	69	5.9	6.3	9.4	7.3
June	66	52	12.7	26	71	5.6	5.9	6.8	5.8
July	67	51	13.3	28	74	5.3	7.7	5.2	7.4
August ...	68	52	12.9	28	75	5.2	8.0	6.0	6.2
September	68	52	11.4	26	76	5.2	8.0	5.9	7.1
October ..	70	55	10.6	25	68	5.6	7.4	8.3	8.8
November .	75	58	10.7	46	61	5.7	6.9	9.3	9.3
December .	79	61	10.4	30	59	5.5	8.5	9.2	10.2
Annual ...	72	56	11.4	46	68	5.6	88.2	96.6	99.3

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, 1990.

Table 156.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY,
1980 TO 1990

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1980 ...	77.5	71.9	81.6	56	91	26.90
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
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>		
1980 ...	75	59	11.9	35	69	115
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

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 157.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.) ..	February	Mauna Kea summit ..	23.5
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit ..	31.3
Highest monthly average maximum temp. (°F.) .	September	Kawaihae <u>1/</u>	91.9
Highest monthly average daily temp. (°F.) ...	September	Kawaihae <u>1/</u>	80.8
Lowest average annual rainfall (inches) .....	.....	Kawaihae	8.7
Highest average annual rainfall (inches) ....	.....	Waialeale	444
Single events:			
Lowest temperature of record (°F.)	Jan. 20, 1970 ...	Mauna Kea summit <u>2/</u>	1.4
Highest temperature of record (°F.)	April 27, 1931 ..	Pahala	100
Lowest annual rainfall of record (inches) ...	1953	Kawaihae	0.2
Highest annual rainfall of record (inches) ..	1982	Waialeale	666
Highest wind speed of record (m.p.h.)	Nov. 23, 1982 ...	Makahuena Pt. <u>3/</u> ..	117

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 and Land Development, data supplied May 20, 1991.

Table 158.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1980 TO 1990

[In inches]

Year	Hawaii				Maui		
	Hilo Airport	Wai-me <u>1</u> / mea	Kona Village	Naalehu	Kahului Airport	Kihei	Lahaina
1980 ...	127.74	28.31	16.90	45.46	27.87	20.27	22.69
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
Year	Oahu				Kauai		
	Waikiki	Univ. of Hawaii	Nuuanu Res. 4	Kane-ohe <u>2</u> / ohe	Koloa	Lihue Airport	Princeville
1980 ...	28.50	48.52	140.70	78.36	78.78	54.64	130.55
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	73.53	87.81	56.77	116.65
1990 ...	26.15	40.66	137.81	131.69	73.27	39.37	86.44

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 and Land Development, records.

Table 159.-- MAJOR HURRICANES: 1950 TO 1991

[Complete to May 20, 1991]

Hurricane name	Date ^{1/}	Islands most affected	Maximum winds ashore (m.p.h.)		Deaths	Property damage (mil. dol.)
			Sustained	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

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 and Land Development, data provided May 20, 1991.

Table 160.-- 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 and Land Development, data provided May 20, 1991.

Table 161.-- 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 162.-- 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 163.-- 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 164.-- HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA, BY TYPE OF SPECIES: DECEMBER 16, 1990

Type of species <u>1/</u>	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 165.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1986 TO 1990

[As of June 30]

Location	1986	1987	1988	1989	1990
Along City and County streets and highways <u>1/</u> ...	120,029	121,100	122,253	123,533	124,650
In City and County parks	96,896	97,101	97,434	97,672	98,330

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

Table 166.-- 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 ...	(3/)	150	-	-	1	4/ 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 29,200 in 1989; during the same 20-year span, agricultural land declined from 88,900 to 74,200 acres. For the State as a whole, the Land Use Commission has zoned 178,000 acres as urban, 1,961,000 as conservation, 1,963,000 as agricultural, and 10,000 as rural.

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 5,800 lessees. Total land parcels in the State as of 1991 numbered 431,000.

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: 1991.

Table 167.-- 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 168.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1987 AND 1991

Subject	Dec. 1987: Oahu total	June 1991		
		Oahu total	Honolulu district	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	375,476	375,345	54,129	321,216
Single family	26,182	26,931	8,571	18,360
Multi-family	2,633	2,815	1,112	1,704
Industrial	10,326	10,262	4,113	6,149
Commercial	4,383	4,442	1,806	2,637
Hotel	301	305	132	172
Agriculture	76,842	70,565	302	70,264
Usable vacant	36,684	40,105	2,650	37,455
Other	218,125	219,920	35,444	184,475
STRUCTURES BY YEAR BUILT <u>1/</u>				
All structures	149,086	154,392	63,957	90,435
Before 1930	7,951	7,327	5,570	1,757
1930 to 1939	9,482	8,998	5,702	3,296
1940 to 1949	15,834	15,089	8,652	6,437
1950 to 1959	30,543	29,940	14,417	15,523
1960 to 1969	41,513	41,132	15,563	25,569
1970 to 1979	28,253	28,155	8,162	19,993
1980 to 1989	15,510	20,267	5,262	15,005
1990 and later	-	3,484	629	2,855
DWELLING UNITS BY TYPE <u>1/</u>				
All dwelling units	258,823	266,996	146,717	120,279
Single family and duplex	137,892	143,161	57,290	85,871
Low density multi-family	13,482	15,209	1,015	14,194
High density multi-family	107,449	108,626	88,412	20,214

1/ Data exclude structures on military bases.

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

Table 169.-- LAND PARCELS, BY COUNTIES: 1986 TO 1991

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1986	404,018	212,868	47,321	121,349	22,480
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

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 170.-- CEMETERIES, CHURCHES, HOSPITALS, AND SCHOOLS, BY COUNTIES: 1991

[Privately-owned parcels exempt from real property taxes]

Category	State total	Honolulu	Maui	Hawaii	Kauai
Cemeteries	108	48	5	48	7
Churches	1,390	789	203	267	131
Hospitals	81	67	11	-	3
Schools	150	102	7	39	2

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions, 1991-1992 Tax Year, State of Hawaii (July 1991), p. 6.

Table 171.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: JUNE 1989

[Based on land use classifications used for real property assessment purposes. Data exclude public streets and highways and other areas not in parcels of record. For unknown reasons, totals in this table differ significantly from the corresponding 1988 figures in Data Book 1988, table 184]

Land use class <u>1/</u>	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses <u>2/</u>	4,029,908	372,027	748,668	2,513,392	395,820
Improved residential ...	63,687	40,470	6,608	12,311	4,298
Apartment	5,908	2,279	1,082	1,888	659
Commercial	9,967	7,266	885	1,263	554
Industrial	20,231	10,662	1,782	6,474	1,313
Agricultural	1,924,606	129,974	403,897	1,187,852	202,883
Conservation	1,955,082	160,822	327,983	1,285,319	181,018
Hotel and resort	2,827	255	1,250	557	764
Unimproved residential .	47,600	20,299	5,240	17,729	4,332

1/ Based on "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation as specified in Sec. 246-10, Hawaii Revised Statutes, 1985 Replacement.

2/ Because of excluded categories, these totals differ from figures for total area shown elsewhere in the Data Book.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 172.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1991

[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

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, 1985 Replacement, 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 173.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS:
JANUARY 1991

[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	178,114	1,960,608	1,963,491	10,175
Hawaii	2,573,400	46,650	1,294,309	1,231,813	628
Maui	465,800	19,337	193,652	249,064	3,747
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	2,338	38,201	47,280	2,681
Molokai	165,800	2,509	49,768	111,657	1,866
Oahu	386,188	94,200	154,846	137,142	-
Kauai	353,900	13,080	198,732	140,835	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, 1985 Replacement, 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 174.-- 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 175.-- LAND IN HAWAII OWNED BY LARGE AND SMALL LANDOWNERS:
1988, 1989, AND 1990

Ownership	1988	1989	1990
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>	912,853	909,006	907,013
Bernice P. Bishop Estate <u>3/</u> ...	339,197	338,414	337,000
Richard S. Smart (Parker Ranch) <u>4/</u>	139,301	139,301	139,301
Castle and Cooke, Inc. <u>5/</u>	129,220	129,125	129,004
Samuel M. Damon Estate <u>5/</u>	121,598	121,608	121,608
Alexander and Baldwin, Inc. <u>5/</u>	92,848	91,952	91,900
C. Brewer and Company, Ltd. <u>5/</u>	90,689	88,606	88,200
All others	1,581,573	1,585,420	1,587,413
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	22.6	22.5	22.5
All others	39.2	39.3	39.3
Percent of privately owned land	100.0	100.0	100.0
Six large owners	36.6	36.4	36.4
All others	63.4	63.6	63.6

1/ Fall data. Not surveyed in 1989 or 1990, 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 176.-- REAL PROPERTY OWNED BY OR LEASED TO
THE FEDERAL GOVERNMENT: 1987 TO 1989

Subject	Sept. 30, 1987	Sept. 30, 1988 <u>1/</u>	Sept. 30, 1989
OWNED			
Number of installations	317	(NA)	320
Land area, total (acres)	673,845.8	673,464.2	676,823.9
Urban	53,486.3	(NA)	68,903.3
Rural	620,359.5	(NA)	607,920.6
Number of buildings	10,705	(NA)	15,533
Floor area of bldgs. (1,000 sq. ft.)	(NA)	(NA)	73,033
Cost, total (\$1,000) <u>2/</u>	2,217,625	(NA)	2,153,155
Land	163,426	(NA)	157,980
Buildings	1,250,462	(NA)	1,375,116
Structures and facilities	803,737	(NA)	620,059
Predominant usage (acres):			
Agriculture and grazing	-	(NA)	-
Forest and wildlife	267,189.5	(NA)	267,190.4
Parks and historic sites	245,110.1	(NA)	245,110.1
Power development and distribution	-	(NA)	-
Military, excluding airfields	108,727.9	(NA)	108,564.1
Airfields	6,412.2	(NA)	5,231.0
Harbor and port facilities	23.6	(NA)	23.6
Reclamation and irrigation	-	(NA)	-
Office building locations	56.8	(NA)	56.8
Flood control and navigation	1,424.2	(NA)	1,424.2
Vacant	3.0	(NA)	3.0
Institutional	358.0	(NA)	-
Housing	87.4	(NA)	87.4
Storage	926.1	(NA)	778.2
Industrial	3,576.6	(NA)	8,400.7
Research and development	360.2	(NA)	360.2
Other land	39,590.2	(NA)	39,594.2
LEASED			
Number of leases	248	263	300
Land area, total (acres)	9,416.5	7,418.9	8,419.9
Urban	309.2	309.7	312.8
Rural	9,107.3	7,109.2	8,107.1
Number of building locations	172	182	235
Floor area of buildings (sq. ft.) ..	408,382	548,240	689,146
Annual rental (\$1,000)	3,383	4,377	6,822

Footnote and source on next page.

Table 176.-- REAL PROPERTY OWNED BY OR LEASED TO
THE FEDERAL GOVERNMENT: 1987 TO 1989 -- 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 DBED dated August 1, 1990.

Table 177.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1990

[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 1/	Resi- dential	Total 1/	Resi- dential
State total ..	187,413	32,713	5,778	4,592	20,001	11,819
Hawaii	107,883	20,943	1,547	1,017	7,480	3,525
Maui	28,995	541	560	492	3,978	1,974
Molokai	25,366	9,477	795	319	1,147	554
Oahu	6,600	921	2,429	2,365	5,176	4,703
Kauai	18,569	831	447	399	2,220	1,063

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 12,000.

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

Table 178.-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY,
BY COUNTIES: MAY 6, 1991

[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	1,413.9	70.8	979.9	155.6	207.8
Public lands	422.1	18.2	326.8	37.9	39.1
General lease 1/	222.3	4.5	186.5	22.8	8.4
Revocable permit 2/	82.5	1.9	46.4	11.9	22.2
Unencumbered lands 3/...	117.3	11.8	93.9	3.2	8.5
Lands set aside to other government agencies	781.1	42.5	536.5	96.6	105.6
Executive order	258.6	13.3	196.2	23.9	25.2
Governor's proclamation	522.5	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 .	1.5	1.2	0.1	0.5	0.1
Highways and roads	15.8	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 6,971,000 visitors stayed overnight or longer in Hawaii during 1990, compared with 3,935,000 in 1980 and only 1,747,000 in 1970. The average number present at any given time during 1990 was 162,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1990 were estimated by the Hawaii Visitors Bureau at \$9.4 billion, compared with \$2.9 billion a decade earlier. The 1990 visitor total included 4.43 million from other States, 318,000 from Canada, and 1.44 million from Japan. Expenditures per visitor day in 1990 averaged \$137 for westbound visitors and \$294 for the Japanese. Visitor-related spending in 1989 resulted in tax revenues of \$1.1 billion and generated 243,000 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, 582 county parks, 65 golf courses, 279 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 1990 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 1990 numbered 21 million. About 444,000 Hawaii residents traveled to the Mainland or abroad in 1990. Twelve theatrical groups on Oahu reported 1,419 performances of 377 productions for the 1989-1990 season, with a combined audience of 967,000. During the 1990-1991 season, the Honolulu Symphony Orchestra gave 101 concerts, with a total attendance of 160,000. During the 1990-1991 school year, attendance at UH-Manoa varsity baseball, basketball, football and volleyball home games was 637,000.

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: 1991.

Table 179.-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND TRANSIT STATUS: 1981 TO 1990

Direction and status	1981	1982	1983	1984	1985
All directions ..	5,305,809	5,580,240	5,546,540	6,107,730	6,314,290
Landing	4,211,250	4,582,020	4,653,450	5,242,770	5,338,170
Intransit	1,094,559	998,220	893,090	864,960	976,120
Westbound <u>1</u> /	3,780,383	4,078,360	4,098,720	4,543,890	4,675,690
Landing	3,223,653	3,589,625	3,654,560	4,082,070	4,137,830
Intransit	556,730	488,735	444,160	461,820	537,860
Eastbound <u>2</u> /	1,525,426	1,501,880	1,447,820	1,563,840	1,638,600
Landing	987,597	992,390	998,890	1,160,700	1,200,340
Intransit	537,829	509,490	448,930	403,140	438,260
Direction and status	1986	1987	1988	1989	1990
All directions ..	7,063,710	7,324,280	7,894,680	8,236,250	8,507,330
Landing	6,068,990	6,248,550	6,715,600	7,149,700	7,453,550
Intransit	994,720	1,075,730	1,179,080	1,086,550	1,053,780
Westbound <u>1</u> /	5,245,690	5,214,520	5,443,980	5,734,910	5,692,950
Landing	4,689,480	4,617,230	4,793,580	5,115,410	5,127,690
Intransit	556,210	597,290	650,400	619,500	565,260
Eastbound <u>2</u> /	1,818,020	2,109,760	2,450,700	2,501,340	2,814,380
Landing	1,379,510	1,631,320	1,922,020	2,034,290	2,325,860
Intransit	438,510	478,440	528,680	467,050	488,520

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 180.-- PASSENGER STATUS OF PARTIES AND PASSENGERS ARRIVING IN HAWAII,
BY DIRECTION OF TRAVEL: 1988 TO 1990

Year and direction of travel	All types	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents
			Overnight or longer	In transit		
PARTIES <u>1/</u>						
1988, total ...	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Westbound	2,719,110	2,136,630	219,300	(NA)	357,780	5,400
Eastbound <u>2/</u>	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
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 ...	3,316,820	2,800,420	253,050	(NA)	242,480	20,870
Westbound	2,250,220	1,875,720	154,370	(NA)	203,920	16,210
Eastbound <u>2/</u>	1,066,600	924,700	98,680	(NA)	38,560	4,660
PASSENGERS						
1988, total ...	7,894,680	(NA)	(NA)	1,179,080	(NA)	(NA)
Westbound	5,443,980	3,903,640	361,090	650,400	521,000	7,850
Eastbound <u>2/</u>	2,450,700	(NA)	(NA)	528,680	(NA)	(NA)
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

NA Not available.

1/ Not surveyed for in-transit passengers.

2/ Including northbound.

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

Table 181.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1990

[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

1/ Arriving from the Mainland United States or Canada.

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

Table 182.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII:
1990

Country of residence	Total	Westbound	Eastbound
All visitors	6,971,180	4,719,730	2,251,450
United States	4,431,260	3,958,860	472,400
Canada	317,900	264,140	53,760
Asia	1,657,250	144,830	1,512,420
Japan	1,439,710	95,820	1,343,890
Taiwan	64,590	6,210	58,380
Korea	58,030	17,140	40,890
Hong Kong	21,160	6,950	14,210
China	17,450	860	16,590
Philippines	10,450	5,710	4,740
Singapore	15,960	4,830	11,130
Indonesia	9,910	3,020	6,890
Other Asia	19,990	4,290	15,700
South Pacific	324,060	186,310	137,750
Australia	220,160	132,500	87,660
New Zealand	93,360	51,080	42,280
Other South Pacific	10,540	2,730	7,810
Europe	221,840	153,760	68,080
United Kingdom	84,460	50,040	34,420
West Germany	54,230	44,020	10,210
Other Europe	83,150	59,700	23,450
Other foreign countries	18,870	11,830	7,040

Source: Hawaii Visitors Bureau, records.

Table 183.-- VISITOR DAYS, BY DIRECTION OF TRAVEL:
1989 AND 1990

Year	Total	Westbound	Eastbound and northbound
1989	58,588,970	46,582,670	12,006,300
1990	59,155,920	45,840,750	13,315,170

Source: Hawaii Visitors Bureau, records.

Table 184.-- AVERAGE VISITOR CENSUS, BY COUNTIES AND ISLANDS:
1989 AND 1990

County or island	1989			1990		
	Total	West-bound	Other	Total	West-bound	Other
State total ..	169,670	135,480	34,190	162,070	125,590	36,480
Oahu	88,750	61,480	27,270	87,400	56,750	30,650
Hawaii County	17,760	15,560	2,200	16,970	15,390	1,580
Kauai County	19,140	18,090	1,050	18,200	17,200	1,000
Maui County	44,020	40,350	3,670	39,500	36,250	3,250
Lanai	240	210	30	250	230	20
Maui	42,690	39,240	3,450	38,150	34,980	3,170
Molokai	1,090	900	190	1,100	1,040	60

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

Table 185.-- VISITOR ARRIVALS, WESTBOUND AND OTHER, BY AREAS VISITED:
1989 AND 1990

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

Areas visited	1989			1990		
	Total	West-bound	Other	Total	West-bound	Other
State total <u>2/</u>	6,641,820	4,705,320	1,936,500	6,971,180	4,719,730	2,251,450
Oahu	5,049,350	3,205,800	1,843,550	5,350,940	3,171,630	2,179,310
Kauai	1,291,210	1,138,230	152,980	1,286,360	1,118,930	167,430
Maui County <u>2/</u> ...	2,513,960	2,113,100	400,860	2,389,970	1,995,160	394,810
Maui	2,468,870	2,075,760	393,110	2,345,060	1,954,770	390,290
Molokai	101,510	86,020	15,490	103,630	95,130	8,500
Lanai	46,790	42,920	3,870	45,930	41,760	4,170
Hawaii County <u>2/</u> .	1,120,830	946,540	174,290	1,170,830	982,900	187,930
Kona side	999,140	857,770	141,370	1,030,900	877,930	152,970
Hilo side	367,150	303,240	63,910	391,470	332,070	59,400
One island only ..	4,184,080	2,795,610	1,388,470	4,574,820	2,912,570	1,662,250
Oahu only	2,900,470	1,595,270	1,305,200	3,253,200	1,658,430	1,594,770

1/ Eastbound or northbound. Distribution by areas visited based on data for fourth quarter only.

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 186.-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS,
BY DIRECTION OF TRAVEL: 1989 AND 1990

Subject	1989: West- bound <u>1/</u>	1990		
		Total	West- bound	Eastbound and northbound
Residence (percent):				
United States	84.8	63.6	83.9	21.0
Pacific and Mountain States	43.8	33.7	46.2	7.5
California	28.8	23.0	31.6	4.9
Males per 100 females	90.8	(NA)	92.3	(NA)
Median age (years)	37.3	(NA)	38.8	(NA)
High-status occupations <u>2/</u> (percent) ...	68.2	45.0	54.3	25.6
Persons per party	2.3	2.3	2.3	2.0
Arriving June-August (percent)	27.6	28.5	28.0	29.4
Repeat visitors <u>3/</u> (percent)	53.9	50.9	56.1	40.1
Pleasure trip (percent).....	84.1	83.1	84.8	79.6
In hotel only	58.5	63.9	55.0	82.5
Destined beyond Hawaii (percent)	6.2	7.8	7.0	9.6

NA Not available.

1/ Eastbound and northbound survey began in fourth quarter of 1989.

2/ Managerial and professional and their dependents as a percent of all visitors.

3/ Dependents assumed same as party heads.

Source: Hawaii Visitors Bureau, records.

Table 187.-- DEMOGRAPHIC CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL: 1990

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

Subject	Total	Westbound	Eastbound and northbound
All visitors	6,971,180	4,719,730	2,251,450
Age:			
Under 10 years	(NA)	303,000	(NA)
10 to 19 years	(NA)	356,990	(NA)
20 to 29 years	(NA)	829,930	(NA)
30 to 39 years	(NA)	985,870	(NA)
40 to 49 years	(NA)	967,710	(NA)
50 to 59 years	(NA)	621,630	(NA)
60 years and over	(NA)	654,600	(NA)
Median (years)	(NA)	38.8	(NA)
Sex:			
Male	(NA)	2,265,628	(NA)
Female	(NA)	2,454,102	(NA)
Residence:			
Pacific	1,984,690	1,840,520	144,170
Alaska	38,770	35,850	2,920
California	1,601,540	1,490,740	110,800
Oregon	94,920	88,710	6,210
Washington	249,460	225,220	24,240
Mountain	362,560	338,480	24,080
West North Central	229,390	207,250	22,140
West South Central	274,550	249,710	24,840
East North Central	460,560	403,530	57,030
East South Central	89,350	80,010	9,340
New England	163,830	141,760	22,070
Middle Atlantic	407,720	350,920	56,800
South Atlantic	416,610	339,800	76,810
U.S. territories	42,000	6,880	35,120
Canada	317,900	264,140	53,760
Japan	1,439,710	95,820	1,343,890
Other foreign	782,310	400,910	381,400

NA Not available.

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

Table 188.-- TRIP CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL:
1990

[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>	6,971,180	4,719,730	2,251,450
Purpose of visit: <u>1/</u>			
Pleasure	5,795,080	4,002,080	1,793,000
Meetings, conventions, incentive <u>1/</u> .	502,990	352,140	150,850
Convention	265,180	232,910	32,270
Corporate meeting	93,190	70,660	22,530
Incentive	153,060	56,380	96,680
Other business	221,720	179,730	41,990
Visit friends or relatives	382,080	314,290	67,790
Government or military	61,750	47,250	14,500
Other	324,250	120,670	203,580
Traveler method:			
Tour group	2,261,050	635,850	1,625,200
Non-group	4,710,130	4,083,880	626,250
Package	3,763,850	1,984,380	1,779,470
Non-package	3,207,330	2,735,350	471,980
Accommodations:			
Hotel	5,154,450	3,207,060	1,947,390
Hotel only	4,454,110	2,596,360	1,857,750
Condo	1,672,560	1,386,250	286,310
Condo only	1,089,550	876,080	213,470
Friends, relatives	611,590	540,110	71,480
Cruise ship	100,340	95,790	4,550
Other accommodations	188,320	150,040	38,280

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

Source: Hawaii Visitors Bureau, 1990 Domestic Market, Visitors to Hawaii (1991), p. 79.

Table 189.-- CHARACTERISTICS OF VISITOR PARTY HEADS, BY DIRECTION OF TRAVEL: 1990

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

Subject	Total	Westbound	Eastbound and northbound
All visitor party heads	3,053,480	2,030,090	1,023,390
Occupation:			
Senior management	231,930	143,620	88,310
Middle management	461,780	386,560	75,220
Sales, marketing	261,750	155,520	106,230
Clerical	239,840	71,080	168,760
Professional	669,320	571,320	98,000
Technical, trade	175,430	62,550	112,880
Labor	71,140	29,240	41,900
Military service	36,790	27,640	9,150
Military dependent	(NA)	6,130	(NA)
Student	171,080	91,680	79,400
Self-employed	181,740	81,090	100,650
Retired	263,750	229,100	34,650
Other	282,790	174,560	108,230
Trips to Hawaii:			
First trip	1,504,220	891,210	613,010
Second trip	598,450	401,960	196,490
Third trip	287,880	211,130	76,750
Four trip and over	662,920	525,790	137,130
Persons in party:			
1 person	939,700	470,990	468,710
2 persons	1,334,150	1,039,410	294,740
3 persons	248,270	174,590	73,680
4 persons	288,870	215,190	73,680
5 persons or more	242,500	129,920	112,580

NA Not available.

Source: Hawaii Visitors Bureau, records.

Table 190.-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY DIRECTION OF TRAVEL: 1988 TO 1990

[Eastbound and northbound data not available before 4th quarter of 1989]

Length of stay	1988: West-bound	1989: West-bound	1990		
			Total	West-bound	Eastbound and northbound
All visitors	4,264,730	4,705,320	6,971,180	4,719,730	2,251,450
1 to 6 days	679,960	768,190	2,957,900	1,146,200	1,811,700
7 to 12 days	2,756,930	2,720,430	2,957,390	2,617,070	340,320
13 to 30 days	784,770	876,740	977,940	891,910	86,030
31 to 365 days	43,070	42,030	77,950	64,550	13,400
Not reported	(1/)	297,930	(1/)	(1/)	(1/)
Median (days)	9.7	9.7	7.5	8.4	5.5
Mean (days)	9.9	9.9	8.5	9.7	5.9

1/ Nonresponse distributed in 1988 and 1990.

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

Table 191.-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES: 1985 TO 1990

Subject	1985	1986	1987	1988	1989	1990
Arrivals (1,000)	709	731	905	1,217	1,319	1,440
Average stay (days)	5.9	5.9	5.8	6.0	6.0	5.9
Expenditures <u>1/</u> (mil. dol.) ..	983	1,296	1,702	2,252	2,514	2,500

1/ Revised estimates for 1985-1989.

Source: Hawaii Visitors Bureau, records.

Table 192.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF
MAINLAND VISITORS TO HAWAII: 1987 TO 1990

Subject	1987	1988	1989	1990
Number of respondents in sample	5,185	5,004	6,983	6,001
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under \$15,000	2.1	1.2	1.5	0.9
\$15,000 to \$24,999	8.2	6.4	5.5	4.1
\$25,000 to \$34,999	14.1	11.7	11.6	9.9
\$35,000 to \$49,999	25.4	22.9	20.0	23.0
\$50,000 to \$74,999	29.2	29.5	29.3	27.9
\$75,000 and over	21.0	28.3	32.1	34.2
Median income (dollars)	50,100	56,600	59,700	56,100
Mean income (dollars)	56,000	61,400	63,600	72,800
Education: college graduates (percent)	56.4	62.7	64.6	59.5
Using travel agent (percent)	85.1	81.8	80.7	79.8
Islands visited (percent):				
Oahu	70.0	65.6	67.1	64.0
Kauai	30.4	31.3	36.8	39.9
Maui	42.1	42.6	52.3	48.3
Hawaii	28.0	25.7	26.0	30.1
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	36.0	39.6	38.9	30.4
Above average	55.4	53.2	53.5	56.8
Average	7.7	6.8	6.9	10.9
Below average	0.8	0.4	0.5	1.8
Quite inferior	0.2	(Z)	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 193.-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1989 AND 1990

Island	Number of meetings held		Estimated attendance	
	1989	1990	1989	1990
State total	754	743	259,399	201,534
Hawaii:				
Hilo	3	5	837	1,588
Kona	130	132	34,851	34,293
Maui	160	148	60,111	37,569
Molokai	1	1	88	80
Oahu	362	387	137,329	115,262
Kauai	98	70	26,183	12,742

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 194.-- MEETINGS AND CONVENTIONS: 1985 TO 1990

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue (\$1,000)
1985	740	247,166	104,354	219,882
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

NA Not available.

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 195.-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS:
1931-1932 TO 1990

[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	137.40	294
1980	71.24	185			

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, 30; and revised estimates of Mainlander expenditures, 1989-1990, and Japanese expenditures, 1986-1990.

Table 196.-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM THE MAINLAND, 1989 AND 1990, AND VISITORS FROM JAPAN, 1990, BY EXPENDITURE TYPE

[In dollars. Excludes transpacific travel costs]

Expenditure type	Visitors from Mainland		Visitors from Japan: 1990
	1989	1990	
All items	126.57	136.30	294.04
Food and beverage	26.41	28.90	41.70
Restaurants	18.70	20.62	25.65
Dinner shows	2.61	2.14	4.23
Nightclubs	2.40	3.03	2.89
Groceries	2.70	3.11	8.92
Entertainment	8.41	8.86	16.05
Attractions	6.17	6.21	6.97
Other entertainment.....	2.24	2.65	9.08
Transportation	13.93	14.07	14.31
Ground transportation	1.01	0.97	1.78
U-drive cars.....	5.42	6.48	2.76
Interisland travel	5.04	3.90	4.74
Sightseeing tours	2.46	2.72	5.03
Clothing	9.76	8.74	27.98
Gifts and souvenirs	10.97	9.41	77.48
Lodging	49.43	57.76	73.77
All other and unclassified	5.31	6.42	38.92
Adjustment <u>2/</u>	2.35	2.14	3.83

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, The 1990 Visitor Expenditure Report (1991), pp.18 and 44.

Table 197.-- EXPENDITURES PER VISITOR DAY BY WESTBOUND VISITORS, 1989 AND 1990,
AND JAPANESE VISITORS, 1990, BY VISITOR OR TRIP CHARACTERISTICS

[Dollars]

Visitor or trip characteristics	Westbound visitors		Japanese visitors: 1990
	1989	1990	
All visitors	126.57	136.30	294.04
Islands:			
Oahu	122.23	120.00	296.76
Neighbor Islands	145.76	163.02	240.91
Group tour status:			
Organized group tour	126.83	145.79	296.50
Individually arranged	126.73	135.23	285.39
Accommodations:			
Hotel only	129.73	144.46	308.66
Condo only	103.09	97.10	175.69
Guests of friends and relatives	*55.71	*37.28	(NA)
Hotel/condo combination	119.03	128.21	(NA)
Length of stay:			
1 to 6 days	144.68	151.51	310.94
7 to 12 days	122.27	131.71	270.52
13 to 18 days	126.72	} 138.35	*132.53
19 days or longer	104.93		
Residence: <u>1/</u>			
Pacific	121.54	135.90	(NA)
Mountain	111.69	126.97	(NA)
W.N. Central	123.55	107.92	(NA)
W.S. Central	131.63	135.14	(NA)
E.N. Central	122.01	137.76	(NA)
E.S. Central	116.24	143.46	(NA)
New England	122.27	135.60	(NA)
Mid-Atlantic	137.00	139.14	(NA)
S. Atlantic	137.55	145.17	(NA)
Previous visits:			
First trip	125.11	134.66	317.20
Repeat visitors	127.15	137.56	270.13

Continued on next page.

Table 197.-- EXPENDITURES PER VISITOR DAY BY WESTBOUND VISITORS, 1989 AND 1990, AND JAPANESE VISITORS, 1990, BY VISITOR OR TRIP CHARACTERISTICS--Con.

Visitor or trip characteristics	Westbound visitors		Japanese visitors: 1990
	1989	1990	
Party size:			
1 person	161.94	161.87	(NA)
2 persons	125.28	138.16	(NA)
3 persons	94.40	107.41	(NA)
4 persons or more	84.32	104.00	(NA)
Purpose of trip:			
Pleasure	124.57	136.61	279.53
Business: Meetings, conventions, incentive Other business	} 150.08	{ 160.70 134.66	340.30 299.90
Other purpose	111.94	96.03	(NA)
Time of year:			
First quarter	127.35	135.10	275.76
Second quarter	127.02	144.83	327.27
Third quarter	124.13	139.74	263.75
Fourth quarter	128.10	125.35	309.39
Arrived on package tour:			
Yes	124.38	128.83	299.04
No	129.78	144.00	256.34
Children in party:			
Yes	87.33	95.35	192.03
No	130.97	140.01	319.16
On honeymoon:			
Yes	(NA)	(NA)	417.54
No	(NA)	(NA)	274.57

* Sample under 25; subject to considerable sampling variation.

NA Not available.

1/ Census divisions.

Source: Hawaii Visitors Bureau, 1989 Expenditures, Westbound Visitors to Hawaii (1990), pp. 14-27, and The 1990 Visitor Expenditure Report (1991), pp. 18-32, 44-56.

Table 198.-- ESTIMATED VISITOR EXPENDITURES: 1958 TO 1990

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

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 199.-- VISITOR EXPENDITURES, BY DIRECTION OF TRAVEL, COUNTRY OF RESIDENCE, AND ISLANDS: 1989 AND 1990

[In thousands of dollars. Revised from Data Book 1990, tables 205 and 383]

Year and direction of travel or island	Country of residence ^{1/}			
	Total	United States	Japan	Other countries
1989, all visitors	8,785,289	5,197,905	2,513,723	1,073,661
Westbound	5,771,856	4,967,883	118,684	685,289
Eastbound and northbound	3,013,433	230,022	2,395,039	388,372
Oahu	5,163,063	2,440,311	2,101,914	620,838
Maui, Molokai, Lanai	1,917,800	1,422,095	256,415	239,290
Kauai	891,147	717,908	65,325	107,914
Hawaii	813,279	617,591	90,069	105,619
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

^{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 200.-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES:
1970 TO 1990

[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

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 1981-1990 estimates based on the DBED Input-Output Model and Hawaii Econometric Model.

Table 201.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1990

Year	Visitor-related expenditures <u>1/</u> (million dollars)	Total sales or output <u>2/</u> (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs <u>2/</u> (1,000)
1970	714.6	1,290.8	459.7	69.7	76.6
1971	835.8	1,507.0	538.6	82.8	87.3
1972	982.2	1,766.2	633.6	96.7	96.2
1973	1,181.6	2,122.0	763.5	118.7	105.6
1974	1,408.6	2,522.3	910.7	141.0	112.8
1975	1,559.4	2,751.7	995.9	165.7	113.5
1976	1,890.8	3,263.0	1,184.0	201.4	123.1
1977	2,093.8	3,642.9	1,324.9	225.0	127.3
1978	2,427.4	4,238.7	1,544.2	262.1	132.4
1979	2,947.7	5,005.0	1,826.8	316.7	143.3
1980	3,406.2	5,719.5	2,091.0	353.0	150.0
1981	3,775.0	6,265.2	2,294.1	390.1	154.4
1982	4,235.0	7,162.3	2,627.1	436.9	165.4
1983	4,483.0	7,587.9	2,788.9	461.6	166.2
1984	5,139.0	8,655.9	3,185.6	537.0	180.7
1985	5,544.0	9,210.9	3,390.2	578.8	186.5
1986	6,362.0	10,263.7	3,782.5	657.2	196.3
1987	7,180.0	12,028.3	4,455.2	<u>3/</u> 831.0	207.3
1988	8,587.0	12,744.0	5,100.8	938.4	216.7
1989	9,628.0	15,393.4	5,712.7	1,049.1	222.9
1990	10,357.0	16,478.9	6,115.5	1,123.9	227.2

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 1970-1989 estimates based on the DBED Input-Output Model and Hawaii Econometric Model.

Table 202.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES,
BY INDUSTRY: 1990

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	10,357.0	16,478.9	6,115.5	227.2	126.9
Agriculture	57.0	126.1	55.9	0.7	0.4
Textile and apparel mfg.	93.6	165.6	57.1	3.6	2.2
Other manufacturing	277.6	544.0	144.3	7.0	2.2
Air transportation	607.1	1,068.6	346.1	13.6	6.1
Other transportation	289.0	595.4	228.3	4.4	2.2
Wholesale trade <u>4/</u>	241.7	510.0	220.0	8.3	4.0
Eating and drinking places ...	1,789.3	3,489.2	1,055.7	54.7	31.8
Other retail trade <u>4/</u>	955.8	2,055.1	955.8	43.4	28.4
Hotel services and real estate	2,902.3	6,472.2	2,467.0	62.8	32.5
Other services	705.2	1,452.7	585.3	28.7	17.1
Imports	1,994.3	-	-	-	-

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 203.-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES:
1970 TO 1990

Year	Implicit price deflator <u>1/</u> (1982=100)	Average daily room rate <u>2/</u> (dollars)	1-way air fares (dollars)		Honolulu consumer price index <u>5/</u> (1982-84=100)		
			San Francisco-Honolulu <u>3/</u>	Honolulu-Kahului <u>4/</u>	Eating out	Apparel, upkeep	All items
1970 ..	45.2	25.74	97.30	19.00	38.6	56.2	41.5
1971 ..	46.1	24.28	111.35	19.00	40.4	57.4	43.2
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	554.00	49.95	128.0	107.0	138.1

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

2/ From Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii (monthly).

3/ 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, 1979-1990.

4/ Kamaaina fare, including taxes, as of July 1, by Hawaiian Airlines. From chronology in DPED, Statistical Report 103, and Data Book, 1979-1990.

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

Source: See above footnotes.

Table 204.-- PER DIEM COST OF BUSINESS TRAVEL TO HONOLULU: 1988

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

Item	Amount (dollars)	Percent of U.S. average <u>1/</u>	Rank <u>1/</u>
Total per diem cost	158.65	96.8	37
Food	<u>2/</u> 52.55	95.3	40
Lodging	68.37	105.7	32
Car rental	37.73	85.6	94

NA Not available.

1/ Based on the 100 leading business travel MSAs in the U.S.

2/ Breakfast, \$7.51; lunch, \$9.81; dinner, \$26.75; tax and 15 percent tip, \$8.48.

Source: "1989 Corporate Travel Index," Corporate Travel (offprint, 1989); Honolulu Star-Bulletin, May 18, 1989, pp. C-1 and C-4.

Table 205.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1985 TO 1990

[In dollars. Years ended June 30]

Year	Income				Expenditures
	Total	State appropriations <u>1/</u>	Private subscriptions	Other <u>2/</u>	
1985	5,345,724	4,009,391	1,125,914	210,419	5,347,648
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

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: Peat, Marwick, Mitchell & Co., Hawaii Visitors Bureau, Financial Statements and Schedules (annual).

Table 206.-- STATE TOURISM OFFICE BUDGET AND RANK:
1989-90 ACTUAL AND 1990-91 PROJECTED

[Includes Hawaii Visitors Bureau and DBED Tourism Branch]

Category	Amount (\$1,000)		Rank (50 states)	
	1989-90	1990-91	1989-90	1990-91
Total budget	21,999	22,348	2	2
Advertising budget ..	3,337	4,714	13	5

Source: U.S. Travel Data Center, Survey of State Travel Offices 1990-1991 (March 1991).

Table 207.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE
MAINLAND: 1985 TO 1990

Year	Number returning	Median age (years)	Males per 100 females	Persons per party ^{1/}	Days absent		Average number absent
					Median	Mean	
1985	403,450	39.2	100.5	1.43	12.2	15.3	16,900
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

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 208.-- CHARACTERISTICS OF HAWAII RESIDENTS RETURNING FROM
OUT-OF-STATE TRIPS, BY DIRECTION OF TRAVEL: 1990

Subject	Total	Westbound	Eastbound and northbound
All returning residents	444,200	378,640	65,560
Purpose of trip:			
Pleasure	220,090	190,500	29,590
Meetings, conventions, incentive ...	46,910	41,290	5,620
Other business	44,510	34,310	10,200
Visit friends or relatives	111,990	103,240	8,750
Government or military	30,920	20,410	10,520
Attend school	9,470	7,530	1,940
Age:			
Under 10 years	(NA)	42,747	(NA)
10 to 19 years	(NA)	33,509	(NA)
20 to 29 years	(NA)	58,393	(NA)
30 to 39 years	(NA)	71,365	(NA)
40 to 49 years	(NA)	67,909	(NA)
50 to 59 years	(NA)	47,841	(NA)
60 years and over	(NA)	56,877	(NA)
Median (years)	(NA)	37.7	(NA)
Sex:			
Males	(NA)	172,701	(NA)
Females	(NA)	205,939	(NA)
Males per 100 females	(NA)	83.9	(NA)
Persons per party	1.83	1.86	1.70
Days absent:			
Median	(NA)	9.8	14.3
Mean	(NA)	13.9	19.9
Average number absent	17,970	14,400	3,570

NA Not available.

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

Table 209.-- 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 210.-- PASSPORTS ISSUED BY HONOLULU OFFICE: 1987 TO 1990

[Calendar year data. The area served by the Honolulu Passport Office includes Hawaii and American Samoa for all years and Guam and the Northern Mariana Islands beginning November 1988]

Mailing address	1987	1988 <u>1/</u>	1989	1990
Issued by Honolulu Office	47,979	43,875	47,401	51,703
Mailed to Hawaii addresses	(NA)	(NA)	36,034	33,762
Mailed outside the State	(NA)	(NA)	11,367	17,941

NA Not available.

1/ Includes some passports issued in California.

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

Table 211.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS,
BY ISLANDS: 1988 TO 1990

Island	Number of attractions reported			Attendance		
	1988	1989	1990	1988	1989	1990
State total ..	76	74	75	20,656,062	19,499,480	21,045,077
Hawaii	13	13	11	5,489,823	4,229,628	4,411,741
Maui <u>1/</u>	14	14	14	988,207	927,470	908,042
Lanai	-	-	-	-	-	-
Molokai	3	3	3	18,709	18,285	15,463
Oahu	36	36	39	13,424,032	13,658,342	15,004,365
Kauai	10	8	8	735,291	665,755	705,466
Niihau	-	-	-	-	-	-

1/ Lahaina Restoration Foundation attractions counted separately.

Source: Table 212.

Table 212.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1988 TO 1990

[Calendar year data unless otherwise specified. Some 1988 and 1989
data have been revised]

Island and cultural attraction	1988	1989	1990
Oahu:			
Bernice P. Bishop Museum <u>1/</u>	362,906	302,127	325,679
The Contemporary Museum <u>2/</u>	5,000	27,009	28,098
Damien Museum and Archives	11,026	11,598	10,848
Dole Cannery Square	302,000	362,000	517,000
Dole Plantation	(NA)	(NA)	1,029,000
Foster Botanic Garden	57,532	54,865	61,240
Fred Ohrt Water Museum	3,334	4,510	4,048
Halawa Tunnel	(NA)	(NA)	3,091
Halawa Xeriscape Garden <u>3/</u>	-	4,284	4,412
Harold L. Lyon Arboretum	11,795	15,371	27,100
Hawaii Maritime Center <u>4/</u>	1,952	66,500	109,200
Hawaii Nature Center	23,142	32,466	34,836
Honolulu Academy of Arts <u>5/</u>	230,736	299,219	256,654
The Honolulu Advertiser Gallery	27,100	27,400	27,800
Honolulu Zoo	875,825	752,207	652,276
Hoomaluhia Park	59,323	59,774	70,630
Iolani Palace State Monument <u>1/</u>	72,000	74,000	72,000
Mission Houses Museum	26,746	29,788	24,902
Moanalua Gardens	10,318	(NA)	21,600
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center)	232,767	219,818	245,782
National Memorial Cemetery of the Pacific	5,623,916	6,049,931	6,281,431
Paradise Cove Luau Park	298,198	264,743	250,354
Paradise Park <u>6/</u>	215,677	185,457	75,142
Polynesian Cultural Center	881,500	850,185	884,043
Puu o Mahuka Heiau State Monument <u>1/</u>	7,000	9,000	6,000
Queen Emma Summer Palace	23,793	20,766	23,627
Royal Mausoleum State Monument <u>1/</u>	74,000	77,000	18,000
Sea Life Park Hawaii	739,041	740,170	692,607
Senator Fong's Plantation and Gardens <u>7/</u>	32,578	55,690	79,483
Tropic Lightning Museum <u>8/</u>	4,500	5,350	4,416
Ulu Po Heiau State Monument <u>1/</u>	2,000	2,000	2,000
U.S. Army Museum, Ft. DeRussy	108,123	125,680	137,267
U.S.S. Arizona Memorial	1,778,347	1,768,587	1,870,805
Visiting either Memorial or Visitor Center	1,462,395	1,444,639	1,469,676
Aboard non-landing tour boats	315,952	323,948	401,129
U.S.S. Bowfin WWII Submarine Exhibit	245,742	202,571	193,172
University of Hawaii Art Gallery	50,000	50,000	50,000
Wahiawa Botanical Garden	17,400	13,248	19,298
Waikiki Aquarium <u>1/</u>	341,819	300,750	303,297

Continued on next page.

Table 212.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1988 TO 1990 -- Con.

Island and cultural attraction	1988	1989	1990
Oahu - con.:			
Waimea Falls Park <u>9/</u>	654,896	580,020	567,952
Waipahu Cultural Garden Park	12,000	14,258	19,275
Hawaii:			
Hawaii Tropical Botanical Garden	33,051	35,466	42,440
Greenwell Store Museum	5,000	5,000	5,000
Hulihee Palace	25,470	27,716	27,368
Jagger Museum	1,900,000	2,000,000	2,000,000
Kealahou Bay State Historical Park <u>1/</u> .	62,000	47,000	51,000
Kilauea Visitor Center	1,800,000	1,800,000	2,000,000
Lapakahi State Historical Park <u>1/</u>	69,000	77,000	101,000
Lyman House Memorial Museum	16,414	16,847	18,913
Panaewa Rainforest Zoo	69,814	77,133	76,118
Parker Ranch Historic Homes <u>10/</u>	(NA)	28,710	(NA)
Parker Ranch Visitor Center	28,000	31,000	(NA)
Volcano Art Center <u>11/</u>	52,470	55,450	58,500
Wahaula Visitor Center <u>12/</u>	1,400,000	(NA)	-
Wailoa Center	28,604	28,306	31,402
Maui:			
Alexander & Baldwin Sugar Museum	24,517	28,629	30,676
Halekii-Pihana Heiaus State Monument <u>1/</u> .	38,000	35,000	11,000
Hale Wai Wai O Hana	8,266	8,035	9,664
Kula Botanical Gardens	19,750	20,021	20,305
Lahaina Restoration Foundation	174,827	159,320	187,637
Baldwin Missionary Home Museum	46,302	50,969	47,667
Brig Carthaginian <u>13/</u>	52,185	21,139	48,400
Hale Pa'ahao (Old Lahaina Prison) <u>14/</u> .	17,650	25,340	30,770
Hale Pa'i Printing House	6,200	5,400	4,800
Kalaupapa Lighthouse Lens Exhibit <u>15/</u> .	19,910	22,082	12,600
Wo Hing Temple Museum	32,580	34,390	43,400
Maui Historical Society Museum	17,682	18,495	14,207
Maui Tropical Plantation	455,000	397,458	381,843
Maui Zoological & Botanical Gardens	67,000	70,200	36,000
Whalers Village Museum	183,165	190,312	216,710
Kauai:			
Coco Palms Zoo <u>16/</u>	6,142	(NA)	(NA)
Grove Farm Homestead <u>17/</u>	4,408	3,627	4,290
Hanalei Museum <u>18/</u>	6,500	(NA)	-
Ho'opulapula Haraguchi Rice Mill <u>19/</u>	350	625	1,265
Kauai Museum <u>20/</u>	29,268	29,756	28,656
Kilauea National Wildlife Refuge	247,698	204,731	242,215
Koikee Natural History Museum	95,213	101,060	96,684

Continued on next page.

Table 212.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:
1988 TO 1990 -- Con.

Island and cultural attraction	1988	1989	1990
Kauai - con.:			
National Tropical Botanical Garden	12,000	16,000	15,000
Russian Fort Elizabeth State Historical Park <u>21/</u>	331,000	308,000	315,000
Waioli Mission House <u>17/</u>	2,712	1,956	2,356
Molokai:			
Kalaupapa Settlement	7,900	8,439	8,264
Molokai Ranch Wildlife Park	5,919	5,920	4,854
R. W. Meyer Sugar Mill <u>22/</u>	4,890	3,926	2,345

- NA Not available.
- 1/ Years ended June 30.
- 2/ Opened October 1988.
- 3/ Opened September 30, 1989.
- 4/ Closed for renovation during first 11 months of 1988.
- 5/ Includes Academy Theatre (56,151 in 1988, 109,119 in 1989, and 63,430 in 1990).
- 6/ Closed June 1990-January 1991.
- 7/ Opened April 11, 1988.
- 8/ Closed November 1, 1990-October 1991.
- 9/ Closed November 20, 1990-early 1991 for repairs.
- 10/ Opened December 1, 1988.
- 11/ Revised figure for 1987 was 50,750.
- 12/ Destroyed July 1989.
- 13/ Closed September 1, 1988 to June 30, 1989 for repairs.
- 14/ Opened in April 1988.
- 15/ Opened April 1987. Closed June 30, 1990.
- 16/ Closed February 8, 1990.
- 17/ Closed 2 months in 1989 for repairs.
- 18/ Closed July 1989.
- 19/ Open primarily for school children and senior groups.
- 20/ Closed one week in September 1990.
- 21/ Years ended June 30. Attendance estimates reflect heavy use of restrooms by tour bus passengers.
- 22/ Opened to general public December 5, 1988.
- Source: Hawaii State Department of Business, Economic Development & Tourism, annual mail and telephone survey of attractions.

Table 213.-- HONOLULU SYMPHONY ORCHESTRA: 1980-1981 TO 1990-1991

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1980-1981	80	107	155,622	2,211,082
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

1/ Season shortened by musicians' strike, Aug. 8-Nov. 26, 1986.
 Source: Honolulu Symphony Society, records.

Table 214.-- PERFORMING ARTS STATISTICAL SUMMARY, FOR OAHU:
 1979-1980 TO 1989-1990 SEASONS

Season	Number of groups reporting	Productions	Performances	Attendance
1979-1980	12	183	1,178	723,581
1980-1981	13	254	1,128	830,585
1981-1982	12	500	1,300	804,647
1982-1983	13	502	1,376	936,821
1983-1984	13	695	1,734	1,060,367
1984-1985	12	773	1,809	1,086,930
1985-1986	12	353	1,245	845,328
1986-1987	12	439	1,354	875,063
1987-1988	12	385	1,610	1,248,828
1988-1989	12	382	1,545	1,154,107
1989-1990	12	377	1,419	967,105

Source: DBED mail and telephone surveys.

Table 215.-- PERFORMING ARTS, FOR OAHU: 1989-1990 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	377	1,419	967,105
Brigham Young University - Hawaii Campus	6	14	4,700
Chaminade University of Honolulu	2	8	840
Hawaii Loa College 1/	2	8	560
Diamond Head Theatre (formerly Honolulu Community Theatre)	8	121	42,957
Honolulu Department of Auditoriums, total ...	105	188	447,304
Ballets	1	6	13,866
Concerts	75	107	232,200
Operas	3	9	17,697
Rock shows	11	12	63,270
Other dramatic and musical productions	15	54	120,271
Honolulu Theatre for Youth	8	286	121,771
Leeward Community College	53	193	79,678
Manoa Valley Theatre	7	129	21,266
The Starving Artists' Theatre Company	11	165	39,424
Adults	6	90	5,824
Children	5	75	33,600
U.S. Army Support Command, total	153	177	163,577
Army Community Theatre	4	28	11,992
Soldier bands and jam sessions	72	72	31,044
DOD/USO touring shows, showmobile activities, and special events	77	77	120,541
University of Hawaii at Manoa	19	110	42,012
Windward Community College	3	20	3,016

Source: DBED mail and telephone survey.

Table 216.-- 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), pp. 27-28 and 38.

Table 217.-- NATIONAL PARKS: 1980 TO 1990

Year and area	Acreage, Dec. 31 ^{1/}			Visits ^{2/}
	Total	Federal	Non-federal	
1980	247,488	235,243	12,245	3,479,797
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
AREAS: 1990				
Hawaii Volcanoes National Park ...	207,643	207,643	-	2,368,219
Haleakala National Park	27,350	27,350	-	1,289,903
Pu'u honua o Honaunau National Historical Park	181	181	-	392,366
Kaloko-Honokohau National Historical Park	1,161	616	545	23,586
Pu'ukohola Heiau National Historic Site	100	60	40	63,398
U.S.S. Arizona Memorial ^{3/}	12	12	-	1,469,676
Kalaupapa National Historical Park	10,902	23	10,879	(NA)

NA Not available.

^{1/} Data exclude the Olaa Forest Tract. This 9,654-acre tract is entirely in Federal ownership, is managed by the National Park Service, and has been designated as part of the wilderness system by the Congress, but it is not within the legally authorized boundary of 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 218.-- 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 219.-- 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
Kokee 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
Kokee 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 220.-- 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 221.-- COUNTY PARKS, BY ISLANDS: 1985 TO 1990

[As of December 31]

Subject	1985	1986	1987	1988	1989	1990
Number, total	551	560	561	569	575	582
Hawaii	134	141	141	142	142	142
Maui	80	82	83	85	86	90
Lanai	3	3	3	4	4	4
Molokai	11	11	12	13	13	13
Oahu	266	266	265	266	271	274
Kauai	57	57	57	59	59	59
Acreage, total	8,222	8,227	8,324	8,336	8,506	8,593
Hawaii	1,434	1,424	1,428	1,430	1,430	1,430
Maui	899	905	917	926	928	942
Lanai	7	7	7	15	15	15
Molokai	54	54	58	73	73	73
Oahu	5,242	5,251	5,328	5,356	5,524	5,599
Kauai	586	586	586	536	536	534

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

Table 222.-- AQUATIC COLLECTIONS: DECEMBER 31, 1990

[For annual attendance, 1988-1990, see table 220]

Phylum or class	Sea Life Park		Waikiki Aquarium	
	Species	Individuals	Species	Individuals
Total	265	16,123	289	1,200
Fishes	145	4,000	170	530
Reptiles	3	42	3	4
Mammals	1/ 6	81	1	2
Invertebrates	111	12,000	115	664

1/ Plus 1 hybrid.

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

Table 223.-- ZOOS: 1988 TO 1990

Subject and zoo	1988	1989	1990
Species: 1/			
Honolulu Zoo	222	197	221
Maui Zoological & Botanical Gardens .	33	35	33
Molokai Ranch Wildlife Park	10	10	10
Panaewa Rainforest Zoo (Hilo)	53	57	57
Individuals: 1/			
Honolulu Zoo	877	711	832
Maui Zoological & Botanical Gardens .	157	153	164
Molokai Ranch Wildlife Park	806	1,019	969
Panaewa Rainforest Zoo (Hilo)	175	195	185
Attendance:			
Honolulu Zoo	875,825	752,207	652,276
Maui Zoological & Botanical Gardens .	67,000	70,200	36,000
Molokai Ranch Wildlife Park	5,919	5,920	4,854
Panaewa Rainforest Zoo (Hilo)	69,814	77,133	76,118

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 224.-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR
THE CITY AND COUNTY OF HONOLULU: 1991

[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	18,938,860	65	22	13	625	10	202
Ala Moana	1,380,347	60	31	9	34	2	12
Waikiki	11,339,162	84	11	6	79	1	51
Hanauma	1,952,795	74	26	-	74	2	3
Sandy	677,896	61	13	26	150	2	61
Makapuu	255,244	47	21	32	61	2	12
Bellows	114,117	65	17	18	3	-	-
Kailua	472,876	71	20	9	14	-	1
Kualoa	30,709	69	30	1	-	-	-
Sunset	280,196	70	16	15	13	-	5
Ehukai	181,639	63	11	26	16	1	15
Ke Waena	189,944	63	12	25	7	-	10
Waimea	450,638	80	19	1	59	-	11
Alii	259,409	71	18	12	23	-	10
Nanakuli	400,380	64	35	1	32	-	6
Maili	167,139	57	29	14	18	-	1
Pokai Bay	436,870	59	40	1	8	-	-
Makaha	349,499	55	24	21	34	-	4

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 225.-- 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 131.

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 226.-- COUNTY TENNIS FACILITIES: 1989 AND 1990

[As of December 31]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Locations:							
1989	89	20	11	1	1	46	10
1990	89	20	11	1	1	46	10
Courts:							
1989	282	44	33	2	4	175	24
1990	279	44	32	2	2	175	24

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

Table 227.-- GOLF COURSES, BY NUMBER OF HOLES, OWNERSHIP, AND ISLANDS:
FEBRUARY 1991

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	12	2	9	1	207
Municipal	1	-	1	-	18
Private	11	2	8	1	189
Maui	11	1	10	-	189
Municipal	1	-	1	-	18
Private	10	1	9	-	171
Lanai	1	1	-	-	9
Private	1	1	-	-	9
Molokai	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	9	1	7	1	162
Municipal	1	-	1	-	18
Private	8	1	6	1	144

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

Table 228.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU:
1985 TO 1990

Calendar year	Public golf courses			Camping permits issued <u>1/</u>
	Courses	Holes	Rounds played	
1985	4	63	484,594	6,937
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

1/ By the City and County of Honolulu.

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

Table 229.-- HAWAIIAN OPEN SCORES AND PURSES: 1986 TO 1991

[The Hawaiian Open is held at the Waialae Country Club golf course. Distance is 6,975 yards; par is 72. For annual data back to 1965, see Data Book 1986, table 247]

Year	Holes	Winning score		Purse (dollars)	
		Total	Below par	Total	Winner
1986	72	272	16	500,000	90,000
1987	72	*270	18	600,000	108,000
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

* Sudden-death playoff.

1/ Reduced to 54 holes because of rain delays.

Source: Sunday Star-Bulletin and Advertiser, February 1, 1987, p. D-13; Honolulu Advertiser, February 9, 1987, p. F-1, February 15, 1988, p. C-1, and February 13, 1989, pp. C-1 and C-4, and February 12, 1990, p. C-4; Hawaiian Open, records.

Table 230.-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES,
BY ISLANDS: APRIL 1991

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 231.-- FISHING AND HUNTING LICENSES ISSUED: 1986 TO 1991

[Years ended June 30]

Type of license	1986	1987	1988	1989	1990	1991
Freshwater game fishing ..	8,200	8,669	10,512	9,565	10,010	9,250
Hunting	12,776	12,748	13,469	12,714	13,805	10,529

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

Table 232.-- SPORTS FISHING AND HUNTING BY PERSONS 16 YEARS AND OVER, BY RESIDENCE STATUS: 1985

Activity and characteristic	In Hawaii		Hawaii residents, outside Hawaii
	Hawaii residents	Nonresidents	
Fishing:			
Persons fishing (1,000)	140	55	14
Days of fishing (1,000)	3,197	291	116
Per person	23	5	8
Hunting:			
Persons hunting (1,000)	22	2	2
Days of hunting (1,000)	542	5	36
Per person	25	(B)	(B)

B Sample size too small to report data reliably.

Source: U.S. Department of the Interior, Fish and Wildlife Service, 1985 National Survey of Fishing, Hunting, and Wildlife Associated Recreation (November 1988), pp. 117, 118, 128, and 129.

Table 233.-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1985 TO 1991

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1985	9,310	8,287	2:12:08	2:35:51
1986	10,354	8,563	2:11:43	2:31:01
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

Source: Honolulu Marathon Association, records.

Table 234.-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP REGISTRANTS,
FINISHERS, AND WINNING TIMES: 1986 TO 1991

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1986	1,039	951	8:28:37	9:49:14
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

Source: Ironman Triathlon World Championship, records.

Table 235.-- 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	1/ 9:01:53:48	7:22:55:15
1985	65	13:06:31:19	9:14:07:40
1987	55	8:12:00:40	8:00:56:41
1989	45	8:12:50:35	8:02:54:08
1991	42	10:08:59:35	9:22:34:13

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 236.-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:
1985-1986 TO 1990-1991 SEASONS

Bowl	1985- 1986	1986- 1987	1987- 1988	1988- 1989	1989- 1990	1990- 1991
Aloha Bowl	30,574	20,666	20,093	18,967	39,267	14,185
Hula Bowl	20,943	15,774	26,737	28,896	20,274	17,789
Pro Bowl	47,906	46,799	46,692	46,464	45,135	45,097

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

Table 237.-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF HAWAII
AT MANOA: 1989-1990 AND 1990-1991

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

Sports	Games played <u>1/</u>				Home games	
	Total	Won	Lost	Tied	Home dates	Attendance
1989-1990:						
Baseball	62	37	24	1	50	118,305
Basketball (men's) ...	35	25	10	-	16	93,565
Basketball (women's) .	30	26	4	-	17	9,549
Football	13	9	3	1	10	445,348
Volleyball (men's) ...	27	18	9	-	12	13,488
Volleyball (women's) .	32	29	3	-	18	37,760
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

1/ Volleyball data refer to matches.

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

Table 238.-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:
1990-1991 SEASON

Sport	Players	Games <u>1/</u>	Attendance	Expenditure <u>2/</u> (dollars)
Baseball	Boys	406	67,482	289,788
Basketball ..	Boys and girls	1,036	135,218	524,698
Football	Boys	278	416,963	821,614

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 239.-- PROFESSIONAL BOXING: 1985 TO 1990

Year	Number of promoters	Number of shows	Paid attendance	Gross receipts (dollars)
1985 ...	1	9	18,278	201,852
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

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

Table 240.-- DOG LICENSES ISSUED, BY ISLANDS: 1985 TO 1990

[Dogs are licensed on a biennial basis]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1985	33,598	2,809	2,171	35	111	27,654	818
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

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 453,000 persons were registered to vote in the general election of November 6, 1990, and more than 354,000 actually voted. The number voting amounted to 40 percent of the 854,000 Hawaii residents of voting age at that time. The latter figure included around 135,000 aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely 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 9 Councilmanic districts. It also contains 16 soil and water conservation districts, 30 active Neighborhood Board districts, and 307 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 1989 State Legislature, with 76 members, included 58 males, 24 persons under 40 years of age, 28 persons of Japanese ancestry, 20 persons born in places other than Hawaii, and 66 Democrats.

In its 1991 regular session, the State Legislature introduced 4,379 bills; 366 were passed and 335 became law. The Legislature also considered 1,255 resolutions, of which 455 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: 1991, Section 8.

Table 241.-- 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	307	-	-	-	-

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 242.-- 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 243.-- 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 244.-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1980 TO 1990

Subject	1980	1982	1984	1986	1988	1990
Persons of voting age <u>1/</u> (1,000)	697	728	757	784	815	854
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	39.9

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, and "Projections of the Voting-Age Population, for States: November 1990," Current Population Reports, Series P-25, No. 1059, April 1990; Office of the Lieutenant Governor, Results of Votes Cast ... November 6, 1990.

Table 245.-- VOTING RESIDENCE, BY AGE AND MILITARY STATUS:
APRIL 1, 1990

Age	Total population	Armed forces and dependents ^{1/}			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 246.-- POPULATION OF VOTING AGE, ELIGIBLE VOTERS, REGISTERED VOTERS, AND VOTES CAST: 1990

Subject	Number
Population 18 years and over, April 1 (1,000)	828
Less: Nonresident armed forces and dependents (1,000)	82
Aliens and other ineligible adult civilians (1,000)	53
Eligible to vote (1,000)	693
Registered voters, November 6 (1,000)	453
Percent of persons eligible	65.4
Votes cast, November 6 (1,000)	354
Percent of persons eligible	51.1

Source: Preceding table; Hawaii State Data Center estimates of ineligible adult civilians; Office of the Lieutenant Governor.

Table 247.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING
IN ELECTIONS, 1988 AND 1990, AND BY COUNTIES, 1990

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

Election	The State		Counties: 1990			
	1988	1990	Hawaii	Maui	Hono- lulu	Kauai
Registered:						
Primary	40.8	39.2	44.3	40.8	40.2	51.8
General	43.1	40.8	46.3	43.3	41.7	52.9
Voting:						
Primary	26.8	24.9	32.5	27.2	24.1	40.7
General	35.8	31.9	37.1	34.7	32.3	42.2

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election; Hawaii State Data Center, unpublished estimates of civilian population by counties.

Table 248.-- 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 249.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS: 1970 TO 1990

Type and date of election	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1970: Oct. 3	282,470	(NA)	(NA)	202,401	71.7
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 ^{1/}	419,441	199,643	220,225	275,673	65.7
1990: Sept. 22 ...	436,323	207,897	228,426	276,407	63.3
General elections:					
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9
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

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 250.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1990

[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 ..	436,323	207,897	228,426	276,407	63.3
Hawaii	53,604	25,790	27,814	39,347	73.4
Maui	41,292	19,892	21,400	27,524	66.7
Honolulu	314,832	149,195	165,637	188,630	59.9
Kauai	26,595	13,020	13,575	20,901	78.6
Overseas	-	-	-	5	...
GENERAL ELECTION					
State total ..	453,389	216,433	236,956	354,144	78.1
Hawaii	55,940	26,980	28,960	44,799	80.0
Maui	43,835	21,183	22,652	35,106	80.0
Honolulu	326,452	154,955	171,497	252,605	77.3
Kauai	27,162	13,315	13,847	21,626	79.6
Overseas	-	-	-	8	...

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

Table 251.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS:
1980 TO 1990

Primary election	Total votes cast	Democratic	Republican	Other parties	Non-partisan	Invalid or blank
1980	264,041	250,226	10,628	1,089	1,881	217
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

Source: Office of the Lieutenant Governor, Results of Votes Cast, Primary Election for years shown, and records.

Table 252.-- PARTY OF VOTES CAST IN PRIMARY ELECTION, BY COUNTIES:
SEPTEMBER 22, 1990

Party	State total	Hawaii County	Maui County	City and County of Honolulu	Kauai County
Total votes cast	275,333	39,347	27,524	187,561	20,901
Democratic	221,829	33,945	22,201	146,262	19,421
Libertarian	974	130	108	702	34
Republican	48,570	4,524	4,665	38,286	1,095
Non-partisan	3,858	619	420	2,665	154
Invalid	1,203	129	130	747	197

Source: Office of the Lieutenant Governor, Results of Votes Cast, Primary and Special Election, September 22, 1990.

Table 253.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION,
SEPTEMBER 22, 1990

Office, party, and candidate	Votes	Office, party, and candidate	Votes
U.S. SENATE		U.S. HOUSE, DIST. 2 (SPEC.) <u>1/</u>	
Democrat:		Mink, P. (D)	51,841
Akaka, D.	180,235	Hannemann, M. (D)	50,164
Snider, P.	18,427	Menor, R. (D)	23,629
Republican:		Poepoe, A. (R)	8,872
Saiki, P.	39,847	Monsef, S. (R)	2,264
Sutton, R.	2,443	Black, A.D. (D)	1,242
Zimmerman, B.	2,096	Mallan, L. (L)	791
Hustace, M.	2,049		
Libertarian:		GOVERNOR	
Schoolland, K.	583	Democrat:	
U.S. HOUSE, DIST. 1		Waihee, J.	179,383
Democrat:		Hopkins, B.	9,735
Abercrombie, N.	43,480	Garner, R.	9,112
Mizuguchi, N.	30,942	Marshall, E.	4,517
Matsunaga, M.	21,128	Republican:	
Republican:		Hemmings, F.	38,827
Liu, M.	11,154	Mednick, L.	1,343
Hutchinson, F.	9,150	Hirayasu, C.	1,049
Sabey, J.	885	Izuka, I.	844
Libertarian:		U'o, H.	593
Taylor, R.	273	Measel, R.	448
U.S. HOUSE, DIST. 2 (REG.)		Libertarian:	
Democrat:		Smith, T.D.	534
Mink, P.	47,998	Non-partisan:	
Hannemann, M.	44,536	Ross, P.H.	1,772
Menor, R.	20,845		
Crozier, M.	6,522	LIEUTENANT GOVERNOR	
Republican:		Democrat:	
Poepoe, A.	13,363	Cayetano, B.	177,705
Monsef, S.	4,354	Republican:	
Pillos, Jose	892	Beamer, B.	35,172
Libertarian:		Libertarian:	
Mallan, L.	313	Fritts, A.	555
		Non-partisan:	
		Kimmel, J.	1,754

Continued on next page.

Table 253.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 22, 1990 -- Con.

Office, party, and candidate	Votes	Office, party, and candidate	Votes
HAWAII CO. MAYOR (SPECIAL) <u>2</u> /		MAUI CO. MAYOR -- Con.	
Democrat:		Republican:	
Inouye, L.	13,625	Crockett Lingle, L.	3,758
Yamashiro, S.	13,549	Andrade, R.	482
Carpenter, D.	3,874	Libertarian:	
Nobriga, A.	957	Azby	57
4 others	841	Non-Partisan:	
Republican:		Akuna, R.	151
Osorio, E.	1,390	Galloway, M.	90
Basque, D.	742		
Hodkinson, J.	621	KAUAI CO. MAYOR	
Hapai, A.	537	Democrat:	
5 others	577	Yukimura, JoAnn	9,817
Libertarian:		Malapit, E.	7,963
Anderson, A.	70	Shaw, R.	944
Non-partisan:		Nelson, T.	41
6 candidates	424	Rich, J.	39
		Republican:	
MAUI CO. MAYOR		Barretto, J.	580
Democrat:		Wolff, M.	262
Cravalho, E.	8,215	Sousa, J.	80
Lindsey, L.	5,624	Non-partisan:	
Miura, M.	4,030	Thomas, R.	48
Santos, V.	3,303		

1/ To fill unexpired term of former Rep. Akaka, appointed to U.S. Senate.

2/ To fill unexpired term of late Mayor Akana.

Source: Office of the Lieutenant Governor, Results of Votes Cast, Primary and Special Election, September 22, 1990.

Table 254.-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES CAST,
BY ISLANDS: NOVEMBER 6, 1990

Island	Number of precincts	Registered voters	Votes cast
State total	292	453,389	354,136
Hawaii	51	55,940	44,799
Maui	31	39,806	32,359
Lanai	1	1,044	832
Molokai: Molokai District	4	2,888	1,841
Kalawao District	1	97	74
Oahu <u>1/</u>	186	326,452	44,799
Kauai	17	27,037	21,564
Niihau	1	125	62

1/ Including the Northwestern Hawaiian Islands, part of the 5th Precinct of the 20th Representative District, in Waimanalo, Oahu.
Source: Office of the Lieutenant Governor, printouts.

Table 255.-- AGE AND SEX OF REGISTERED VOTERS:
NOVEMBER 6, 1990

Age	Both sexes	Male	Female
All ages	453,389	216,433	236,956
18 or 19 years	10,808	5,084	5,724
20 to 29 years	66,965	30,437	36,528
30 to 39 years	100,570	46,555	54,015
40 to 49 years	93,692	45,143	48,549
50 to 64 years	96,905	46,156	50,749
65 years and over	84,433	43,057	41,376
Not reported	16	1	15

Source: Office of the Lieutenant Governor, records.

Table 256.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1980 TO 1990

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1980	303,287	Carter	135,879	Reagan	130,112	37,296
1984	335,846	Mondale	147,154	Reagan	185,050	3,642
1988	354,461	Dukakis	192,364	Bush	158,625	3,472
U.S. SENATOR						
1980	288,006	Inouye, D. ..	224,485	Brown	53,068	10,453
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
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1980	123,181	Heftel	98,256	Noble	19,819	5,106
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
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1980	157,380	Akaka	141,477	None	-	15,903
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
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 256.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1980 TO 1990 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1980	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013
1984	253,853	Anderson, E.	117,841	Fasi	132,875	3,137
1988	263,882	Bornhorst ..	117,479	Fasi	146,403	-

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.

Table 257.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 6, 1990

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total	65,773	29,239	36,534	49,231	74.8
Hawaii	9,922	4,457	5,465	7,566	76.2
Maui	7,160	3,234	3,926	5,577	77.8
Honolulu	44,579	19,589	24,990	33,020	74.0
Kauai	4,112	1,959	2,153	3,068	74.6

Source: Office of the Lieutenant Governor, Results of Votes Cast, General Election ... 1990.

Table 258.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, 1990

Office, candidate and party	State total <u>1/</u>	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
U. S. SENATOR					
Akaka (D)	188,901	25,508	20,736	128,781	13,874
Saiki (R)	155,978	17,574	13,048	118,332	7,020
Schoolland (L)	4,787	901	752	2,868	265
REPRESENTATIVE TO CON- GRESS, DISTRICT 1					
Abercrombie (D)	97,622	-	-	97,618	-
Liu (R)	62,982	-	-	62,980	-
Taylor (L)	2,107	-	-	2,107	-
REPRESENTATIVE TO CON- GRESS, DISTRICT 2					
Mink (D)	188,155	28,620	23,227	51,172	15,135
Poepoe (R)	54,625	12,786	9,263	28,069	4,507
Mallan (L)	5,508	1,387	1,108	2,525	688
GOVERNOR AND LT. GOVERNOR					
Waihee/Cayetano (D) ...	203,491	26,832	21,339	140,232	15,088
Hemmings/Beamer (R) ...	131,310	15,024	11,191	100,111	4,984
Smith/Fritts (L)	2,885	514	279	1,990	102
Ross/Kimmel (N)	2,446	458	528	1,168	292
MAYOR OF HAWAII					
Inouye (D)	23,612	23,612	-	-	-
Osorio (R)	16,824	16,824	-	-	-
Anderson (L)	918	918	-	-	-
Crowley (N)	779	779	-	-	-
MAYOR OF MAUI					
Crockett (R)	16,534	-	16,534	-	-
Cravalho (D)	14,243	-	14,243	-	-
Azby (L)	2,606	-	2,606	-	-
Akuna (N)	454	-	454	-	-

Continued on next page.

Table 258.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, 1990 -- Con.

Office, candidate and party	State total <u>1/</u>	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
MAYOR OF KAUAI					
Yukimura (D)	12,681	-	-	-	12,681
Barretto (R)	6,969	-	-	-	6,969

1/ Includes eight overseas voters, not included in county data.

Source: Office of the Lieutenant Governor, Results of Votes Cast, General Election ... 1990.

Table 259.-- 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 260.-- 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 261.-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1989 AND 1991

[As of January]

County	Total seats	Democrats		Republicans		Other parties or vacant	
		1989	1991	1989	1991	1989	1991
All counties	34	31	32	3	2	-	-
Hawaii	9	9	9	-	-	-	-
Maui	9	8	8	1	1	-	-
Honolulu	9	7	8	2	1	-	-
Kauai	7	7	7	-	-	-	-

Source: Legislative Reference Bureau, State of Hawaii, Directory of State, County and Federal Officials (February 15, 1989 and February 1, 1991).

Table 262.-- LENGTH OF LEGISLATIVE SESSIONS: 1986 TO 1991

Year	Regular sessions		Special sessions	
	Date convened	Length <u>1/</u>	Date convened	Length <u>1/</u>
1986	Jan. 15	99	July 24	7
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

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 263.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1981 TO 1991

Regular session	House of Representatives				Senate			
	Total	Demo-crats	Repub-licans	Other	Total	Demo-crats	Repub-licans	Other
1981 ..	51	39	12	-	25	17	8	-
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	-

Source: Session Laws of Hawaii, 1981-1989; President of the Senate; Speaker of the House of Representatives.

Table 264.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
1989 TO 1991

Action	1989: Regular	1990: Regular	1991	
			Regular	Special
House bills:				
Carried over from previous year .	-	1,717	-	-
Introduced	1,923	1,459	2,232	-
Enacted <u>1/</u> , <u>2/</u>	206	202	192	-
Vetoed	17	13	17	-
Became law <u>3/</u>	189	187	175	-
Senate bills:				
Carried over from previous year .	-	1,821	-	-
Introduced	2,047	1,425	2,147	1
Enacted <u>1/</u> , <u>4/</u>	226	182	174	1
Vetoed <u>2/</u>	18	18	14	-
Became Law <u>4/</u> <u>5/</u>	208	162	160	1
House resolutions:				
Offered	423	405	433	2
Adopted	235	233	218	2
House concurrent resolutions:				
Offered	397	347	361	-
Adopted	96	100	89	-
Senate resolutions:				
Offered	255	262	223	1
Adopted	139	137	98	1
Senate concurrent resolutions:				
Offered	280	273	238	-
Adopted	77	79	50	-

1/ Includes bills for constitution amendments: H.B. 2051, H.B. 2053, S.B. 32, and S.B. 103 in 1990. 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.

4/ The 1989 figure includes S.B. 636, which contained one vetoed item.

5/ The 1990 total includes S.B. 2794, which contained a vetoed item.

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 several 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 1990 total included \$4.3 billion in U.S. taxes, \$2.4 billion in State taxes, and \$508 million in county taxes, licenses and fees. Individual income taxes accounted for 86 percent of Federal collections and 28 percent of State collections in Hawaii in 1990. State revenue receipts totaled \$3.9 billion, chiefly from the general excise and use tax (\$1.2 billion), individual income tax (\$695 million) and Federal grants-in-aid (\$573 million). The largest expenditure item in the State accounts for 1990 was education, with \$1.1 billion (out of \$4.0 billion) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State doubled between 1988 and 1991, reaching \$133 billion by the end of the period; of this total, \$35 billion was exempt from taxation. Public bonded debt outstanding at the end of 1989 stood at \$3.7 billion.

Total government employment in 1990 averaged 105,000, about 18 percent over the 1980 average. The 1990 total included 34,000 Federal workers, 57,000 persons employed by the State, and 14,000 persons on county payrolls. State civil service employees as of mid-1990 numbered 19,000.

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: 1991, Sections 9 and 10.

Table 265.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1970 TO 1990

[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	7,213,001	4,264,127	2,948,874	2,441,276	507,598

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 266.-- TAX COLLECTIONS RELATIVE TO POPULATION AND PERSONAL INCOME, BY LEVEL OF GOVERNMENT: 1970 TO 1990

[Data include taxes collected in Hawaii from visitors and other nonresidents. Revised from Data Book 1990, table 276]

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	28.0	16.0	12.0
1971 ..	1,379	759	621	27.2	15.0	12.3
1972 ..	1,404	764	640	26.0	14.1	11.9
1973 ..	1,558	864	695	26.7	14.8	11.9
1974 ..	1,742	968	775	26.5	14.7	11.8
1975 ..	2,091	1,227	864	30.1	17.7	12.4
1976 ..	2,015	1,046	969	27.3	14.2	13.1
1977 ..	2,220	1,205	1,015	28.3	15.3	12.9
1978 ..	2,392	1,297	1,095	27.7	15.0	12.7
1979 ..	2,749	1,527	1,222	29.0	16.1	12.9
1980 ..	3,066	1,727	1,339	28.9	16.3	12.6
1981 ..	3,318	1,867	1,451	29.4	16.5	12.8
1982 ..	3,335	1,888	1,446	28.2	16.0	12.3
1983 ..	3,408	1,874	1,534	26.8	14.7	12.1
1984 ..	3,556	1,927	1,629	26.8	14.5	12.3
1985 ..	3,773	2,036	1,737	26.9	14.5	12.4
1986 ..	4,085	2,222	1,863	27.5	15.0	12.6
1987 ..	4,697	2,630	2,049	29.8	16.7	13.0
1988 ..	5,339	3,066	2,273	31.4	18.0	13.4
1989 ..	5,906	3,409	2,497	31.7	18.3	13.4
1990 ..	6,488	3,835	2,652	31.8	18.8	13.0

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 2, and income estimates in table 380.

Table 267.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES:
1980, 1989, AND 1990

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

Source	1980	1989	1990
Total, all levels	2,966,128	6,464,598	7,213,001
Federal collections	1,670,459	3,731,845	4,264,127
Indiv. income and employment 1/ ..	1,412,330	3,220,556	3,648,783
Corp. income and excess profits ..	213,216	412,151	461,579
Excise	15,324	51,986	48,601
Estate	17,496	22,184	80,019
Gift	1,014	4,837	3,887
Unemployment insurance	11,079	20,130	21,258
State collections	1,255,622	2,283,891	2,441,276
General excise and use	498,670	1,025,434	1,180,051
Transient accommodations 2/	-	75,983	82,488
Fuel	51,053	91,131	107,153
Liquor	12,948	38,609	40,336
Tobacco	12,759	24,413	23,496
Insurance	22,240	33,414	36,892
Public service companies	32,458	64,846	69,650
Corporate income 3/	42,424	72,339	74,858
Indiv. income, net income 4/	311,404	767,589	695,098
Inheritance and estate	4,328	6,675	16,329
Unemployment compensation	67,536	53,120	78,942
Other sources 5/	199,802	30,338	35,983
County collections	40,047	448,862	507,598
Real property 5/	-	372,633	425,551
Utility franchise	9,116	15,830	16,744
Motor vehicle weight 6/	22,727	42,523	46,971
Other sources	8,204	17,876	18,332

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/ Before July 1, 1981, real property taxes (included in State "other sources" for 1980) were collected by the State.

6/ Includes State motor vehicle weight tax.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1991, tables 13 and 29.

Table 268.-- 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 269.-- ESTIMATED STATE AND LOCAL TAXES PAID BY MARRIED-COUPLE FAMILIES OF FOUR AS PERCENT OF INCOME, BY INCOME GROUP, FOR THE UNITED STATES AND HAWAII: 1985 AND 1991

Family income group	Average income, 1991 ^{1/}		Taxes as percent of income ^{2/}			
	United States	Hawaii	United States		Hawaii	
			1985	1991	1985	1991
Lowest 20 percent ...	12,700	14,100	12.6	13.8	11.3	8.7
Second 20 percent ...	26,800	28,200	10.0	10.9	11.3	10.2
Middle 20 percent ...	39,100	42,200	9.1	10.0	10.8	10.3
Fourth 20 percent ...	54,000	59,100	8.6	9.5	10.2	10.1
Next 15 percent	82,200	88,700	8.4	9.2	9.7	10.2
Next 4 percent	184,400	184,700	8.2	8.7	9.4	10.3
Top 1 percent	875,200	707,900	7.1	7.6	8.0	9.8

^{1/} Dollars. Extrapolated from 1988 IRS data.

^{2/} Excludes "exported" taxes.

Source: Citizens for Tax Justice, A Far Cry From Fair (Washington, D.C., April 1991), pp. 18 and 30.

Table 270.-- PER CAPITA REVENUE, EXPENDITURE, AND DEBT OF STATE AND LOCAL GOVERNMENT: 1988 AND 1989

Subject	Amount (dollars)		Percent of U.S.		Rank	
	1988	1989	1988	1989	1988	1989
General revenue	3,461	3,767	117.0	119.0	6	7
Taxes	2,259	2,416	127.4	128.0	5	6
Debt outstanding	3,270	3,469	106.5	107.8	24	22
General expenditure	2,974	3,340	103.7	108.8	14	11
Capital outlay	490	623	134.5	160.2	8	4

Source: U.S. Bureau of the Census, Government Finances in 1987-1988, GF88-5 (January 1990), pp. 105-109, and Government Finances in 1988-1989, GF89-5 (May 1991), pp. 105-109.

Table 271.-- STATE REVENUE RECEIPTS: 1989 AND 1990

[In thousands of dollars. Years ended June 30]

Source of revenues	1989: all funds	1990		
		All funds	General funds	Special funds
Total <u>1/</u>	3,604,416	3,947,852	2,414,821	1,533,031
Tax revenues	2,263,024	2,401,587	2,142,641	258,946
General excise	1,025,434	1,175,051	1,069,470	105,581
Specific excises <u>2/</u>	234,405	245,820	172,756	73,064
Individual income	767,232	694,640	694,640	-
Corporate income	72,339	74,858	74,858	-
Transient accommodations	75,973	82,438	82,438	-
Unemployment compensation	52,649	78,362	-	78,362
Other taxes, licenses, permits <u>3/</u>	34,992	50,418	48,479	1,939
Fines, forfeits, and escheats	15,630	18,270	16,242	2,028
Federal grants-in-aid	479,582	572,845	9,533	563,312
Revenues from other agencies	12,810	15,396	3,754	11,642
Rents, royalties, land income <u>4/</u> ..	28,365	32,037	5,521	26,516
Earnings: general departments	250,872	267,602	86,107	181,495
Earnings: public service enterp. .	269,157	300,547	-	300,547
Interest earned	156,361	197,802	129,589	68,213
Miscellaneous	128,345	141,766	21,434	120,332

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, 1991, table 12.

Table 272.-- STATE OPERATING EXPENDITURES, BY FUNCTION:
1980, 1989, AND 1990

[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	1980	1989	1990
Total	1,815,855	3,267,997	3,974,505
General government: Control	27,953	79,496	88,143
Staff	62,879	208,306	242,863
Public safety: Police and fire .	1,957	3,036	3,813
Other protection	46,448	116,955	127,877
Highways	32,457	76,911	79,841
Natural resources	20,623	38,327	45,750
Health and sanitation	39,586	120,440	186,317
Hospitals and institutions	86,523	147,452	167,947
Public welfare	253,411	396,944	474,659
Education: Higher	189,124	380,707	424,142
Public schools	305,618	572,334	661,522
Libraries and other .	17,324	33,547	36,849
Recreation	11,034	27,025	43,951
Utilities and other enterprises	45,485	174,257	212,062
Debt service 1/	148,847	248,062	272,820
Retirement and pension	64,447	85,727	71,300
Employees' health and hosp. insurance	13,651	584	1,013
Unemployment compensation	44,781	49,112	47,846
Grants-in-aid to counties	18,223	42,348	73,472
Urban redevelopment and housing	280,509	263,908	321,005
Miscellaneous	14,637	46,921	87,479
Cash capital improvements 2/ ...	90,338	155,598	303,834

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, 1991, table 35.

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 on Tax Foundation 'Government in Hawaii 1991', p. 45

Table 273.-- COUNTY OPERATING REVENUES, BY SOURCE, AND COUNTY OPERATING EXPENDITURES, BY OBJECT, FOR ALL COUNTIES COMBINED: 1980, 1989, AND 1990

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

Subject	1980	1989	1990
OPERATING REVENUES <u>1/</u>			
Total	417,827	752,443	894,868
Real property taxes	186,209	372,223	425,551
Other taxes	39,736	79,233	97,287
Fees, licenses, permits, and fines ...	10,761	21,683	22,981
Departmental earnings and charges	37,830	95,112	127,516
State grants	23,508	58,744	89,220
Federal grants	108,046	79,201	75,244
Other sources	11,738	46,248	57,070
OPERATING EXPENDITURES <u>2/</u>			
Total	408,682	739,585	836,207
General government: Control	7,132	10,648	10,090
Staff	38,547	81,935	98,096
Public safety: Police and fire	82,161	165,610	188,477
Other protection	13,127	33,299	33,410
Highways	21,656	39,309	42,527
Health and sanitation	29,750	71,268	85,445
Public welfare	4,022	10,588	12,352
Public schools	503	573	585
Recreation	27,334	52,643	60,097
Interest	15,269	48,012	60,756
Bond redemption	21,089	23,184	33,345
Pension and retirement	31,485	26,448	22,516
Salary adjustment	9	38	45
Economic and urban development	28,968	23,144	16,745
Mass transit	24,094	48,909	53,723
Miscellaneous	19,478	45,283	60,731
Cash capital improvements	44,058	58,695	57,268

Footnotes and source follow next table.

Table 274.-- COUNTY OPERATING REVENUES, BY SOURCE, AND COUNTY OPERATING EXPENDITURES, BY OBJECT, BY COUNTIES: 1990

[In thousands of dollars. For year ended June 30, 1990]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES <u>1/</u>				
Total	643,814	101,987	96,501	52,566
Real property taxes	302,150	48,255	51,652	23,495
Other taxes	74,426	8,825	9,156	4,880
Fees, licenses, permits, and fines	14,603	3,702	3,218	1,463
Departmental earnings and charges	97,565	17,422	5,904	6,625
State grants	35,686	22,003	21,109	10,422
Federal grants	65,938	384	3,895	5,027
Other sources	53,446	1,398	1,567	654
OPERATING EXPENDITURES <u>2/</u>				
Total	614,553	90,520	88,472	42,662
General government: Control)	5,388	1,472	1,975	1,255
Staff	69,619	10,471	10,674	7,332
Public safety: Police and fire ..	130,963	18,468	29,313	9,733
Other protection)	22,001	3,592	6,787	1,030
Highways	26,066	7,075	6,009	3,377
Health and sanitation	70,099	7,924	4,851	2,570
Public welfare	-	7,721	3,305	1,326
Public schools	-	192	250	142
Recreation	44,600	5,538	7,219	2,740
Interest	48,805	4,628	5,083	2,240
Bond redemption	27,372	1,371	3,022	1,580
Pension and retirement	13,514	1,908	5,969	1,124
Salary adjustment	-	-	-	45
Economic and urban development ...	16,745	-	-	-
Mass transit	53,234	-	490	-
Miscellaneous	45,808	4,683	2,457	7,783
Cash capital improvements	40,340	15,476	1,067	384

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, 1991, tables 24-27 and 36-39.

Meaning? RON PULIZI 671-7447

Table 275.-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1970 TO 1989

Tax year	Number of returns	Number of exemptions ^{1/}	Adjusted gross income (less deficit)		
			Total (\$1,000)	Per return (dollars)	Per exemption ^{1/} (dollars)
1970	302,426	763,992	2,802,445	9,267	3,668
1971	308,814	809,612	3,010,051	9,747	3,718
1972	318,023	763,985	3,250,608	10,221	4,255
1973	345,211	832,636	3,749,212	10,861	4,503
1974	346,824	805,533	3,957,023	11,409	4,912
1975	358,510	841,976	4,269,028	11,908	5,070
1976	362,956	815,937	4,625,609	12,744	5,669
1977	380,937	847,098	5,218,740	13,700	6,161
1978	403,217	925,125	5,943,659	14,741	6,425
1979	412,922	880,845	6,493,228	15,725	7,372
1980	424,177	936,056	7,320,740	17,259	7,821
1981	437,977	957,338	7,870,617	17,970	8,221
1982	445,953	1,027,743	8,236,603	18,470	8,014
1983	450,097	1,037,030	8,652,808	19,224	8,344
1984	461,424	1,055,297	9,322,406	20,204	8,834
1985	470,745	1,071,202	9,965,599	21,170	9,303
1986	485,014	1,096,934	10,959,168	22,596	9,991
1987	506,302	1,112,189	12,670,065	25,025	11,392
1988	520,575	1,087,534	14,215,978	27,308	13,072
1989	542,943	1,120,071	15,851,813	29,196	14,153

^{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, and records.

Table 276.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1987 TO 1989

Tax year 1/ and size of adjusted gross income	Number of returns	Adjusted gross income less deficit (\$1,000)	Total income tax		
			Number of returns	Amount (\$1,000)	Average (dollars)
1987					
All returns	506,302	12,670,065	439,394	1,640,755	3,734
Under \$10,000 2/	155,127	575,076	94,292	31,723	336
\$10,000 under \$15,000 ..	70,617	879,316	66,680	61,961	929
\$15,000 under \$30,000 ..	136,371	2,926,801	134,564	273,647	2,034
\$30,000 under \$50,000 ..	85,766	3,316,271	85,519	378,081	4,421
\$50,000 and over	58,421	4,972,601	58,339	895,343	15,347
Median income	\$17,905	...	...	...	...
1988					
All returns	520,575	14,215,978	447,779	1,925,661	4,300
Under \$10,000 2/	150,713	393,553	85,838	30,839	359
\$10,000 under \$15,000 ..	69,067	860,481	63,540	60,789	957
\$15,000 under \$30,000 ..	142,131	3,052,250	139,999	286,398	2,046
\$30,000 under \$50,000 ..	90,175	3,494,660	89,973	397,921	4,423
\$50,000 and over	68,489	6,415,034	68,429	1,149,714	16,802
Median income	\$19,275	...	...	...	...
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	...	...	...	...

1/ Filed in following year.

2/ Includes returns with adjusted gross deficit.

Source: U.S. Treasury Department, Internal Revenue Service, "Individual Income Tax Returns Data by State, 1986-1988," SOI Bulletin, Fall 1990, pp. 11-57; SOI Bulletin, Winter 1990-1991, pp. 58-60; and SOI Bulletin, Spring 1991, p. 66.

Table 277.-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 1989

Subject	Number of returns	Amount (\$1,000)
All returns and adjusted gross income (AGI) ...	542,943	15,851,813
Salaries and wages	463,687	11,617,775
Dividends	113,021	333,060
Interest	396,550	879,034
Sales of capital assets, net gain less loss ...	60,537	1,064,861
Unemployment compensation in AGI	19,676	31,699
Itemized deductions	163,183	2,333,700
Tax liability	467,371	2,177,174
Earned income credit	36,535	18,301

Source: U.S. Treasury Department, Internal Revenue Service, SOI Bulletin, Winter 1990-1991, pp. 58-60.

Table 278.-- INTERNAL REVENUE SERVICE OPERATIONS: 1988 TO 1990

Subject	1988	1989	1990
Internal revenue collections (\$1,000)	3,310,750	3,731,845	4,264,127
Individual income and employment taxes	2,890,569	3,240,686	3,670,041
Total returns filed	909,109	934,307	964,868
Individual income tax	503,855	519,674	535,785
Returns examined	4,208	2,797	3,099
Individual	3,485	2,323	2,333
Additional tax and penalties recommended after examination (\$1,000)	28,092	22,912	30,616
Individual	16,690	13,713	9,946
Costs incurred (\$1,000)	10,350	10,976	12,160

Source: Internal Revenue Service, Annual Report, 1988, 1989, and 1990.

Table 279.-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1979 TO 1989

Year income was received	Number of resident returns	Adjusted gross income 1/ (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
1979	431,906	5,639,290	3,871,963	282,093
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

1/ Exclusive of losses.

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

Table 280.-- STATE INCOME TAX RATIOS: 1979, 1984, 1988, AND 1989

Ratio	1979	1984	1988	1989
Adjusted gross income per return (dollars)	13,057	18,009	23,773	25,644
Tax liability per return (dollars)	653	917	1,362	1,429
Tax liability as percent of AGI	5.0	5.1	5.7	5.6

Source: Preceding table.

Table 281.-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING
1989, 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 .	501,512	13,091,784,704	9,540,366,875	729,649,108
Taxable resident returns ...	411,203	12,894,201,674	9,540,366,875	729,649,108
Under \$1,000	4,094	3,230,422	985,810	21,650
\$1,000, under \$5,000	40,705	133,872,667	54,156,405	1,385,162
\$5,000, under \$10,000	57,036	424,929,123	241,691,212	10,816,411
\$10,000, under \$20,000 ...	100,416	1,508,387,341	1,090,412,337	67,938,876
\$20,000, under \$30,000 ...	63,098	1,555,380,993	1,175,022,705	82,989,212
\$30,000, under \$40,000 ...	45,778	1,581,525,229	1,192,526,118	87,885,340
\$40,000, under \$50,000 ...	32,367	1,444,510,973	1,049,747,760	79,712,225
\$50,000, under \$75,000 ...	43,444	2,612,208,564	1,903,148,906	151,838,609
\$75,000, under \$100,000 ..	13,328	1,144,470,471	842,049,121	71,313,796
\$100,000 and over	10,937	2,485,685,891	1,990,626,501	175,747,827
Nontaxable resident returns	99,309	197,583,030	...	...
Loss	2,237	(43,153,792)	...	...
Under \$5,000	86,793	89,429,844	...	...
\$5,000, under \$10,000	6,559	43,831,729	...	...
\$10,000 and over	3,720	64,321,457	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, records.

Table 282.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE
INCOME TAX RETURNS, BY TYPE OF RETURN, 1979 TO 1989, AND BY
COUNTIES, 1988 AND 1989

[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>
1979	8,738	20,073	4,757	11,804	22,636	6,875
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
COUNTIES: 1988						
Honolulu ...	15,172	33,391	9,243	19,542	37,825	12,706
Maui	16,176	32,478	10,407	19,968	36,699	12,876
Hawaii	11,006	24,509	6,118	16,292	29,375	10,572
Kauai	13,725	28,085	6,800	17,757	32,188	10,597
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

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

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

Table 283.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:
1989 AND 1990

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

Source of revenue	Tax base		Tax collections	
	1989	1990	1989	1990
All sources	35,778,922	40,460,212	1,096,476	1,250,203
Sources taxed at 4 percent	24,833,681	28,116,081	993,347	1,124,643
Retailing	11,607,779	12,827,883	464,311	513,115
Services	3,699,003	4,276,876	147,960	171,075
Contracting	3,112,846	4,003,650	124,514	160,146
Theater, amusement, radio	184,154	201,003	7,366	8,040
Interest	269,093	309,530	10,764	12,381
Commissions	618,462	750,308	24,738	30,012
Hotel rentals	1,505,071	1,572,994	60,203	62,920
All other rentals	2,603,669	2,828,739	104,147	113,149
Use (4 percent)	477,078	501,926	19,083	20,077
All others (4 percent)	756,526	843,172	30,261	33,727
Sources taxed at other rates ^{1/} ..	10,945,241	12,344,131	54,081	60,937
Insurance solicitors	184,310	223,938	276	336
Sugar processing	38,214	26,987	191	135
Pineapple canning	12,622	7,476	63	37
Producing	326,400	317,337	1,632	1,587
Manufacturing	630,997	728,387	3,155	3,642
Wholesaling	6,595,569	7,494,330	32,978	37,472
Services (intermediary)	189,018	349,111	945	1,746
Use (1/2 percent).....	2,968,111	3,196,565	14,841	15,983
Unallocated net collections	-	-	49,048	64,623

^{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 284.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1981 TO 1991

[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	
1981 ...	60	25,371,079	13,775,220	11,595,859	17,933,736
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

1/ Percent of fair market value.

Source: Honolulu Department of Finance, Real Property Assessment Division, Real Property Tax Valuations & Tax Rates for the Fiscal Year 1981-82, and Real Property Tax Valuations, Tax Rates, & Exemptions (annual, 1982 forward).

Table 285.-- REAL PROPERTY TAX VALUATIONS: 1989 TO 1991

[In thousands of dollars]

Subject	1989	1990	1991
Assessor's gross valuation <u>1/</u>	76,926,745	99,942,540	132,952,299
Land	42,778,927	61,554,968	88,359,248
Improvement	34,147,818	38,387,572	44,593,051
Exemptions	18,752,245	27,282,840	34,766,801
Assessor's net taxable valuation ..	58,174,500	72,659,700	98,185,498
Half of valuation on appeal	647,936	1,579,176	2,242,081
Number of appeals	2,560	4,089	5,619
Valuation for tax rate purposes ...	57,526,564	71,080,524	95,943,417
Land	31,670,173	44,192,655	63,933,593
Improvement	25,856,391	26,887,869	32,009,824
Amount to be raised by taxation <u>1/</u>	418,324	476,683	547,033

1/ 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 286.-- REAL PROPERTY TAX VALUATIONS, BY COUNTIES: 1991

[In thousands of dollars]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation	101,816,321	14,777,227	9,612,478	6,746,273
Land	70,922,450	7,826,154	5,233,981	4,376,663
Improvement	30,893,871	6,951,073	4,378,497	2,369,610
Exemptions	29,273,824	1,880,726	2,249,603	1,362,648
Assessor's net taxable valuation .	72,542,497	12,896,501	7,362,875	5,383,625
Half of valuation on appeal	1,790,846	226,841	39,755	184,639
Number of appeals	3,942	544	198	935
Valuation for tax rate purposes ..	70,751,651	12,669,660	7,323,120	5,198,986
Land	49,619,922	6,765,493	4,240,418	3,307,760
Improvement	21,131,729	5,904,167	3,082,702	1,891,226
Amount to be raised by taxation <u>1/</u>	377,675	70,064	66,895	32,398

1/ 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, 1991-1992 Tax Year, State of Hawaii (July 1991), pp. 2-5.

Table 287.-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 1991

Type of exemption	Number	Amount 1/ (\$1,000)
All exemptions	197,304	34,878,224
Federal government	393	4,639,217
State government	7,039	10,848,601
County government	2,884	3,116,229
Homes-fee (basic and multiple)	141,846	9,165,495
Homes-lease (basic and multiple) ...	26,915	1,584,119
Churches	1,390	1,146,315
Hospitals	81	493,230
Low-moderate income housing	964	636,185
Charitable organizations	640	672,111
Public utilities	785	773,551
Schools	150	655,013
All others	14,217	1,148,158

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, 1991-1992 Tax Year, State of Hawaii (July 1991), p. 6.

Table 288.-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES: 1991

[In thousands of dollars]

Land use class	Gross valuation, Jan. 1, 1991			Amounts to be raised by taxation, fiscal 1991-92
	Total	Land	Improvement	
All classes	132,952,299	88,359,248	44,593,051	547,033
Improved residential ...	56,541,774	39,223,608	17,318,166	148,499
Apartment	18,199,824	7,879,704	10,320,120	69,473
Commercial	19,673,366	14,631,255	5,042,111	107,476
Industrial	10,423,842	8,394,546	2,029,296	55,505
Agricultural	6,151,800	4,427,915	1,723,885	36,503
Conservation	1,659,013	1,428,134	230,879	5,328
Hotel/resort	13,398,532	7,266,980	6,131,552	105,957
Unimproved residential .	3,660,388	2,828,261	832,127	7,891
Single family	1,889,244	1,433,173	456,071	7,103
Homestead	1,354,516	845,672	508,844	3,298

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1991-1992 Tax Year, State of Hawaii (July 1991).

Table 289.-- REAL PROPERTY TAX RATES, BY COUNTIES:
FISCAL YEAR 1991-1992

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

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential 1/	3.25	3.50	8.50	4.93
Unimproved residential 2/ ..	4.09	4.75	10.00	4.04
Apartment	3.67	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	9.45	6.50	10.00	7.99
Agricultural	9.00	4.75	10.00	7.89
Conservation	9.00	4.75	10.00	7.89
Improvement:				
Improved residential 1/	4.09	3.50	8.50	3.94
Unimproved residential 2/...	4.09	4.75	8.50	3.18
Apartment	3.67	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	9.45	6.50	8.50	7.59
Agricultural	9.00	4.75	8.50	7.49
Conservation	9.00	4.75	8.50	7.49

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, 1991-1992 Tax Year, State of Hawaii (July 1991), p. 8.

Table 290.-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1990

[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		

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 1990 (March 1991), p. 38.

Table 291.-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES:
FISCAL YEARS 1985 TO 1990

[Millions of dollars]

Type of expenditure	1985	1986	1987	1988	1989	1990
All categories	4,568	4,643	4,759	4,957	5,422	5,461
Grants to State and local governments	436	473	460	477	528	598
Salaries and wages	1,942	1,961	2,073	2,078	2,285	2,166
Direct payments for individuals	1,444	1,517	1,617	1,715	1,884	2,034
Procurement	672	619	525	591	624	547
Other direct expenditures	73	73	84	96	100	115
Department of Defense	2,553	2,486	2,503	2,562	2,821	2,604
Other federal agencies	2,015	2,158	2,256	2,395	2,601	2,857

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1990 (March 1991), pp. 37-43, corresponding data in earlier reports, and records.

Table 292.-- PER CAPITA FEDERAL EXPENDITURES IN HAWAII, BY TYPES:
FISCAL YEAR 1990

Category	Amount (dollars)	Percent of U.S.	Rank <u>1/</u>
All categories	4,927.28	124.0	6
Grants to State and local governments ...	540.02	101.3	22
Salaries and wages	1,954.29	337.5	2
Direct payments for individuals	1,835.45	93.0	34
Procurement	493.85	66.1	27
Other direct expenditures	103.67	72.8	34
Department of Defense	2,349.26	262.5	3
All other Federal agencies	2,578.03	83.7	45

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

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1990 (March 1991), tables 8, 10, and 12.

Table 293.-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII,
BY COUNTIES: FISCAL YEAR 1990

[Thousands of dollars]

County	All agencies	Department of Defense	All other agencies
State total <u>1/</u>	5,633,928	2,602,585	3,031,343
City and County of Honolulu ..	4,766,897	2,504,225	2,262,672
Hawaii County	343,997	20,089	323,908
Kauai County	149,673	46,160	103,513
Maui County	205,795	32,003	173,792
State undistributed	167,566	108	167,458

1/ Figures differ somewhat from those in tables 299 and 300, 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 1990, Vol. I: County Areas (March 1991), pp. 14-15.

Table 294.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS:
1980 TO 1990

[In millions of dollars. As of December 31]

Year	Total bonded debt <u>1/</u>	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0
1983	2,545.4	2,235.8	219.5	19.0	52.1	19.0
1984	2,715.7	2,391.5	221.0	33.5	50.9	18.8
1985	3,131.5	2,621.2	404.0	30.8	56.7	18.8
1986	3,311.8	2,720.4	456.8	47.2	69.3	18.0
1987	3,298.4	2,700.7	448.7	48.8	67.3	32.9
1988	3,382.3	2,728.8	513.6	43.1	65.1	31.6
1989	3,710.4	2,969.9	559.5	73.6	72.4	35.0
1990	4,484.5	3,394.4	846.3	110.5	100.0	33.2

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

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

Table 295.-- STATE GENERAL OBLIGATION BOND DEBT: 1985 TO 1990

[In dollars. As of June 30]

Year	Debt	Year	Debt
1985	1,697,635,620	1988	1,847,982,810
1986	1,734,971,350	1989	1,978,039,494
1987	1,823,677,080	1990	2,026,100,383

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

Table 296.-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 1990

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

Year	Government workers (annual average)				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
1987	96,050	32,800	49,900	13,400	18,956	48,262
1988	99,500	33,800	51,850	13,850	19,431	51,534
1989	101,600	34,000	53,550	14,100	20,016	52,655
1990	105,250	33,800	57,050	14,400	19,325	53,509

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 297.-- STATE CIVIL SERVICE: 1988 TO 1990

[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	1988	1989	1990
Civil service employees, June 30	19,431	20,016	19,325
Department of Education	4,157	4,518	4,708
Department of Health	4,710	4,890	4,962
Department of Human Services	1,599	1,545	1,641
Department of Transportation	1,927	1,987	2,076
University of Hawaii	1,543	1,547	1,533
All others	5,495	5,529	4,405
Separations	1,686	2,406	1,958
Promotions	1,677	897	867
Transfers, demotions, and returns after promotions ..	1,742	997	780
Classification actions	10,340	10,463	4,593
Applications received	24,988	27,184	30,818
Applicants screened	20,146	24,782	28,537
Applicants placed on eligible list	6,932	10,578	9,851
Vacancies filled by competitive and noncompetitive actions	2,965	3,094	3,103
Grievances	239	189	262

Source: Hawaii State Department of Personnel Services, records.

Table 298.-- STATE SALARY SCHEDULES FOR SELECTED LEVELS:
1989 TO 1991

[In dollars per month. Data refer to lowest and highest rates
among six bargaining units]

Salary range	Lowest			Highest		
	July 1989	July 1990	July 1991	July 1989	July 1990	July 1991
SR-4	1,133	1,184	1,217	1,490	1,620	1,665
SR-11	1,490	1,557	1,600	1,961	2,131	2,190
SR-21	2,225	2,279	2,342	3,058	3,245	3,334
SR-31	3,423	3,650	3,750	4,839	5,194	5,337

Source: Hawaii State Department of Personnel Services,
salary schedules and conversion tables.

Table 299.-- SALARIES OF SELECTED GOVERNMENT OFFICIALS: 1976,
1989, 1990, AND 1991

[Annual rates, in dollars, as of January 1]

Government official	1976	1989	1990	1991
Governor	50,000	90,699	94,780	94,780
Lieutenant Governor	45,000	86,164	90,041	90,041
Mayor, Honolulu	44,903	84,725	84,725	89,000
Mayor, Hawaii	43,644	63,792	63,792	76,848
Mayor, Maui	36,070	75,000	80,000	82,500
Mayor, Kauai	34,000	58,500	58,500	58,500
Chief Justice, Supreme Court	47,500	80,000	80,000	80,000
Associate Justice, Supreme Court ...	45,000	78,500	78,500	78,500
President, University of Hawaii	45,000	95,000	95,000	95,000

Source: Hawaii Revised Statutes; SLH 1989, Act 329; 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 54,000 officers and enlisted men (including 2,600 aboard ships homeported in Hawaii) and 63,000 military dependents in the Islands as of July 1, 1991. 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 10,000 Hawaii residents were in the armed forces worldwide in 1991. The importance of national defense in Hawaii can be further measured by total expenditures (\$3.2 billion), military prime contract awards (\$512 million), civilian employment (19,000), veterans in civil life (100,000), military personnel receiving retired pay (11,300, receiving \$15 million monthly), military-connected pupils in public schools (19,900), military housing (19,300 units), and land owned or controlled by the armed forces (over 265,000 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: 1991 presents data on national defense and veterans affairs for other states and the entire nation.

Table 300.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE
ARMED FORCES WORLDWIDE: 1970 TO 1991

[As of June 30. Based on home of record]

Year	Number	Year	Number	Year	Number
1970	15,331	1985	10,827	1989 <u>1/</u> ..	10,501
1975	10,640	1987	10,896	1990	10,052
1980	11,851	1988	10,548	1991	10,076

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 301.-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS:
1985 TO 1990

[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>
1985	46,875	55,552	20,762
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

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 302.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1991

[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

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 303.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1991

[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	117,141	53,813	34,715	16,482	2,616	63,328	28,655	
By island:								
Oahu	116,603	53,561	34,523	16,422	2,616	63,042	28,508	
Hawaii	199	76	73	3	-	123	60	
Maui	40	13	13	-	-	27	9	
Kauai	274	141	106	35	-	133	77	
Kure Atoll	25	22	-	22	-	3	1	
By service:								
Air Force	13,901	5,961	4,792	1,169	-	7,940	3,280	
Army	42,524	18,910	11,484	7,426	-	23,614	9,333	
Coast Guard ...	2,182	1,030	822	79	129	1,152	510	
Marine Corps ..	15,784	7,022	3,674	3,348	-	8,762	3,362	
Navy	42,750	20,890	13,943	4,460	2,487	21,860	12,170	

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers.

Table 304.-- NATIONAL GUARD STRENGTH: 1986 TO 1991

[Actual strength as of late June]

Service	1986	1987	1988	1989	1990	1991
Total	5,882	5,814	5,838	5,769	5,711	5,632
Air National Guard ...	2,197	2,190	2,187	2,159	2,124	2,078
Army National Guard ..	3,685	3,624	3,651	3,610	3,587	3,554

Source: Hawaii State Department of Defense, records.

Table 305.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY SERVICE: SEPTEMBER 30, 1990

Category	All services	Army	Navy	Air Force	Other DoD
Total	59,793	24,138	27,686	7,855	114
Military personnel <u>1</u> /	39,936	18,590	15,735	5,611	-
Civilian personnel <u>2</u> /	19,857	5,548	11,951	2,244	114

Footnotes and source follow next table.

Table 306.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,
BY LOCATION: SEPTEMBER 30, 1990

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total	59,793	39,936	19,857
Aiea	762	479	283
Barbers Point NAS	1,851	1,480	371
Camp H. M. Smith	952	952	-
Ford Island	365	330	35
Fort Shafter	2,035	2	2,033
Hickam AFB	7,705	5,763	1,942
Honolulu	1,983	1,627	356
Kaneohe	5,261	4,574	687
Kapalama	213	30	183
Kauai	287	150	137
Kunia	1,554	1,505	49
Lualualei	481	213	268
Pearl Harbor	17,477	7,426	10,051
Schofield Barracks	14,714	13,616	1,098
Tripler Army Medical Center	1,361	-	1,361
Wahiawa	912	730	182
Wheeler AFB	1,342	880	462
Other	538	179	359

1/ Active duty. Navy figure includes Marine Corps and excludes personnel afloat on 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, 1990, pp. 6 and 28.

Table 307.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY:
ANNUAL AVERAGES, 1985 TO 1990

Service	1985	1986	1987	1988	1989	1990
Total	20,750	20,400	20,150	20,200	20,100	19,350
Air Force	2,650	2,650	2,550	2,450	2,350	2,300
Army	5,400	5,600	5,600	5,500	5,550	5,550
Navy	12,700	12,150	11,950	12,250	12,200	11,500

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as updated annually through April 1991.

Table 308.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1988 TO 1990

[In thousands of dollars. Fiscal years ended September 30. Net value of Department of Defense prime contracts over \$25,000]

Procurement program	1988	1989	1990
Total	540,991	578,733	511,893
Ships	14,459	25,529	16,086
Electronics and communication equipment ...	34,798	32,645	37,214
Petroleum	72,585	38,240	59,274
Construction	250,616	262,044	157,555
Services	139,167	191,413	198,244
All other procurement programs	29,366	28,862	43,520

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Prime Contract Awards by Region and State, Fiscal Years 1990, 1989, and 1988, p. 29.

Table 309.-- ALTERNATE ESTIMATES OF FEDERAL DEFENSE EXPENDITURES:
1970 TO 1990

[In millions of dollars. These widely differing estimates from different sources reflect variations in coverage, definitions, and reporting periods. DBED plans to issue new and revised estimates in 1992]

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>
1970	916.8	639.4	524	675.2
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	...

1/ DBED estimates based partly on U.S. Bureau of Economic Analysis data; see table 379 and its source.

2/ DBED 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 (1970-75), Community Services Administration (1976-80), and Bureau of the Census (1981-90); see Data Book for 1982 (table 224), 1987 (table 320), and 1991 (table 291). 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 310.-- ACREAGE OWNED OR CONTROLLED BY THE U.S. DEPARTMENT OF DEFENSE, BY BRANCH OF SERVICE AND BY ISLANDS: APRIL 1987

Branch of service and island	Total acreage	Owned in fee	Ceded land <u>1/</u>	Other land <u>2/</u>
All branches	265,402	26,406	146,187	92,809
Branch of service:				
Air Force	6,081	2,496	2,827	757
Army	165,807	4,058	101,688	60,061
Navy and Marine Corps	93,514	19,851	41,672	31,991
Island:				
Hawaii	108,928	4	84,819	24,105
Maui	8	5	-	3
Kahoolawe	28,777	-	28,777	-
Lanai	-	-	-	-
Molokai	6,319	-	12	6,307
Oahu	93,888	26,397	30,546	36,945
Kauai	27,371	-	1,925	25,446
Niihau	3	-	-	3
Kaula	108	-	108	-
Northwestern Hawaiian Islands, exc. Midway ...	-	-	-	-

1/ Includes 4,962 acres of submerged Navy land in Pearl Harbor.

2/ Held under lease, license, or permit. Includes 31,283 acres of Navy land used for intermittent training with no permanent occupancy and subject to restrictions.

Source: Hawaii State Department of Business and Economic Development, Land Ownership in Hawaii 1987 (Statistical Report 208, September 1988), pp. 7-10.

Table 311.-- HOUSING UNITS OWNED BY THE ARMED FORCES,
BY COUNTIES: APRIL 1, 1990 AND 1991

Year	State total	Hono- lulu	Hawaii	Kauai	Maui
1990	19,199	19,116	15	62	6
1991	19,348	19,272	8	62	6

Source: Hawaii State Department of Business, Economic Development & Tourism, Housing Unit Estimates for Hawaii (annual).

Table 312.-- VETERANS IN CIVIL LIFE: 1980 AND 1990

Period of service	March 31, 1980	March 31, 1990
Total veterans <u>1/</u>	94,000	100,000
Wartime veterans <u>1/</u>	78,000	78,000
Vietnam era	33,000	36,000
Korean conflict	20,000	20,000
World War II	30,000	31,000
World War I	1,000	(2)
Peacetime veterans	15,000	22,000
Post-Vietnam era only <u>2/</u>	3,000	10,000
Between Korea and Vietnam only	13,000	10,000
Other peacetime veterans <u>3/</u> .....	...	1,000

Z Under 500.

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

3/ Includes those who served only between World War I and World War II, and those who served only between World War II and the Korean conflict.

Source: Veterans Administration, Veteran Population (annual report).

Table 313.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1990

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	12,461	11,334	15,030	1,326
Army	5,077	4,512	5,479	1,214
Navy	3,472	3,196	4,364	1,365
Marine Corps	830	743	1,128	1,518
Air Force	3,082	2,883	4,068	1,411

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 1990 DOD Statistical Report on the Military Retirement System (1991), p. 20.

Section 11

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on United Way campaigns, foundations, and the quality of life. Related data are cited in Sections 9 and 13.

Total social welfare costs reached \$434 million in fiscal 1990, compared with \$255 million a decade earlier. About 54 percent of the 1990 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1990 was 52,000, or 4.6 percent of the resident population of the State. Fifty-five 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 \$505, or 50 percent more than in 1980. Participation in the food stamp program included 32,000 households and 79,000 persons. Among workers receiving unemployment compensation in 1990, weekly benefits averaged \$189. About 149,000 Hawaii residents were receiving Social Security benefits in December 1990, and about 127,000 were enrolled for Medicare. There were also 20,000 State and county government pensioners in 1990, with annual benefits of \$245 million. Child adoptions in 1990 numbered 678. Thirty-five foundations reported assets of \$345 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 27th.

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: 1991 presents comparable Mainland data.

Table 314.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES: 1980 TO 1990, 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	Indi-viduals	Per case	Per indi-vidual		Cases	Indi-viduals
1980	27,219	71,693	337.59	128.17	16,312	12,932	13,598
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	51,695	505.00	195.00	5,846	(NA)	18,773
COUNTIES: 1990							
Hawaii ..	4,260	11,300	512.00	193.00	939	(NA)	2,655
Maui	1,214	3,313	512.00	188.00	645	(NA)	1,320
Honolulu	13,720	35,293	503.00	196.00	3,855	(NA)	13,745
Kauai ...	697	1,790	494.00	193.00	407	(NA)	1,053

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 payment only.

Source: Hawaii State Department of Human Services, records.

Table 315.-- PERCENT OF RESIDENT POPULATION SERVED BY FINANCIAL ASSISTANCE PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES, BY COUNTIES: 1989 AND 1990

[Based on fiscal year program data and July population estimates]

Year	State	Hawaii	Maui	Honolulu	Kauai
1989	4.5	9.4	3.5	4.0	3.3
1990	4.6	9.3	3.3	4.2	3.5

Source: Hawaii State Department of Human Services, records; present volume, table 5.

Table 316.-- SELECTED SOCIAL WELFARE EXPENDITURES: 1980 TO 1990

[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
1980	255,280	109,734	145,547	18,999	112,024	112,793	11,464
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

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 317.-- FINANCIAL ASSISTANCE PAYMENTS AND CASES: 1989 AND 1990

[Years ended June 30]

Program	Total payments (\$1,000)		Cases (monthly average)		Average monthly payment (dollars)	
	1989	1990	1989	1990	1989	1990
All programs	151,407	176,135	32,107	33,652	392	436
Old age assistance 1/ .	14,580	17,073	5,279	5,471	230	260
Aid to the blind 1/ ...	600	702	176	186	283	314
Aid to disabled 1/	27,035	32,753	7,287	7,650	308	357
Aid to families with dependent children 2/	86,060	96,453	13,676	14,273	524	563
Child welfare foster care	2,598	5,738	881	1,001	243	478
General assistance	20,534	23,416	4,808	5,071	355	384

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Human Services, obligations FY printout and foster care printout; Social Security Bulletin, tables M22, M24, M25.

Table 318.-- FOOD STAMP PROGRAM: 1989 AND 1990

[Years ended June 30]

Subject	1989	1990
Households, total participating 1/	31,809	32,285
Receiving food stamps and financial assistance	16,095	17,588
Receiving only food stamps	15,714	14,697
Persons, total participating 1/	80,285	79,495
Receiving food stamps and financial assistance	48,190	51,318
Receiving only food stamps	32,095	28,177
Value of food stamps given to recipients (\$1,000)	74,533	78,998

1/ Monthly averages.

Source: Hawaii State Department of Human Services, records.

Table 319.-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI)
 BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE, RACE, AND SEX:
 1989 AND 1990

[December data. Based on 10-percent sample]

Age, race, and sex	December 1989	December 1990
Total	144,710	148,160
Age:		
17 years or under	10,020	9,860
18 to 64 years	28,450	27,650
65 to 69 years	37,440	38,410
70 to 74 years	28,390	29,600
75 years or older	40,410	42,640
Race:		
White	39,710	39,760
Black	1,130	1,080
Other	103,870	107,320
Beneficiaries other than children:		
Men	61,220	62,670
Women	71,310	73,440

Source: U.S. Department of Health and Human Services, Social Security Administration, Social Security Bulletin, Annual Statistical Supplement for 1990 and 1991.

Table 320.-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI)
 BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT AND COUNTY:
 DECEMBER 1990

Type of benefit and county	Number of OASDI beneficiaries	Amount of monthly benefits (\$1,000)
Total	148,522	79,859
TYPE OF BENEFIT		
Retirement program:		
Retired workers	102,360	60,721
Wives and husbands	11,248	3,195
Children	3,787	892
Survivor program:		
Widows and widowers	14,414	7,604
Children	6,230	2,512
Disability program:		
Disabled workers	7,635	4,491
Wives and husbands	588	84
Children	2,260	360
Age 65 and over:		
Men	52,225	34,410
Women	58,946	29,340
COUNTY		
Hawaii	20,410	10,950
Honolulu	105,105	56,451
Kalawao	155	80
Kauai	8,445	4,490
Maui	14,145	7,734
Unknown	255	130

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 321.-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS:
1985 TO 1990

Year	Number of beneficiaries, December	Monthly amounts, December (\$1,000)	Annual payments (million dollars)
1985	129,475	54,612	626
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

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 322.-- MEDICARE BENEFICIARIES ENROLLED AND BENEFIT PAYMENTS:
1989 AND 1990

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments (mil. dol.)	
	1989	1990	1989	1990	1989 <u>1/</u>	1990 <u>2/</u>
Hospital and/or medical insurance	122,456	126,934	113,684	118,054	258	262
Hospital insurance	119,353	123,697	110,581	114,817	151	152
Supplementary medical insurance	115,960	119,698	108,043	111,760	107	110
Hospital and medical insurance (both)	112,857	116,461	104,940	108,523	-	-

1/ Year ended June 30, 1990.

2/ Calendar year.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, records.

Table 323.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1985 TO 1990

Year	Member- ship, 1/ March 31	Pen- sioners, March 31	Assets, 2/ June 30 ⁻ (\$1,000)	Total benefits paid 3/ (\$1,000)	Average monthly pension 3/ (dollars)	Adminis- tration expenses 3/ (dollars)
1985 4/	51,767	16,438	2,326,594	385,756	521	2,292,754
1986 ..	47,662	17,326	2,713,753	175,698	552	1,519,706
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

1/ State and county employees. Includes former employees who have not withdrawn their contributions but excludes all pensioners. Decline after 1985 primarily reflects corrections in ERS records.

2/ Book value.

3/ Year ended June 30. Data on total benefits paid exclude the employers' share of social security contributions.

4/ Benefits paid total includes refunds to members electing noncontributory retirement plan. Administration expenses total reflects Social Security sick leave recovery claims.

Source: Employees' Retirement System of the State of Hawaii, records.

Table 324.-- CHILD ADOPTIONS: 1985 TO 1989

Type of adoption	1985	1986	1987	1988	1989	1990
Total	550	544	581	611	830	678
By relatives	382	339	414	409	577	479
By nonrelatives	168	205	167	202	253	190
Placed by social agencies ...	121	160	134	167	207	174

Source: Hawaii State Department of Human Services, tabulations from SRS-NCSS-280 Adoption Cards.

Table 325.-- UNEMPLOYMENT INSURANCE: 1980 TO 1990

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				
1980 ...	413,095	11,291	54	259.63	49,222	102.91	13.7
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	13,452	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	8,901	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	5,239	40	415.75	40,833	170.03	12.0
1990 ...	(NA)	5,722	38	(NA)	50,269	189.40	11.4

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, 1990 State of Hawaii Unemployment Insurance Fact Book, 1970 to the Present, Hawaii (June 1990), pp. 6, 8, 11, 22, and 23, and records.

Table 326.-- CHILD DAY CARE SERVICES WITH PAYROLL, BY FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA: 1987

[Child day care services without payroll subject to Federal income tax, not included in this table, numbered 614 establishments 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
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

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Hawaii, SC87-A-12 (July 1989), tables 1a, 1b, 8a, and 8b, and 1987 Census of Service Industries, Nonemployer Statistics Series, West, SC87-N-4 (March 1990), table 2.

Table 327.-- FOUNDATIONS: 1984 TO 1991

[For definition and coverage, see Data Book 1984, table 306, headnote]

Subject	1984	1990	1991
Non-restricted foundations (open to grant-seekers):			
Number	68	95	35
Assets (million dollars)	164.6	230.2	345.3
Grants made (million dollars)	9.8	12.0	17.4
Restricted foundations (number)	62	6	(NA)

NA Not available.

Source: The Foundation Center, Foundations Directory (annual) and National Foundations (annual), special tabulations.

Table 328.-- UNITED WAY REVENUES AND OUTLAYS, 1979 TO 1989, AND
BY ISLANDS, 1989

[\$1,000]

Year and island	Total revenues	Contributions	Total outlays	Agency allocation
1979 ^{1/}	8,993	8,852	8,921	8,199
1980 ^{1/}	9,708	9,371	9,399	8,555
1981 ^{1/}	10,338	10,271	10,394	9,308
1982 ^{1/}	10,781	10,593	10,548	9,743
1983	11,168	10,975	11,280	10,116
1984	11,651	11,271	11,294	10,059
1985	11,869	11,517	11,603	10,307
1986 ^{2/}	12,807	12,258	12,454	10,920
1987	13,313	12,473	13,319	11,319
1988 ^{3/}	14,302	13,474	13,782	11,263
1989	14,933	14,135	15,044	13,722
ISLAND: 1989				
Aloha United Way (Oahu)	12,637	11,978	12,627	9,798
Hawaii Island United Way	945	904	938	736
United Way of Kauai	448	413	382	327
Maui United Way ^{4/}	851	788	1,045	820
Friendly Isle United Way (Molokai) ..	52	52	52	52

^{1/} Data exclude Friendly Isle United Way.

^{2/} Data for Maui United Way cover 18-month period ending June 30, 1987.

^{3/} Agency allocation figure is revised from Data Book 1990, table 338.

The correct Oahu allocation in 1988 was \$9,457,000.

^{4/} Year ended June 30, 1989.

Source: Aloha United Way, Annual Reports; Hawaii Island United Way, Inc., and Maui United Way, Financial Statements and records; United Way of Kauai and Friendly Isle United Fund, records.

Table 329.-- QUALITY OF LIFE GENERAL INDEX RANKINGS, FOR THE STATE AND HONOLULU METROPOLITAN STATISTICAL AREA: 1986 TO 1991

[For earlier studies, see Data Book 1984, table 309, and Data Book 1986, table 348]

Area, authority, and year of publication	Number of areas ranked	Honolulu rank
State:		
Morgan Quitno, 1991 <u>1/</u>	50	7
Honolulu MSA:		
Thompson, 1986 <u>2/</u>	119	114
Eisenberg and Englander, 1987 <u>3/</u>	300	58
Eisenberg and Englander, 1988 <u>4/</u>	300	43
Eisenberg and Smith, 1989 <u>5/</u>	300	14
Boyer and Savageau, 1989 <u>6/</u>	333	32
Eisenberg and Smith, 1990 <u>7/</u>	300	27
Smith and Englander, 1991 <u>8/</u>	300	27

1/ Morgan Quitno (publisher), State Rankings (1991), cited in Honolulu Advertiser, October 8, 1991, p. D5.

2/ Thomas Patrick Thompson, ed., The National Metropolitan Area Study (Florence, Alabama: The University of North Alabama, Dec. 1986), p. 336. Composite weighted rank among 119 metropolitan statistical areas with populations between 250,000 and 1,000,000.

3/ Richard Eisenberg and Debra Wishik Englander, "The Best Places to Live in America," Money, August 1987, pp. 34-44.

4/ Richard Eisenberg and Debra Wishik Englander, "The Best Places to Live in America," Money, August 1988, pp. 76-84.

5/ Richard Eisenberg and Marguerite T. Smith, "The Best Places to Live in America," Money, September 1989, pp. 124-141.

6/ Richard Boyer and David Savageau, Places Rated Almanac, rev. ed. (Prentice Hall, 1989), p. 397.

7/ Richard Eisenberg and Marguerite T. Smith, "The Best Places to Live Now," Money, September 1990, pp. 78-95.

8/ Marguerite T. Smith and Debra Wishik Englander, "The Best Places to Live Now," Money, September 1991, pp.130-146.

Table 330.-- 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, class of worker, and place of work, 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 539,000 in 1990; of this total, 524,000 persons were employed and 15,000 were unemployed and seeking work. The civilian jobcount rose from 448,000 in 1980 to 580,000 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). The unemployment rate averaged 2.8 percent in 1990, with individual island levels ranging from 2.4 to 10.3 percent. By occupation, one out of four civilian workers is classified as professional or managerial. Activities with especially large numbers of employees include services (155,000 in 1990), retail trade (113,000), and government (105,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached \$23,156 in 1990, or 2.7 percent more than the 1980 average after adjustment for inflation. Average weekly hours in 1990 were 39.4 for all civilian workers and 46.8 for those on full-time schedules, and ranged from 30.9 (for retail trade) to 44.8 (for communication and utilities). Labor union membership was estimated at 161,000 in 1990. Work stoppages in 1990 involved more than 7,400 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: 1991.

Table 331.-- LABOR FORCE STATUS, BY SEX: 1950 TO 1980

Sex and labor force status	1950 ^{1/}	1960	1970	1980
BOTH SEXES				
Persons 16 years and over	351,375	402,937	522,018	723,479
Labor force	207,952	263,450	344,269	494,223
Armed forces	22,856	47,255	49,785	58,443
Civilian labor force	185,096	216,195	294,484	435,780
Employed	167,571	207,456	285,556	415,181
Unemployed	17,525	8,739	8,928	20,599
Percent of civ. labor force	9.5	4.0	3.0	4.7
Not in labor force	143,423	139,487	177,749	229,256
MALE				
Persons 16 years and over	197,864	219,822	272,726	370,683
Labor force	157,088	186,507	222,221	290,420
Armed forces	22,572	46,626	48,860	54,032
Civilian labor force	134,516	139,881	173,361	236,388
Employed	120,972	135,481	168,940	225,331
Unemployed	13,544	4,400	4,421	11,057
Percent of civ. labor force	10.1	3.1	2.6	4.7
Not in labor force	40,776	33,315	50,505	80,263
FEMALE				
Persons 16 years and over	153,511	183,115	249,292	352,796
Labor force	50,864	76,943	122,048	203,803
Armed forces	284	629	925	4,411
Civilian labor force	50,580	76,314	121,123	199,392
Employed	46,599	71,975	116,616	189,850
Unemployed	3,981	4,339	4,507	9,542
Percent of civ. labor force	7.9	5.7	3.7	4.8
Not in labor force	102,647	106,172	127,244	148,993

1/ Data refer to persons 14 years and over.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii, PC(1)-13C (1962), tables 53 and 54, 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.

Table 332.--LABOR FORCE STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGES, 1989 AND 1990

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
1989				
Civilian noninstitutional population .	790	366	424	54
Civilian labor force	525	271	254	26
Percent of population	66.4	74.1	59.9	47.8
Employment	511	264	248	23
Percent of population	64.7	72.1	58.3	43.1
Unemployment	13	7	6	3
Rate 1/	2.6	2.6	2.5	9.8
Not in civilian labor force	265	95	170	28
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

1/ Percent of civilian labor force. The error ranges for these rates, at the 90-percent confidence level, are: both sexes, 2.3-3.3; men, 2.6-4.1; women, 1.7-2.9; 16-19, 9.0-18.3.

2/ Percent of civilian labor force. The error ranges for these rates, at the 90-percent confidence interval, are: both sexes, 2.7-3.7; men, 2.6-4.1; women, 2.3-3.7; 16-19, 7.2-14.3.

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1989 (Bulletin 2361, May 1990), p. 38, and Geographic Profile of Employment and Unemployment, 1990 (Bulletin 2381, June 1991), p. 38.

Table 333.-- LABOR FORCE PARTICIPATION RATES, BY SEX:
ANNUAL AVERAGES, 1980 TO 1990

[Percent of civilian noninstitutional population 16 years
and over in civilian labor force]

Year	Both sexes	Male	Female	Both sexes, 16 to 19 years
1980	63.8	72.0	56.7	50.1
1981	66.7	74.9	59.5	49.2
1982	66.8	75.5	58.9	43.9
1983	66.8	75.1	59.1	41.8
1984	65.5	73.5	58.1	45.3
1985	65.5	72.6	59.1	48.5
1986	66.1	73.8	59.0	47.9
1987	67.4	75.3	60.4	49.7
1988	66.8	74.3	60.0	48.1
1989	66.4	74.1	59.9	47.8
1990	67.1	74.5	60.6	47.0

Source: U. S. Bureau of Labor Statistics,
Geographic Profile of Employment and Unemployment
(annual).

Table 334.-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, BY RACE AND
HISPANIC ORIGIN: 1990

[Thousands]

Race <u>1/</u>	Both sexes	Female	Race <u>1/</u>	Both sexes	Female
All races	539.0	245.4	Asian/Pacific -- con.:		
White	167.3	74.3	Korean	10.4	5.6
Asian/Pacific <u>2/</u>	357.9	165.4	Other Asian/Pac.	9.6	4.0
Japanese	168.6	80.1	Black	4.1	1.8
Filipino	74.2	33.1	Native American <u>3/</u>	1.4	0.6
Hawaiian	60.4	27.0	Race n.e.c.	8.3	3.4
Chinese	34.6	15.7	Hispanic <u>4/</u>	31.4	13.6

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 1991), table 2.

Table 335.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:
ANNUAL AVERAGES, 1970 TO 1990

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

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as updated and revised annually through April 1991.

Table 336.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1980 TO 1990

[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 $\frac{1}{2}$ / ...	384,100	54,900	26,300	52,750	1,050	49,200	2,450
1989 $\frac{1}{2}$ / ...	383,900	57,200	27,350	55,550	1,350	51,800	2,400
1990	391,400	61,550	28,400	57,700	1,250	53,900	2,500
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 $\frac{1}{2}$ / ...	369,850	50,950	23,850	49,350	850	46,250	2,250
1988 $\frac{1}{2}$ / ...	373,500	52,200	25,350	51,000	950	47,750	2,250
1989 $\frac{1}{2}$ / ...	375,300	55,000	26,550	54,100	1,250	50,700	2,150
1990	381,400	59,200	27,350	56,050	1,200	52,600	2,250

Continued on next page.

Table 336.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1980 TO 1990 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1980	15,550	2,700	850	1,900	100	1,500	350
1981	17,150	3,350	1,150	2,350	150	1,900	300
1982	21,500	4,500	1,700	3,300	250	2,700	400
1983	20,600	4,350	1,650	3,400	100	2,800	550
1984	19,100	3,700	1,500	2,700	150	2,200	350
1985	18,450	4,250	1,500	2,800	200	2,250	300
1986	16,200	3,850	1,400	2,550	100	2,100	350
1987	13,550	3,100	1,100	2,250	150	1,800	300
1988	10,600	2,700	950	1,750	100	1,450	200
1989	8,550	2,200	800	1,450	100	1,100	250
1990	10,000	2,350	1,000	1,600	50	1,300	250
PERCENT UNEMPLOYED							
1980	4.6	6.2	4.2	5.1	7.7	4.4	13.9
1981	5.0	7.3	5.8	5.9	10.6	5.2	12.9
1982	6.1	9.6	8.1	7.7	17.1	6.9	15.2
1983	5.8	9.0	7.7	7.6	9.0	6.8	19.4
1984	5.3	7.7	7.0	6.0	11.1	5.4	13.8
1985	5.1	8.5	6.8	5.9	20.1	5.2	13.0
1986	4.4	7.5	5.9	5.3	11.5	4.7	13.4
1987	3.5	5.8	4.3	4.4	14.8	3.7	12.1
1988 1/ ..	2.8	4.9	3.7	3.3	7.5	2.9	8.8
1989 1/ ..	2.2	3.8	2.9	2.6	8.7	2.1	9.5
1990	2.6	3.8	3.6	2.8	4.2	2.4	10.3

1/ Revised from Data Book 1990, table 346.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised and updated annually through April 1991.

Table 337.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED:
ANNUAL AVERAGES, 1990

[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 .	4.1
Under 22 years	3.1	Services	24.2
22 to 24 years	5.5	Hotel	9.3
25 to 34 years	31.8	Others	7.1
35 to 44 years	31.0	Occupation:	
45 to 54 years	16.2	Prof., tech., mgr.	18.1
55 to 64 years	10.0	Clerical, sales	14.9
65 years and over	2.4	Services	9.3
Sex:		Farm, fish., forest.	4.7
Male	65.5	Processing	0.8
Female	34.5	Machine trades	1.7
Industry:		Bench work	1.3
Government	0.4	Structural work	14.6
Agriculture	7.5	Miscellaneous	6.4
Construction	29.7	Not available	28.1
Manufacturing	5.0	Duration:	
Trans., commun., util. ...	8.5	1 to 4 weeks	45.1
Wholesale, retail trade ..	13.5	5 to 14 weeks	36.8
		15 weeks and over	18.1

Source: Hawaii State Department of Labor and Industrial Relations, Characteristics of the Insured Unemployed in Hawaii--1990.

Table 338.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1970 TO 1990

[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
1970	331,580	270,310	28,410	12,540	20,320
1971	339,070	276,260	29,000	12,960	20,840
1972	349,950	285,900	29,450	13,050	21,550
1973	365,050	298,900	30,150	13,600	22,250
1974	374,650	306,350	31,000	13,600	23,650
1975	380,900	308,550	32,350	14,550	25,400
1976	387,000	312,100	33,000	15,250	26,600
1977	398,600	319,900	34,100	15,900	28,450
1978	417,500	334,400	35,400	16,650	30,950
1979	434,450	348,150	36,300	17,200	32,650
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 <u>1/</u> .	552,000	421,650	52,000	26,600	51,850
1990	579,850	439,400	57,200	28,000	55,000

1/ Revised from Data Book 1990, table 348.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1991; Labor Force Statistics, Bull. No. 70-F and 72-F.

Table 339.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1980 AND 1987 TO 1990

Industry	1980	1987	1988	1989 <u>1/</u>	1990
Nonagriculture, wage and salary	404,100	459,950	478,050	505,450	527,500
Contract construction	23,950	21,200	23,400	29,200	31,850
Manufacturing	23,350	21,900	22,000	21,500	20,950
Durable goods	4,700	3,950	4,250	4,350	4,350
Nondurable goods	18,650	17,950	17,750	17,150	16,600
Food processing	11,150	9,950	9,950	9,500	9,250
Pineapple	2,900	2,050	2,050	1,800	1,600
Sugar	3,900	3,050	2,850	2,550	2,500
Other	4,350	4,800	5,050	5,150	5,150
Textile, apparel	3,050	3,150	2,800	2,500	2,200
Printing, publishing	3,100	3,400	3,550	3,650	3,600
Other nondurables	1,350	1,450	1,450	1,550	1,500
Transp., commun., utilities ..	31,200	36,800	38,000	39,950	42,050
Transportation	21,500	26,900	27,750	29,900	31,650
Communication	7,150	7,250	7,550	7,300	7,350
Utilities	2,550	2,650	2,650	2,800	3,050
Trade	105,250	123,750	127,450	132,550	135,850
Wholesale	18,600	20,400	20,750	21,850	22,400
Retail	86,700	103,400	106,750	110,700	113,450
Finance, insur., real estate .	32,850	33,700	34,450	35,250	36,900
Services and miscellaneous ...	98,450	126,500	133,250	145,400	154,650
Hotels	24,900	31,250	34,350	37,000	38,800
Other services, misc.	73,550	95,250	98,900	108,400	115,850
Government	89,050	96,050	99,500	101,600	105,250
Federal	30,000	32,800	33,800	34,000	33,800
Air Force	2,650	2,550	2,450	2,350	2,300
Army	4,100	5,600	5,500	5,550	5,550
Navy	11,950	11,950	12,250	12,200	11,500
Other	11,250	12,650	13,600	13,850	14,450
State	45,150	49,900	51,850	53,550	57,050
Local	13,900	13,400	13,850	14,100	14,400
Agriculture, wage and salary ...	10,650	10,550	10,000	9,650	9,600
Sugar	4,950	3,800	3,700	3,300	3,100
Pineapple	2,500	1,900	1,750	1,850	1,850
Other	3,200	4,800	4,550	4,500	4,650
Nonagric., self-employed <u>2/</u>	28,300	30,700	32,750	33,400	38,550
Agric., self-employed <u>3/</u>	4,600	3,700	3,600	3,500	3,550
Labor disputes	500	50	100	(Z)	650

Footnotes and source follow next table.

Table 340.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1990

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	527,500	409,200	45,650	24,300	48,300
Contract construction	31,850	24,000	3,250	1,450	3,150
Manufacturing	20,950	15,800	2,250	900	1,950
Durable goods	4,350	3,850	200	(Z)	250
Nondurable goods	16,600	11,950	2,050	900	1,700
Food processing	9,250	5,400	1,750	700	1,400
Textile, apparel	2,200	2,150	(NS)	(NS)	(NS)
Printing, publishing	3,600	3,000	(NS)	(NS)	(NS)
Other nondurables	1,500	1,400	(NS)	(NS)	(NS)
Transp., commun., utilities .	42,050	34,200	2,500	2,400	3,000
Transportation	31,650	26,200	(NS)	(NS)	(NS)
Communication	7,350	5,800	(NS)	(NS)	(NS)
Utilities	3,050	2,200	(NS)	(NS)	(NS)
Trade	135,850	102,550	12,600	7,050	13,650
Wholesale	22,400	18,500	2,000	500	1,350
Retail	113,450	84,000	10,600	6,550	12,300
Finance, insur., real estate	36,900	29,600	2,350	1,550	3,350
Services and miscellaneous ..	154,650	115,450	14,250	7,600	17,350
Hotels	38,800	19,400	6,250	4,000	9,200
Other services, misc.	115,850	96,050	8,000	3,600	8,150
Government	105,250	87,600	8,450	3,350	5,850
Federal	33,800	32,150	850	350	450
Air Force	2,300	2,200	(NS)	(NS)	(NS)
Army	5,550	5,450	(NS)	(NS)	(NS)
Navy	11,500	11,400	(NS)	(NS)	(NS)
Other	14,450	13,100	(NS)	(NS)	(NS)
State	57,050	45,450	5,650	2,100	3,850
Local	14,400	10,000	1,950	900	1,500
Agriculture, wage and salary ..	9,600	2,300	3,500	1,150	2,600
Sugar	3,100	450	850	950	850
Pineapple	1,850	750	-	-	1,100
Other	4,650	1,150	2,700	200	600
Nonagric., self-employed <u>2/</u> ...	38,550	26,650	5,850	2,300	3,700
Agric., self-employed <u>3/</u>	3,550	700	2,200	250	400
Labor disputes	650	550	(Z)	(Z)	(Z)

Footnotes and source on next page.

Table 340.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE,
1990 -- Con.

Z Fewer than 50.

NS Not shown separately.

1/ Revised from Data Book 1990, tables 349 and 350.

2/ Includes unpaid family workers and domestics. Data for 1987-1990 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 1991.

Table 341.-- 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 342.-- 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 343.-- CIVILIAN EMPLOYMENT, FULL-AND PART-TIME: 1989 AND 1990

[Thousands]

Year, sex, and age	Full- and part- time	Full time	Part time		
			Total	Volun- tary	Economic reasons
1989, total	511	430	81	70	11
1990, total	524	445	79	71	8
Male	271	245	26	22	4
Female	253	200	53	49	4
16 to 19 years (both sexes) ..	19	8	11	11	1

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment (annual).

Table 344.-- EMPLOYMENT BY INDUSTRY: 1980 AND 1970

Industry	1980	1970
Employed persons 16 years and over	415,181	285,556
Agriculture, forestry, and fisheries	14,560	13,161
Mining	233	322
Construction	29,888	26,637
Manufacturing	32,914	31,188
Nondurable goods	21,234	21,173
Durable goods	11,680	10,015
Transportation, communications, and other public utilities .	36,478	26,403
Wholesale and retail trade	98,542	61,044
Finance, insurance, and real estate	31,648	14,356
Business and repair services	17,832	8,978
Personal services	31,288	20,301
Entertainment and recreation services	6,862	3,756
Professional and related services	73,363	48,310
Public administration	41,573	31,100

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 345.-- EMPLOYMENT BY CLASS OF WORKER: 1940 TO 1980

[Persons 14 years and over through 1960; 16 years and over, 1970 and 1980]

Class of worker	1940	1950	1960	1970	1980
All employed civilians ...	153,796	167,571	209,370	285,556	415,181
Private wage and salary workers	113,551	111,036	144,602	200,912	300,315
Government workers	18,553	34,400	46,078	70,547	90,401
Self-employed workers	15,967	19,192	17,009	12,832	22,965
Unpaid family workers	5,725	2,943	1,681	1,265	1,500

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.

Table 346.-- OCCUPATION, BY SEX: 1980 AND 1970

Occupation	Both sexes		Females only	
	1980	1970	1980	1970
Employed persons 16 years and over ...	415,181	285,556	189,850	116,616
Managerial and professional specialty occupations	97,606	58,242	42,212	22,565
Executive, administrative, and managerial occupations	48,671	25,048	16,900	6,129
Professional specialty occupations	48,935	33,194	25,312	16,436
Technical, sales, and administrative support occupations	132,651	83,698	89,078	53,113
Technicians and related support occupation	11,982	7,442	4,501	2,027
Sales occupations	47,475	28,227	27,465	15,571
Administrative support occupations, including clerical	73,194	48,029	57,112	35,515
Service occupations	74,149	44,024	41,691	26,766
Private household occupations	1,547	2,131	1,376	2,024
Protective service occupations	7,578	4,304	855	143
Service occupations, except protective and household	65,024	37,589	39,460	24,599
Farming, forestry, and fishing occupations	14,154	12,572	2,785	2,118
Precision production, craft, and repair occupations	48,198	43,484	3,941	2,731
Operators, fabricators, and laborers	48,423	43,536	10,143	9,323
Machine operators, assemblers, and inspectors	14,000	13,589	5,730	5,743
Transportation and material moving occupations	16,430	13,767	1,132	472
Handlers, equipment cleaners, helpers, and laborers	17,993	16,180	3,281	3,108

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.

Table 347.-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX:
ANNUAL AVERAGES, 1990

Occupation	Both sexes	Men	Women
All occupations (number in thousands)	524	271	253
Percent	100.0	100.0	100.0
Managerial and professional specialty:			
Executive, administrative, and managerial	13.4	15.5	11.2
Professional specialty	14.7	13.7	15.8
Technical, sales, and administrative support:			
Technicians and related support	2.2	2.2	2.1
Sales	13.4	10.6	16.4
Administrative support, including clerical	16.2	5.1	28.2
Service occupations	16.1	13.1	19.3
Precision production, craft, and repair	9.8	18.2	.9
Operators, fabricators, and laborers:			
Machine operators, assemblers, and inspectors ..	2.5	2.9	2.1
Transportation and material moving	3.5	6.4	.3
Handlers, equipment cleaners, helpers, and laborers	3.6	5.4	1.8
Farming, forestry, and fishing	4.5	7.0	1.8

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1990 (Bulletin 2381, June 1991), pp. 58-59.

Table 348.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSONS 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY AREAS: 1980

[Residence and labor force status as of April 1; place of work as of preceding week. Includes armed forces. For census tract data, see Data Book 1987, pp. 359-361]

Area	Census tract equivalent	Workers by place of--	
		Residence	Work <u>1/</u>
County total	1.02-114	369,523	356,692
Honolulu CDP	1.02-72, 114	183,677	246,969
Waikiki	18.01-20.02	9,094	30,011
Ala Moana	37	1,326	18,578
Kakaako	38, 39	407	26,696
Central Business District ...	40, 42, 51, 52	3,193	33,478
Iwilei-Kalihi Kai	57-60	6,442	21,571
Airport	68.03-72	5,061	33,714
Other areas	-	158,154	82,921
Rest of Oahu	73-113	185,846	109,723
Ewa	73-89.03	93,223	42,044
Wahiawa	90-95.05	20,475	20,940
Waianae	96.01-98	9,611	4,327
Waialua	99.01-100	4,405	2,031
Koolauloa	101-102.02	5,711	2,214
Koolaupoko	103.02-113	52,409	19,337
Unknown	-	-	18,830

1/ Excludes residents who worked away from the City and County of Honolulu and nonresidents who worked within the area.

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC80-2-183 (1983), table P-9, and Urban Transportation Planning Package, printouts (March 1985).

Table 349.-- PROFESSIONAL FIRMS AND EMPLOYMENT, FOR OAHU AND DOWNTOWN HONOLULU: 1991

Kind of business	Oahu		Downtown Honolulu <u>1/</u>		Percent downtown	
	No. of firms	Employment	No. of firms	Employment	No. of firms	Employment
Total	7,741	39,125	3,559	19,581	46.0	50.0
Accountants, CPAs	457	2,149	239	1,443	52.3	67.1
Attorneys, law firms	2,010	6,048	1,861	5,796	92.6	95.8
Dentists	677	2,132	90	298	13.3	14.0
Engineers	173	2,255	54	689	31.2	30.6
Insurance agencies, co.'s	599	7,414	288	4,280	48.1	57.7
Physicians	1,422	2,789	246	383	17.3	13.7
Real estate companies ...	1,224	11,957	407	4,848	33.3	40.5
All others <u>2/</u>	1,179	4,381	374	1,844	31.7	42.1

1/ Area bounded by River Street, Vineyard Boulevard, Ward Avenue, and Pacific Ocean.

2/ For details, see source.

Source: John Witwer, publisher, Hawaii Business Directory; cited in Downtown Planet, August 19, 1991.

Table 350.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1980 TO 1990

Year	Number of employers, December <u>1</u> / ¹	Average employment	Wages and salaries	
			Total (\$1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1980	19,988	412,281	5,585,489	13,548
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
EXCLUDING GOVERNMENT				
1985	21,939	343,400	5,518,268	16,070
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
PRIVATE NON-AGRICULTURAL				
1985	21,510	332,092	5,344,772	16,094
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

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.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 351.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1990

County or island	Number of employers, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	27,277	532,927	12,340,356	23,156
City and Co. of Honolulu .	19,432	408,303	9,807,337	24,020
Hawaii County	3,313	48,699	967,864	19,874
Kauai County	1,493	24,885	488,604	19,634
Maui County	3,045	51,041	1,076,550	21,092
EXCLUDING GOVERNMENT				
State total	27,271	432,910	9,625,759	22,235
City and Co. of Honolulu .	19,429	325,809	7,562,150	23,210
Hawaii County	3,310	40,306	744,567	18,473
Kauai County	1,490	21,527	398,445	18,509
Maui County	3,042	45,268	920,596	20,337

Source: Hawaii State Department of Labor and Industrial Relations, 1990 Employment and Payrolls in Hawaii (September 1991).

Table 352.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1990

Industry	Number of employers, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
All industries	27,277	532,927	12,340,356	23,156
Government	6	100,017	2,714,597	27,141
Federal	1	34,153	993,434	29,088
State	1	51,484	1,314,575	25,534
County	4	14,380	406,588	28,275
Private	27,271	432,910	9,625,759	22,235
Agriculture, forestry, fisheries ...	624	12,193	239,329	19,628
Sugar	15	3,163	70,570	22,311
Pineapple	5	1,969	41,261	20,955
Other	604	7,061	127,498	18,057
Mining and contract construction ...	2,668	32,712	1,181,887	36,130
Manufacturing	1,013	21,255	515,831	24,269
Sugar mills	12	2,525	59,148	23,425
Pineapple canning	2	1,637	35,816	21,879
Other food processing	208	5,217	105,039	20,134
Other manufacturing	791	11,876	315,827	26,594
Transportation	1,225	31,951	815,371	25,519
Communications	111	7,410	250,786	33,844
Utilities	51	3,001	129,929	43,295
Wholesale trade	2,395	22,693	598,475	26,373
Retail trade	5,732	113,537	1,633,134	14,384
Eating and drinking places	1,971	46,806	519,153	11,092
Other retail trade	3,761	66,731	1,113,982	16,694
Finance, insurance, real estate	3,555	37,107	1,012,784	27,294
Services	9,603	150,719	3,241,019	21,504
Hotels, rooming houses, etc.	228	38,800	720,569	18,571
Health services	2,012	29,431	869,024	29,527
Other services	7,363	82,488	1,651,426	20,020
Nonclassifiable establishments	294	331	7,213	21,792

Source: Hawaii State Department of Labor and Industrial Relations, 1990 Employment and Payrolls in Hawaii (September 1991), pp. 5-6.

Table 353.-- 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: 1980 AND 1990

Class of worker	1980: current dollars	1990		Percent change, 1980-1990	
		Current dollars	1980 dollars <u>1/</u>	Current dollars	1980 dollars <u>1/</u>
All classes ..	13,548	23,156	13,916	70.9	2.7
Federal	21,140	29,088	17,481	37.6	-17.3
State <u>2/</u>	14,198	25,534	15,345	79.8	8.1
County	14,848	28,275	16,992	90.4	14.4
Private	12,697	22,235	13,362	75.1	5.2

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu. The all-items index increased 66.4 percent during this period.

2/ Average for 1980 is understated because of erroneous inclusion of uncovered student workers, omitted in 1990 data.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 354.-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1990

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 ..	27,271	15,039	5,147	3,331	2,251	810	693
Employment	444,871	25,795	34,107	45,218	68,157	55,650	215,944

Source: Hawaii State Department of Labor and Industrial Relations, 1990 Employment and Payrolls in Hawaii (September 1991), p. 19.

Table 355.-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE:
1980 TO 1990

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
1980	13,491	12,695	94.2	88.6	27	37
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

1/ Among 50 States and D.C.

Source: U.S. Bureau of Labor Statistics, Employment and Wages, Annual Averages (annual report), and Release USDL 91-390 (Aug. 8, 1991).

Table 356.--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 357.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES,
1985 TO 1990

Subject	1985	1986	1987	1988	1989	1990
Average weekly earnings (dollars)						
Contract construction	627.32	642.80	679.30	706.10	756.56	778.95
Manufacturing	323.51	344.65	366.42	393.60	414.80	442.90
Food and kindred products ..	303.32	321.40	341.01	362.03	368.34	385.28
Communication and utilities ..	542.15	582.15	608.75	650.62	683.65	694.85
Trade 1/	228.72	231.62	235.95	245.70	259.20	282.94
Wholesale trade	311.04	326.10	328.90	342.88	358.27	381.21
Retail trade 1/	200.95	200.26	206.30	216.04	228.30	251.84
Banking & credit agencies	267.80	291.78	297.11	305.33	321.48	343.49
Hotels	243.42	259.38	265.22	281.22	300.81	318.40
Average weekly hours						
Contract construction	36.6	36.9	38.4	37.8	38.6	38.6
Manufacturing	37.4	38.9	39.4	40.0	40.0	40.3
Food and kindred products ..	36.9	39.1	40.5	41.0	40.3	40.9
Communication and utilities ..	41.8	42.4	42.6	44.2	44.8	44.8
Trade 1/	33.1	32.9	32.5	32.5	32.4	32.9
Wholesale trade	38.4	38.5	38.2	38.7	38.9	39.3
Retail trade 1/	31.3	31.0	30.7	30.6	30.4	30.9
Banking & credit agencies	38.7	38.8	37.8	38.6	38.5	38.9
Hotels	33.3	34.4	33.7	33.8	34.3	34.2
Average hourly earnings (dollars)						
Contract construction	17.14	17.42	17.69	18.68	19.60	20.18
Manufacturing	8.65	8.86	9.30	9.84	10.37	10.99
Food and kindred products ..	8.22	8.22	8.42	8.83	9.14	9.42
Communication and utilities ..	12.97	13.73	14.29	14.72	15.26	15.51
Trade 1/	6.91	7.04	7.26	7.56	8.00	8.60
Wholesale trade	8.10	8.47	8.61	8.86	9.21	9.70
Retail trade 1/	6.42	6.46	6.72	7.06	7.51	8.15
Banking & credit agencies	6.92	7.52	7.86	7.91	8.35	8.83
Hotels	7.31	7.54	7.87	8.32	8.77	9.31

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 1991.

Table 358.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN
PRIVATE INDUSTRY: 1986 TO 1991

[In dollars]

Job classification <u>1/</u>	1986	1987	1988	1989	1990	1991
MONTHLY RATES						
Junior typist	1,084	1,103	1,224	1,279	1,238	1,406
Clerk-stenographer	1,485	1,583	1,581	1,769	1,737	1,849
Secretary	1,461	1,516	1,597	1,680	1,762	1,871
Data entry operator	1,194	1,218	1,254	1,333	1,414	1,435
Bookkeeper, full-charge	1,794	1,865	2,034	1,914	2,108	2,244
Engineering drafting technician	1,891	2,049	2,057	2,216	2,065	2,440
Hospital attendant	1,135	1,171	1,232	1,306	1,376	1,533
Staff nurse	2,159	2,287	2,534	2,746	2,999	3,456
HOURLY RATES						
Housekeeper	6.412	6.714	7.183	7.503	7.856	8.499
Cook, general	8.950	8.747	9.074	9.082	9.603	10.909
Waiter/waitress	3.846	3.866	4.212	4.259	4.409	4.614
Laborer (light)	7.187	7.399	7.521	7.672	7.785	8.229
Carpenter (maintenance)	10.405	10.768	11.156	11.701	12.007	13.817
Electrician (maintenance) ...	12.191	12.486	13.148	13.447	14.300	15.456
Automotive mechanic	10.753	11.154	11.531	11.872	12.486	13.110
Truck driver (1.5-5 tons) ...	8.734	9.783	10.159	10.664	10.397	10.639

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 359.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1991

[In dollars]

Job classification and year <u>1/</u>	State average	Kauai	Oahu	Maui County	Hawaii County
MONTHLY RATES					
Junior typist	1,406	...	1,403	...	...
Clerk-stenographer	1,849	...	1,819	...	...
Secretary	1,871	1,795	1,872	1,958	1,654
Data entry operator	1,435	...	1,438	...	1,290
Bookkeeper, full-charge	2,244	...	2,218	...	...
Engineering drafting technician	2,440	...	2,498	...	2,320
Hospital attendant	1,533	1,565	1,532	1,521	...
Staff nurse	3,456	3,394	3,462	3,280	...
HOURLY RATES					
Housekeeper	8.499	8.543	8.459	8.543	8.439
Cook, general	10.909	11.174	10.314	12.117	12.471
Waiter/waitress	4.614	4.757	4.431	4.973	4.910
Laborer (light)	8.229	8.063	8.235	8.229	8.452
Carpenter (maintenance)	13.817	12.712	13.323	14.304	15.999
Electrician (maintenance)	15.456	...	16.242	13.885	16.523
Automotive mechanic	13.110	11.520	13.947	12.884	12.561
Truck driver (1.5-5 tons)	10.639	...	10.856	10.016	10.522

1/ See preceding table, footnote 1.

Source: Hawaii Employers Council, Pay Rates in Hawaii (Special Publication No. 208, October 1991).

Table 360.-- MONTHLY AND HOURLY WAGE RATES FOR SPECIFIED JOB TITLES:
1990

[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	2,135	3,018
Cannery warehouse worker	Private	Hourly	5.50	7.05
Clerk, data entry	Private	Hourly	8.36	12.29
Engineer, civil	Local govt.	Monthly	2,026	6,034
Host/hostess	Private	Hourly	6.25	7.16
Laborer, general	Private	Hourly	6.40	8.78
Nurse, licensed practical	State govt.	Monthly	1,520	2,197
Police officer	Local govt.	Monthly	2,260	3,255
Professor	State govt.	Monthly	3,588	6,720
Stenographer	Private	Monthly	2,008	2,158

Source: Hawaii State Department of Labor and Industrial Relations, Selected Wage Information for Hawaii 1990 (November 1990).

Table 361.-- CASH COMPENSATION PAID TO EXECUTIVES OF MAJOR CORPORATIONS, 1989, AND LABOR UNION LEADERS, 1990

[\$1,000]

Category	Total	Less than 100	100 to 249	250 to 499	500 to 999	1,000 or more	Highest
Corporate executives ...	30	-	6	16	6	2	1,473
Union leaders	19	15	4	-	-	-	201

Source: Sunday Star-Bulletin & Advertiser, June 3, 1990, pp. B4 and B8, and August 4, 1991, pp. B4 and B10.

Table 362.-- WEEKLY HOURS OF WORK, FOR CIVILIANS AT WORK: ANNUAL AVERAGES, 1980 TO 1990

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			

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 363.-- WEEKLY HOURS OF WORK, FOR CIVILIAN WORKERS: ANNUAL AVERAGES; 1990

Hours of work	Civilian workers (1,000)	Age, sex, or race	Average hours
Total at work	496	Total at work	39.4
		Full-time schedules <u>1/</u> .	46.8
1 to 14 hours	19	Men	41.6
15 to 29 hours	51	Women	36.9
30 to 34 hours	42		
35 to 39 hours	23	Both sexes, 15 to 19 years	26.5
40 hours	246		
41 to 48 hours	33	White	40.1
49 hours and over	82		

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, 1990 (Bulletin 2381, June 1991), pp. 71-74.

Table 364.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1985 TO 1990

Type of job-seeker	1985	1986	1987	1988	1989	1990
Island workers on Mainland <u>1/</u> ..	4,039	3,664	3,805	3,942	3,961	5,275
Mainland workers in Hawaii <u>2/</u> ..	3,993	3,932	3,161	2,974	2,679	2,910
Ratio <u>3/</u>	99	107	83	75	68	55

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, 1990 State of Hawaii Unemployment Insurance Fact Book, 1970 to the Present, Hawaii (June 1990), p. 15, and records.

Table 365.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1989

[Data exclude agricultural employers with fewer than 11 employees]

Subject	Total	Injuries	Illnesses
Recordable cases	37,415	36,625	790
Per 100 full-time workers	11.4	11.2	0.2
Lost workday cases	20,369	19,938	431
Lost workdays	356,480	350,108	6,372
Per lost workday case	18	18	15
Nonfatal cases without lost workdays.	17,026	16,669	357

Source: Hawaii State Department of Labor and Industrial Relations, 1989 Occupational Injuries and Illnesses Survey, State of Hawaii, p. 4.

Table 366.-- WORK INJURIES, DEATHS, TIME LOST, AND
COMPENSATION COSTS: 1984 TO 1989

Year	Reported cases	Reported deaths	Time lost (compensated days)	Compensation costs (\$1,000)
1984 ...	38,755	35	1,307,011	122,454
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

Source: Hawaii State Department of Labor and Industrial Relations, Work Injury Statistics (1984-1988), and Worker's Compensation Data Book 1989.

Table 367.-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1990

Subject	Total	AFL-CIO affiliated	Independent
Unions and associations ...	71	59	12
Membership <u>1/</u>	161,052	142,518	18,534

1/ Data exclude 5 unions and associations not reporting membership.

Source: Hawaii State Department of Labor and Industrial Relations, Directory of Labor Organizations & Affiliates, 1990.

Table 368.-- COLLECTIVE BARGAINING AGREEMENTS: 1986 TO 1991

[Covers collective bargaining agreements subject to wage negotiations]

Year	Number of agreements	Workers covered		Duration over 2 years (percent)	
		Total	Per agreement	Agreements	Workers
1986	138	13,550	98	60.2	44.1
1987	1,375	80,400	58	96.4	42.9
1988	433	16,290	38	88.7	52.5
1989	104	50,950	490	76.9	14.9
1990	194	24,300	125	89.2	95.6
1991	107	23,700	221	80.4	80.4

Source: Helene S. Tanimoto, Duration of Collective Bargaining Agreements in Hawaii, 1991 (University of Hawaii at Manoa, Industrial Relations Center, Occasional Publication No. 167, December 1990).

Table 369.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS BY EMPLOYING JURISDICTION: 1988 TO 1990

[Unless otherwise specified, as of December 31]

Employing jurisdiction	1988	1989	1990
Total	45,172	46,426	49,237
State of Hawaii	19,690	20,680	21,926
City and County of Honolulu	7,822	7,908	8,091
County of Hawaii	1,434	1,482	1,545
County of Maui	1,106	1,205	1,287
County of Kauai	640	649	657
Dept. of Education	10,592	10,440	11,384
University of Hawaii	3,888	4,062	4,347

Source: Hawaii Labor Relations Board, HLRB Information Bulletin, No. 28, February 28, 1991, and earlier issues.

1991

Table 370.-- WORK STOPPAGES: 1985 TO 1990

[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>
1985	9	1,990	32,257
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

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 371.-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS: 1982 TO 1990

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
1986-1990	-	-	-	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 1990 was about \$27 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 1990 was \$22.7 billion, compared with \$10.3 billion only ten years earlier, and per capita personal income was \$20,400, almost twice the 1980 level. The per capita figure for Hawaii was 8.9 percent above 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 1991 at \$15,410. In 1990, one-ninth of all Island residents were below the U.S. poverty level. The most recent family expenditure survey, taken in 1988 and 1989, reported that the largest items in the family budget on Oahu were housing (accounting for 30.7 percent of total spending), food (15.6 percent), and transportation (17.6 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, U.S. Department of Housing and Urban Development, 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: 1991, Section 14.

Table 372.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1970 TO 1990

[In millions of dollars]

Year	Value of production		Defense expenditures	Visitor expenditures <u>2/</u>
	Raw sugar and molasses <u>1/</u>	Fresh and processed pineapple		
1970 ...	187.8	138.6	916.8	595
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

1/ Excludes government sugar support payments.

2/ 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 DBED GSP accounts, cited in present report, table 309; Hawaii Visitors Bureau, estimates cited in present report, tables 198 and 199.

Table 373.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE
PRODUCT: 1958 TO 1990

Year	Gross state product		Per capita gross state product	
	Millions of current dollars	Millions of 1982 dollars	Current dollars	1982 dollars
1958	1,415.0	4,152.3	2,337	6,859
1959	1,572.5	4,632.4	2,528	7,447
1960	1,805.1	5,248.1	2,814	8,181
1961	1,886.5	5,250.0	2,864	7,970
1962	1,965.8	5,471.0	2,876	8,004
1963	2,101.8	5,606.2	3,081	8,217
1964	2,301.3	6,167.5	3,288	8,813
1965	2,530.4	6,714.3	3,595	9,540
1966	2,771.4	7,083.5	3,902	9,972
1967	2,990.0	7,329.4	4,138	10,144
1968	3,344.5	7,932.5	4,554	10,800
1969	3,952.3	8,905.6	5,268	11,871
1970	4,414.0	9,324.6	5,720	12,084
1971	4,773.8	9,806.5	5,955	12,233
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	12,619	14,131
1981	13,078.3	14,022.5	13,343	14,306
1982	13,691.0	13,691.0	13,725	13,725
1983	14,811.8	14,210.0	14,541	13,950
1984	15,826.5	14,637.0	15,276	14,128
1985	16,874.9	15,107.3	16,229	14,529
1986	18,115.5	15,807.6	17,222	15,560
1987	19,717.4	16,458.6	18,450	15,410
1988	21,803.2	17,512.6	20,188	16,216
1989	24,300.1	18,578.1	22,200	16,973
1990	26,945.3	19,525.6	24,314	17,619

Source follows table 379.

Table 374.-- 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 <u>1/</u>	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 379.

Table 375.-- 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 ...	10,066	.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: New Estimates for 1987-89 and Revised Estimates for 1977-86," Release BEA 91-51 (November 26, 1991), and BEA diskette tabulated by DBED.

Table 376.-- 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 379.

Table 377.-- 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 379.

Table 378.-- 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 ^{1/}	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 379.

Table 379.-- 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 380.-- TOTAL AND PER CAPITA PERSONAL INCOME AND
DISPOSABLE PERSONAL INCOME: 1960 TO 1990

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 ...	3,277	2,747	4,411	3,698	116	114
1970 ...	3,772	3,191	4,944	4,182	122	120
1971 ...	4,060	3,478	5,129	4,394	119	118
1972 ...	4,473	3,780	5,468	4,620	117	116
1973 ...	4,967	4,204	5,901	4,993	114	112
1974 ...	5,702	4,861	6,645	5,665	118	117
1975 ...	6,159	5,374	7,038	6,141	116	116
1976 ...	6,670	5,783	7,474	6,480	112	113
1977 ...	7,210	6,213	7,873	6,784	108	108
1978 ...	8,043	6,898	8,660	7,427	106	107
1979 ...	9,031	7,711	9,506	8,116	105	106
1980 ...	10,279	8,776	10,617	9,065	107	108
1981 ...	11,051	9,418	11,298	9,628	103	104
1982 ...	11,732	10,213	11,805	10,277	103	106
1983 ...	12,875	11,100	12,713	10,960	105	106
1984 ...	13,628	11,886	13,257	11,562	101	102
1985 ...	14,589	12,606	14,030	12,123	101	102
1986 ...	15,607	13,527	14,837	12,860	101	103
1987 ...	16,798	14,348	15,727	13,433	102	102
1988 ...	18,376	15,588	17,015	14,434	103	102
1989 ...	20,417	16,979	18,652	15,512	105	103
1990 ...	22,663	19,040	20,356	17,102	109	108

Source: U.S. Department of Commerce, Bureau of Economic
Analysis, printouts.

Table 381.-- PERSONAL INCOME BY MAJOR SOURCES: 1985 TO 1990

[In millions of dollars. Revised from Data Book 1990, table 392]

Item	1985	1986	1987	1988	1989	1990
Labor and proprietors income						
By type:						
Wage and salary disbursements .	9,184	9,778	10,691	11,772	13,020	14,395
Other labor income	759	852	909	985	1,106	1,217
Proprietors income	1,062	1,203	1,273	1,360	1,480	1,596
Farm	108	154	97	107	93	97
Nonfarm	954	1,049	1,176	1,253	1,387	1,499
By industry:						
Farm	258	305	255	267	256	267
Nonfarm	10,746	11,528	12,618	13,850	15,350	16,941
Private	7,314	8,005	8,951	9,940	11,198	12,553
Government and government enterprises	3,432	3,522	3,667	3,910	4,152	4,388
Federal, civilian	967	950	992	1,042	1,086	1,108
Federal military	1,274	1,295	1,326	1,370	1,408	1,430
State and local	1,192	1,278	1,349	1,499	1,657	1,851
Derivation of personal income						
Labor and proprietors income	11,005	11,833	12,873	14,117	15,606	17,208
Less: Personal contributions for social insurance	678	728	766	879	1,000	1,108
Net labor and proprietors income	10,327	11,105	12,107	13,238	14,606	16,100
Plus: Dividends, interest, and rent	2,189	2,308	2,395	2,669	3,139	3,409
Plus: Transfer payments	2,073	2,194	2,296	2,469	2,672	3,154
Personal income	14,589	15,607	16,798	18,376	20,417	22,663

Source: U.S. Department of Commerce, Bureau of Economic Analysis, diskettes dated September 6, 1991.

Table 382.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES:
1979 TO 1989

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
TOTAL (MIL. DOL.)						
1979	9,030.9	7,395.5	1,635.4	724.4	313.0	598.0
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	16,798.0	13,486.0	3,312.0	1,417.0	612.0	1,283.0
1988	18,412.0	14,713.0	3,699.0	1,575.0	693.0	1,431.0
1989	20,477.0	16,251.0	4,227.0	1,800.0	790.0	1,638.0
PER CAPITA (DOLLARS)						
1979	9,506	9,816	8,318	8,133	8,234	8,600
1980	10,617	10,854	9,729	9,682	9,499	9,916
1981	11,275	11,765	9,496	9,232	9,308	9,944
1982	11,760	12,292	9,869	9,472	9,703	10,477
1983	12,640	13,107	10,995	10,526	10,764	11,724
1984	13,154	13,805	10,930	10,438	10,691	11,688
1985	13,874	14,568	11,535	10,851	11,365	12,502
1986	14,674	15,306	12,557	11,830	12,254	13,647
1987	15,525	16,268	13,092	12,345	12,776	14,210
1988	16,765	17,548	14,240	13,410	14,051	15,390
1989	18,379	19,171	15,858	14,969	15,585	17,121

Source: U.S. Department of Commerce, Bureau of Economic Analysis, diskettes dated May 1991.

Table 383.-- PER CAPITA PERSONAL INCOME IN CURRENT AND CONSTANT DOLLARS
FOR THE UNITED STATES AND HAWAII: 1980 AND 1990

Subject	United States	Hawaii
Per capita personal income (current dollars):		
1980	9,919	10,617
1990	18,691	20,356
Per capita personal income (1982-1984 dollars):		
1980	12,038	12,792
1990	14,301	14,740
Percent of U.S. average:		
1980	100.0	107.0
1990	100.0	108.9
Percent increase, 1980-1990:		
Current dollars	88.4	91.7
Constant dollars	18.8	15.2
Rank (50 States and D.C.):		
1980	(X)	13
1990	(X)	11
Consumer price index (1982-1984=100): <u>1/</u>		
1980	82.4	83.0
1990	130.7	138.1

X Not applicable.

1/ Hawaii index is for Honolulu MSA.

Source: U.S. Department of Commerce, Bureau of Economic Analysis.

Table 384.-- PER CAPITA PERSONAL INCOME, MEDIAN FAMILY INCOME, AND AVERAGE WAGE AND SALARY EARNINGS, IN CURRENT AND CONSTANT DOLLARS: 1939 TO 1990

[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
1988 ...	17,015	13,981	39,609	32,546	19,480	16,007	121.7
1989 ...	18,652	14,493	(NA)	(NA)	20,711	16,092	128.7
1990 ...	20,356	14,740	(NA)	(NA)	22,311	16,156	138.1

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; 1959-1990 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 1949-1979 and Current Population Survey tabulations for 1988, cited in present volume, table 385.

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; 1988-1990 in present volume, table 350.

4/ Honolulu consumer price index for all urban consumers, reported in present volume, table 399. 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 385.-- 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. Data for 1980-1990 are taken from small samples and are subject to considerable sampling variation]

Year	Households	Families	Unrelated individuals with income <u>1/</u>	Persons with income <u>1/</u>	
				Male	Female
1949	(NA)	3,568	1,583	2,340	1,247
1959	(NA)	6,366	1,998	3,753	1,796
1969	10,675	11,664	2,981	6,528	3,222
1975	15,991	17,770	6,180	9,489	4,082
1979	20,473	22,750	7,097	11,505	6,581
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>2/</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/ 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.

Table 386.-- INCOME OF HOUSEHOLDS AND FAMILIES: ANNUAL AVERAGES,
1983 TO 1985 AND 1986 TO 1988

[Data refer to income before taxes, as reported in March survey in following year. Based on a pooled sample of 1,630 households for 1983-1985 and 1,540 households for 1986-1988]

Income	Households		Families	
	1983-1985	1986-1988	1983-1985	1986-1988
Total	329,037	361,986	251,104	273,083
Under \$5,000	18,491	16,493	7,814	5,738
\$5,000 to \$7,499	14,111	15,955	6,956	8,383
\$7,500 to \$9,999	16,725	11,214	9,835	5,226
\$10,000 to \$14,999	33,889	28,305	23,437	16,717
\$15,000 to \$19,999	33,753	34,126	22,420	22,763
\$20,000 to \$24,999	29,325	33,131	23,607	21,540
\$25,000 to \$34,999	56,217	55,585	47,015	44,566
\$35,000 to \$49,999	63,739	69,688	55,717	58,328
\$50,000 to \$74,999	45,519	67,091	39,168	62,133
\$75,000 and over	17,268	30,398	15,135	27,689
Median income (dollars)	28,094	32,278	31,713	37,866

Source: U.S. Bureau of the Census for U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1984 to 1989; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 387.-- MEDIAN FAMILY INCOME AND RANK: 1979 AND 1990

[Data refer to calendar year 1979 and fiscal year 1990]

Year	The State			Oahu (dollars)	Neighbor Islands (dollars)
	Amount (dollars)	Percent of U.S.	Rank <u>1/</u>		
1979	22,751	114.2	5	23,553	20,607
1990	39,800	114.8	8	41,200	34,500

1/ Among 50 States.

Source: U.S. Department of Housing and Urban Development,
"Estimated Median Family Incomes for Fiscal Year 1990," memorandum
dated February 1, 1990.

Table 388.-- ESTIMATED DECILE DISTRIBUTIONS OF FAMILY INCOMES,
BY COUNTIES: 1979 AND 1991

[Data refer to calendar year 1979 and fiscal year 1991. HUD has not provided
1991 statewide estimates comparable to these county figures]

County	1st decile		5th decile (median)		9th decile	
	1979	1991	1979	1991	1979	1991
Honolulu	7,569	14,043	23,553	43,700	49,866	92,520
Hawaii	5,975	10,337	19,131	33,100	42,778	74,013
Kauai	7,089	12,289	20,881	36,200	42,150	73,072
Maui	7,216	12,496	22,578	39,100	48,653	84,256

Source: U.S. Department of Housing and Urban Development, Office of
Economic Affairs, Economic and Market Analysis Division, estimates dated
January 28, 1991.

Table 389.-- INCOME AND POVERTY STATUS IN PREVIOUS YEAR: 1980 AND 1990

Subject	1980	1990
INCOME IN PREVIOUS YEAR		
Households	294,934	356,267
Median income (current dollars)	\$20,473	(NA)
Families	227,974	263,456
Median income (current dollars)	\$22,750	(NA)
Unrelated individuals 15 years and over	136,692	(NA)
Median income (current dollars)	\$7,097	(NA)
Male, 15 years and over	378,942	441,420
Without income	29,106	(NA)
With income	349,836	(NA)
Median income (current dollars)	\$11,505	(NA)
Female, 15 years and over	360,707	428,783
Without income	78,115	(NA)
With income	282,592	(NA)
Median income (current dollars)	\$6,581	(NA)
INCOME BELOW POVERTY LEVEL <u>1/</u>		
Persons	91,618	(NA)
65 years and over	7,654	(NA)
In families	66,843	(NA)
Householder	17,700	(NA)
Female householder, no husband present	7,985	(NA)
Related child under 18 years	35,103	(NA)
Related child under 6 years	14,725	(NA)
Other relatives	14,040	(NA)
Unrelated individuals	24,775	(NA)
65 years and over	4,927	(NA)

NA Not available.

1/ Data are based on U.S. poverty thresholds. Thresholds in Hawaii are about 15 percent higher; these statistics accordingly understate the number of persons in Hawaii below the poverty level.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-13C (July 1983), table 61, and 1990 Summary Tape File 1A.

Table 390.-- POVERTY STATUS IN 1979 OF FAMILIES AND PERSONS: 1980

[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 1979 of families and persons surveyed in April 1980]

Subject	Number
ALL INCOME LEVELS IN 1979	
Families	227,974
Unrelated individuals	107,787
Persons	927,032
INCOME IN 1979 BELOW POVERTY LEVEL	
Families	17,700
Percent below poverty level	7.8
Unrelated individuals	24,775
Percent below poverty level	23.0
Persons	91,618
Percent below poverty level	9.9
INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL	
Families	26,815
Percent below poverty level	11.8
Unrelated individuals	30,725
Percent below poverty level	28.5
Persons	133,214
Percent below poverty level	14.4
INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL	
Percent of persons:	
Below 75 percent of poverty level	6.1
Below 150 percent of poverty level	19.0
Below 200 percent of poverty level	29.0

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 72.

Table 391.-- 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). Data for 1980-1990 are taken from small samples and are subject to considerable sampling variation]

Year	Number	Percent	Year	Number	Percent
1969	68,543	9.3	1984	92,000	9.3
1975	67,000	7.9	1985	109,000	10.7
1979	91,618	9.9	1986	109,000	10.7
			1987	95,000	8.8
1980	81,000	8.5	1988	117,000	11.1
1981	108,000	11.3	1989	122,000	11.3
1982	132,000	13.2	1990 <u>1/</u>	121,000	11.0
1983	135,000	13.4			

1/ 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.

Table 392.-- POVERTY INCOME GUIDELINES: 1980, 1990 AND 1991

[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 April 21, 1980 <u>1/</u>	Effective Feb. 16, 1990 <u>2/</u>	Effective Feb. 20, 1991 <u>2/</u>
1	4,370	7,230	7,610
2	5,770	9,690	10,210
3	7,170	12,150	12,810
4	8,570	14,610	<u>3/</u> 15,410
5	9,970	17,070	18,010
6	11,370	19,530	20,610
7	12,770	21,990	23,210
8	14,170	24,450	<u>4/</u> 25,810

1/ Nonfarm families only; guidelines for farm families were lower.

2/ All families.

3/ Corresponding levels for four-person families elsewhere in the United States were \$13,400 on the Mainland and \$16,750 in Alaska.

4/ For larger families, add \$2,600 for each additional member.

Source: Community Services Administration, "General Characteristics of Community Action Programs; Income Poverty Guidelines (Revised)," Federal Register, Vol. 45, No. 78 (April 21, 1980), pp. 26712-26713; 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, and "Annual Update of the HHS Poverty Income Guidelines," Federal Register, Vol. 56, No. 34 (February 20, 1991), pp. 6859-6861.

Table 393.-- ANNUAL INCOME AND EXPENDITURES OF URBAN CONSUMER UNITS,
FOR OAHU: 1982-83 TO 1988-89

[Data based on 928 sample interviews in 1982-83, 1,043 in 1984-85, 1,214 in 1986-87, and 1,071 in 1988-89. For detailed breakdowns, see sources]

Item	Annual averages (dollars)			
	1982-83	1984-85	1986-87	1988-89
Total expenditures	22,247	24,818	28,239	33,425
Food at home	2,838	2,994	2,600	2,814
Food away from home	1,265	1,350	2,195	2,414
Alcoholic beverages	460	413	351	388
Housing	6,122	6,934	8,610	10,266
Shelter	3,948	4,735	5,800	6,869
Utilities, fuels, and public services	1,142	1,144	1,099	1,259
Household operations	280	311	324	375
Housekeeping supplies .....	...	...	390	432
Housefurnishings and equipment	751	745	996	1,331
Apparel and services	1,080	1,158	1,688	1,740
Transportation	4,051	4,681	4,244	5,893
Health care	770	987	1,026	1,469
Entertainment	1,101	1,170	1,466	1,534
Personal care products and services	232	243	413	480
Reading	159	176	169	186
Education	380	454	665	710
Tobacco products and smoking supplies ..	177	214	208	251
Miscellaneous	482	480	603	792
Cash contributions	923	1,191	785	937
Personal insurance and pensions	2,204	2,391	3,217	3,550
Money income before taxes	27,937	30,751	32,575	39,733
Personal taxes	3,595	2,965	2,907	5,587
Net change in total assets	(NA)	(NA)	1,196	16,394
Net change in total liabilities	(NA)	(NA)	5,077	19,686
Other money receipts	227	579	1,313	201
Mortgage principal paid on owned property	635	490	509	616
Gifts of goods and services	690	700	918	1,339

NA Not available.

Source: U.S. Bureau of Labor Statistics, Consumer Expenditure Survey: Interview, 1984, Bulletin 2267 (August 1986), pp. 83-86; 1984-85, 1986-87, and 1988-89 printouts.

Table 394.-- 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			AVG. = =
		Total assets	Debts and mortgages	Net worth	
Gross estate over \$60,000:					
1962	11,323	1,908	231	1,677	148,105
1969	36,470	6,327	1,090	5,236	143,570
1972	53,700	7,866	1,369	6,497	120,987
Gross estate over \$120,000:					
1976	39,000	7,436	1,546	5,890	151,026
Gross estate over \$325,000:					
1982	20,300	14,767	3,523	11,244	553,892
Gross estate over \$500,000:					
1982	8,700	10,864	2,919	7,946	913,333
1986	11,000	11,330	1,475	9,855	895,909

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 395.-- 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 396.-- WORTH OF RICHEST RESIDENTS: 1991

Name	Age (years)	Net worth (million dollars)
Barbara Cox Anthony	68	2,000
Doris Duke ^{1/}	78	750
Campbell family .....	...	675
Ward family .....	...	500
Kelley family .....	...	400
Richard Palmer Kaleioku Smart	78	300

^{1/} Also a resident of New Jersey and Rhode Island.

Source: "The Richest People in America," Forbes, October 21, 1991, pp. 145-317.

Table 397.-- 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.

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 the first six months of 1991, the Honolulu all-items consumer price index for all urban consumers (CPI-U) averaged 146.8, with the 1982-1984 level equal to 100. The index had increased 8.3 percent over the first half of 1990, 34.8 percent since 1986, and 60.1 percent since 1981. Prices have risen most rapidly since the 1982-84 base period for shelter (67.6 percent) and medical care (68.0 percent) and have dropped most rapidly for electricity (13.5 percent). The implicit price deflator for expenditures on gross state product (a measure of price changes used in the state product accounts) rose 54.8 percent between 1980 and 1990.

An "intermediate" budget for a four-person family living on Oahu was unofficially estimated at \$52,139 as of 1990. This family budget was 34.1 percent higher than the corresponding urban United States average. Differences were particularly marked for renter shelter costs (53.7 percent higher) and personal income taxes (75.7 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) added Hilo to its list of participating cities for comparative living cost surveys the same year. 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: 1991, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 398.-- IMPLICIT PRICE DEFLATOR FOR EXPENDITURES ON GROSS STATE PRODUCT: SELECTED YEARS, 1958 TO 1990

[1982 = 100]

Year	Deflator	Year	Deflator	Year	Deflator
1958 ...	34.1	1978 ...	77.1	1985 ...	111.7
1960 ...	34.4	1979 ...	84.0	1986 ...	114.6
1965 ...	37.7	1980 ...	89.3	1987 ...	119.8
1970 ...	47.3	1981 ...	93.3	1988 ...	124.5
1975 ...	63.9	1982 ...	100.0	1989 ...	130.8
1976 ...	67.5	1983 ...	104.2	1990 ...	138.0
1977 ...	71.0	1984 ...	108.1		

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 Quarterly Statistical & Economic Report, 1st Quarter 1991, p. 6.

Table 399.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: ANNUAL AVERAGES, 1940 TO 1990

[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			
1966	35.3	34.8			

Source: 1964-1990 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 by Hawaii State Data Center.

Table 400.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1991

[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 ...	...	146.8	...	...	147.7	...

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), BLS tapes tabulated by Hawaii State Data Center, and BLS press releases.

Table 401.-- PERCENT CHANGE IN SELECTED PRICE INDEXES: 1980 TO 1990

Index <u>1/</u>	1980 to 1990	1980 to 1985	1985 to 1990	1986 to 1987	1987 to 1988	1988 to 1989	1989 to 1990
Hawaii GSP deflator	54.5	25.1	23.5	4.5	3.9	5.1	5.5
Honolulu CPI-U	66.4	28.7	29.3	5.0	5.9	5.8	7.3
Honolulu CPI-W	69.6	31.7	28.7	5.1	6.0	5.6	7.1
U.S. CPI-U	58.6	30.6	21.5	3.7	4.1	4.8	5.4

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 398 and 399.

Table 402.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1986 TO 1990

[Unless otherwise specified, 1982-1984 average=100]

Group	1986	1987	1988	1989	1990
All items	109.4	114.9	121.7	128.7	138.1
Food and beverages	110.0	114.1	120.3	128.1	137.8
Food	109.9	114.3	120.2	128.2	138.3
Food at home	109.0	113.4	120.0	131.5	145.0
Cereals and bakery products	112.8	117.2	127.0	139.3	151.7
Meats, poultry, fish, and eggs ...	104.3	108.5	119.1	133.1	147.2
Meats, poultry, and fish	104.3	107.9	119.1	133.9	148.0
Dairy products	105.0	105.9	106.5	115.5	121.9
Fruits and vegetables	112.3	116.5	122.3	142.2	167.4
Other foods at home	113.2	119.4	122.2	123.0	128.8
Food away from home	111.4	115.6	121.0	122.2	128.0
Alcoholic beverages	111.1	111.4	121.0	126.5	131.0
Housing	108.4	115.0	123.0	131.1	141.5
Shelter	113.9	122.1	132.1	141.1	154.5
Renters' costs <u>1/</u>	121.1	127.3	133.9	143.4	158.1
Rent, residential	116.9	122.3	129.4	139.3	152.2
Other renters' costs	122.5	129.7	131.7	136.3	158.6
Homeowners' costs <u>1/</u>	115.7	124.9	136.5	147.7	160.7
Owners' equivalent rent <u>1/</u>	115.8	125.0	136.8	148.1	161.4
Fuel and other utilities	87.6	88.8	87.3	90.9	98.0
Fuels	75.2	77.8	72.6	75.7	84.1
Gas (piped) and electricity	74.9	77.4	72.1	75.1	83.6
Electricity	73.3	76.0	70.4	73.7	82.3
Utility (piped) gas	88.2	87.6	86.5	85.9	91.4
Household furnishings and operation ..	104.7	108.8	117.3	125.8	126.8
Apparel and upkeep	99.8	102.5	106.8	104.3	107.0
Apparel commodities	98.5	101.2	105.4	102.4	104.3
Men's and boys' apparel	106.8	114.7	121.2	123.8	118.6
Women's and girls' apparel	102.0	100.3	105.3	97.1	99.4
Footwear	100.8	100.4	101.2	93.0	98.2
Transportation	105.2	109.7	116.1	123.9	131.1
Private transportation	105.4	109.7	116.4	124.3	130.8
Motor fuel	88.5	90.9	95.4	101.1	108.6
Gasoline	88.5	91.0	95.3	100.7	109.1
Public transportation	103.8	109.1	112.9	119.4	132.7
Medical care	122.3	127.9	132.5	139.3	154.2
Entertainment	113.2	118.6	122.9	124.3	128.4
Other goods and services	119.6	129.7	137.1	146.1	160.4
Personal care	107.3	112.6	115.8	122.1	136.6

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Table 402.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1986 TO 1990 -- Con.

Group	1986	1987	1988	1989	1990
All items	109.4	114.9	121.7	128.7	138.1
Commodities	106.2	109.6	115.5	121.6	128.1
Food and beverages	110.0	114.1	120.3	128.1	137.8
Commodities less food and beverages ..	103.1	106.0	111.8	116.4	120.2
Nondurables less food and beverages	102.5	105.5	110.1	113.8	120.8
Durables	104.5	107.2	114.9	121.0	119.7
Services	112.3	119.8	127.4	135.2	147.2
Medical care services	122.1	128.1	132.4	139.2	155.3
Special indexes:					
All items less shelter	107.7	112.2	117.7	124.0	131.7
All items less medical care	108.6	114.1	121.0	128.0	137.1
All items less energy	112.0	118.1	125.5	132.7	142.3
Energy	82.3	84.8	84.7	89.2	97.1
Commodities less food	103.5	106.2	112.1	116.8	120.7
Nondurables less food	103.0	105.8	110.7	114.6	121.3
Nondurables	106.6	110.2	115.7	121.7	130.3
Services less rent of shelter ^{1/}	112.6	119.0	123.8	130.2	140.5
Services less medical care	111.2	118.8	126.6	134.5	146.1

^{1/} December 1982=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), printouts, and tapes tabulated by Hawaii State Data Center.

Table 403.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1986 TO 1990

[Unless otherwise specified, 1982-1984 average=100]

Group	1986	1987	1988	1989	1990
All items	110.3	115.9	122.8	129.7	138.9
Food and beverages	110.8	115.3	121.7	129.2	138.6
Food	110.8	115.6	121.7	129.3	139.1
Food at home	110.1	114.9	121.9	133.1	146.2
Cereals and bakery products	111.7	115.7	125.4	137.7	149.9
Meats, poultry, fish, and eggs ...	107.6	112.9	124.3	138.4	153.2
Meats, poultry, and fish	107.8	112.4	124.6	139.5	154.5
Dairy products	104.9	105.5	106.5	114.6	120.5
Fruits and vegetables	112.3	117.9	123.0	140.8	162.9
Other foods at home	113.3	119.0	122.0	123.2	129.0
Food away from home	111.8	116.1	121.4	122.6	128.5
Alcoholic beverages	111.3	111.1	121.4	126.6	131.5
Housing	111.0	117.4	125.5	133.7	144.3
Shelter	117.7	126.0	136.3	145.6	159.4
Renters' costs <u>1/</u>	108.2	113.2	119.3	127.9	140.6
Rent, residential	116.9	122.3	129.4	139.3	152.2
Other renters' costs	122.8	128.8	130.7	135.2	157.2
Homeowners' costs <u>1/</u>	108.4	116.9	127.9	138.3	150.6
Owners' equivalent rent <u>1/</u>	108.4	117.0	128.1	138.7	151.1
Fuel and other utilities	87.6	88.7	87.4	91.1	98.1
Fuels	75.3	77.7	72.7	75.6	84.0
Gas (piped) and electricity	75.1	77.5	72.4	75.2	83.6
Electricity	73.3	76.0	70.4	73.7	82.3
Utility (piped) gas	88.3	87.6	86.5	85.9	91.4
Household furnishings and operation ..	105.6	109.7	118.7	126.5	127.5
Apparel and upkeep	100.1	103.7	108.2	105.2	108.1
Apparel commodities	98.7	102.3	106.9	103.5	105.5
Men's and boys' apparel	107.6	116.6	123.5	126.1	121.1
Women's and girls' apparel	103.1	101.8	107.1	98.0	100.9
Footwear	100.8	100.4	101.4	93.5	98.5
Transportation	104.7	109.2	115.7	123.7	130.2
Private transportation	104.8	108.8	115.5	123.8	129.8
Motor fuel	88.5	90.9	95.4	101.1	108.6
Gasoline	88.5	91.0	95.3	100.7	109.1
Public transportation	103.6	110.2	113.6	119.3	131.0
Medical care	121.1	126.7	131.4	138.3	153.3
Entertainment	113.1	119.3	123.6	123.5	127.9
Other goods and services	119.1	128.7	136.4	146.3	161.9
Personal care	107.5	112.7	115.7	121.9	136.3

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Table 403.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS (CPI-W), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1986 TO 1990 -- Con.

Group	1986	1987	1988	1989	1990
All items	110.3	115.9	122.8	129.7	138.9
Commodities	107.0	110.7	116.8	122.8	129.2
Food and beverages	110.8	115.3	121.7	129.2	138.6
Commodities less food and beverages ..	104.5	107.4	113.3	118.1	122.2
Nondurables less food and beverages	102.2	105.4	110.1	113.8	121.2
Durables	107.4	110.0	117.8	124.3	123.2
Services	114.3	121.9	129.5	137.5	149.6
Medical care services	120.7	126.9	131.3	138.2	154.6
Special indexes:					
All items less shelter	107.8	112.4	118.2	124.2	131.9
All items less medical care	109.6	115.2	122.2	129.1	138.1
All items less energy	113.3	119.3	126.9	134.0	143.5
Energy	83.0	85.4	85.7	90.3	98.1
Commodities less food	104.7	107.5	113.6	118.4	122.6
Nondurables less food	102.8	105.7	110.8	114.7	121.8
Nondurables	107.1	111.0	116.7	122.5	131.0
Services less rent of shelter ^{1/}	104.1	110.5	115.0	121.0	130.5
Services less medical care	113.5	121.2	129.1	137.1	148.9

^{1/} December 1984=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly), printouts, and tapes tabulated by Hawaii State Data Center.

Table 404.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER
PRICE INDEX FOR HONOLULU: DECEMBER 1990

[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	20.378	21.555
Food	19.015	19.931
Food at home	12.643	12.833
Cereals and bakery products	1.728	1.981
Meats, poultry, fish, and eggs	4.432	4.773
Meats, poultry, and fish	4.189	4.466
Dairy products .....	.955	.904
Fruits and vegetables	2.882	2.683
Other foods at home	2.646	2.493
Food away from home	6.372	7.098
Alcoholic beverages	1.362	1.624
Housing	42.219	39.390
Shelter	31.612	29.134
Renters' costs	9.246	9.314
Rent, residential	7.852	8.358
Other renters' costs	1.393	.956
Homeowners' costs	22.183	19.654
Owners' equivalent rent	21.985	19.514
Fuel and other utilities	4.542	4.847
Fuels	2.375	2.507
Fuel oil, coal, and bottled gas .....	.022	.028
Fuel oil .....	.001	.005
Other fuels .....	.021	.023
Gas (piped) and electricity	2.353	2.479
Electricity	2.151	2.188
Utility (piped) gas .....	.202	.292
Household furnishings and operations	6.065	5.409
Apparel and upkeep	4.837	5.102
Apparel commodities	4.499	4.749
Men's and boys'	1.188	1.318
Women's and girls'	1.956	2.046
Footwear .....	.607	.670

Table 404.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER
PRICE INDEX FOR HONOLULU: DECEMBER 1990 -- Con.

Group	CPI-U <u>1/</u>	CPI-W <u>2/</u>
EXPENDITURE CATEGORY -- Con.		
Transportation	16.914	18.902
Private	14.860	17.364
Motor fuel	3.201	3.901
Public	2.054	1.537
Medical care	5.143	4.884
Entertainment	4.301	4.146
Other goods and services	6.209	6.021
Personal care	1.273	1.387
COMMODITY AND SERVICE GROUP		
All items	100.000	100.000
Commodities	42.487	46.106
Food and beverages	20.378	21.555
Commodities less food and beverages	22.109	24.552
Nondurables less food and beverages	13.918	15.298
Durables	8.191	9.254
Services	57.513	53.894
Medical care services	4.237	3.953
Special indexes:		
All items less shelter	68.388	70.866
All items less medical care	94.857	95.116
All items less energy	94.424	93.592
Energy	5.576	6.408
Commodities less food	23.472	26.175
Nondurables less food	15.281	16.922
Nondurables	34.296	36.853
Services less rent of shelter	26.295	25.078
Services less medical care	53.276	49.941

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 405.-- 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	2nd qtr. 1991	2nd qtr. 1990	2nd qtr. 1991
Composite index	100	100	132.5	138.3
Grocery items	17	13	140.7	144.5
Housing	22	28	162.3	180.1
Utilities	11	9	102.0	116.5
Transportation	13	10	127.2	131.7
Health care	7	5	110.7	129.6
Miscellaneous goods and services	30	35	124.6	117.1

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 406.-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON FAMILY ON OAHU: 1971 TO 1990

Year	Dollars	Percent of urban U.S.	Year	Dollars	Percent of urban U.S.
1971	13,108	119.5	1981	31,893	125.5
1972	13,617	119.0	1982	33,403	124.5
1973	14,937	118.3	1983	33,890	124.3
1974	17,019	118.8	1984	35,484	124.4
1975	18,107	117.0	1985	36,926	122.7
1976	19,036	117.2	1986	38,437	123.2
1977	20,883	122.1	1987	41,790	126.7
1978	23,099	124.0	1988	44,414	129.2
1979	25,799	125.7	1989	47,950	130.7
1980	28,488	123.1	1990	52,139	134.1

Source: U.S. Bureau of Labor Statistics, annual releases for 1971-1981; 1982-1990 estimates by Paul Brewbaker, Economics Department, Bank of Hawaii.

Table 407.-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY IN THE UNITED STATES AND ON OAHU: 1981 AND 1990

[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	1990	1981	1990	1981	1990
Total budget	25,409	38,884	31,893	52,139	125.5	134.1
Consumption	18,242	27,122	21,530	33,767	118.0	124.5
Food	5,843	8,221	7,626	11,594	130.5	141.0
Food at home	4,866	6,784	6,649	10,181	136.6	150.1
Food away from home.....	977	1,434	977	1,413	100.0	98.5
Housing	5,547	8,219	6,493	10,605	117.1	129.0
Homeowner shelter costs ..	4,886	7,548	5,467	9,416	111.9	124.7
Renter shelter costs	2,732	4,312	3,991	6,628	146.1	153.7
Housefurnishings and operations	1,199	1,480	1,395	1,885	116.3	127.4
Transportation	2,372	3,068	2,421	3,317	102.1	108.1
Clothing	1,333	1,737	1,432	1,621	107.4	93.3
Personal care	508	741	590	921	116.1	124.3
Medical care	1,443	2,834	1,590	2,997	110.2	105.8
Other family consumption 1/	1,196	2,302	1,378	2,712	115.2	117.8
Other items 2/	1,021	1,468	1,137	1,714	113.6	116.8
Social Security payments	1,703	3,186	2,049	4,165	120.3	130.7
Personal income taxes	4,443	7,109	7,177	12,493	161.5	175.7

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); 1990 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).

Table 408.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C., BY COUNTIES: 1990

Allowance category <u>1/</u>	City and Co. of Honolulu	Kauai County	Maui County	Hawaii County
INDEXES <u>2/</u>				
"Part 1" methodology:				
Local pricing	120.39	116.08	119.58	104.86
Exchange and commissary ...	115.00	...	...	...
"Part 2" methodology:				
Local pricing	119.45	114.90	118.31	104.36
Exchange and commissary ...	114.34	...	...	...
ALLOWANCE RATES <u>3/</u>				
Local retail	22.5	17.5	20.0	15.0
Commissary, PX	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, PX," 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.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances," Federal Personnel Manual System, FPM Letter 591-51 (1990), and "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.

Table 409.-- 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 410.-- EXPENDITURES ON A CHILD FROM BIRTH TO AGE 18: 1990

[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	<29,900	91,590	5,088
Middle income level	29,900-48,300	124,530	6,918
Higher income level	>48,300	171,180	9,510

Source: U.S. Department of Agriculture, Family Economics Review,
Vol. 4, No. 1, March 1991; pp. 32-34.

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 199 locations, six savings and loan associations with 146 locations, four trust companies with seven branches, and 46 industrial loan or small loan licensees with 186 branch offices in Hawaii as of December 31, 1990. Deposits in all financial institutions reached \$21.4 billion at the end of 1989, compared with \$8.2 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 130 credit unions with combined assets of \$2.5 billion at the end of 1990.

Approximately 256,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1985.

Life insurance in force in Hawaii at the end of 1989 amounted to \$35 billion, more than twice the figure reported ten years earlier. For all 807 insurance companies doing business in the Islands, Hawaii premiums amounted to \$1.6 billion in 1989 and losses, claims, and benefits paid came to \$843 million. Fire losses in fiscal 1990 amounted to \$25 million. Persons covered by the three major prepaid health insurance plans as of December 31, 1990 numbered 810,000, with annual membership dues of \$848 million.

By mid-1991, about 47,000 corporations and partnerships were registered to do business in Hawaii: 32,900 local ("domestic") corporations, 5,900 out-of-State ("foreign") corporations, and 8,200 partnerships. Business establishments with one or more employees in 1988 numbered 27,900; over half had fewer than five employees. During fiscal 1991, 3,600 new local corporations were formed. Business receipts of corporations in 1987 exceeded \$26 billion; business receipts of partnerships and proprietorships in the same year amounted to respectively \$3.5 billion and \$1.8 billion. Hawaii's largest corporation, PRI, reported annual sales of \$3.9 billion. Business failures in 1990 numbered 147.

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, the New York Stock Exchange, 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: 1991.

Table 411.-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES: 1980 TO 1990

[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
1980	9	169	8	156	4	7	71	238
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
TYPE OF CHARTER: 1990								
Federal	3	14	4	121	-	-	-	-
State	7	176	2	25	4	7	46	186
ISLANDS: 1990								
Hawaii	6	21	6	17	2	2	10	19
Maui	7	20	6	14	1	1	10	16
Lanai	1	1	1	1	-	-	-	-
Molokai	1	1	2	2	-	-	1	1
Oahu	9	132	6	103	4	4	46	141
Kauai	4	15	5	9	-	-	8	9
Niihau	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

Table 412.-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS: 1965 TO 1990

[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			
1965	1,542.0	373.4	632.1	9,562.1	1,334.0	668.1
1966	1,605.6	383.8	658.6	12,166.7	1,405.8	708.2
1967	1,814.4	434.3	747.7	13,198.4	1,508.0	779.4
1968	2,093.6	514.2	864.3	16,316.7	1,687.0	866.9
1969	2,298.2	579.6	923.1	21,527.3	1,995.6	1,025.4
1970	2,625.8	608.8	1,088.4	23,305.5	2,271.9	1,165.4
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	2,250.7	11,427.4	172,698.3	16,655.7	9,704.2
1990	23,588.5	2,393.5	12,725.4	217,639.4	18,880.3	11,206.3

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 1991, Annual Economic Report (1991),
p. 35.

Table 413.-- CHARACTERISTICS OF STATE-CHARTERED FINANCIAL INSTITUTIONS,
BY TYPES: 1988 TO 1990

[As of December 31]

Subject	1988	1989	1990
BANKS			
Number of banks	7	7	7
Number of branches and facilities	185	195	194
Assets (million dollars)	12,560.5	15,401.7	17,535.8
Deposits (million dollars)	11,292.7	13,671.3	15,114.2
Debits to demand deposits (mil. dol.)	133,916	172,698	217,636
Clearings (million dollars)	52,498	58,466	63,426
SAVINGS AND LOAN ASSOCIATIONS			
Number of associations	2	2	2
Number of branches and facilities	21	22	23
Assets (million dollars)	943.5	994.5	1,009.5
Withdrawable shares (million dollars)	636.5	710.6	667.1
TRUST COMPANIES			
Number of companies	3	3	4
Number of branches and facilities	3	6	3
Assets (million dollars)	39.8	48.2	70.4
FINANCIAL SERVICES LOAN COMPANIES			
Number of companies	51	52	48
Number of branches	153	142	146
Assets (million dollars)	2,556.6	2,046.8	2,577.4

Source: Hawaii State Department of Commerce and Consumer Affairs,
Division of Financial Institutions, Comparative Statement of Condition
(semi-annual), monthly releases, and records.

Table 414.-- SAIF-INSURED INSTITUTIONS AND DEPOSITS: 1965 TO 1989

[SAIF (formerly FSLIC) refers to Savings Association Insurance Fund]

Subject	Dec. 1965	Nov. 1970	Sept. 1975	Sept. 1980	June 1985	June 1989
No. of facilities	44	62	99	147	157	150
No. of branch offices	33	52	90	141	149	143
Total deposits (mil. dol.) ..	(NA)	463	1,376	2,933	3,891	4,849

NA Not available.
Source follows next table.

Table 415.-- SELECTED FINANCIAL DATA FOR SAIF-INSURED INSTITUTIONS: 1984, 1988, AND 1989

[See headnote to preceding table]

Subject	1984	1988	1989
No. of institutions	6	6	6
Total assets (million dollars)	3,480	6,560	7,251
Total deposits (million dollars)	2,738	4,515	4,956

Source: U.S. Office of Thrift Supervision, 1989 Savings & Home Financing Source Book, pp. B-25 and B-72.

Table 416.-- CREDIT UNIONS: 1985 TO 1990

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1985	137	1,535,426,151	1,390,984,301	425,973
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

Source: Hawaii Credit Union League, records.

Table 417.-- CREDIT CARD OWNERSHIP, FOR OAHU:
1988, 1989 AND 1990

[Limited to major credit cards, such as Master Card, VISA, American Express, or Discover. Data based on telephone surveys of respectively 400, 402 and 402 Oahu residents, October 24-November 10, 1988, November 3-13, 1989, and November 8-13, 1990]

Number owned	1988	1989	1990
Percent	100	100	100
None	29	27	20
1	26	28	31
2	26	24	31
3	13	15	9
4	5	3	6
5 or more	2	1	4
Mean number	1.4	1.5	1.7

Source: Surveys by Omnitrak Group, Inc., reported in Honolulu Star-Bulletin, February 20, 1990, p. D-1, and March 8-13, 1991.

Table 418.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1959 TO 1985

Year	Shareholders	Year	Shareholders
1959	13,000	1980	175,000
1962	18,000	1981	174,000
1965	39,000	1983	234,000
1970	74,000	1985	256,000
1975	58,000		

Source: New York Stock Exchange, Inc., Shareownership 1985, p. 24, and similar reports for earlier years.

Table 419.-- RESIDENTS INVESTING IN SPECIFIED CATEGORIES: 1990 AND 1991

[Responses to question, "Besides the money you keep as savings, how else do you invest your money? Do you invest in ...?" The 1991 survey was based on a telephone survey of 501 Hawaii residents, conducted March 20-28]

Type of investment	Percent of respondents	
	1990	1991
Money market mutual funds	46	44
Stocks and bonds	42	37
Real estate	31	37
Own business	20	19
Trust fund	17	21
Antiques, gems, other collectibles ...	16	17
Gold, silver, precious metals	10	9

Source: Survey by Omnitrak Research & Marketing Group, Inc., cited in Honolulu Star Bulletin, April 30, 1991, p. D-1.

Table 420.-- FINANCE, INSURANCE, AND REAL ESTATE ESTABLISHMENTS
WITH PAYROLL AND EMPLOYMENT: 1989

SIC code	Major group	Estab- lishments	Employ- ment
	Total	3,513	34,240
60	Depository institutions	418	8,728
602	Commercial banks	201	5,899
603	Savings institutions	168	2,290
61	Nondepository institutions	280	2,266
62	Security and commodity brokers	56	582
63	Insurance carriers	257	3,932
64	Insurance agents, brokers and service	318	3,031
65	Real estate	2,043	13,049
67	Holding and other investment offices	129	1,561
-	Administrative and auxiliary	12	1,091

Source: U.S. Bureau of the Census, County Business Patterns 1989, Hawaii, CBP-89-13 (October 1991), p. 10.

Table 421.-- GENERAL EXCISE TAX BASE FOR INTEREST AND
INSURANCE SOLICITORS: 1980 TO 1990

[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
1980	174,790	303,264	1986	200,656	140,120
1981	205,989	255,321	1987	258,015	198,442
1982	205,443	199,512	1988 <u>2/</u>	230,817	160,936
1983	184,895	214,972	1989 <u>2/</u>	269,093	184,310
1984	207,430	236,086	1990 <u>2/</u>	309,530	223,938
1985	206,256	167,438			

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/ Data exclude tax base for unallocated collections, distributed before 1988.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 422.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1984 TO 1989

[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)
1984	730	967,105	530,200	2,704,084
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

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 423.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1984 TO 1989

[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)
1984	401	6,294,746	28,060,450	257,611	168,487
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

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 424.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE:
1989

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	1,572,949,255	842,916,666
Life <u>1/</u>	322,044,739	219,508,259
Fraternal	3,422,064	1,562,393
Fire, marine, casualty, and miscell.:		
Accident and health	127,009,368	68,189,384
Fire	15,287,675	6,283,545
Allied lines <u>2/</u>	10,756,093	1,960,001
Homeowners multiple peril	54,645,701	22,162,138
Commercial multiple peril	86,985,360	27,052,954
Private passenger auto no-fault	71,874,367	58,737,063
Other private passenger auto liability	191,360,144	129,154,460
Commercial auto no-fault	6,729,556	4,342,710
Other commercial auto liability	57,643,164	35,232,795
Private passenger auto physical damage	118,545,486	62,370,446
Commercial auto physical damage	14,982,004	7,795,217
Workers' compensation	240,268,071	130,235,256
Other liability	105,114,600	26,294,338
Medical malpractice	17,776,972	6,911,490
Financial Guaranty	1,708,259	47
Glass	108,775	38,487
Burglary and theft	359,366	55,768
Boiler and machinery	2,045,583	170,103
Fidelity and surety	23,299,129	1,062,892
Ocean marine	3,512,181	5,999,477
Inland marine	17,447,892	3,068,092
Earthquake	333,983	5,600
All other <u>3/</u>	35,959,979	20,401,345
Surplus lines	43,728,744	4,322,406

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.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1990, p. 6.

Table 425.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION
OF HOME OFFICE: 1989

[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 ...	807	20	770	17
Financial condition, Dec. 31:				
Assets	1,580,703.6	1,336.1	1,543,822.7	35,544.8
Liabilities exc. capital and surplus	1,409,980.9	1,038.3	1,375,785.6	33,157.0
Policyholder's surplus inc. capital	170,722.6	297.7	168,037.2	2,387.8
Capital	4,178.8	24.4	4,125.1	29.3
Net gain or loss	-3,016.4	-2.5	-2,611.7	-402.2
Hawaii business:				
Direct premiums written	1,759.7	543.8	1,172.3	43.6
Claims and benefits paid	962.6	281.6	658.0	23.1
Investments in Hawaii, Dec. 31 <u>4/</u>	3,261.9	243.8	3,005.3	12.8
Mortgage loans (principal indebtedness)	997.9	127.8	867.1	3.0
Collateral loans (amount lent)	2.0	1.9	.1	-
State and county bonds <u>5/</u>	905.0	23.1	880.9	1.1
Utilities stocks and bonds <u>5/</u>	309.6	24.4	277.5	7.8
Industrial and misc. stocks and bonds <u>5/</u>	909.9	58.5	850.7	.8
Real estate <u>5/</u>	137.4	8.2	129.0	.2
Balances in Hawaii banks	33.1	29.8	3.2	.02

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, 1990, pp. 10, 12, 14, 15, 38 and 39.

Table 426.-- HEALTH PLANS: 1987 TO 1990

Subject	1987	1988	1989	1990
BestCare: <u>1/</u>				
Members covered, Dec. 31 <u>2/</u>	3,197	5,970	5,730	...
Premium revenue <u>3/</u> (\$1,000)	1,573	2,948	3,214	...
Hawaii Medical Service Association: <u>4/</u>				
Persons covered, Dec. 31 <u>2/</u>	555,394	557,594	577,725	605,127
Membership dues <u>3/</u> (\$1,000)	433,826	485,955	566,655	660,623
Island Care: <u>1/</u>				
Persons covered, Dec. 31 <u>2/</u>	16,771	18,469	17,619	22,337
Membership dues <u>3/</u> (\$1,000)	12,970	13,638	11,605	22,709
Kaiser Foundation Health Plan:				
Persons covered-- <u>2/</u>				
Annual average	141,396	155,539	170,772	179,450
Dec. 31	147,067	162,060	176,298	182,580
Membership dues <u>3/</u> (\$1,000)	102,719	108,191	130,744	165,145
Commercial carrier premiums for accident and health insurance (\$1,000)	105,341	120,661	127,009	(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 427.-- MEDICAL INSURANCE COVERAGE OF OAHU RESIDENTS: 1991

[Based on a telephone survey of 508 Oahu residents,
October 3-12, 1991]

Subject	Percent
Percent of all residents--	
Covered by medical insurance	98
Basic only	69
Both basic and supplemental coverage	29
Not covered	2
Percent of insured residents with coverage--	
Through plans provided by their employers	73
Through spouses' employers	15

Source: Survey by Omnitrak/Hawaii Inc. cited in Honolulu Star-Bulletin, December 10, 1991, p. C-1.

Table 428.-- FIRES AND FIRE LOSSES, FOR OAHU: 1981 TO 1991

[Years ended June 30]

Year	Fires	Losses (\$1,000)	Year	Fires	Losses (\$1,000)
1981	7,564	15,071	1987	4,835	9,582
1982	6,518	11,394	1988	2,966	6,632
1983	6,982	10,751	1989	3,327	13,272
1984	6,666	11,363	1990	3,487	18,972
1985	6,377	10,700	1991	3,248	13,408
1986	4,367	9,172			

Source: 1984-1985 Annual Report of the Fire Department, City and County of Honolulu, p. 26, and records.

Table 429.-- FIRES, FIRE DEATHS, AND FIRE LOSSES, BY COUNTIES:
1987 TO 1991

[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	4,817	2,966	599	216	1,036
1989	5,137	3,327	625	245	940
1990	5,722	3,487	854	228	1,153
1991	5,949	3,248	934	253	1,514
Fire deaths:					
1987	6	-	1	1	4
1988	7	5	-	2	-
1989	12	11	1	-	-
1990	4	3	1	-	-
1991	4	4	-	-	-
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

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 430.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1979 TO 1989

[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	
1979	302,763	809,676	3,451,980	20,621	10,568	4,285	
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	
Number of establishments by employment-size class <u>2/</u> --Con.							
Year	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more
1979	2,866	1,864	653	281	54	31	19
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

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 431.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES:
1988 AND 1989

[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
1988				
State total	27,938	382,943	1,710,738	7,242,782
Hawaii	3,187	32,679	115,444	490,291
Honolulu	20,395	297,324	1,393,351	5,904,887
Kauai	1,389	17,089	65,725	273,585
Maui	2,958	35,781	135,831	572,507
Statewide	9	70	387	1,512
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

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, 1989, Hawaii, CBP-89-13 (October 1991), p. 19.

Table 432.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS,
BY MAJOR INDUSTRY GROUP: 1989

[Excludes government and self-employed workers. Based on 1987 Standard Industrial Classification Manual and thus not comparable to 1987 and earlier data reported in previous editions, which were based on the 1972 SIC Manual]

Major industry group	Number of establishments ^{1/}	Number of employees ^{2/}	Annual payroll (\$1,000)
Total	28,443	410,745	8,253,134
Agricultural services, forestry, fishing	253	1,891	36,122
Mining	7	109	4,372
Construction	2,080	26,036	878,678
Manufacturing ^{3/}	971	22,886	492,781
Food and kindred products	212	10,130	202,148
Apparel and other textile products	158	2,954	36,395
Printing and publishing	187	3,508	89,940
Transportation and public utilities	1,194	39,169	1,026,169
Wholesale trade	1,965	22,257	539,954
Retail trade ^{3/}	7,280	110,284	1,398,270
Food stores	898	13,931	179,639
Eating and drinking places	2,204	45,732	433,768
Finance, insurance, real estate	3,513	34,240	845,735
Services ^{3/}	8,950	147,800	2,933,456
Hotels and other lodging places	265	36,794	626,047
Health services	2,092	32,899	908,434
Unclassified establishments	2,230	6,073	97,597

^{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, 1989, Hawaii, CBP-89-13 (October 1991), pp. 1-2.

Table 433.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
EMPLOYMENT-SIZE CLASS: 1989

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments	Number of employees	Annual payroll (\$1,000)
Total	28,443	410,745	8,253,134
1 to 4	14,736	26,152	647,270
5 to 9	6,006	39,671	718,137
10 to 19	3,805	51,578	936,433
20 to 49	2,443	73,472	1,314,681
50 to 99	874	58,959	1,096,509
100 to 249	427	62,959	1,308,793
250 to 499	86	28,849	578,937
500 to 999	40	25,766	492,406
1,000 or more	<u>1</u> / 26	43,339	1,159,968

1/ 1,000-1,499 employees, 16 establishments; 1,500-2,499, 7 establishments; 2,500-4,999, 3 establishments.

Source: U.S. Bureau of the Census, County Business Patterns, 1989, Hawaii, CBP-89-13 (October 1991), pp. 3, 14, and 18.

Table 434.-- CHARACTERISTICS OF BUSINESS AND PROFESSIONAL FIRMS,
BY COUNTIES: 1990-1991

Characteristic	State total	Honolulu	Maui	Kauai	Hawaii
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 435.-- REGISTERED CORPORATIONS AND PARTNERSHIPS:
1987 TO 1991

[Excludes eleemosynary corporations]

Subject	1988	1989	1990	1991
Domestic (Hawaii) corporations:				
Formed <u>1/</u>	3,459	3,791	3,822	3,559
Dissolved or merged <u>2/</u>	239	583	6,589	2,560
On record, June 30 <u>3/</u>	31,379	34,587	31,844	32,943
Foreign (non-Hawaii) corporations:				
Qualified <u>1/</u>	692	812	858	770
Withdrawn, merged, or cancelled <u>2/</u> .	185	228	1,183	287
On record, June 30 <u>3/</u>	5,327	5,911	5,665	5,903
Partnerships:				
Registered <u>1/</u>	1,367	1,409	1,575	1,430
Dissolved or cancelled <u>2/</u>	645	688	3,098	1,423
On record, June 30 <u>3/</u>	9,693	10,414	8,311	8,229

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 24, 1991.

Table 436.-- 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 <u>1/</u>		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 437.-- 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 438.-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS, AND PROPRIETORSHIPS: 1983, 1985, AND 1987

[Money amounts in millions of dollars]

Subject	1983	1985	1987
CORPORATIONS <u>1/</u>			
Number of corporations	18,420	19,513	19,493
Taxable	8,040	8,708	9,404
Nontaxable	10,380	10,805	10,089
Business receipts	21,072	22,714.3	26,583
Taxable corporations	12,368	12,554.7	17,753
Nontaxable corporations	8,704	10,159.6	8,830
Taxable income, excluding net losses <u>2/</u>	682.8	845.7	1,114.3
PARTNERSHIPS			
Number of partnerships	7,378	7,398	6,752
With net profit	3,453	3,389	3,697
With net loss	3,925	4,009	3,055
Number of partners	83,313	<u>3/</u> 80,208	146,170
Business receipts	1,737.9	1,918.1	3,510.2
Businesses with net profit	1,065.8	1,294.0	2,800.5
Businesses with net loss	672.2	624.1	709.7
Net profit reported	358.1	431.1	906.0
Net loss reported	366.3	439.1	548.5
PROPRIETORSHIPS			
Number of proprietorships	54,182	59,475	61,733
With net profit	36,330	41,510	46,870
With net loss	17,852	17,965	14,863
Business receipts	1,236.2	1,579.1	1,767.7
Businesses with net profit	1,050.6	1,439.4	1,584.4
Businesses with net loss	185.7	139.7	183.3
Net profit reported	254.0	321.3	444.2
Net loss reported	63.9	53.3	66.4

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 439.-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: 1990

[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	Pacific Resources Inc.	1904/1970	3,900	1,215
2	Castle & Cooke	1851	3,003	51,000
3	Hawaiian Electric Industries, Inc.	1891/1983	1,010	3,300
4	Bancorp Hawaii, Inc.	1897/1971	954	4,162
5	Alexander & Baldwin, Inc.	1870/1900	758	3,123
6	Hawaii Medical Service Assn. (HMSA)	1938	661	1,100
7	DFS Hawaii	1962	600	1,300
8	Chevron USA Inc. (Hawaii Division)	1904	556	285
9	First Hawaiian Inc.	1858/1974	541	2,300
10	GTE Hawaiian Tel	1883	539	4,185
11	Amfac/JMB Hawaii <u>2/</u>	1849	(NA)	(NA)

NA Not available.

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.

2/ Ranked 6th in 1989.

Source: Tom Yoneyama, "The Hawaii Business Top 250," Hawaii Business, August 1991, pp. 74 and 76.

Table 440.-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1989 AND 1990

[Based on 1990 ranks for reporting companies]

Company	Net income or loss (\$1,000)		Revenues (\$1,000,000)	
	1989	1990	1989	1990
Largest net incomes:				
Castle & Cooke	94,924	120,455	2,717.8	3,003.2
Alexander & Baldwin, Inc.	202,708	115,189	846.3	757.9
Bancorp Hawaii	79,860	95,688	761.5	954.3
Largest net losses:				
HAL Inc.	46,930	121,287	348.9	340.7
AIG Hawaii Insurance Co., Inc.	70	4,773	64.7	63.4

NA Not available.

Source: "The Hawaii Business Top 250," Hawaii Business, August 1991, p. 52.

Table 441.-- 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 442. -- 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 ^{1/}	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 ^{2/}	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 443.-- 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 444.-- BUSINESS CLIMATE INDEXES: 1989 TO 1991

Index	Rank <u>1/</u>			Grade		
	1989	1990	1991	1989	1990	1991
Economic performance ...	2	2	3	A	A	A
Business vitality	38	38	44	D	D	D
Development capacity ...	13	13	14	B	B	B
State policy	24	34	29	C	C	C

1/ Among the 50 States.

Source: The Corporation for Enterprise Development, The 1989 Development Report Card for the States (March 1989), The 1990 Development Report Card for the States (April 1990), and The 1991 Development Report Card for the States (April 1991).

Table 445.-- BUSINESS FAILURES: 1989 AND 1990

Subject	1989	1990 <u>1/</u>	Percent change	Rank (50 States and D.C.)		
				1989	1990 <u>1/</u>	Percent change
Firms	170	147	-13.5	39	46	44
Liabilities <u>2/</u> ...	41,269	22,599	-45.2	41	47	48

1/ Preliminary.

2/ Dollar amounts in thousands.

Source: The Dun & Bradstreet Corp., Press Release, March 13, 1991.

Table 446.-- BUSINESS STARTS, 1986 AND 1987, AND FAILURES, 1988 AND 1989, BY INDUSTRY SECTOR

Industry sector	Starts		Failures	
	1986	1987	1988	1989 <u>1/</u>
Firms, all sectors	1,071	997	178	170
Agriculture, forestry, fishing	31	20	2	-
Mining	-	-	-	-
Construction	104	83	10	3
Manufacturing	83	80	2	1
Transportation, public utilities ...	52	47	4	3
Wholesale trade	133	108	11	2
Retail trade	326	370	19	11
Finance, insurance, real estate	56	62	3	4
Services	285	221	127	146
Unclassifiable	1	6	-	-

1/ Preliminary.

Source: The Dun & Bradstreet Corporation, Business Starts Record 1986/1987 (1988), pp. 3 and 16, and Business Failure Record 1988 Final 1989 Preliminary (1991?), pp. 4, 5, and 16.

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 144 post offices and stations handling 473 million pieces of mail and accounting for postal receipts of \$151 million. There were 586,000 telephone access lines in service, 398,000 telephone homes, and uncounted millions of local, interisland, and transpacific calls in 1990. The 55 commercial, public and educational radio stations in the Islands in 1991 included 27 on the regular broadcast band and 28 FM stations. The State also had 21 television stations (19 commercial and 2 public), including satellites but excluding translators. Eight cable TV companies served 310,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in May 1991 numbered 180,000 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 1990-1991. 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: 1991, Section 18.

Table 447.-- POSTAL SERVICE: 1987 TO 1991

[Years ended September 30]

Subject	1987	1988	1989	1990	1991
Post offices, Sept. 30	75	75	74	74	74
Stations, Sept. 30 <u>1/</u>	69	72	74	70	70
Gross postal receipts (\$1,000)	107,946	119,740	129,177	136,087	151,429
Pieces of mail <u>2/</u> (millions) .	394	400	434	463	473

1/ Includes both classified and contract stations (see following table).

2/ Originating in Hawaii. Excludes mail originating elsewhere.

Source: U.S. Postal Service, records.

Table 448.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS:
SEPTEMBER 30, 1991

Island	Total	Post offices				Stations	
		1st class	2nd class	3rd class	4th class	Classified <u>1/</u>	Contract <u>2/</u>
State total ..	144	34	29	10	1	34	36
Hawaii	36	9	14	2	1	2	8
Maui	17	8	2	-	-	2	5
Lanai	1	-	1	-	-	-	-
Molokai	5	1	-	4	-	-	-
Oahu	65	12	4	1	-	28	20
Kauai	20	4	8	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, data supplied October 29, 1991.

Table 449.-- TELEPHONE ACCESS LINES, BY ISLAND AND TYPE: 1981 TO 1990

[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

Source: GTE Hawaiian Telephone Company, data provided April 29, 1991.

Table 450.-- RESIDENTIAL TELEPHONES IN SERVICE, BY ISLANDS: 1989 AND 1990

[Estimates based on 1987 survey data reporting 1.74 telephones per residence access line]

Islands	1989	1990
State total	670,330	692,106
Oahu	494,611	504,215
Other islands	175,719	187,890

Source: GTE Hawaiian Telephone Company, data provided April 29, 1991.

Table 451.-- LOCAL TELEPHONE CALLS: 1979 TO 1989

[In thousands. Data not available after 1989]

Year	Originating	Completed	Year	Originating	Completed
1979	1,830,954	1,186,458	1985	2,225,943	1,669,457
1980	1,957,427	1,468,070	1986	2,350,538	1,671,233
1981	1,857,938	1,393,454	1987	2,404,035	1,718,885
1982	1,892,430	1,419,322	1988	2,514,066	1,810,128
1983	1,928,486	1,446,365	1989	2,615,991	1,883,514
1984	2,050,778	1,538,084			

Source: GTE Hawaiian Telephone Company, records.

Table 452.-- HAWAIIAN TELEPHONE COMPANY OPERATIONS: 1988 TO 1990

Subject	1988	1989	1990
Operating revenues (\$1,000)	494,590	512,144	539,283
Net income (\$1,000)	49,520	48,340	51,963
Net investment in property, plant, and equipment (\$1,000)	889,192	899,751	944,095
Total assets (\$1,000)	1,032,628	1,070,670	1,121,529
Access lines ^{1/}	543,303	612,286	645,627
Total salaries and wages (\$1,000)	154,198	146,099	154,222
Number of employees	4,189	4,260	4,185

^{1/} Data for 1989 and 1990 include intrastate private line loops, not reported for earlier years.

Source: GTE Hawaiian Tel 1990 Annual Report, p. 24.

Table 453.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES:
1970 TO 1990

Subject	1970	1975	1980	1985	1990
Companies, Dec. 31	6	10	10	9	8
Subscribers, Dec. 31 (1,000)	12.1	54.6	128.7	220.4	310.3
Revenue <u>1/</u> (mil. dol.) .....	...	...	16.2	33.0	54.7

1/ Gross revenue 1980, and basic service revenue thereafter.
Source: Hawaii State Department of Commerce and Consumer Affairs,
Cable Television Division, records.

Table 454.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES,
BY COUNTIES: 1989 AND 1990

County	Number of companies Dec. 31 <u>1/</u>		Subscribers, Dec. 31		Basic service revenue (\$1,000)	
	1989	1990	1989	1990	1989	1990
State total	8	8	292,638	310,258	52,449	54,660
Hawaii	3	3	26,248	30,700	5,486	6,052
Maui	2	2	36,825	38,885	5,910	6,438
Honolulu	2	2	217,415	224,768	38,281	38,305
Kauai	2	3	12,150	15,905	2,772	3,865

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 455.-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION,
1931 TO 1991, AND BY COUNTIES, 1991

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV <u>1/</u>	AM	FM	TV <u>1/</u>
1931: Jan. 1	2	-	-	-	-	-
1946: Jan. 1	4	-	-	-	-	-
1961: Jan. 1	18	1	8	-	1	-
1976: Jan. 1	26	6	10	-	1	2
1991: June 30	27	24	19	-	4	2
COUNTIES: 1991						
Hawaii	5	6	6	-	-	-
Maui	3	6	4	-	1	1
Honolulu <u>2/</u>	17	10	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, July 25, 1991.

Table 456.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA: 1990 AND 1991

Subject	January 1990			January 1991		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	361,400	273,300	88,100	370,300	279,200	91,100
With television .	350,920	266,440	84,480	359,670	272,220	87,450
Percent	97.1	97.5	95.9	97.1	97.5	96.0

Source: Nielsen Station Index, Honolulu, Hawaii, February 1990 and February 1991, table 1.

Table 457.-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY:
1989 TO 1991

[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>
1989: Feb.	91	143	195	343
May	84	134	178	324
Nov.	89	137	180	310
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

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 458.-- COMMUNICATION AND RELATED ESTABLISHMENTS: 1989

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
27	Printing and publishing	187	482	Telegraph & other	4
271	Newspapers	17	483	Radio, TV broadcast ...	38
272	Periodicals	23	484	Cable, other pay TV ...	14
273	Books	8	489	Commun. services, n.e.c	18
274	Miscell. publishing .	10	5942	Book stores	56
48	Communication	115	5731	Advertising	66
481	Telephone	36	7311	Advertising agencies	47

Source: U.S. Bureau of the Census, County Business Patterns 1989, Hawaii, CBP-89-13 (October 1991), table 1b.

Table 459.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1988 TO 1991

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

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 460.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1987-88 TO 1990-91

[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	1987-88	1988-89	1989-90	1990-91
Daily:				
Honolulu Advertiser 1/	93,088	98,025	98,400	101,220
Honolulu Star-Bulletin 2/	97,950	96,074	92,811	89,704
Hawaii Tribune-Herald (Hilo) 3/	20,328	20,360	20,354	20,486
West Hawaii Today (Kailua-Kona) 4/ ..	8,820	9,757	10,781	11,733
Maui News (Wailuku) 3/	15,805	16,722	17,861	18,170
Garden Island (Lihue) 5/	9,525	8,737	8,664	8,246
Sunday morning:				
Sunday Star-Bulletin and Advertiser .	203,358	203,752	200,798	200,199
Hawaii Tribune-Herald (Hilo)	23,209	23,146	23,291	23,879
West Hawaii Today (Kailua-Kona)	8,961	10,025	11,576	12,684
Maui News (Wailuku)	16,326	17,660	19,405	19,939
Garden Island (Lihue)	9,528	8,899	9,157	8,552

1/ Mornings, Monday through Saturday.

2/ Afternoons, Monday through Saturday.

3/ Afternoons, Monday through Friday.

4/ Mornings, Monday through Friday.

5/ Afternoons, 4 times weekly (Monday, Wednesday, Thursday, and Friday).

Source: Audit Bureau of Circulations data provided to DBED by newspaper publishers.

Table 461.-- POSTAGE RATES AND NEWSPAPER PRICES, FOR
HONOLULU: 1981 TO 1991

[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			
1981	18	17	12	25	75
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

^{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: 1990, p. 549, as updated by Postal Service Customer Information. Newspaper rates from Hawaii Newspaper Agency.

Table 462.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1981 TO 1991

[In dollars. As of July 1. Including state and federal excise tax where applicable]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line <u>3/</u>
		Direct dialing <u>1/</u>	Through operator <u>2/</u>	Direct dialing <u>1/</u>	Through operator <u>2/</u>	
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63
1982 ..	0.15	1.05	1.87	1.74	2.63	11.51
1983 ..	0.15	1.07	1.91	1.77	3.37	11.31
1984 ..	0.15	1.07	1.91	1.66	3.25	11.74
1985 ..	0.15	1.14	2.06	1.54	3.13	12.77
1986 <u>4/</u>	0.25	1.45	2.06	1.32	2.91	14.10
1987 <u>4/</u>	0.25	1.11	2.00	0.98	2.53	14.10
1988 <u>4/</u>	0.25	1.04	2.00	0.92	2.47	14.10
1989 <u>4/</u>	0.25	1.00	2.00	0.76	3.26	14.10
1990 <u>4/</u>	0.25	0.98	2.00	0.78	3.50	14.10
1991 <u>4/</u>	0.25	1.35	2.00	0.75	2.50	13.50

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ Telephone rental included through February 5, 1983, and excluded thereafter. In 1991, the monthly rental charge for a standard dial desk-top telephone was \$3.00, and the federal subscriber line charge was \$3.50.

4/ AT&T Communications, Inc., rates quoted for Honolulu to California calls.

Source: Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on fuel resources, energy production and consumption, the electric and gas utility industries, research and development, and scientific, engineering, and technological resources. Related series are cited in Sections 12 (on utility employment), 14 (prices), and 18 (gasoline consumption).

Total energy consumption in 1989 amounted to 299 trillion British thermal units, compared with 255 trillion Btu a decade earlier. Fully 98.3 percent in 1989 was provided by petroleum. Transportation, including aviation fuels, accounted for 51 percent of the total. Total expenditures for fuels and electricity in 1988 were \$1.66 billion.

Electricity sales amounted to 8.3 billion kilowatt-hours in 1990, a total that has increased 31 percent since 1980. Manufactured gas sales reached 34 million therms in 1989, four percent below the figure ten years earlier. Residential rates in 1990 averaged 10.3 cents per kilowatt-hour and \$1.63 per therm. Average residential use (7,247 kWh and 192 therms in 1990) has declined since the early 1970s.

The liquid fuel tax base for 1990 was approximately 1.3 billion gallons, compared with 940 million in 1980. The 1990 total included 375 million gallons of gasoline, 751 million of aviation fuel, and 176 million of diesel oil. The average price for automotive gasoline was \$1.48 per gallon during 1990.

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 1990.

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 DBED 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: 1991, Sections 19 and 20.

Table 463.-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS):
1960 TO 1989

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)
1960	16,864	27	0	0	0
1961	20,094	24	0	0	0
1962	19,040	20	0	0	0
1963	19,946	23	0	0	0
1964	21,298	115	0	0	0
1965	22,507	105	0	0	0
1966	25,140	112	0	0	2
1967	28,321	108	0	0	0
1968	31,483	94	0	0	30
1969	33,054	100	0	0	29
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	36,932	82	21	38	28
1985	39,351	86	19	46	25
1986	38,905	78	18	16	0
1987	39,470	82	13	63	0
1988	44,500	81	16	50	0
1989	50,232	89	14	32	11

^{1/} For data by type of petroleum, see source. Revised data.

^{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, 1960-1989 (May 1991), p. 95.

Table 464.-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU):
1960 TO 1989

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>
1960	95.0	94.7	0.3	0.0	0.0	0.0	0.0
1961	113.9	113.6	0.3	0.0	0.0	0.0	0.0
1962	108.5	108.3	0.2	0.0	0.0	0.0	0.0
1963	114.2	114.0	0.2	0.0	0.0	0.0	0.0
1964	123.5	122.3	1.2	0.0	0.0	0.0	0.0
1965	130.6	129.5	1.1	0.0	0.0	0.0	0.0
1966	145.6	144.4	1.2	0.0	0.0	0.0	(Z)
1967	164.0	162.9	1.1	0.0	0.0	0.0	0.0
1968	182.6	181.3	1.0	0.0	0.0	0.0	0.3
1969	190.7	189.4	1.0	0.0	0.0	0.0	0.3
1970	196.9	195.5	1.1	0.0	0.0	0.0	0.3
1971	211.6	210.5	0.9	0.0	0.0	0.0	0.2
1972	217.7	216.6	0.9	0.0	0.0	0.0	0.2
1973	223.7	222.5	1.0	0.0	0.0	0.0	0.2
1974	211.6	210.3	1.0	0.0	0.0	0.0	0.3
1975	213.9	212.7	0.9	0.0	0.0	0.0	0.3
1976	219.3	218.0	1.0	0.0	0.0	0.0	0.3
1977	232.6	231.8	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	218.7	213.8	0.8	0.4	0.9	2.4	0.3
1985	233.3	227.9	0.9	0.4	1.1	2.7	0.3
1986	230.9	226.7	0.8	0.4	0.4	2.7	0.0
1987	234.7	229.2	0.8	0.3	1.6	2.8	0.0
1988	264.3	259.0	0.8	0.3	1.3	2.8	0.0
1989	299.1	294.0	0.9	0.3	0.8	2.9	0.1

Z Less than 0.05.

1/ For data by type of petroleum, see source. Revised data.

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, 1960-1989 (May 1991), p. 95.

Table 465.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1989

[Trillion Btu]

Year	Consumption ^{1/}				Input at electric utilities
	Residential	Commercial	Industrial	Transportation	
1960	7.3	5.2	20.7	61.8	17.6
1961	7.5	5.4	26.9	74.0	19.4
1962	8.0	5.5	28.9	66.1	21.4
1963	8.9	6.0	29.8	69.5	24.2
1964	9.6	6.6	32.4	74.8	26.7
1965	10.1	6.8	34.7	79.0	27.6
1966	10.8	7.4	35.8	91.5	29.7
1967	12.1	8.0	38.8	105.1	31.3
1968	13.1	8.8	38.7	122.0	35.0
1969	14.9	9.8	40.8	125.1	38.7
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	19.4	46.6	131.7	70.6
1985	20.8	20.2	47.4	144.9	70.0
1986	21.4	22.7	57.4	129.4	72.9
1987	22.9	29.0	57.1	125.7	76.6
1988	24.0	36.1	62.6	141.7	81.9
1989	25.3	52.8	68.6	152.4	85.8

^{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, 1960-1989 (May 1991), pp. 96-100.

Table 466.-- ENERGY CONSUMPTION AND ELECTRICITY SALES, TOTAL AND PER CAPITA: 1960 TO 1990

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	250.842	6,332,707	5,838
1983	279.03031	251.379	6,425,578	5,789
1984	276.36995	244.208	6,606,255	5,837
1985	266.21778	233.524	6,635,158	5,820
1986	271.05620	231.751	7,025,739	6,007
1987	282.71678	237.717	7,298,178	6,137
1988	306.72360	254.310	7,719,029	6,400
1989 (prel.) ...	314.96310	252.213	7,970,360	6,382
1990 (prel.) ...	321.23000	255.777	8,310,537	6,617

^{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 467.-- ENERGY CONSUMPTION, BY SOURCE: 1970 TO 1990

[Trillion Btu]

Year	Total <u>1/</u>	Petroleum	Biomass	Solar water heating	Hydro- elect- ricity	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	20.8020	2.3310	1.0183	0.8715	0.4189	0.1435
1990 <u>3/</u>	321.2300	295.4000	18.1200	2.3400	1.0700	0.8900	0.2900	-

1/ Beginning 1989, includes solid waste (0.1478 in 1989, 3.1200 in 1990).

2/ Preliminary.

3/ Estimated.

Source: U.S. Energy Information Administration; Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records.

Table 468.-- ELECTRICITY GENERATION BY SOURCE: 1985 TO 1990

[Millions of kWh generated]

Year	Total	Petroleum	Biomass	Hydro- electric	Geo- thermal	Wind	Other 1/
1985	7,821	7,001	670	98	19	17	16
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

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 469.-- ELECTRICITY PRODUCTION, BY SOURCE, BY ISLANDS: 1990

[Million kWh]

Island	Total	Petrol- eum	Biomass 1/	Hydro- electric	Wind	Other 2/
State total ...	9,565.4	8,588.8	843.1	104.9	28.1	0.5
Hawaii	875.4	665.9	167.8	25.2	16.4	0.1
Maui	958.0	785.0	146.2	26.3	0.1	0.4
Lanai	17.3	17.3	-	-	-	-
Molokai	31.3	25.3	6.0	-	-	-
Oahu	7,209.7	6,800.1	398.0	-	11.5	-
Kauai	473.7	295.3	125.1	53.4	-	-

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 470.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SOURCE:
1970 TO 1988

[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	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	100.4	499.6	100.4	236
1977	844.5	696.5	123.5	573	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	906.7	177	354.6
1980	1,721.3	1,529.8	267.8	1,262	267.8	459.3
1981	2,195.2	1,947.7	451.5	1,496.2	451.5	699
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 <u>1/</u> .	1,664.1	1,314.6	238.0	1,076.6	238.0	587.5

1/ Provisional.

Source: Hawaii State Department of Business and Economic Development, Division of Energy, records.

Table 471.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SECTORS:
1970 TO 1988

[Millions of dollars]

Year	Total fuel	Residential		Commercial and industrial		Transport: fuel	Electric utilities: fuel
		Fuel	Elect.	Fuel	Elect.		
1970	215.9	5.5	34.1	18.9	50.0	174.2	17.3
1971	246.8	8.7	38.8	17.9	60.0	195.4	24.8
1972	250.4	6.1	42.6	20.5	66.7	196.5	27.3
1973	300.9	10.5	48.7	24.4	77.8	229.7	36.3
1974	443.2	10.4	57.1	44.7	94.0	328.3	49.8
1975	546.1	7.4	76.9	45.8	138.8	401.0	91.9
1976	600.0	12.7	84.0	45.9	152.0	441.0	100.4
1977	696.5	13.9	92.9	55.0	178.6	504.1	123.5
1978	767.8	13.3	105.8	52.6	207.9	552.6	149.3
1979	1,083.7	26.2	118.9	102.4	235.7	778.1	177.0
1980	1,529.8	19.5	146.4	135.4	312.9	1,107.1	267.8
1981	1,947.7	20.6	214.6	232.4	484.4	1,243.2	451.5
1982	1,869.6	26.2	222.4	283.6	501.2	1,120.4	439.4
1983	1,730.1	22.9	205.9	288.1	453.2	1,049.8	369.3
1984	1,724.8	20.6	217.4	192.1	485.5	1,132.8	379.3
1985	1,586.6	20.6	213.5	100.8	459.1	1,127.6	337.6
1986	1,147.3	13.8	195.8	65.8	445.6	843.1	224.6
1987	1,176.2	(NA)	(NA)	(NA)	(NA)	(NA)	203.7
1988	1,314.6	(NA)	(NA)	(NA)	(NA)	(NA)	238.0

NA Not available.

Source: Hawaii State Department of Business, Economic Development and Tourism, Division of Energy, unpublished estimates.

Table 472.-- ELECTRIC UTILITIES: 1980 TO 1990

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
1980 ..	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547
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 ..	370,952	320,215	50,737	1,655,690	8,311,537	2,320,550	5,990,987
Year	Average annual use (kWh) <u>3/</u>		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1980 ..	7,117	109,079	.07901	.06964	459,251	146,397	312,854
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 ..	7,247	118,079	.10261	.08542	749,857	238,103	511,754

1/ 1990 based partly on November data.

2/ Does not include purchased power.

3/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 473.-- ELECTRIC UTILITIES, BY ISLANDS: 1989

[Revised]

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
State total	362,281	312,347	49,934	1,517,500	7,969,694	2,238,874	5,730,820
Oahu	247,120	216,063	31,057	1,189,000	6,254,220	1,620,439	4,633,781
Hawaii	48,312	40,012	8,300	128,000	663,512	259,304	404,208
Kauai	22,442	18,779	3,663	59,800	321,259	110,036	211,223
Maui County	44,407	37,493	6,914	140,700	730,703	249,095	481,608
Lanai	1,043	907	136	4,700	12,028	4,095	7,933
Maui	40,712	34,418	6,294	131,000	692,351	233,952	458,400
Molokai	2,652	2,168	484	5,000	26,323	11,048	15,275
	Average annual use (kWh) <u>1/</u>		Average rate (dollars per kWh)		Revenues (\$1,000)		
County or island	Residential	Other	Residential	Other	Total	Residential	Other
State total	7,168	114,772	0.09265	0.07585	642,101	207,436	434,665
Oahu	7,500	149,202	0.08308	0.06785	449,046	134,729	314,317
Hawaii	6,481	48,700	0.11847	0.10764	74,229	30,720	43,509
Kauai	5,860	57,664	0.12661	0.12489	40,312	13,932	26,380
Maui County	6,644	69,657	0.11225	0.10401	78,514	28,055	50,459
Lanai	4,515	58,333	0.15345	0.13840	1,743	634	1,109
Maui	6,797	72,831	0.10735	0.10020	71,521	25,304	46,217
Molokai	5,096	31,560	0.19716	0.19923	5,250	2,117	3,133

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 474.-- ELECTRIC UTILITIES, BY ISLANDS: 1990

County or island	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
State total	370,952	320,215	50,737	1,655,690	8,311,537	2,320,550	5,990,987
Oahu	249,810	218,799	31,011	1,290,000	6,471,587	1,657,105	4,814,482
Hawaii	50,957	42,165	8,792	138,750	715,751	277,468	438,283
Kauai	23,417	19,624	3,793	77,080	342,857	116,361	226,496
Maui County	46,768	39,627	7,141	149,860	781,342	269,616	511,726
Lanai	1,062	918	144	10,760	15,496	4,646	10,850
Maui	43,010	36,505	6,505	130,100	738,220	253,508	484,711
Molokai	2,696	2,204	492	9,000	27,627	11,461	16,165
	Average annual use (kWh) <u>3/</u>		Average rate (dollars per kWh)		Revenues (\$1,000)		
County or island	Residential	Other	Residential	Other	Total	Residential	Other
State total	7,247	118,079	0.10261	0.08542	749,857	238,103	511,754
Oahu	7,574	155,251	0.09228	0.07686	522,962	152,924	370,038
Hawaii	6,581	49,850	0.12963	0.11861	87,954	35,967	51,987
Kauai	5,930	59,714	0.14096	0.13989	48,087	16,402	31,685
Maui County	6,804	71,660	0.12169	0.11343	90,854	32,810	58,044
Lanai	5,061	75,345	0.15422	0.14166	2,254	717	1,537
Maui	6,944	74,514	0.11825	0.11033	83,457	29,977	53,480
Molokai	5,200	32,856	0.18472	0.18721	5,143	2,117	3,026

1/ Oahu based on November data.

2/ Does not include purchased power.

3/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 475.-- GAS UTILITIES: 1980 TO 1990

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1980 ...	33,019	28,825	4,194	34,705	7,030	27,675
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

Year	Average annual use (therms) <u>1/</u>		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1980 ...	244	6,599	1.46583	1.25951	45,162	10,305	34,857
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

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 476.-- GAS UTILITIES, BY ISLANDS: 1990

[Excludes bottled gas]

Island	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
State total ..	34,477	30,840	3,637	34,806	5,924	28,882
Oahu	31,974	28,714	3,260	31,645	5,469	26,176
Hawaii	1,842	1,531	311	2,297	331	1,966
Kauai	279	279	-	58	58	-
Maui	382	316	66	806	66	740
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 ..	192	7,941	1.62847	1.14834	42,813	9,646	33,167
Oahu	190	8,030	1.65421	1.16464	39,532	9,046	30,486
Hawaii	216	6,321	1.31864	1.00341	2,409	436	1,972
Kauai	207	-	1.36066	-	78	78	-
Maui	210	11,212	1.28517	0.95695	793	85	708
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 477.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU:
1985 TO 1990

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					
1985 ..	231,912	202,222	5,637,678	5,336,262	6,997	0.10417	1,283,000
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

^{1/} Net generation plus purchased power.

^{2/} Based on average number of customers during the year.

Source: Hawaiian Electric Co., Inc., records.

Table 478.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1985 TO 1990

Calendar year	Customers, Dec. 31		Gas sold ^{1/} (1,000 therms)		Average annual residential usage ^{1/} (therms)
	Total	Residential	Total	Residential	
1985 ...	30,442	27,085	28,255	5,436	201
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

^{1/} Includes liquefied petroleum gas.

Source: Gasco, Inc., records.

Table 479.-- LIQUID FUEL TAX BASE: 1980 TO 1990

[In thousands of gallons]

Year reported ^{1/}	All types		Gasoline	Diesel oil	
	Total	Excluding aviation		Non-hwy.	Hwy. use
1980	939,766	437,222	312,896	101,719	17,765
1981	918,437	428,886	305,886	101,212	15,771
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
Year reported ^{1/}	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1980	2,448	1,140	502,544	338	917
1981	2,378	1,136	489,551	424	2,079
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

^{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 Distribution" (annual report).

Table 480.-- LIQUID FUEL TAX BASE, BY COUNTIES: 1990

[In thousands of gallons]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	1,307,887	1,065,323	102,152	90,573	49,839
Gasoline	375,382	250,800	45,696	55,303	23,584
Diesel oil, non-hwy. ...	151,095	56,631	46,446	24,570	23,488
Diesel oil, hwy. use ...	24,763	16,549	2,623	4,766	824
Liq. pet. gas, off hwy.	4,757	2,047	416	535	1,759
Liq. pet. gas, hwy. use	834	671	63	46	55
Small boats, gasoline ..	78	78	-	-	-
Small boats, diesel oil	188	125	-	64	-
Aviation fuel	750,790	738,424	6,909	5,289	168

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections & Distribution, Calendar Year Ending December 31, 1990" (annual release).

Table 481.-- 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 482.-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL,
BY COUNTIES: 1987 AND 1989

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
1989	331	225	50	22	(1/)	34	(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 1989, Hawaii, CBP-89-13 (October 1991), tables 1b and 2.

Table 483.-- 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 484.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU:
ANNUAL AVERAGES, 1984 TO 1990

[In dollars. Average prices include all applicable federal, state, and county taxes. For earlier years, 1903-1983, see Data Book 1984, tables 497 and 498]

Period	All types <u>1/</u>	Leaded regular	Unleaded regular	Unleaded premium
1984	1.450	1.367	1.443	(NA)
1985	1.392	1.274	1.396	(NA)
1986	1.206	1.077	1.221	1.346
1987	1.233	1.099	1.254	1.372
1988	1.293	1.204	1.273	1.413
1989	1.365	(NA)	1.404	1.460
1990	<u>2/</u> 1.479	(NA)	1.538	1.551

NA Not available.

1/ Includes types not shown separately.

2/ The U.S. city average for 1990 was \$1.217.

Source: Based on data in the U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly). The 1984-1986 Honolulu prices and 1990 U.S. average are actual values; the 1987-1990 Honolulu prices are estimates based on actual prices for the last half of 1986 and CPI(U) changes for gasoline for subsequent years.

Table 485.-- BOILERS AND PRESSURE VESSELS: 1989 AND 1990

Date	Total	Power boilers	Heating boilers	Pressure vessels
1989: Dec. 31 ...	8,519	574	2,441	5,504
1990: Dec. 31 ...	8,581	581	2,479	5,521

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 486.-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY SUGAR PLANTATIONS, BY ISLANDS: 1989

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated <u>1/</u>	844	248	213	247	136
Purchased	38.18	1.51	4.07	24.56	8.05
Sold	440.47	177.12	113.69	99.72	49.94
Used <u>2/</u>	441.89	72.16	103.53	172.19	94.00
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	25,830	8,546	5,706	7,366	4,212
Bagasse	20,513	6,632	5,148	5,448	3,285
Fuel oil	5,028	1,914	559	1,629	927
Other fuels	289	-	-	289	-

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 - 1989 (Energy Report 29, September, 1990), pp. 7-10.

Table 487.-- 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 488.-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT AND
R&D PLANT IN HAWAII: 1984 TO 1989

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

Type of obligation	1984	1985	1986	1987	1988	1989
Obligations for R&D	52.9	58.2	54.7	63.9	82.2	97.4
Obligations for R&D plant	0.6	0.9	0.6	0.6	6.9	0.4

Source: National Science Foundation, Federal Funds for Research and Development: Fiscal Years 1989, 1990, and 1991, Volume XXXIX, NSF 90-327 final (1991), pp. 285-286.

Table 489.-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING,
FOR THE UNIVERSITY OF HAWAII: 1986-87 TO 1990-91

[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)
1986-87 ...	643	52,360,382	378	35,787,240	265	16,573,142
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

Source: Office of Research Administration, University of Hawaii, 1990-1991 Extramural Awards (1991), p. i.

Table 490.-- RESEARCH AND DEVELOPMENT EXPENDITURES AT
DOCTORATE-GRANTING INSTITUTIONS: 1985 TO 1989

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

Type of expenditure	1985	1986	1987	1988	1989
Total R&D expenditures	54,025	57,383	57,345	64,278	1/ 70,733
Federally financed	34,886	35,322	34,472	38,560	40,574

1/ U.S. total was \$14.7 billion. Hawaii ranked 37th of the 50th States.

Source: National Science Foundation, Academic Science/Engineering: R & D Funds, Fiscal Year 1989, NSF 90-321 final (1991), tables B-22 and B-23.

Table 491.-- TELESCOPES AT THE SUMMITS OF MAUNA KEA AND HALEAKALA: 1991

Location and facility	Mirror size (meters)	Year completed	Primary use	Local staff 1/
Mauna Kea:				
UH 24-inch Telescope #1	0.61	1968	Optical	} 12
UH 24-inch Telescope #2	0.61	1969	Optical	
UH 88-inch Telescope	2.24	1970	Optical/infrared	
NASA Infrared Telescope Facility	3.0	1979	Infrared	15
Canada-France-Hawaii Telescope	3.6	1979	Optical/infrared	51
United Kingdom Infrared Telescope	3.8	1979	Infrared	29
Caltech Submillimeter Observatory	10.4	1986	mm/submm	11
James Clerk Maxwell Telescope	15.0	1986	mm/submm	37
W.M. Keck Observatory	10.0	1991	Optical/infrared	40
Haleakala (on UH land):				
Mees Solar Observatory .....	...	1956	...	9
Lunar Ranging Facility .....	...	1976/84	...	8
Gamma Ray Facility .....	...	1985	...	1

1/ Based in same county as observatory.

Source: University of Hawaii at Manoa, Institute for Astronomy, Fact Sheet--1991-92 (July 1991).

Table 492.-- PATENTS ISSUED TO HAWAII
RESIDENTS: 1983 TO 1990

[Fiscal years ended September 30. Data include
design, plant, and reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1983	30	1987	52
1984	43	1988	62
1985	33	1989	74
1986	37	1990	78

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.

Table 493.-- COMPUTER USE BY OAHU RESIDENTS EMPLOYED OUTSIDE
THEIR HOMES: 1988 AND 1989

[Percent. As of March]

Subject	1988	1989
Use of personal computer at place of work	100	100
Always	22	27
Frequently	14	13
Occasionally	15	16
Never	50	44
Facsimile machine (FAX) at place of work	100	100
Yes	41	52
No	46	44
Don't know	13	5
Own a personal computer for use at home	100	100
Yes	25	33
No	75	67

Source: Omnitrak/Hawaii Inc. Polls (400 telephone interviews each) reported in Honolulu Star-Bulletin, May 23, 1989 (p. C-1), May 30, 1989 (p. D-1), and June 6, 1989 (p. D-1).

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 618,000 in 1980 to 886,000 in 1990. Vehicle miles rose during the same period from 5.6 billion to 8.1 billion. Hawaii residents purchased 87,000 new passenger cars and 15,000 trucks in 1990. By the end of that year, 678,000 licensed drivers had access to 4,101 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 72 million in 1980 to 76 million in 1990.

Almost all scheduled interisland travel is by air. In 1990, airlines and air taxis reported 9.9 million interisland passengers, some 47 percent more than in 1980, and carried 73,000 tons of cargo. The State has seven commercial airports, 15 general aviation, military or semi-private airports, 13 civilian heliports, 3,800 active pilots, and about 500 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1990, 7,311,000 overseas passengers arrived by air, a 10-year growth of 71 percent. Overseas air cargo received that year weighed 169,000 tons.

Undocumented State-registered vessels as of December 31, 1990 numbered 14,081, compared with 8,000 in 1970. Median length was 18.1 feet, and five-sixths were stored on land. There were 1,700 documented vessels in the State in 1990, triple the 1970 total. Overseas vessels brought 17,500 passengers into the State in 1991. Receipts of cargo in 1988 included 11.0 million tons in overseas cargo and 5.3 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. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1991, Sections 21 and 22.

Table 494.-- HIGHWAY DISTANCES: 1991

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	26.1	Kaunakakai-Maunaloa	16.5
Hilo-Mauna Kea summit	39.3	Kaunakakai-Airport	7.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	11.5
Hilo-Kailua, via Naalehu	125.2	OAHU 1/	
Hilo-Kailua, via Saddle Rd. ..	84.3	Honolulu-Ala Moana Center	1.6
Hilo-Kailua, via Hamakua	91.2	Honolulu-UH, via King Street	3.2
Hilo-Waimea, via Saddle Rd. ..	57.9	Honolulu-Waikiki	3.2
Hilo-Waimea, via Hamakua	55.3	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Upolu Pt., via Hamakua ..	83.7	Honolulu-Waimanalo, via Nuuanu ..	13.3
Hilo-Kawaihae, via Hamakua ...	69.5	Honolulu-Kailua, via Nuuanu	11.6
Waimea-Hawi	21.4	Honolulu-Kaneohe, via Kalihi	10.8
Waimea-Kawaihae	11.5	Honolulu-Kahuku, via Kahaluu	36.2
Kawaihae-Hawi	18.0	Honolulu-Kahuku, via Wahiawa	46.2
Kawaihae-Kailua	48.4	Honolulu-Kaena Pt., via Wahiawa .	42.4
Kailua-Keahole Airport	6.8	Honolulu-Kaena Pt., via Waianae .	44.3
Kailua-Keauhou	6.9	Honolulu-Wahiawa	20.5
MAUI		Honolulu-Pearl Harbor Shipyard ..	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	4.8
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.7	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	33.0
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.1
Wailuku-Makena	17.6	Circle island, via Nuuanu Pali ..	81.1
Wailuku-Lahaina, via Kahakuloa	38.0	KAUAI	
Wailuku-Lahaina, via Olowalu .	20.9	Lihue-Haena	38.0
Kahului-Kihei	7.9	Lihue-Wailua	5.9
Lahaina-Wailea	32.4	Lihue-Lihue Airport	2.0
Lahaina-Napili	8.9	Lihue-Poipu	11.9
Lahaina-Kaanapali	3.7	Lihue-Mana	32.9
LANAI		Lihue-Kalalau Lookout	44.6
Lanai City-Lanai Airport	2.7	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	8.0	Poipu-Princeville	40.7

1/ Honolulu distances measured from King and Bishop Streets; Waikiki, from Kalakāua and Lewers.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 495.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1970 TO 1990

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1970	1975	1980	1985	1990
Total mileage ...	3,529	3,743	3,912	4,070	4,101
Paved	3,047	3,355	3,591	3,808	3,887
Unpaved	482	389	321	262	214

Source follows next table.

Table 496.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED,
BY ISLANDS: DECEMBER 31, 1990

[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	4,100.88	96.55	3,790.32	214.01
Hawaii <u>2/</u>	1,450.21	7.04	1,367.79	75.38
Maui	592.10	3.21	532.19	56.70
Lanai	45.83	-	31.83	14.00
Molokai	129.29	-	117.29	12.00
Oahu	1,487.15	86.30	1,367.41	33.44
Kauai	396.30	-	373.81	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 497.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1990

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 498.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1990

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 499.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1980 TO 1990

[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	Pas-senger vehicles <u>1/</u>	Ambulances, hearses, patrol wagons	Buses
1980	633,846	617,571	514,669	85	3,366
1981	667,019	649,350	541,932	88	3,577
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	907,950	885,755	715,464	56	4,303
Motor vehicles -- continued					
Year	Trucks <u>1/</u>	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor scooters <u>2/</u>	Trailers and semi-trailers
1980	87,542	1,725	488	9,696	16,275
1981	90,954	1,641	458	10,700	17,669
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	151,857	1,049	306	12,720	22,195

Footnotes and source on next page.

Table 499.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1980 TO 1990 -- Con.

NA Not available.

1/ Beginning in 1979, vans, pickups, and other trucks under 6,500^{1b.} in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles 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 500.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1980 TO 1990

[Taxable and non-taxable. Includes passenger cars, buses, trucks, and motor-cycles 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
1980	617,571	454,316	70,047	30,604	62,604
1981	649,350	476,995	75,812	32,932	63,611
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	885,755	611,919	109,910	55,537	108,389

Source: City and County of Honolulu, Department of Data Systems, records.

Table 501.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES:
1990 AND 1983

[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					
All vehicles	907,950	624,582	114,551	57,795	111,022
Motor vehicles	885,755	611,919	109,910	55,537	108,389
Passenger vehicles	811,503	563,090	97,854	51,520	99,039
Automobiles	715,464	497,116	87,299	44,171	86,878
Trucks	91,680	62,470	10,287	7,249	11,674
Buses	4,303	3,467	257	99	480
Ambulances, hearses	56	37	11	1	7
Freight	61,532	39,066	10,519	3,489	8,458
Trucks	60,177	38,485	10,224	3,343	8,125
Truck tractors, tow trucks	1,049	472	244	112	221
Truck cranes, misc.	306	109	51	34	112
Motorcycles 1/	12,720	9,763	1,537	528	892
Trailers, semi-trailers	22,195	12,663	4,641	2,258	2,633
1983					
Motor vehicles	702,854	515,002	80,090	35,365	72,397
U-drive	30,442	18,580	2,891	1,478	7,493
All others	672,412	496,422	77,199	33,887	64,904

1/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: 1990 from City and County of Honolulu, Department of Data Systems, records; 1983 from Applied Analysis, Inc., Estimating Annual Vehicle-miles Traveled (VMT) in the State of Hawaii (August 1987), and records.

Table 502.-- 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 503.-- VEHICLE DENSITIES: 1970 TO 1990

Measure	1970	1975	1980	1985	1990
Motor vehicles per --					
1,000 persons ^{1/}	506	532	585	657	705
Mile of street or highway	115	134	158	184	216
Persons per ^{1/} --					
Motor vehicle	2.0	1.9	1.7	1.5	1.4
Mile of street or highway	226	252	270	280	306

^{1/} Based on de facto population.

Source: Hawaii State Department of Transportation, Highways Division, records; Hawaii State Data Center population estimates.

Table 504.-- NEW PASSENGER CARS AND MOTOR TRUCKS
REGISTERED: 1985 TO 1990

Year	Total	Passenger cars	Motor trucks
1985	67,875	51,330	16,545
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

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 505.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1985 TO 1990

Year	State total	Hono- lulu	Maui	Hawaii	Kauai
1985	68,676	50,058	8,095	7,660	2,863
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	102,721	57,424	19,737	14,527	11,033
Passenger cars ..	87,481	47,609	17,664	12,403	9,805
Trucks	15,240	9,815	2,073	2,124	1,228

Source: Hawaii Automobile Dealers Association, HADA Yearbook (annual), as revised.

Table 506.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, RETAIL AND FLEET, BY NAMEPLATE: 1990

Nameplate	Retail and fleet		Retail registrations		Fleet registrations	
	Rank	Number <u>1/</u>	Rank	Number	Rank	Number
All nameplates ...	...	102,721	...	54,381	...	48,340
Chevrolet	1	22,929	4	5,570	1	16,943
Pontiac	2	14,888	14	853	2	14,035
Ford	3	12,548	1	8,125	3	4,423
Toyota	4	7,716	3	5,695	6	2,459
Honda	5	6,902	2	6,781	14	123
Nissan	6	4,887	5	4,628	9	727
All others .....	...	32,361	...	22,729	...	9,630

1/ Independently calculated from county data, and may differ significantly from sum of retail registrations and fleet registrations.

Source: Hawaii Automobile Dealers Association, 1991 HADA Yearbook, pp. 6, 8, and 9.

Table 507.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1989 AND 1990

Year	Total	Domestics <u>1/</u>	Imported <u>1/</u>	
			Number	Percent
1989	85,425	50,923	34,502	40.4
1990	102,721	70,718	32,003	31.2

1/ Japanese cars sold in the U.S. with U.S. nameplates are classified as domestic. Cars assembled in the U.S. with Japanese nameplates are classified as imports.

Source: Hawaii Automobile Dealers Association, 1991 HADA Yearbook, p. 10.

Table 508.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1985 TO 1990

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1985	593,952	441,278	68,177	29,188	55,309
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

Source: Tabulations by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 509.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1990

Age	Both sexes	Male	Female
Total	677,626	366,208	311,418
15 to 19 years	37,911	21,256	16,655
20 to 24 years	63,333	34,152	29,181
25 to 34 years	167,308	87,486	79,822
35 to 44 years	163,745	85,690	78,055
45 to 54 years	99,298	53,248	46,050
55 to 64 years	74,548	39,991	34,557
65 to 74 years	53,213	31,682	21,531
75 to 84 years	16,880	11,650	5,230
85 years and over	1,390	1,053	337
Median age (years)	39.3	39.7	38.8

Source: Tabulation by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 510.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:
1980 TO 1990

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>
1980	330,734	536	5,570.0	9,019
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
COUNTIES: 1990				
Honolulu	264,613	434	5,395.7	8,847
Hawaii	58,834	525	1,094.8	9,765
Kauai	24,107	421	591.7	10,322
Maui	47,631	434	983.2	8,957

NA Not available.

1/ Includes gasoline, gasohol, 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 511.-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1988 TO 1990

Site	1988	1989	1990
Pali Highway at tunnels	50,453	51,503	50,590
Likelike Highway at tunnels	48,358	57,025	54,296
H-1 Freeway at Manoa-Palolo Drainage Canal ^{1/}	127,367	128,273	123,621
H-1 Freeway at Kapalama Drainage Canal Bridge	191,286	193,254	193,983
Nimitz Highway at Kapalama Drainage Canal Bridge	69,040	79,870	73,188
Kalaniana'ole Highway east of Ainakoa Ave.	77,928	79,275	80,135

NA Not available.

^{1/} Includes Kapiolani on- and off-ramps.

Source: Hawaii State Department of Transportation, Highways
Division, Planning Branch, records.

Table 512.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1985 TO 1990
[Average speeds, in miles per hour. Years ended September 30]

Year	State- wide	Urban inter- state	Rural		
			Inter- state	Other arteri- als	Major collec- tors
1985	54.8	56.9	58.0	52.3	53.0
1986	55.1	58.4	(NA)	51.4	52.6
1987	55.0	58.4	(NA)	51.3	52.1
1988	56.2	59.5	(NA)	52.0	52.3
1989	55.7	58.2	(NA)	52.4	53.1
1990	^{1/} 56.7	58.9	(NA)	53.5	54.9

NA Not available.

^{1/} The corresponding U.S. average was 56.6. Hawaii ranked 31st
among the 50 States.

Source: U.S. Department of Transportation, Federal Highway
Administration, Highway Statistics (annual).

Table 513.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1979 TO 1989, AND BY COUNTIES, 1989

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1979	19,158	183	13,963	205
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
COUNTIES: 1989				
Honolulu	20,388	70	8,475	78
Hawaii	3,290	33	2,263	40
Kauai	1,201	6	663	8
Maui	2,014	18	1,433	21

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 514.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1990

[As of December 31]

Island	Taxicabs <u>1/</u>	Bicycles and mopeds <u>2/</u>
Hawaii	110	5,357
Maui	157	861
Lanai	2	47
Molokai	5	80
Oahu	1,620	109,834
Kauai	-	1,272

1/ Licensed during the calendar year. Taxicabs are licensed annually, except in Kauai County, where registration is not required.

2/ Number licensed during 1989 and 1990 for Hawaii and Oahu, and during 1990 only for Maui, Lanai, Molokai, and Kauai. 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 515.-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY
SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1991

[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

Source: Information provided by listed companies.

Table 516.-- 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 517.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: JULY 1991

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	355	2,465	51,864	2,510	12,360
Hawaii	21	199	5,165	470	2,332
Maui	32	408	9,264	346	1,405
Honolulu	289	1,660	32,779	1,525	7,859
Kauai	13	198	4,656	169	764

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 518.-- PUBLIC TRANSIT, FOR OAHU: 1980 TO 1990

[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)
1980	400	16,579,392	71,601,744	17,388,760
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

1/ Estimated number of revenue vehicle miles.

2/ Estimated number of revenue passengers, including senior citizens and handicapped.

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 519.-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1988 TO 1990

[Calendar year data for City and County of Honolulu bus system]

Fare category	1988	1989	1990
All passengers	74,467,760	74,964,453	75,648,930
Adults, full fare	43,182,518	43,699,952	44,508,635
Students	11,533,291	11,558,225	11,301,854
School subsidy	311,027	242,201	212,211
Stadium express	10,309	11,249	7,894
Senior citizens and handicapped	14,197,265	14,319,192	14,454,242
Chartered service	4,967	-	-
Free transfers	5,228,383	5,133,592	5,164,094
Average bus speed (m.p.h.)	15.0	15.0	15.0

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 520.-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1991

[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 July 15, 1991.

Source: City and County of Honolulu, Department of Transportation Services, records.

Table 521.-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1980 TO 1990

[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
1980	6	111,699	1986	6	215,735
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			

Source: Lahaina, Kaanapali and Pacific Rail Road, records.

Table 522.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1990

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 523.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1980 TO 1990

[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
1980	375,408	49,969	66,944	111,573	62,829	67,761
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

1/ Formerly General Lyman Field; new name became effective July 1, 1989.

Source: ~~follows next table.~~ HAWAII STATE DEPARTMENT OF TRANSPORTATION, AIRPORTS DIVISION, RECORDS

Table 524.-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS AND ENPLANED PASSENGERS: 1988 AND 1989

Subject	Rank <u>1/</u>		Number	
	1988	1989	1988	1989
Total aircraft operations	23	16	376,893	403,738
Air carrier operations	23	19	184,856	194,354
Total enplaned passengers <u>2/</u> ...	15	14	8,396,313	8,943,521

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 for 1988 (pp. 24 and 82) and 1989 (pp. 2-18 and 4-33).

Table 525.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1990

[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 ..	407,048	194,357	57,506	122,349	32,836
Hilo International	98,755	19,709	42,249	23,550	13,247
Kahului	182,686	56,532	75,923	44,209	6,022
Lihue	113,860	34,656	63,754	8,230	7,220
Keahole	60,086	27,608	10,838	17,504	4,136
Molokai	43,509	12	33,145	9,121	1,231

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 526.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1988 TO 1991

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines and other air taxi service]

Service	1988	1989	1990	1991
All carriers	34	44	43	43
Transpacific only	25	27	26	25
Domestic	10	12	11	10
Foreign	15	15	15	15
Transpacific and interisland	2	5	4	5
Interisland only	7	12	13	13
Passenger carriers	5	8	9	9
Cargo and mail only	2	4	4	4

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 527.-- CIVIL FLYING: 1986 TO 1989

Item	1986	1987	1988	1989
Aircraft facilities, Dec. 31	51	54	54	53
Airports	34	35	35	34
Heliports	17	19	19	19
Public aircraft facilities, Dec. 31 ...	18	18	18	17
Paved and lighted facilities, Dec. 31 .	12	12	12	12
Large aircraft in operation, Dec.	54	57	51	51
Aloha Airlines	11	10	12	13
Hawaiian Airlines	24	29	31	31
Mid Pacific Airlines	19	18	8	7
General aviation: 1/				
Active civil aircraft, Dec.	366	486	600	519
Standard error	118	140	153	119
Hours flown (1,000)	182	163	426	290
Standard error (1,000)	81	75	133	96
Active personnel, Dec. 31:				
Pilots, except instructors	3,327	3,373	3,598	3,814
Flight instructors	246	271	293	284
Nonpilot airmen 2/	2,609	2,778	3,008	3,185

1/ Aircraft based in Hawaii. Data based on samples with 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 528.-- OVERSEAS AND INTERISLAND AIR
PASSENGER MOVEMENTS: 1980 TO 1990

[Calendar years. Data include both revenue and
non-revenue passengers]

Year	Overseas passengers <u>1/</u>			Inter- island passenger arrivals
	Arrivals	Departures	Through	
1980 ..	4,270,633	4,174,739	1,118,987	6,737,894
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

1/ Includes West Coast, Canada, Europe, and the
Central and South Pacific.

Source: Hawaii State Department of Trans-
portation, Airports Division, records.

Table 529.-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND,
BY AIRPORT: 1990

Airport	Passengers <u>1/</u>		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS		<i>ARRIVALS</i>		<i>ARRIVALS</i>		<i>ARRIVALS</i>
Total	7,562,156	7,310,635	147,663	168,862	16,011	19,099
Honolulu	6,837,726	6,549,459	138,797	157,376	16,011	19,099
Hilo	-	-	177	83	-	-
Kahului	550,169	567,073	5,418	7,748	-	-
Keahole	109,947	119,265	3,012	2,436	-	-
Lihue	64,314	74,838	259	1,219	-	-
INTERISLAND						
Total	9,907,154	9,907,154	72,709	72,709	11,424	11,424
Honolulu	4,445,160	4,470,017	49,309	20,979	6,786	4,529
Hilo	721,104	739,506	14,247	10,887	1,231	1,680
Upolu	5	8	-	7	-	-
Waimea-Kohala ...	7,312	7,187	100	39	-	-
Keahole	987,598	961,886	3,159	8,683	922	1,379
Kahului	1,920,221	1,899,508	3,883	18,770	1,616	2,501
Hana	11,216	11,005	-	34	-	-
Molokai	164,472	166,777	328	455	65	26
Kalaupapa	6,315	5,929	-	4	-	-
Lanai	56,240	56,599	31	579	6	-
Lihue	1,358,837	1,350,334	1,487	11,774	798	1,309
Other airports <u>2/</u>	228,674	238,398	165	498	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (1,065,408, all passing through Honolulu International Airport).

2/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 530.-- AIR CARGO AND AIRMAIL: 1980 TO 1990

[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
1980	130,586	114,673	21,105	19,581	138,008	13,576
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

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 531.-- HELICOPTER TOURS: 1977 TO 1991

Subject	1977	1982	1987	1988	1989	1990	1991
Companies	9	14	36	36	36	37	33
Aircraft	15	26	71	74	74	78	90

Source: Hawaii Helicopter Operators Association, records.

Table 532.-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: APRIL 1991

[Data for the 569 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination	Flights during week		
	Total	Final destination	Intermediate point
Tokyo	80	75	5
Osaka	20	20	-
Taipei	10	5	5
Manila	15	15	-
Sydney	40	26	14
Auckland	22	8	14
Melbourne	14	14	-
Guam	12	12	-
Vancouver	22	22	-
Seattle	23	16	7
Portland	7	7	-
San Francisco	74	64	10
Los Angeles	152	126	26
Denver	9	7	2
Dallas/Fort Worth	19	12	7
Chicago	21	21	-
Atlanta	12	12	-
New York	7	7	-
All others	141	100	41

Source: Greeters of Hawaii, Jiffisked^[tm] April 1991. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 533.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1981 TO 1991

[Updated to September 13, 1991. 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	
1981: Jan. 20 ...	384.12	265.08	265.08	5:02
Mar. 31 ...	415.12	286.09	286.09	5:02
June 17 ...	425.13	296.09	296.09	5:02
Oct. 1	392.12	280.08	280.08	5:00
1982: Mar. 1	412.12	219.07	219.07	5:00
Apr. 1	412.12	310.09	310.09	5:00
June 1	412.12	328.10	328.10	5:00
Sept. 1 ...	415.16	331.13	331.13	5:00
1983: June 15 ...	415.16	353.14	353.14	5:00
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

^{1/} Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight time varies seasonally.

Source: United Airlines, records.

Table 534.-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO,
AND SEATTLE, FOR MAJOR AIRLINES: JULY 1, 1991

[Dollars. Includes taxes]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class	946	895	987
Coach (unrestricted)	633	642	708
United Airlines, round-trip:			
First class	1,892	1,790	1,974
Coach (unrestricted)	1,266	1,284	1,416
Major carriers, lowest round-trip:			
United Airlines <u>1/</u>	438	438	528
Lowest carrier	359	359	359
Highest carrier	608	688	708
Average	468	495	532

1/ Coach fare, restricted. Requires 14-day advance notice, departure only on Tuesday, Wednesday, or Thursday, and 30-day maximum stay. No one-way fare available.

Source: United Airlines, records.

Table 535.-- ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1990 TO 1991

[Updated to August 28, 1991]

Effective date of change in fare	One-way fares <u>1/</u> (dollars)		
	Regular	Kamaaina	
1990: January 1	49.95	44.95	
June 16	54.95	49.95	
July 24	56.95	39.50	
August 16	56.95	42.00	
August 26	56.95	45.00	
September 15	58.95	54.95	
December 1	63.00	49.95	
December 4	62.95	54.95	
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	
	Flight time between Honolulu and-- <u>2/</u>		
Aircraft	Lihue	Kahului	Hilo
DC-9	30	32	46
DASH-7	41	43	71

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 II, pp. 38-39.

2/ Average scheduled nonstop flight times (eastbound and westbound averaged), in minutes.

Source: Hawaiian Airlines, tariff records and Schedule and Planning Division.

Table 536.-- STATE COMMERCIAL HARBORS: 1991

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	1,012	23	166
Maui:							
Kahului	35	35	2,400	2,050	3,019	124	703
Molokai:							
Kaunakakai	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main	} 45	{ 40	3,300	1,520	} 28,007	1,733	7,812
Kapalama			3,400	1,000			
Barbers Point .			2,100	1,800			
Barbers Point .	42	38	2,100	1,800	1,600	-	1,280
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,291	66	291
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 5, 1991.

Table 537.-- SMALL CRAFT MOORING FACILITIES CAPACITY, BY ISLANDS:
1990-1991

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 ...	1,457	134	756	105	1,355	749
Hawaii	14	3	370	34	-	100
Maui	48	7	145	9	-	-
Lanai	28	5	-	-	-	-
Molokai	3	1	29	11	-	-
Oahu	1,282	104	176	35	1,355	-
Kauai	82	14	36	16	-	-

1/ As of December 31, 1990. At that time, 2,013 vessels were moored (1,323 at catwalks and piers, 690 at other moorage), and valid applications on file numbered 2,851.

2/ As of March 4, 1991. Totals for 15 organizations controlling moorage.

3/ Includes moorings (82), ramps (8), and dry storage (659).

Source: Hawaii State Department of Transportation, Harbors Division, Boating Branch, Small Craft Mooring Facilities Utilization Report (quarterly), and records.

Table 538.-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS: 1991

[Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

Island	Number of aids to navigation			Light-houses	Greatest nominal range (naut. miles)	Highest above--	
	By control					Sea level (feet)	Ground (feet)
	Total	Federal	Private				
Total .	430	300	130	22	<u>1/</u> 25	<u>2/</u> 931	<u>3/</u> 138
Hawaii	63	50	13	7	24	156	115
Maui	44	27	17	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	219	150	69	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	5	5	-	-	-	-	-

NA Not available.

1/ Molokai Light, Kaena Point Light, and Kilauea Light.

2/ Kaena Point Light.

3/ Molokai Light.

Source: 14th Coast Guard District, April 16, 1991.

Table 539.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1990

Subject	Number	Subject	Number
Certificates outstanding .	14,081	Type of vessel:	
Length:		Cabin motorboat	2,336
Under 16 feet	5,581	Open motorboat	5,367
16 to less than 26 feet	6,978	Runabout	2,863
26 to less than 40 feet	1,319	Sail/inboard	557
40 feet and over.....	203	Sail/outboard	576
Median (feet)	18.1	Sail only	1,098
Hull material:		Motor vessel over 65 feet .	7
Wood	1,235	Other	1,277
Fiberglass	10,928	Uses:	
Metal	541	Pleasure	12,161
Inflatable	1,147	Commercial fishing	1,038
Other	230	Charter fishing	27
Propulsion:		Commercial passenger	243
Inboard	935	Other commercial	63
Outboard	8,427	Livery	219
Inboard/outboard	2,090	Dealer or manufacturer	43
Sail/inboard	557	Youth group	44
Sail/outboard	576	Government	190
Sail only	889	Other	53
Manual	256	Island kept:	
Other	351	Hawaii	1,980
Type of storage:		Kauai	1,181
On water	2,367	Lanai	56
On land	11,714	Maui	1,238
		Molokai	473
		Oahu	9,153

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 540.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:
1986 TO 1991

Category	1986	1987	1988	1989	1990	1991
Documented ^{1/}	1,348	1,389	1,380	1,600	1,700	1,800
Numbered ^{2/}	14,052	14,008	14,250	13,501	14,081	...

^{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.

^{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 541.-- BOATING ACCIDENTS: 1985 TO 1990

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1985	41	2	5	10	50	417.3
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

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.

Table 542.-- 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 543.-- SHIP ARRIVALS AT THE PORT OF HONOLULU:
1981 TO 1991

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1981	1,968	10,959,161	2,597	2,670,405
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)

NA Not available.

Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 544.-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND DEPARTURES, FOR HONOLULU HARBOR: 1986 TO 1991

[Fiscal years ended June 30]

Type of passenger	1986	1987	1988	1989	1990	1991
Overseas:						
In	6,537	8,681	5,815	15,993	9,770	17,503
Out	6,190	8,103	5,350	16,716	9,084	17,812
Interisland:						
In	84,943	71,049	77,731	78,710	67,199	67,409
Out	82,895	69,337	71,804	78,711	67,199	67,409

Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 545.-- OVERSEAS AND INTERISLAND SHIPPING: 1986 TO 1989

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1986 ...	10,521,866	8,451,641	2,070,225	8,464,107	4,241,904	4,222,203
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 546.-- 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 547.-- 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

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Continued on next page.

Table 547.-- 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

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 548.-- SUMMARY STATISTICS FOR TRANSPORTATION SERVICES
ESTABLISHMENTS: 1987 AND 1989

[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
	1989				
42	Motor freight transp., warehousing	205	(NA)	90,746	4,070
44	Water transportation	59	(NA)	71,918	2,883
47	Transportation services ..	550	(NA)	114,254	6,627

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 1989, Hawaii, CBP-89-13 (October 1991), 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 4,600 farms in Hawaii in 1990, with a total area of 1.7 million acres. The value of crop sales in 1990 was \$500 million, or 9.5 percent lower than the total for 1980. Livestock sales amounted to \$88 million, or 8.9 percent more than the 1980 level. Combined crop and livestock sales in 1990 ranged from \$65 million in Kauai County to \$198 million on the Big Island. Major crops were sugar (\$214 million in sales, down 44.5 percent over the decade), pineapple (\$99 million, or 29.6 percent over the 1980 total), flowers and nursery products (\$70 million, or 154.1 percent more than in 1980), and macadamia nuts (\$41 million, up 69.6 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from \$91 million in 1980 to \$187 million in 1990, or 105.5 percent. About 710 farms sold \$70 million of flowers and nursery products in 1990, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1990 included cattle and calves (\$29 million in sales), milk (\$31 million), and eggs (\$16 million). In 1990, Hawaii produced 32 percent of the fresh market vegetables consumed locally, 57 percent of the fresh market fruits, 26 percent of the beef and veal, 16 percent of the pork, 15 percent of the chickens, and 92 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 of \$7.7 billion in 1990, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, most recently conducted in 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: 1991.

Table 549.-- 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 549.-- 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 549.-- 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 550.-- 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 551.-- 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	13,150	2.5

Source: Robert C. Schmitt, Historical Statistics of Hawaii (1977), pp. 122-124; present volume, tables 335, 339, and 344.

Table 552.-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1980 TO 1990

[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
1980	143,694	1984	242,641	1988	298,261
1981	176,582	1985	262,791	1989	326,400
1982	173,891	1986	250,954	1990	317,337
1983	220,298	1987	274,202		

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 553.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT:
1970 TO 1990

Year	Number of farms <u>1/</u>	Farm acreage <u>2/</u> (1,000)	Farm employment <u>3/</u>		
			Self-employed farm operators	Unpaid family members	Hired workers
1970	4,500	2,300	3,200	1,450	12,450
1971	4,400	2,300	3,050	1,500	11,810
1972	4,300	2,300	3,050	1,550	11,220
1973	4,300	2,300	3,050	1,550	10,770
1974	3,800	2,200	3,040	1,660	10,180
1975	3,900	2,150	3,060	1,720	11,040
1976	4,000	2,100	2,890	1,560	11,240
1977	4,100	2,050	2,840	1,550	11,300
1978	4,300	1,980	2,890	1,810	11,600
1979	4,300	1,980	3,020	1,520	10,800
1980	4,300	1,970	3,400	1,100	10,550
1981	4,400	1,965	3,100	900	10,500
1982	4,500	1,960	2,600	1,300	13,000
1983	4,500	1,900	2,500	1,500	13,000
1984	4,600	1,850	2,200	1,300	11,800
1985	4,600	1,800	2,200	1,200	10,600
1986	4,600	1,750	2,050	1,200	9,700
1987	4,650	1,720	2,600	1,100	10,700
1988	4,650	1,720	2,600	1,100	10,300
1989	4,650	1,720	2,400	1,100	9,800
1990	4,600	1,710	2,500	1,000	9,600

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 554.-- VALUE OF CROP AND LIVESTOCK SALES: 1970 TO 1990

[\$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 <u>1/</u>	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 <u>1/</u>	585,048	493,261	210,300	98,310	184,651	91,787
1990	588,844	500,400	213,800	99,255	187,345	88,444

1/ Revised from Data Book 1990, table 571.Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual) and records.

Table 555.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1980, 1989, AND 1990

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:					
1980	4,300	1,970	3,400	1,100	10,550
1989	4,650	1,720	2,400	1,100	9,800
1990	4,600	1,710	2,500	1,000	9,600
Hawaii County:					
1980	2,500	1,150	2,090	740	3,240
1989	2,700	1,010	1,575	725	3,610
1990	2,650	1,005	1,560	610	3,475
Maui County:					
1980	500	420	400	110	3,140
1989	600	360	225	110	2,560
1990	600	355	260	125	2,525
Oahu:					
1980	1,000	125	710	190	2,640
1989	950	125	450	200	2,425
1990	950	125	460	225	2,425
Kauai County:					
1980	300	275	200	60	1,540
1989	400	225	175	60	1,175
1990	400	225	200	60	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 556.-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES
OR ISLANDS: 1980, 1989, AND 1990

[\$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:						
1980	634,101	552,877	385,100	76,596	91,181	81,224
1989 <u>1/</u> ...	585,048	493,261	210,300	98,310	184,651	91,787
1990	588,844	500,400	213,800	99,255	187,345	88,444
Hawaii County:						
1980	215,640	193,169	137,500	-	55,669	22,471
1989 <u>1/</u>	207,445	174,741	56,900	-	117,841	32,704
1990	197,997	168,580	55,000	-	113,580	29,417
Maui County:						
1980	159,302	149,218	100,800	36,404	12,014	10,084
1989 <u>1/</u>	133,042	124,781	66,400	32,863	25,518	8,261
1990	144,488	135,654	69,600	36,975	29,079	8,834
Oahu:						
1980	165,131	122,194	63,200	40,192	18,802	42,937
1989 <u>1/</u>	179,670	133,608	35,500	65,447	32,661	46,062
1990	181,083	135,899	36,800	62,280	36,819	45,184
Kauai County:						
1980	94,028	88,296	83,600	(Z)	4,696	5,732
1989 <u>1/</u>	64,891	60,131	51,500	(Z)	8,631	4,760
1990	65,276	60,267	52,400	(Z)	7,867	5,009

Z Less than \$50,000.

1/ Revised from Data Book 1990, table 573.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual) and records.

Table 557.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1980, 1989, AND 1990

Subject	1980	1989 ^{1/}	1990
Acreege in crop (1,000 acres):			
Sugarcane	217.7	170.8	162.0
Pineapples (land used for pineapple)	43.0	32.7	30.9
Vegetables and melons (harvested acreage) ..	3.9	5.0	5.3
Fruits, excluding pineapples	5.2	7.4	7.0
Coffee	1.9	3.0	5.3
Macadamia nuts	13.3	22.3	22.6
Miscellaneous crops	6.4	4.8	4.6
Number of crop farms:			
Sugar	380	70	55
Pineapples	18	10	10
Vegetables and melons	585	525	485
Fruits (excluding pineapples)	692	709	735
Coffee	650	635	620
Macadamia nuts	475	675	690
Taro	122	150	140
Flowers and nursery products	640	710	710
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	9,214	7,082	6,538
Pineapples, fresh equivalent (1,000 tons) ..	657	580	575
Vegetables and melons (1,000 lb.)	70,710	83,250	84,920
Fruits, excluding pineapples (1,000 lb.) ...	67,800	109,980	105,310
Coffee, parchment (1,000 lb.)	1,440	3,200	2,700
Macadamia nuts, in shell (1,000 lb.)	33,390	50,500	50,000
Taro (1,000 lb.)	6,400	6,500	5,800
Value of crop sales (\$1,000):			
Sugar (unprocessed cane)	385,100	210,300	213,800
Pineapples (fresh equivalent)	76,596	98,310	99,255
Vegetables and melons	18,552	32,719	35,805
Fruits (excluding pineapples)	12,982	23,074	23,779
Coffee (parchment)	2,304	12,480	7,020
Macadamia nuts (in shell)	24,174	44,945	41,000
Taro	1,280	1,996	2,262
Field crops (not estimated separately)	4,101	6,981	6,882
Flowers and nursery products	27,688	62,206	70,347

^{1/} Revised from Data Book 1990, table 574.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 558.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1990

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	57.9	42.4	23.6	38.1
Pineapples (land used for pineapple)	-	18.2	12.7	(1/)
Vegetables and melons (harvested acreage)	1.5	2.9	0.8	0.1
Fruits, excluding pineapples	5.4	0.1	0.8	0.7
Coffee	5.3	-	-	-
Macadamia nuts	(D)	(D)	(D)	(D)
Miscellaneous crops	1.6	1.6	0.7	0.7
Number of crop farms:				
Sugar	45	2	3	5
Pineapples	-	5	2	3
Vegetables and melons	255	85	120	25
Fruits (excluding pineapples)	515	45	120	55
Coffee	620	-	-	-
Macadamia nuts	670	9	3	8
Taro	86	10	4	40
Flowers and nursery products	325	110	230	45
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	1,945	1,903	1,115	1,575
Pineapples, fresh equivalent (1,000 tons).	-	345	230	(2/)
Vegetables and melons (1,000 lb.)	28,690	45,240	10,500	490
Fruits, excluding pineapples (1,000 lb.) .	84,960	685	5,775	13,890
Coffee, parchment (1,000 lb.)	2,700	-	-	-
Macadamia nuts, in shell (1,000 lb.)	(D)	(D)	(D)	(D)
Taro (1,000 lb.)	1,300	(D)	(D)	3,620
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	55,000	69,600	36,800	52,400
Pineapples (fresh equivalent)	-	36,975	62,280	(3/)
Vegetables and melons	13,867	14,044	7,616	278
Fruits (excluding pineapples)	18,894	289	2,038	2,558
Coffee (parchment)	7,020	-	-	-
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	528	(D)	(D)	1,379
Field crops (not estimated separately) ...	89	3,783	1,058	1,952
Flowers and nursery products	33,767	9,092	25,892	1,596

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 1990.

Table 559.-- VEGETABLES, MELONS, FRUITS, NUTS, COFFEE, AND TARO: 1990

[Data shown for crops with sales in excess of \$1,000,000]

Crop	Acreage harvested ^{1/}	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Vegetables and melons:					
Chinese cabbage	390	17.7	6,900	22.8	1,573
Head cabbage	690	21.3	14,700	19.5	2,867
Cucumbers	210	16.9	3,550	41.0	1,456
Ginger root	190	50.0	9,500	71.5	6,792
Lettuce (head, semi-head)	300	11.0	3,300	42.0	1,386
Dry onions	120	9.7	1,160	102.5	1,189
Green onions	200	8.3	1,660	100.3	1,665
Green peppers	150	10.4	1,560	70.0	1,092
Tomatoes	230	20.0	4,600	65.0	2,990
Watermelons	700	21.1	14,800	13.2	1,954
Watercress	35	...	1,300	106.0	1,378
Fruits:					
Bananas	930	12.2	11,300	38.0	4,294
Guavas	1,040	...	22,130	15.0	3,320
Papayas	2,400	28.5	68,500	21.6	14,805
Macadamia nuts (1990-1991)	18,400	2.7	54,300	75.5	41,000
Coffee (1990-1991)	2,400	1.1	2,700	260	7,020
Taro	420	...	5,800	39.0	2,262

^{1/} Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1990.

Table 560.-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1972 TO 1990

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

Source: Hawaiian Sugar Planters' Association, records; Alexander & Baldwin, Inc., "Water to the Roots," Ampersand, Spring 1987, pp. 3-6.

Table 561.-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU,
BY SOURCE: 1988 TO 1990

[1,000 pounds, net]

Source	1988	1989	1990
Total arrivals	305,494	303,526	290,606
From Hawaii	101,541	91,881	88,631
Oahu <u>1/</u>	36,736	33,314	29,215
Other islands <u>2/</u>	64,805	58,567	59,416
Hawaii <u>2/</u>	31,257	30,203	27,123
Maui <u>2/</u>	16,007	15,388	15,137
Molokai <u>2/</u>	16,548	12,667	16,938
Kauai <u>2/</u>	993	309	218
From U.S. Mainland <u>2/</u>	195,516	205,915	194,610
From foreign countries <u>2/</u>	8,437	5,730	7,365

1/ Wholesalers' truck receipts.

2/ Ship and plane arrivals.

Source: Hawaii State Department of Agriculture, Market News Service, Honolulu Arrivals, Fresh Fruits and Vegetables, 1990 (June 1991), table 1.

Table 562.-- GOVERNMENT PAYMENTS FOR AGRICULTURE: 1982 TO 1990

[\$1,000]

Year	Amount	Year	Amount	Year	Amount
1982	586	1985	1,184	1988	465
1983	6,775	1986	2,810	1989	396
1984	2,675	1987	344	1990	657

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 563.-- LIVESTOCK INVENTORY, 1980 TO 1990, AND BY GEOGRAPHIC AREAS, 1990

[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
1980	220	13	57	1,314	7
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
GEOGRAPHIC AREAS: 1990					
Hawaii County	138.9	1.7	2.6	(D)	(NA)
Maui	29.6	0.9	7.7	(D)	(NA)
Molokai and Lanai	7.3	-	0.7	(D)	(NA)
Oahu	26.3	7.7	21.7	971	(NA)
Kauai County	11.9	0.5	3.3	(D)	(NA)

NA Not available.

D Withheld to avoid disclosing data for individual operations.

1/ As of January 1 of the following year.

2/ As of December 1.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 564.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES: 1980, 1989, AND 1990

Subject	1980	1989 ^{1/}	1990
Number of livestock operations, Dec. 31:			
Cattle ^{2/}	850	900	900
Hogs	650	550	500
Milk	80	80	80
Eggs	60	55	55
Broilers	10	8	8
Honey	27	11	12
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) ^{3/}	28,809	34,450	29,071
Pork (dressed weight; 1,000 lb.)	8,012	7,716	6,850
Milk (million lb.)	149.4	151.5	148.6
Eggs (million)	220.5	226.6	227.5
Broilers and chickens (1,000 lb.) ^{4/}	7,890	7,967	7,266
Honey (1,000 lb.)	861	1,215	1,570
Value of livestock sales (\$1,000):			
Cattle ^{5/}	28,074	31,483	28,735
Hogs ^{5/}	7,451	7,911	7,252
Milk	27,071	31,588	30,760
Eggs	13,910	14,956	16,115
Broilers and chickens	4,181	4,792	4,334
Other ^{6/}	531	1,057	1,248

^{1/} Revised from Data Book 1990, table 581.

^{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 565.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1990

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle <u>1/</u>	440	220	80	160
Hogs	80	80	250	90
Milk	41	7	20	12
Eggs	25	7	19	4
Broilers	-	-	7	1
Honey	7	3	-	2
Volume of livestock marketings:				
Beef <u>2/</u> (dressed weight; 1,000 lb.)	23,388	3,132	1,308	1,243
Pork (dressed weight; 1,000 lb.)	530	1,570	3,868	882
Milk (million lb.)	(D)	(D)	112.1	(D)
Eggs (million)	(D)	(D)	181.0	(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>	23,101	3,324	1,250	1,060
Hogs <u>4/</u>	569	1,727	3,945	1,011
Milk	(D)	(D)	23,384	(D)
Eggs	(D)	(D)	12,627	(D)
Broilers and chickens	(D)	(D)	(D)	(D)
Other <u>5/</u>	784	167	50	247

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 1990.

Table 566.-- CATTLE OPERATIONS, BY SIZE GROUP, BY ISLANDS: 1989

Head of cattle	State total	Ha-waii	Maui	Molokai, Lanai	Oahu	Kauai, Niihau
All operations	900	440	180	30	80	170
1 to 19 head	580	290	120	20	40	110
20 head or more	320	150	60	10	40	60

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1989, p. 75.

Table 567.-- LARGE RANCHES: 1991

Ranch	Island	Head of cattle	Acres of pasture <u>1/</u>
Parker Ranch	Hawaii	50,000	210,000
Molokai Ranch, Ltd.	Molokai	6,000	40,000
Ponoholo Ranch	Hawaii	5,300	10,000
Haleakala Ranch Co.	Maui	5,200	26,000
Ulupalakua Ranch	Maui	5,000	20,000
Kahua Ranch	Hawaii	4,330	14,000
Palani Ranch	Hawaii	4,300	23,000
Kahuku Ranch	Hawaii	4,200	14,000
Makaweli Ranch	Kauai	3,000	45,000
Puuwaawaa Ranch	Hawaii	3,000	40,000
McCandless Ranch	Hawaii	3,000	20,000
Hana Ranch	Maui	2,500	3,000
Niihau Ranch	Niihau	2,200	46,000

1/ Approximate total. Some figures include ungrazed acreage.

Source: Jan TenBruggencate, "After Parker Ranch, which is the largest?" Honolulu Advertiser, March 27, 1991, p. A15.

Table 568.-- FLORICULTURE AND NURSERY PRODUCTS, 1988 TO 1990,
AND BY ISLANDS, 1990

Island and year	Number of farms	Growing area					Wholesale value (\$1,000)
		Total (acres)	Greenhouse (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1988	675	1,833	4,690	23,800	70	1,109	59,551
1989	710	2,206	3,615	25,395	50	1,490	62,206
1990	710	2,298	5,695	23,385	35	1,595	70,347
Islands, 1990:							
Hawaii	325	1,109	4,800	15,425	35	610	33,767
Kauai	45	92	20	285	-	85	1,596
Maui/Molokai .	110	529	265	1,195	-	495	9,092
Oahu	230	568	610	6,480	-	405	25,892

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (August 8, 1991), pp. 10 and 13.

Table 569.-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1986 TO 1990

[\$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

Type	1986	1987	1988	1989	1990
Total sales ...	28,136	31,904	33,042	37,475	37,734
Anthuriums, cut	8,653	9,170	8,816	9,280	11,185
Foliage, potted	9,782	8,935	8,609	8,130	8,525
Other flowers, nursery products .	9,701	13,799	15,617	20,065	18,024

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers and Nursery Products, Annual Summary (August 8, 1991), p. 15.

Table 570.-- FLORICULTURE AND NURSERY PRODUCTS, BY COMMODITY: 1990

[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	141	1,000 dozens	1,300	7,527
Birds of Paradise	59	1,000 dozens	135	877
Ginger, pink	82	1,000 dozens	104	789
Ginger, red	112	1,000 dozens	162	844
Heliconias	117	1,000 dozens	220	1,339
Proteas	39	1,000 stems	1,343	976
Roses, Tea	13	1,000 dozens	716	2,533
Orchids:				
Sprays: Dendrobium	82	1,000 dozens	408	2,694
Potted: Dendrobiums	75	1,000 pots	540	2,885
Lei flowers:				
Carnations	21	Million blooms	20.8	1,069
Dendrobiums	52	Million blooms	26.0	755
Tuberose	7	Million blooms	30.4	981
Foliage:				
Potted, primarily for--				
Indoor or patio use	77	...	(NA)	14,591
Landscape use	66	...	(NA)	3,397
Unfinished stock (for further growing on)	26	...	(NA)	1,151
Potted flowering plants:				
Chrysanthemums	8	1,000 pots	230	869
Poinsettias	33	1,000 pots	290	1,144
Ornamentals and trees	70	...	(NA)	7,067
Plant rentals	48	...	(NA)	3,673

NA Not available.

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (August 8, 1991), pp. 3-9.

Table 571.-- MARKET SUPPLY OF SPECIFIED FOODS: 1980, 1989, AND 1990

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:					
1980	80,586	61,926	18,660	76.4	23.2
1989 <u>3/</u>	186,116	92,896	93,220	149.4	50.1
1990	208,948	89,753	119,195	166.4	57.0
Fresh market vegetables:					
1980	172,724	105,414	67,310	163.8	39.0
1989 <u>3/</u>	227,153	159,003	68,150	182.4	30.0
1990	218,538	149,638	68,900	174.0	31.5
Beef and veal: <u>4/</u>					
1980	94,359	65,550	28,809	89.5	30.5
1989	113,653	79,203	34,450	91.3	30.3
1990	111,537	82,466	29,071	88.8	26.1
Pork: <u>4/</u>					
1980	34,830	26,818	8,012	33.0	23.0
1989	42,491	34,775	7,716	34.1	18.2
1990	41,762	34,912	6,850	33.3	16.4
Chickens:					
1980	33,345	25,455	7,890	31.6	23.7
1989	46,743	38,776	7,967	37.5	17.0
1990	48,929	41,663	7,266	39.0	14.9
Eggs:					
1980	20,746	2,371	18,375	19.7	88.6
1989 <u>3/</u>	20,609	1,726	18,883	16.5	91.6
1990	20,595	1,637	18,958	16.4	92.1

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population estimates in table 3.

3/ Revised from Data Book 1990, table 586.

4/ Carcass weight equivalent.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 572.-- 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 573.-- 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 <u>1/</u> 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 574.-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 1990

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

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records, October 9, 1991.

Table 575.-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION, AND VALUE,
BY COUNTIES: 1990

Subject	State total	Hawaii	Maui	Honolulu	Kauai
Number of operations ...	53	21	5	22	5
Prawn producers	10	-	-	10	-
Acreage (Dec. 31)	489	84	13	377	15
Production (1,000 lb.)..	1,452.0	580.4	14.3	855.8	1.0
Shellfish	598.6	20.0	14.0	563.6	1.0
Finfish	277.0	130.3	.3	145.9	(NA)
Algae	576.4	430.1	-	146.3	-
Other <u>1/</u>	(NA)	(NA)	(NA)	(NA)	(NA)
Value (\$1,000)	9,241.1	5,013.6	76.9	4,148.1	2.5
Shellfish	3,002.3	120.0	76.0	2,803.8	2.5
Finfish	991.5	508.9	.9	481.7	(NA)
Algae	4,171.9	3,799.2	-	372.7	-
Other <u>1/</u>	1,075.4	585.5	(NA)	489.9	(NA)

NA Not available.

1/ Nonfood products: ornamental fish, seedstock, other.

Source: Hawaii State Department of Land and Natural Resources,
Aquaculture Development Program, October 9, 1991.

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 45,000 acres had been planted in eucalyptus and other species of trees by mid-1990. 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 5.3 square miles in fiscal 1990.

The commercial fish catch in fiscal year 1990 amounted to 15.4 million pounds, with a value of \$36 million to primary producers. Ahi (yellowfin) and aku (skipjack) accounted for 44 percent of the total value. Other important species are swordfish, spiny lobster, opakapaka, mahimahi, akule, and ono. Commercial fishermen numbered 3,551. Among Marine Life Conservation Districts, those with the most fish per acre were Honolua-Mokuleia Bays (4,497), Hanauma Bay (3,788), and Kealakekua Bay (3,414).

The value of mineral production reached \$103 million in 1990, almost all of it in cement (\$42 million) and crushed stone (\$55 million). The 1990 total 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: 1991, Sections 24 and 25.

Table 576.-- FOREST AND NATURAL AREA ACREAGE: JUNE 30, 1990

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 ..	639,592	327,845	355	45,853	21	122,703
Hawaii	438,416	106,745	125	16,976	9	86,135
Maui	73,227	53,180	148	11,837	4	17,123
Kahoolawe	-	-	-	-	-	-
Lanai	-	6,150	-	512	-	-
Molokai	16,030	-	2	3,219	2	2,950
Oahu	28,626	87,920	45	7,084	3	1,770
Kauai	83,293	73,850	35	6,225	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 577.-- 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 578.-- LAND AREA, BY VEGETATION TYPE AND FOREST RESERVE STATUS, FOR MOLOKAI, OAHU, AND KAUAI: 1986

[In acres. Excludes land in forest plantations. Surveys of Hawaii, Maui, Kahoolawe, and Lanai are planned for 1992]

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 579.-- 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:	
		Total (mil. bd. ft.)	1,196
Timberland	700	Softwood (mil. bd. ft.)	18
Federal	-		
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 580.-- FOREST AND BRUSHLAND FIRES, 1988 TO 1990, AND BY
COUNTIES, 1990

[Years ended June 30]

Subject	1988	1989	1990, by counties				
			State total	Hawaii	Maui	Hono- lulu	Kauai
Number of fires ..	79	82	210	128	43	33	6
Acres burned	34,794	6,585	3,384	1,827	223	1,325	9

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

Table 581.-- COMMERCIAL FISHING: 1970 TO 1990

[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

^{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 582.-- COMMERCIAL FISH CATCH, BY SPECIES: 1990

[Year ended June 30, 1990]

Species <u>1/</u>	Pounds caught	Pounds sold	Value (dollars)
Total catch	15,370,302	14,836,135	35,984,313
Sea catch, all species <u>2/</u>	15,350,576	14,816,617	35,939,707
Tunas	7,666,660	7,498,663	16,016,478
Aku (Skipjack)	2,771,063	2,707,992	3,962,056
Ahipalaha	212,093	211,419	307,561
Bigeye (ahi)	1,549,390	1,546,048	5,094,899
Yellowfin (ahi)	3,103,943	3,010,869	6,624,431
Billfishes	3,442,745	3,329,065	6,700,151
Blue marlin	1,132,636	1,045,637	925,774
Striped marlin	643,310	633,141	846,966
Swordfish	1,523,285	1,522,002	4,766,443
Miscellaneous pelagic fishes ..	1,095,131	1,041,091	2,429,593
Mahimahi	510,696	477,768	1,207,137
Ono	360,365	341,212	1,013,209
Deep bottom fishes	789,564	746,764	2,875,925
Opakapaka	272,403	266,110	1,114,597
Uku	151,277	148,258	524,182
Ulaula	145,666	140,663	720,787
Akule/opelu	1,127,051	1,033,791	1,793,105
Akule	694,859	613,376	1,094,728
Opelu	372,773	362,596	599,241
Jacks	197,201	185,783	358,782
Inshore fishes	196,529	180,504	428,378
Sharks	84,115	74,535	62,826
Lobsters (ula)	341,383	325,123	3,602,803
Crabs	26,693	25,169	125,809
Shrimps	341,433	341,303	1,453,270
Other animals	27,557	22,941	59,012
Seaweeds	9,421	7,365	28,035
Miscellaneous	5,093	4,520	5,540
Pond landings, all species	19,726	19,518	44,606

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 1989-1990.

Table 583.-- COMMERCIAL SEA LANDINGS, BY ISLANDS: 1990

[Year ended June 30, 1990]

Island	Pounds landed	Pounds sold	Value (dollars)
State total	15,350,576	14,816,617	35,939,707
Hawaii	2,783,460	2,680,145	4,935,260
Maui	684,227	553,379	1,228,580
Lanai	21,852	18,397	43,807
Molokai	71,306	52,690	156,550
Oahu	10,841,040	10,681,796	27,799,187
Kauai and Niihau	948,691	830,210	1,776,317

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings, State of Hawaii--Fiscal Year 1989-1990.

Table 584.-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD: 1990

[Year ended June 30, 1990]

Fishing method	Pounds landed	Pounds sold	Value (dollars)
All methods	15,350,576	14,816,617	35,939,707
Aku pole and line	2,477,726	2,477,726	3,564,296
Longline	5,790,578	5,773,081	14,814,658
Handline	2,662,734	2,570,405	6,492,913
Trolling	2,665,838	2,349,348	4,222,722
Net	929,949	848,787	1,482,361
Trap	720,701	708,141	5,147,193
All other methods	103,050	89,129	215,564

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings, State of Hawaii--Fiscal Year 1989-1990.

Table 585.-- FISH POPULATIONS AROUND SELECTED SHORELINE AREAS:
YEAR ENDED JUNE 30, 1990

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu (in shore)	60	3,788	3,186
Pupukea, Oahu	91	2,582	346
Waikiki, Oahu	(NA)	(NA)	427
Molokini Shoal, Maui	86	2,250	623
Honolua-Mokuleia Bays, Maui	74	4,497	1,377
Manele-Hulopoe Bays, Lanai	(NA)	2,338	430
Wailea Bay, Hawaii	73	1,524	372
Lapakahi, Hawaii	91	2,074	360
Kealakekua Bay, Hawaii	92	3,414	542
Artificial reefs:			
Maunaloa Bay, Oahu (tire modules) .	67	(NA)	3,133
Waianae, Oahu (tire modules)	(NA)	(NA)	932
Keawakapu, Maui	(NA)	(NA)	648
Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	(NA)	(NA)	252
Puako Reef, Hawaii	42	1,331	218
Other areas:			
Na Pali Coast, Kauai	77	2,692	296
Waimea Bay, Oahu	57	2,245	166
Honokahau, Kona	30	1,063	190
Wawahiwaa, Kona	58	2,229	204
Kaiwi, Kona	50	4,136	635
Red Hill, Kona	64	3,225	631

NA Not available.
Source follows next table.

Table 586.--MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED
LOCATIONS: YEAR ENDED JUNE 30, 1990

[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
Waikiki MLCD, Oahu:				
Manini (<i>acanthurus triostegus</i>)	1	407	3	65
Lavender tang (<i>acanthurus nigrofuscus</i>)	2	294	2	78
Saddle-back wrasse (<i>thalassoma duperrey</i>) ..	3	245	5	19
Kala (<i>naso unicornis</i>)	4	143	1	151
Hanauma Bay MLCD, Oahu:				
Aholehole (<i>Kuhlia sandivcensis</i>)	1	864	3	382
Manini (<i>acanthurus triostegus</i>)	2	590	7	113
Mamo (<i>abudedefduf abdominalis</i>)	3	392	(NA)	(NA)
Nenue (<i>kyphosus bigibbus</i>)	5	235	1	1,200
Pualu (<i>acanthurus xanthopterus</i>)	9	158	2	1,013
Kealakekua Bay MLCD, Hawaii:				
Yellow tang (<i>zebrasoma flavescens</i>)	1	1,131	1	142
Kole (<i>ctenochaetus strigosus</i>)	2	378	7	15
Maikoiko (<i>acanthurus leucopareius</i>)	3	260	3	45
Eleele (<i>melichthys niger</i>)	7	164	2	103

NA Not available.

MLCD Marine Life Conservation District.

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, 1989 to June 30, 1990.

Table 587.-- 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 588.-- NONFUEL MINERAL PRODUCTION: 1988 TO 1990

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Minerals	1988	1989 <u>1/</u>	1990 <u>2/</u>
QUANTITY (1,000 SHORT TONS)			
Cement:			
Masonry	10	10	10
Portland	354	493	500
Gem stones	(NA)	(NA)	(NA)
Sand and gravel (construction)	652	600	1,000
Stone (crushed)	*5,700	6,205	7,000
VALUE (\$1,000)			
Total <u>3/</u>	74,932	92,051	103,144
Cement:			
Masonry	1,531	1,566	600
Portland	28,880	40,495	41,500
Gem stones	(W)	44	44
Sand and gravel (construction)	3,173	*3,200	5,600
Stone (crushed)	*41,000	46,746	55,400
Other industrial minerals <u>3/</u>	348	(W)	(W)

* Estimated.

NA Not available.

W Withheld to avoid disclosing company proprietary data.

1/ Revised from Data Book 1990, table 603.

2/ Preliminary.

3/ Except for 1988, totals exclude values indicated by symbol W.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1990," Mineral Industry Surveys (1991).

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 28,000 building permits issued in 1990, with an estimated value of \$2.4 billion. The total included \$1.0 billion for new private residential construction, \$169 million for hotels, and \$501 million for private nonresidential structures. The value of government construction contracts awarded was \$801 million. Construction put in place, as indicated by the contracting tax base, totaled \$4.0 billion in 1990. The value of land transfers in fiscal 1991 was \$11.3 billion, 9.1 percent of the assessed value of all privately-owned real property in the State. The June 1991 construction cost index for Honolulu (1982=100) was 151 for single-family residences and 148 for high-rise buildings.

The number of housing units in the State increased from 334,000 in 1980 to 390,000 in 1990 and 398,000 in 1991. Owner occupied units numbered 152,000 in 1980 and 192,000 in 1990; the latter total included 29,000 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 public, accounted for 27,000 units as of 1990. 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 1990, based on Multiple Listing Service data, was \$352,000; for condominium units it was \$187,000. 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: 1991.

Table 589.-- NUMBER AND VALUE OF BUILDING PERMITS,
BY COUNTIES: 1980 TO 1990

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1980	22,771	15,729	3,732	1,210	2,040
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
ESTIMATED VALUE (\$1,000)					
1980	1,278,911	745,565	146,395	133,261	253,690
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

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 590.-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES: 1990

[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
Total	2,122,065	996,792	449,962	241,394	433,916
Residential	1,000,818	390,444	260,189	160,985	189,200
Hotel	169,168	65,630	67,027	2,800	33,711
Non-residential	500,604	223,038	92,017	27,685	157,864
Additions and alterations	451,475	317,679	30,729	49,925	53,142

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 591.-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1980 TO 1990

[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
1980 ...	1,569,658	1984 ...	1,242,929	1988 ...	2,487,571
1981 ...	1,613,764	1985 ...	1,367,733	1989 ...	3,112,846
1982 ...	1,294,871	1986 ...	1,808,024	1990 ...	4,003,650
1983 ...	1,353,405	1987 ...	2,003,056		

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 592.- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY AND LOCATION OF CONSTRUCTION: 1986 TO 1990

[In thousands of dollars. By date of publication]

Awarding agency and location	1986	1987	1988	1989	1990
Total	425,145	372,165	650,225	758,332	800,975
Awarding agency:					
Federal agencies	101,943	107,874	170,506	192,358	101,007
State agencies	205,443	174,207	351,705	417,152	549,883
City and County of Honolulu	90,413	79,090	120,285	146,609	110,179
Other counties	27,346	10,994	7,729	2,213	39,906
Location of construction:					
City and County of Honolulu	313,444	293,358	493,865	649,922	539,871
County of Hawaii	61,041	32,261	41,057	26,862	54,804
County of Kauai	33,765	21,080	20,696	30,891	49,915
County of Maui	16,895	25,466	94,607	50,657	153,651

Source: Compiled by Hawaii State Department of Business and Economic Development from Trade Publishing Company, BID Service Weekly.

Table 593.-- 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 594.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS, BY INDUSTRY: 1982 AND 1987

[Includes establishments both with and without payroll]

1987 SIC code	Industry	Number	Proprietors and working partners	All employees (average)	Value of business done (\$1,000)
1987					
	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
1982					
	Construction industries and subdividers and developers	4,259	2,799	18,665	2,032,087
15-17	Construction industries	4,092	2,645	18,340	1,894,673
15	Building construction--General contractors and operative builders	1,020	564	6,290	944,585
16	Heavy construction other than building construction--contractors	133	67	1,768	179,221
17	Special trade contractors	2,939	2,014	10,282	770,867
6552	Land subdividers and developers, n.e.c. <u>1/</u>	162	154	323	137,412

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 595.-- 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 596.-- ESTIMATED VALUE PER HOUSING UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1985 TO 1990

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1985	1986	1987	1988	1989	1990
One-family	67,783	80,119	80,719	101,649	109,519	144,090
Two-family	58,337	59,184	64,490	69,465	84,415	133,905
Multi-family	46,089	47,789	42,507	81,169	100,462	68,363

Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual tabular release).

Table 597.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1986 TO 1990

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1986	4,985	2,024	2,961	1,127	417	1,417
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
New duplex units:						
1986	166	112	54	18	2	34
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
New apartments:						
1986	2,570	2,076	494	22	-	472
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
Units demolished: <u>1/</u>						
1986	690	534	156	43	60	53
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

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 598.-- HONOLULU CONSTRUCTION COST INDEXES: 1982 TO 1991

[1982=100. Data are annual averages unless otherwise specified]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor <u>1/</u>	All components	Materials prices	Labor <u>1/</u>
1982	100.0	100.0	100.0	100.0	100.0	100.0
1983	109.5	111.3	107.3	106.9	107.4	106.7
1984	114.3	113.1	115.8	110.9	108.0	114.2
1985	117.4	115.2	120.1	113.5	108.7	118.2
1986	121.5	119.1	124.4	116.8	110.8	122.4
1987	125.7	123.7	128.2	120.7	114.9	125.8
1988	132.8	133.2	132.2	126.1	121.6	129.9
1989	138.5	137.2	140.3	133.2	126.7	138.8
1990	145.7	145.1	146.4	142.1	138.5	145.2
1991 (June) .	150.8	149.7	151.7	148.4	149.2	147.4

1/ Wages and benefits.

Source: First Hawaiian Bank, Research Department, records.

Table 599.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINIUM UNITS: 1963 TO 1990

Subject	1963-1984	1985	1986	1987	1988	1989	1990
Projects	290	18	36	35	34	47	80
Housing units	11,977	117	151	398	99	150	545

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 600.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII:
1986 TO 1990

Subject	1986	1987	1988	1989	1990
Projects	87	94	104	153	201
Residential units	1,346	2,289	2,060	2,575	4,301
Business or commercial units <u>1/</u> .	405	153	133	139	147

1/ Includes units in agricultural condominium projects which can be used for residential or business/commercial purposes (110 in 1987, 50 in 1988, 120 in 1989, 72 in 1990).

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Commission, records.

Table 601.-- 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]

Geographic area	Properties	Units
State total	63	2,497
Oahu	17	940
Waikiki	15	867
Rest of Oahu	2	73
Hawaii	6	122
Kauai	16	759
Maui	24	676

Source: State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Time Sharing Office, records.

Table 602.-- CONDOMINIUM AND COOPERATIVE HOUSING UNITS, BY
COUNTIES: 1987

Type of housing unit	State total	Honolulu	Maui	Hawaii	Kauai
Condominium units <u>1/</u>	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 603.-- 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 <u>1/</u>	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 604.-- TENURE AND CONTROL OF HOUSING UNITS: ANNUALLY, 1980 TO 1991

[Data include 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

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 607.

Table 605.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY,
1980 TO 1991

[As of April 1. Data include 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

Source: Source follows table 607.

Table 606.-- TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1980, 1990, AND 1991
 [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	Private <u>3/</u>	Federal <u>1/</u>	State and County <u>1/</u>
1980						
State total ..	334,235	100,478	36,986	170,963	19,437	6,371
City & Co. of Hon.	252,038	69,147	35,278	123,454	19,290	4,869
County of Hawaii ..	34,215	15,111	964	17,191	57	892
County of Kauai ...	14,828	5,551	126	8,833	64	254
County of Maui <u>4/</u> .	33,154	10,669	618	21,485	26	356
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

1/ As of April 1. • 8,420 + 10,229

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 (121 units in 1980, 114 units in 1990 and 1991).

Source follows table 607.

Table 607.-- RESIDENT AND NONRESIDENT HOUSING UNITS, BY COUNTIES:
ANNUALLY, 1980 TO 1991

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	370,331	276,567	93,764	46,138	14,747	32,879
1991	378,257	280,116	98,141	48,178	16,114	33,849
<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	19,479	5,116	14,363	2,115	2,866	9,382
1991	20,068	4,719	15,349	2,401	2,535	10,413

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.

Source: Hawaii State Department of Business, Economic Development & Tourism, Housing Unit Estimates for Hawaii, 1980-1991 (Statistical Report 223, forthcoming).

Table 608.-- SELECTED HOUSING CHARACTERISTICS: 1980 AND 1990

[Data include most condominium units used or intended for use by transients]

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

Continued on next page.

Table 608.-- 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 609.-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES: 1990

[Data include most 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 609.-- 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 610.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1988 TO 1990

[Some functions of the Hawaii Housing Authority were transferred to the Housing Finance and Development Corporation by SLH 1987, Act 337, effective July 1, 1987. The data presented in this table accordingly exclude HFDC units and assets.]

Subject	1988	1989	1990
Total units owned by HHA, June 30 <u>1/</u>	5,723	5,723	5,723
Occupied	5,675	5,641	5,199
Population in units, June 30	17,083	16,817	17,878
Per occupied unit	3.01	2.98	3.43
Total assets, June 30 (million dollars) ..	151	147	157
Operating revenues of HHA, fiscal year: <u>2/</u>			
Gross (\$1,000)	13,254	14,223	15,607
Net (\$1,000)	5,567	6,571	5,706
Operating revenues per unit per month, fiscal year (dollars) <u>2/</u>	200.03	227.98	250.15
Rent charged per unit per month, fiscal year (dollars) <u>2/</u>	186.58	190.32	207.20

1/ Federal low-rent, 5,213; State-subsidized, 510, for all years.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 611.-- 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 612.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: ANNUAL AVERAGES, 1970 TO 1990

[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 <u>1/</u> ..	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 <u>2/</u> ..	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 <u>3/</u> ..	7,238	3,827	3,411	4.5	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

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 613.-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN,
CHANGING RESIDENCE IN PAST YEAR: 1978 TO 1988

[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:				
1978	148,048	110,451	15.5	14.7
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
Household heads:				
1978	48,875	36,968	18.9	16.0
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

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 614.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS: 1988

[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	310,874	255,957	51,708	16.6	3,209
Military or dependent ...	34,656	21,323	12,807	37.0	526
Military	34,459	21,256	12,677	36.8	526
Military dependent	197	67	130	66.0	-
Civilian	276,218	234,634	38,901	14.1	2,683

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 615.-- ESTIMATED NUMBER OF PERSONS HOMELESS ON A GIVEN DAY, BY COUNTIES: FEBRUARY TO APRIL 1990

Category	State total	Hono-lulu	Ha-waii	Kauai	Maui
High estimate <u>1/</u>	8,369	6,362	803	165	1,039
Low estimate <u>2/</u>	7,023	5,833	336	165	689
In shelters	1,063	808	102	21	132
Receiving other services...	2,329	1,739	158	14	418
Unservd.....	3,631	3,286	76	130	139

1/ Based on number in "open shelters."

2/ Currently in any type of shelter.

Source: SMS Research & Marketing Services, Inc., Hawaii's Homeless (prepared for the Hawaii Housing Authority, July 2, 1990), p. 18.

Table 616.-- 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	10,714	5,214
Broker:			Hawaii	1,605	691
Individual	4,325	669	Maui	1,668	581
Corporation or			Kauai	589	301
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 617.-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE SPACE FOR HONOLULU, BY LOCATION: 1988 TO 1991

[Rates are percent of space reported vacant in survey]

Location	May 1988	Oct. 1988	May 1989	Oct. 1989	May 1990	Oct. 1990	May 1991
Downtown	5.0	5.6	6.1	4.2	3.1	(NA)	1.8
Downtown to Waikiki	4.1	1.6	1.3	9.0	4.5	(NA)	4.9
Waikiki	3.5	1.1	(NA)	2.0	6.1	(NA)	10.3
Other	10.0	10.7	9.3	3.0	8.3	(NA)	7.0

NA Not available.

Source: Semi-annual survey by Hastings, Martin, Conboy, Braig & Associates, Ltd., cited in Building Owners & Managers Association, Hawaii, Newsletter, (monthly).

Table 618.-- OFFICE RENTS AND VACANCY RATES, FOR SELECTED AREAS ON OAHU: MARCH 1991

Measure	Airport area	Central business district	Kapio-lani corridor	Waikiki	East Oahu
Median weighted lease rent per square foot (dollars):					
Gross	2.11	2.65	2.34	2.77	2.56
Net	1.71	1.89	1.77	1.51	1.88
Vacancy rate <u>1/</u>	3.0	2.1	3.9	6.6	15.8

1/ Percent, based on square footage. The five-area combined rate was 3.4.

Source: Coopers & Lybrand, Honolulu Office Market Report, First Quarter 1991.

Table 619.-- MEDIAN PURCHASE PRICE OF EXISTING ONE-FAMILY HOMES, FOR OAHU: 1982 TO 1988

[Based on surveys of conventional first mortgages]

Subject	1982	1983	1984	1985	1986	1987	1988
Amount (\$1,000)	129.1	135.0	138.7	150.6	161.6	177.6	174.7
Rank <u>1/</u>	2	2	2	3	2	4	6

1/ Among 32 metropolitan areas.

Source: U.S. Office of Thrift Supervision, 1988 Savings and Home Financing Source Book, table D5, pp. D-5 to D-15.

Table 620.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES,
FOR OAHU: 1970 TO 1990

[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)
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
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>1/</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

1/ Year ended February 28 or 29.

2/ March through December.

3/ January 1 through December 3.

Source: Honolulu Board of Realtors, records.

Table 621.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1988 TO 1990

Year and type of property	Number listed	Number sold	Percent sold	Sales price (dollars)	
				Mean	Median
1988					
Total	14,548	9,886	68.0	201,000	146,800
Single family residential	4,518	3,026	67.0	312,300	210,000
Condominium/cooperative ..	8,993	6,546	72.8	140,300	114,000
Vacant land	483	169	35.0	284,000	195,000
Multi-family	156	53	34.0	662,800	450,000
Commercial/industrial	140	54	38.6	611,300	200,000
Business opportunities ...	258	38	14.7	74,300	59,000
1989					
Total	13,873	9,757	70.3	238,257	...
Residential (1-family) ...	4,503	2,922	64.9	372,361	270,000
Condominium/cooperative ..	8,177	6,486	79.3	164,496	135,500
Vacant land	485	201	41.4	383,373	250,000
Multi-family	185	64	34.6	716,658	500,000
Commercial	153	47	30.7	775,976	410,000
Business opportunities ...	370	37	10.0	156,405	60,000
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

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 622.-- MULTIPLE LISTING SERVICE UNITS SOLD, SINGLE-FAMILY RESIDENTIAL AND CONDOMINIUM, BY SELLING PRICE RANGE, FOR OAHU: 1989 AND 1990

Selling price range	Single-family residential		Condominium	
	1989 ^{1/}	1990	1989	1990
All properties	2,922	2,744	6,486	6,149
Less than \$50,000	4	-	92	10
\$50,000, less than \$75,000	6	-	645	111
\$75,000, less than \$100,000	21	2	931	318
\$100,000, less than \$125,000	50	7	970	465
\$125,000, less than \$150,000	98	28	1,117	810
\$150,000, less than \$175,000	182	34	844	845
\$175,000, less than \$200,000	271	69	614	898
\$200,000, less than \$225,000	251	76	322	654
\$225,000, less than \$250,000	333	121	240	543
\$250,000, less than \$275,000	265	237	158	377
\$275,000, less than \$300,000	254	288	131	234
\$300,000, less than \$400,000	546	829	216	456
\$400,000, less than \$500,000	225	386	83	137
\$500,000, less than \$600,000	150	190	29	84
\$600,000, less than \$700,000	63	114	29	57
\$700,000, less than \$800,000	51	85	11	38
\$800,000, less than \$900,000	31	55	9	16
\$900,000, less than \$1,000,000	25	43	11	30
\$1,000,000 or more	96	180	34	66
Median value	\$270,000	\$352,000	\$135,500	\$187,000
Mean value	\$372,361	\$498,511	\$164,496	\$225,901

1/ Median revised from Data Book 1990, table 639.

Source: Honolulu Board of Realtors, Multiple Listing Service records.

Table 623.-- AVERAGE MONTHLY RENTS FOR A THREE-ROOM, ONE-BATH,
800-SQ. FT. APARTMENT IN HONOLULU AND OTHER CITIES: 1991

[Estimates for 10 highest U.S. cities and national median]

City	Dollars	City	Dollars
Honolulu	960	Chicago	705
New York (Westchester Co.) ..	840	Hartford	630
Boston	825	Providence	600
Washington, D.C.	825	Philadelphia	595
San Francisco	710	U.S. median	400
Los Angeles	705		

Source: Runzheimer International, cited in Sunday Star-Bulletin & Advertiser, September 8, 1991, p. G-1.

Table 624.-- CHARACTERISTICS OF PRIVATE SINGLE-FAMILY AND MULTI-FAMILY
DEVELOPMENTS, FOR OAHU: 1985 TO 1990

Year	Single-family developments				Multi-family developments ^{1/}		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1985 ..	1,263	5,360	1,139	148,711	773	316	93,737
1986 ..	1,191	4,887	1,392	154,411	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	202,151	837	510	119,630
1990 ..	1,342	5,174	617	286,549	711	579	140,391

^{1/} Four stories or less.

Source: Bank of Hawaii, Construction in Hawaii, 1991 (1991), p. 25.

Table 625.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE:
1985 TO 1990

Year	Mortgages recorded			Fore- clo- sures 1/ (\$1,000)	Mortgage assign- ments (\$1,000)	Agree- ments of sale (\$1,000)
	Number	Total value (\$1,000)	Average value (dollars)			
1985 ...	30,777	3,809,595	123,780	81,525	3,566	257,588
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

* 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, 1991 (1991), p. 35.

Table 626.-- MORTGAGE LOANS OUTSTANDING: 1965 TO 1990

[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
1965	1,022.7	1974	3,210.2	1983	7,553.9
1966	1,138.6	1975	3,564.9	1984	7,708.0
1967	1,228.1	1976	3,959.5	1985	6,505.3
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	2,093.1	1980	7,131.4	1989	6,665.8
1972	2,424.2	1981	7,498.0	1990	7,783.6
1973	2,797.4	1982	7,730.1		

Source: Bank of Hawaii, Hawaii 1991, Annual Economic Report (1991), p. 35.

Table 627.-- 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, etc., as well as deeds]

Subject	1988	1989	1990	1991
Number of deeds filed and recorded	53,204	61,674	75,534	71,933
Approximate value of land conveyed (\$1,000) ..	7,958,152	10,365,238	16,154,886	11,304,180

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 628.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1988 TO 1990

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1988	1989	1990
State total	9,468,113,350	13,303,281,000	14,262,953,800
Honolulu	6,705,645,400	8,514,925,700	8,764,531,600
Maui	1,177,183,891	2,446,997,200	2,046,874,000
Hawaii	1,139,148,059	1,671,483,100	2,893,085,800
Kauai	446,136,000	669,875,000	558,462,400

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 629.-- CHARACTERISTICS OF SINGLE FAMILY HOMES INSURED
FHA SECTION 203(B): 1988 AND 1990

Subject	1988	1990
Number insured	2,122	897
Proposed	630	382
Existing	1,492	515
Amount (\$1,000)	249,255	113,389
Averages:		
Age of structure (years)	12.8	13.5
Improved living area (square feet)	1,305	1,224
Lot size (square feet)	6,511	7,481
Number of rooms	6.0	5.6
Market price of site	59,774	67,468
Site to value ratio (percent)	42.8	50.3
Site price per square foot (dollars)	*5.96	5.45
Construction cost per square foot (dollars)	*62.17	62.98
Appraised value (dollars)	138,697	163,032
Sales price per square foot (dollars)	*126.07	136.01
Annual family income (dollars)	48,765	47,317

*Sample under 25.

Source: U.S. Department of Housing and Urban Development, Housing Information and Statistics Division, FHA Homes - 1988, pp. 33-64, and FHA Homes - 1990, pp. 31-60.

Table 630.-- 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 (m. l. 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 631.-- 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
Kahala Theaters (5 theaters)	1,460
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
Cinerama Theater	646
Kennedy Theater	600
Ruger Theater	507
Richard T. Mamiya Theatre	500
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 631.-- 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 632.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES:
DECEMBER 31, 1990

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	4,669	3,804	123	157	399	2	12	172
Elevators	4,039	3,258	98	148	363	-	10	162
Under 9 stories:								
Hydro	979	656	40	52	127	-	9	95
Roped	1,363	996	48	96	170	-	1	52
9 to 18 stories	1,046	955	10	-	66	-	-	15
19 to 28 stories	375	375	-	-	-	-	-	-
29 to 38 stories	192	192	-	-	-	-	-	-
39 stories or more	84	84	-	-	-	-	-	-
Escalators and moving walks	302	290	6	-	4	-	-	2
Inclined lifts	9	2	3	1	1	-	-	2
Private industrial elevators	11	1	-	3	7	-	-	-
Manlifts	11	10	-	1	-	-	-	-
Chair lifts	19	16	-	2	-	-	-	1
Dumbwaiters	274	225	16	1	23	2	2	5
Other facilities	4	2	-	1	1	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 633.-- TALLEST STRUCTURES, BY ISLANDS: MARCH 1991

Island and structure	Location	Year completed	Height	
			Stories	Feet
BUILDINGS <u>1/</u>				
Hawaii: Bayshore Towers	Hilo	1970	15	135
Maui: <u>2/</u> Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Royal Lahaina Hotel	Kaanapali	1970	12	132
Molokai: <u>2/</u> 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: <u>2/</u> KMVI Radio Tower	Wailuku	1947	...	455
Lanai: <u>2/</u> Storage tanks	Manele Harbor .....	...	...	50
Molokai: <u>2/</u> KAIM Radio Tower	Kalua Koi	1981	...	410
Oahu: VLF Antenna	Lualualei	1972	...	1,503
Kauai: Communication Engineers Tower	Mana	1964	...	400
Kure Atoll: Loran Transmitting Tower .	Kure Atoll	1962	...	625

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 Dept. of Research and Development, Maui County Dept. of Public Works, City and County of Honolulu Building Dept., Kauai County Dept. of Public Works, and 14th Coast Guard District.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning. Additional information on manufacturing workers appears in Sections 12 and 15.

The number of manufacturing establishments in Hawaii increased from 697 in 1967 to 1,020 in 1987. The value added by manufacture rose from \$326 million in 1967 to \$786 million in 1977, \$1.41 billion in 1987, and \$1.61 billion in 1989. More than three-fourths of all manufacturing activity in the State in 1987 was on Oahu. Food processing--mostly sugar and pineapple--accounted for 41 percent of the value added by manufacture in 1987. In 1990, the general excise and use tax base for diversified manufacturing (that is, manufacturing exclusive of sugar processing, pineapple canning, and petroleum refining) was \$728 million. There were two pineapple canneries and 12 sugar mills in Hawaii in 1990. Canned and fresh pineapple sales in 1990 totaled \$216 million, down somewhat from earlier years. Sugar production in 1990 amounted to 820,000 short tons, the lowest total in 32 years. The value of sugar production (including commercial molasses) in 1990 was \$329 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 conducted 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: 1991.

Table 634.-- STATISTICAL SUMMARY OF MANUFACTURES: 1963 TO 1989

Subject	1963	1967	1972	1977	1982
All establishments: ^{1/}					
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 ^{2/} (million dollars)	261.1	326.2	410.0	785.5	1,119.6
Cost of materials ^{3/} (million dollars)	(NA)	399.6	548.3	1,176.1	2,357.5
Value of shipments ^{3/} (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 634.-- STATISTICAL SUMMARY OF MANUFACTURES: 1963 TO 1989--Con.

Subject	1985	1986	1987	1988	1989
All establishments: <u>1/</u>					
Total	(NA)	(NA)	1,022	(NA)	(NA)
With 20 employees or more	(NA)	(NA)	225	(NA)	(NA)
All employees:					
Number (1,000)	23.0	23.1	22.2	21.7	20.5
Payroll (million dollars)	400.7	424.0	440.2	452.4	432.6
Production workers:					
Number (1,000)	15.8	15.7	15.2	14.3	13.0
Hours (millions)	28.0	29.0	28.8	27.4	25.2
Wages (million dollars) .	228.5	239.3	254.2	255.0	244.2
Value added by manufac- ture <u>2/</u> (million dollars)	1,195.3	1,173.9	1,405.3	1,376.8	1,609.8
Cost of materials <u>3/</u> (million dollars)	2,280.2	1,898.9	2,048.8	1,980.1	2,220.7
Value of shipments <u>3/</u> (million dollars)	3,477.3	3,086.4	3,447.9	3,337.3	3,813.4
New capital expenditures (million dollars)	76.1	47.3	102.0	76.1	98.4

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.

Table 635.-- 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 636.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1987

[Includes operating manufacturing establishments and auxiliaries. Includes industry groups with 500 employees or more]

Subject	Food and kindred products (SIC 20)	Apparel, other textile (SIC 23)	Printing and publishing (SIC 27)	Stone, clay, glass products (SIC 32)	Fabricated metal products (SIC 34)
All establishments:					
Total	229	181	188	54	37
With 20 employees or more	72	47	34	12	8
All employees:					
Number (1,000)	9.8	3.4	2.5+	0.9	0.5
Payroll (mil. dol.)	187.9	38.7	(D)	23.6	11.7
Production workers:					
Number (1,000)	7.1	2.7	(D)	0.7	0.4
Hours (millions) ..	13.8	4.6	(D)	1.4	0.7
Wages (mil. dol.) .	117.6	25.2	(D)	17.5	8.1
Value added by manufacture (mil. dol.)	575.8	88.0	(D)	74.2	36.2
Cost of materials (mil. dol.)	784.0	72.1	(D)	83.0	49.2
Value of shipments (mil. dol.)	1,360.9	159.1	(D)	155.6	84.7
New capital expenditures (mil. dol.)	49.3	2.0	(D)	4.3	1.1

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1987 Census of Manufactures, Geographic Area Series, Hawaii, MC87-A-12 (October 1990), table 5.

Table 637.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1988

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	963	230	22,467	475,191
20	Food and kindred products	223	76	9,757	206,450
2061	Raw cane sugar	13	12	2,945	65,819
22	Textile mill products	5	-	(B)	(D)
23	Apparel and other textile products	159	45	3,351	39,561
24	Lumber and wood products	37	5	405	8,527
25	Furniture and fixtures	29	8	385	6,916
26	Paper and allied products	7	4	216	5,872
27	Printing and publishing	186	36	3,447	82,790
28	Chemicals and allied products ..	21	3	205	4,546
29	Petroleum and coal products	5	4	493	19,126
30	Rubber and miscellaneous plastics products	22	6	276	3,457
31	Leather and leather products ...	7	2	113	1,295
32	Stone, clay, and glass products	52	11	871	26,805
33	Primary metal industries	4	1	(C)	(D)
34	Fabricated metal products	34	6	415	9,605
35	Industrial machinery, equipment	32	4	274	6,879
36	Electronic, other electronic equipment	14	1	167	3,557
37	Transportation equipment	15	5	489	15,428
38	Instruments and related products	16	1	131	1,533
39	Miscellaneous manufacturing industries	77	6	793	12,218
--	Administrative and auxiliary ...	18	6	532	16,590

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 1988, Hawaii, CBP-88-13 (September 1990), table 1B.

Table 638.-- PLANT CAPACITY UTILIZATION RATES:
FOURTH QUARTER ESTIMATES, 1983 TO 1988

[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 1989]

Type of rate	1983	1984	1985	1986	1987	1988
Preferred rate <u>1/</u>	83	84	87	87	89	92
Practical rate <u>2/</u>	73	81	83	78	85	88

1/ The preferred level of operations is defined as a level, normally between actual operations and practical capacity, which the manufacturer would prefer not to exceed due to costs or other considerations. In this table, the preferred utilization rate represents the ratio of actual to preferred level of operations.

2/ Practical capacity is broadly defined as the greatest output the plant could achieve within the framework of a realistic work pattern. The practical capacity utilization rate is the ratio of actual operations to the practical capacity level.

Source: U.S. Bureau of the Census, Industry Division, records.

Table 639.-- MANUFACTURING SALES RECEIPTS: 1987 TO 1990

[Millions of dollars]

Category	1987	1988	1989	1990
Total manufacturing ...	2,089.6	2,166.6	2,347.1	2,620.8
Sugar processing	354.5	337.5	342.1	353.3
Pineapple canning	202.9	191.7	182.7	160.1
Petroleum	943.9	1,030.7	1,164.5	1,353.1
Diversified manufacturing ..	588.3	606.7	657.9	754.4

Source: Bank of Hawaii, Hawaii 1991, p. 35.

Table 640.-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:
1980 TO 1990

[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 have been exempt 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
1980	626,004	1984	519,601	1988	629,303
1981	630,732	1985	527,673	1989	630,997
1982	530,598	1986	568,532	1990	728,387
1983	511,823	1987	595,140		

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 641.-- 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 642.-- PINEAPPLE COMPANIES AND CANNERIES AND
SUGAR COMPANIES AND MILLS: 1940 TO 1990

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
1989	3	2	13	11
1990	4	2	12	12
ISLANDS: 1990				
Hawaii	-	-	3	3
Maui	2	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.

Table 643.-- SUGAR AND MOLASSES PRODUCTION: 1970 TO 1990

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	
1969 ...	242,216	113,232	10,839,272	1,182,414	1,105,060	340,330
1970 ...	238,997	113,816	10,457,377	1,162,071	1,086,000	322,480
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	320,859

^{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 644.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT
AND EARNINGS: 1970 TO 1990

Year	Average raw sugar price <u>1/</u> (cents per lb.)	Hourly-rated employees		Industry-wide strikes (weeks)	Average daily earnings <u>2/</u> (dollars)	
		Average number <u>3/</u>	Total man-days		Cash wages	Employee benefits
1970 ...	8.08	8,908	2,139,183	-	24.24	10.00
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

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 645.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1970 TO 1990

[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 ..	160.1	55.8	319.0	9.9	-

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 646.-- 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 \$9.7 billion in 1989. 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 1990, the retailing tax base rose 36 percent, the wholesaling base by 44 percent, and the base for services by 48 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 54,000 in 1980 to 72,000 in 1990. There were 537 hotels, motels, transient condominiums, and apartment-hotels in Hawaii on the latter date, including 362 on the Neighbor Islands. Almost 27 percent of all transient units were in condominium structures. Occupancy rates averaged 87 percent in Waikiki and 67 percent on the Neighbor Islands during 1990. The average daily room rate was \$102 in 1990. Total hotel rentals in 1990 amounted to \$1.6 billion.

Fully 379 feature motion pictures and television specials and series were filmed in Hawaii in 1990, accounting for local expenditures of \$48 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: 1991, Section 28, presents similar data for other states and the nation as a whole.

Table 647.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES:
1980 TO 1990

[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
1980	6,109,628	1,743,003	121,562	53,244	2,986,877
1981	6,700,750	1,809,913	129,501	57,191	3,528,763
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

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 648.-- 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 649.-- 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 650.-- 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 650.-- 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	47,12	5,173
Hanamaulu	7	2,932	64	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 651.-- RETAIL ESTABLISHMENTS WITHOUT PAYROLL, FOR COUNTIES, ISLANDS,
AND SELECTED URBAN PLACES: 1987

[For retail establishments with payroll, see preceding table]

Geographic area <u>1/</u>	No. of estab.	Sales (\$1,000)	Geographic area <u>1/</u>	No. of estab.	Sales (\$1,000)
State total	3,948	183,020	Kauai County	202	10,367
Hawaii County	481	24,965	Maui County	369	19,566
Hilo	133	5,315	Lanai	5	329
Kailua	112	7,473	Maui	345	18,524
Honolulu County ...	2,896	128,122	Molokai	19	713
Aiea	134	5,449			
Honolulu	1,894	92,621			
Kailua	127	5,078			
Kaneohe	121	4,749			
Pearl City	131	4,109			

1/ Shown for urban places with 100 establishments or more. For other urban places, see source.

Source: U.S. Bureau of the Census, 1987 Census of Retail Trade, Nonemployer Statistics Series, West, RC87-N-4 (February 1990), table 4.

Table 652.-- 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 estab- lishments		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 653.-- RETAIL SALES, BY TYPE OF STORE: 1987 AND 1989

[In millions of dollars]

Kind of store	1987	1989
All stores <u>1/</u>	8,267	<u>2/</u> 9,737
Food stores	1,601	1,852
Supermarkets	1,472	1,701
General merchandise stores	1,257	1,362
Department stores	997	1,080
Automotive dealers	1,258	1,458
Eating and drinking places	1,369	1,691
Gasoline service stations	438	523
Building materials, hardware dealers	238	295
Apparel and accessories stores	586	714
Furniture, home furnishings, appliance stores	294	362

1/ Includes other types of stores, not shown separately.

2/ Sales per household were \$26,971, second highest of the 50 States. The U.S. ratio was \$18,534.

Source: Market Statistics estimates cited in Statistical Abstract of the United States: 1991, pp. 774-775.

Table 654.-- SHOPPING CENTER CHARACTERISTICS:
1988 AND 1989

Characteristic	1988	1989
Number	129	141
Gross leasable area (mil. sq. ft.)	13.3	14.0
Retail sales (mil. dol.)	2,267	2,423

Source: National Research Bureau data cited in Statistical Abstract of the United States for 1990 (p. 775) and 1991 (p. 777).

Table 655.-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1989

[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	7,600	180
Kahala Mall	Honolulu	1970	22	370	1,650	80
Kapolei S.C.	Makakilo	1991	30	510	1,009	(NA)
Moanalua S.C.	Honolulu	1954	15	240	500+	50+
Pearl City S.C.	Pearl City	1967	14	260	824	37
Pearlridge Center ..	Aiea	1972	54	1,400	4,915	150
Royal Hawaiian S.C.	Honolulu	1980	6	280	600	125
Wahiawa S.C.	Wahiawa	1977	1	300	300	50
Waikiki Shopping Plaza	Honolulu	1977	1	300	300	50
Waipahu Town Center	Waipahu	1988	11	244	650+	30
Windward City S.C.	Kaneohe	1956	15	231	785	41
Windward Mall S.C. .	Kaneohe	1982	32	530	2,300	95
Hawaii:						
Kaiko'o Mall S.C. ..	Hilo	1970	14	220	950	33
Prince Kuhio Plaza .	Hilo	1979	(NA)	494	400	(NA)
Maui:						
Kaahumanu Center ...	Kahului	1973	25	300	1,400	60
Lahaina Cannery S.C.	Lahaina	1987	15	169	735	51
Maui Mall	Kahului	1971	25	182	1,400	38
Kauai:						
Kukui Grove Center	Lihue	1982	35	311	1,590	57

NA Not available.

Source: Hawaii Chapter, International Council of Shopping Centers, Hawaii Shopping Center Directory 1989.

Table 656.-- SHOPPING CENTER VACANCY RATES AND AVERAGE RENTS, BY TYPE OF CENTER: DECEMBER 1990

Subject	Type of retail center				
	Super regional	Regional	Community	Strip neighborhood	Specialty
Average vacancy rate	0.3	3.6	3.5	3.7	3.8
Average rent per square foot (dollars)	4.67	2.87	2.25	2.21	4.27

Source: Grubb & Ellis/Locations, Inc., Hawaii Real Estate 1991 (1991), p. 19.

Table 657.-- RETAIL SALES AT ALA MOANA CENTER: 1986 TO 1989

Subject	1986	1987	1988	1989
Ala Moana sales (million dollars)	460	541	588	663
Percent of State retail total	5.7	6.6	6.3	6.4

Source: Hawaii Investor, August 1990, p. 50.

Table 658.-- 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 <u>1/</u>	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 658.-- 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 659 .-- DUTY-FREE STORE REVENUES: 1981 TO 1990

[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
1981	145,264,415	1986	270,891,959
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

Source: DFS Hawaii, records.

Table 660.-- 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 661.-- 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 662.-- 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 663.-- FLOOR SPACE OF DEPARTMENT STORES AND GROCERY STORES WITH PAYROLL: 1987

Subject	Department 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 664.-- TOBACCO TAX BASE, TOTAL AND PER CAPITA: 1980 TO 1990

[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)
1980	33,275	31.53	1986	51,796	44.29
1981	35,151	33.08	1987	46,622	39.20
1982	37,338	34.42	1988	58,819	48.77
1983	49,580	44.67	1989	59,836	47.91
1984	48,262	42.65	1990	62,376	49.67
1985	47,188	41.39			

1/ Based on de facto population estimates in table 3.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release).

Table 665.-- ALCOHOLIC BEVERAGE SALES, BY TYPE: 1989 AND 1990

[Wine gallons of 128 fluid ounces]

Type of beverage	Total sales		Per capita sales 1/	
	1989	1990	1989	1990
All types	35,629,085	36,374,344	28.5	29.0
Distilled spirits	1,718,116	1,716,023	1.4	1.4
Sparkling wine	320,586	287,281	0.3	0.2
Still wine	2,258,481	2,112,167	1.8	1.7
Cooler beverage	415,989	353,887	0.3	0.3
Draft beer	1,520,693	1,587,296	1.2	1.3
Beer other than draft	29,395,220	30,317,690	23.5	24.1

1/ Based on estimated de facto population.

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 666.-- 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 667.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1987

Type of operation and kind of business	Number of establishments	Sales (\$1,000)
Wholesale trade	1,998	5,362,490
Type of operation:		
Merchant wholesalers	1,718	3,762,672
Manufacturers' sales branches and offices	130	1,060,066
Agents, brokers, and commission merchants	150	539,752
Kind of business:		
Motor vehicles and motor vehicle parts and supplies	121	409,040
Furniture and home furnishings	69	105,823
Professional and commercial equipment and supplies	193	427,975
Lumber and other construction materials	82	217,920
Metals and minerals, except petroleum	18	41,947
Electrical goods	116	367,006
Hardware, and plumbing and heating equipment and supplies	93	164,382
Machinery, equipment, and supplies	144	241,390
Miscellaneous durable goods	202	226,496
Paper and paper products	69	203,601
Drugs, drug proprietaries, and druggists' sundries	40	133,740
Apparel, piece goods, and notions	108	146,805
Groceries and related products	388	1,453,873
Farm-product raw materials	10	7,477
Chemicals and allied products	39	105,375
Petroleum and petroleum products	50	468,694
Beer, wines, and distilled alcoholic beverages	41	270,773
Miscellaneous nondurable goods	215	370,173

Source: U.S. Bureau of the Census, 1987 Census of Wholesale Trade, Hawaii, WC87-A-12 (April 1989), table 1.

Table 668.-- 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 669.-- 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 670.-- 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 671.-- 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 672.-- SERVICE ESTABLISHMENTS WITHOUT PAYROLL, FOR COUNTIES, ISLANDS,
AND SELECTED URBAN PLACES: 1987

[Excludes establishments exempt from Federal income tax. For service establishments with payroll, see preceding table]

Geographic area <u>1/</u>	No. of estab.	Receipts (\$1,000)	Geographic area <u>1/</u>	No. of estab.	Receipts (\$1,000)
State total	22,656	445,628	Kauai County	1,022	17,390
Hawaii County	2,945	45,198	Maui County	2,636	51,438
Hilo	870	13,354	Lanai	10	57
Kailua	728	12,807	Maui	2,528	50,067
Honolulu County ...	16,053	331,602	Molokai	98	1,314
Aiea	632	13,834			
Honolulu	9,975	234,300			
Kailua	1,086	19,060			
Kaneohe	754	11,036			
Pearl City	611	10,206			
Waipahu	578	8,281			

1/ Shown for urban places with 500 establishments or more. For other urban places, see source.

Source: U.S. Bureau of the Census, 1987 Census of Service Industries Nonemployer Statistics Series, West, SC87-N-4 (March 1990), table 4.

Table 673.-- 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 674.-- SERVICE ESTABLISHMENTS WITHOUT PAYROLL,
BY KIND OF BUSINESS: 1987

[Excludes establishments exempt from Federal income tax. For service establishments with payroll, see preceding table]

SIC code	Kind of business	No. of estab.	Receipts (\$1,000)
	Total	22,656	445,628
70, ex. 704	Hotels, rooming houses, camps, other lodging .	346	7,015
7011	Hotels and motels	98	2,555
702.3	Other lodging places	248	4,460
72	Personal services	4,166	55,433
73	Business services	6,106	106,400
75	Automotive repair, services, and parking	861	26,636
76	Miscellaneous repair services	782	18,588
78, 79, 84	Amusement and recreation services	2,321	47,495
78	Motion pictures	156	6,070
80	Health services	1,580	48,782
81	Legal services	548	19,421
823, 4, 9	Selected educational services	959	8,512
83	Social services	815	5,563
835	Child day care services	614	2,812
87, ex. 873	Engineering, accounting, research, management	3,427	76,668
89	Services, n.e.c.	745	25,115

Source: U.S. Bureau of the Census, 1987 Census of Service Industries, Nonemployer Statistics Series, West, SC87-N-4 (March 1990), table 2.

Table 675.-- 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 676.-- VISITOR ACCOMMODATIONS, BY TYPE, 1981 TO 1991, AND BY ISLANDS, 1991

[As of February, unless otherwise specified]

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>
1981	412	214	198	56,769	42,575	14,194
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>	537	265	272	72,237	52,758	19,479
1991 <u>4/</u>	604	319	285	74,112	54,044	20,068
ISLANDS:						
1991 <u>4/</u>						
Oahu	191	137	54	38,022	33,303	4,719
Waikiki <u>5/</u> .	135	93	42	33,380	29,465	3,915
Rest of Oahu	56	44	12	4,642	3,838	804
Other islands	413	182	231	36,090	20,741	15,349
Hawaii	111	62	49	9,384	6,983	2,401
Maui	187	57	130	18,241	8,264	9,977
Lanai	4	4	-	364	364	-
Molokai	8	2	6	527	91	436
Kauai	103	57	46	7,574	5,039	2,535

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 1991; treatment before 1990 not specified.

2/ Condominium accommodations in rental pools for transient use.

3/ February-October.

4/ February-November.

5/ 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, 1981 to 1991.

Table 677.-- HOTEL ROOMS, OCCUPANCY RATES, AND DAILY ROOM AND GUEST RATES:
1980 TO 1990

[Includes condominium units in rental pools for transient occupancy]

Year	Hotel units, February			Percent occu- pied <u>1/</u>	Daily rates <u>1/</u> (dollars)		Guests per room <u>1/</u>
	State total	Oahu	Other islands		Per room	Per guest	
1980	54,246	34,334	19,912	69.3	47.28	24.40	1.94
1981	56,769	33,967	22,802	68.2	49.73	25.70	1.94
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	72,237	37,270	34,967	78.8	102.10	50.75	2.01

1/ Annual averages.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (annual);
Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii (December issues).

Table 678.-- HOTEL ROOM OCCUPANCY AND ROOM RATES, AND FOOD AND BEVERAGE SALES, BY GEOGRAPHIC AREAS: 1990

[Includes condominium units in rental pools for transient occupancy]

Geographic area	Percent occupied	Average daily room rate (dollars)	Average daily guest rate (dollars)	Average daily sales per guest		Average food sales per cover (dollars)
				Food (dollars)	Beverage (dollars)	
State total ..	78.80	102.10	50.75	21.24	6.30	14.09
Oahu	86.26	93.45	47.83	18.55	4.96	13.64
Waikiki	86.88	94.01	48.04	18.04	4.90	13.92
Other Oahu.....	72.66	78.72	42.09	28.45	6.02	10.95
Hawaii	61.67	125.31	60.58	27.56	8.34	17.01
Hilo	59.06	56.60	30.55	13.39	3.48	10.89
Kona	66.76	78.15	36.57	13.30	4.55	11.92
Kohala	58.33	192.19	92.63	41.35	12.26	19.86
Maui	70.10	130.49	62.11	26.30	9.59	13.89
Kaanapali	76.32	146.63	72.55	23.40	9.37	14.07
West Maui	70.47	121.31	52.76	24.72	9.55	15.74
Other	59.60	106.54	51.81	38.85	10.51	12.96
Kauai	67.62	92.06	39.73	20.63	6.33	12.80
North	44.71	79.47	31.16	19.54	6.58	13.72
Central	68.51	77.65	37.07	19.40	6.39	12.92
South	73.56	128.85	46.16	23.93	6.12	12.39
Molokai	47.82	66.28	32.20	27.57	9.90	10.23
All Neighbor Islands	66.68	120.82	56.73	15.64	5.21	14.74

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii, December 1990, and records.

Table 679.-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA:
FEBRUARY-NOVEMBER 1991

Type of accommodation	Properties			Units		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All types	604	191	413	74,112	38,022	36,090
Apartment-hotel	22	16	6	1,075	922	153
Bed and breakfast	58	5	53	319	16	303
Condominium	228	37	191	14,162	2,819	11,343
Condo and hotel	57	17	40	5,906	1,900	4,006
Cottage	38	13	25	292	64	228
Hotel	169	90	79	51,765	31,968	19,797
Other ^{1/}	32	13	19	593	333	260

^{1/} Hostel, lodge, etc.

Source: Hawaii Visitors Bureau, 1991 Visitor Plant Inventory.

Table 680.-- HOTEL OCCUPANCY AND ROOM RATES, FOR THE UNITED STATES
HAWAII, AND HONOLULU: 1989 AND 1990

Geographic area	States			Cities		
	United States	Hawaii	Hawaii rank ^{1/}	All U.S. cities	Honolulu	Honolulu rank ^{2/}
Occupancy (percent):						
1989	65.5	75.5	1	66.6	82.5	1
1990	65.0	74.0	1	66.3	81.5	1
Average daily rate (dollars):						
1989	70.19	94.73	3	74.14	85.00	9
1990	72.83	100.88	3	77.36	94.08	7

^{1/} Among 35 reported States or combinations of States.

^{2/} Among 57 reported U.S. cities.

Source: Pannell Kerr Forster, Trends in the Hotel Industry, United States, Worldwide, March 1991.

Table 681.-- GENERAL EXCISE TAX BASE FOR RENTALS:
1980 TO 1990

[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>
1980	1,820,715	708,620	1,112,095
1981	2,040,505	770,705	1,269,800
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

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 682.-- 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 683.-- PASSENGER TRANSPORTATION ARRANGEMENT: 1989

SIC code	Industry	Number of establishments		Number of employees, week incl. March 12	Annual payroll (\$1,000)
		State total	Oahu		
472	Passenger transp. arrangement	471	379	5,598	93,357
4724	Travel agencies	315	254	1,997	33,804
4725	Tour operators	100	84	2,956	47,549
4729	Pass. transport. arrangement, n.e.c.	43	31	588	11,393

n.e.c. Not elsewhere classified.

Source: U.S. Bureau of the Census, County Business Patterns 1989, Hawaii, CBP-89-13 (October 1991), pp. 7 and 25.

Table 684.-- MOTION PICTURE SERVICES: 1977 TO 1989

[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
1989 <u>1/</u>	20	(NA)	2,889	121
Motion picture theaters (SIC 768):				
1977 <u>2/</u>	50	17,444	(D)	(D)
1982	36	21,329	3,195	519
1987	35	(D)	(D)	(D)
1989	37	(NA)	6,574	657
Video tape rental (SIC 784):				
1987	78	12,319	2,456	376
1989	67	(NA)	3,161	422

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 1989, Hawaii, CBP-89-13 (October 1991).

Table 685.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1986 TO 1990

Subject	1986	1987	1988	1989	1990
Number of features and programs filmed <u>1/</u>	81	109	182	173	379
Feature films for theater viewing	3	4	2	5	2
Feature films for TV viewing	2	2	1	7	2
Television episodics, specials and series <u>1/</u>	76	103	179	161	375
Expenditures in Hawaii (million dollars)	35.3	50.5	24.8	61.6	48.3
Commercials	4.6	12.1	9.4	20.0	16.5
TV series	23.2	22.9	7.0	27.0	16.4
Features (theater & TV)	4.4	3.9	6.2	12.0	5.5
TV specials/episodics	1.6	10.8	1.5	.8	4.8
Others (still photography, sports, music, cable)	1.5	.8	.1	.5	3.5
Documentaries/industrials .....			.6	1.3	1.6
Tax revenues generated (million dollars)	3.1	4.5	2.24	9.2	7.2
Spending effect on economy (millions dollars)	78	114.8	56.5	120.0	96.6

1/ Each program in a series counted separately.

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.

Imports to Hawaii from foreign nations rose from \$1.8 billion in 1980 to \$2.3 billion in 1990. Exports to foreign countries amounted to only \$174 million in 1980, but by 1990 reached \$512 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 \$179 million in 1990.

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from \$3.1 billion in 1978 to \$7.5 billion in 1988. Estimates of the value of merchandise shipped to the Mainland are no longer available.

Among the 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 1990. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at \$1.1 billion, almost all of it in petroleum and petroleum products. The other four subzones accounted for a combined total of \$712 million.

Foreign-owned businesses in Hawaii had property, plant, and equipment with a gross book value of \$6.9 billion in 1989 and employed 42,700 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 DBED Trade and Industry Development Branch, 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: 1991. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 686.-- 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 687.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1980 TO 1990

[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>
1980	1,842.0	1,721.4	174.3
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

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 and 1990.

Table 688.-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY
CLASSIFICATION: 1989 AND 1990

[In millions of dollars]

Classification	1989	1990
General imports by district of entry:		
Customs value <u>1/</u>	1,970.09	2,260.64
C.i.f. value <u>2/</u>	2,071.61	2,381.89
General imports by district of unloading:		
Customs value <u>1/</u>	2,330.00	2,819.43
C.i.f. value <u>2/</u>	2,463.01	2,981.68
Imports for consumption by district of entry (customs value <u>1/</u>)	1,735.90	2,100.27
Exports of domestic and foreign merchandise by district of export (f.a.s. value <u>3/</u>)	537.38	512.25
Exports of merchandise by district of origination ..	160.0	178.7
Manufactured commodities	103.3	128.1
Non-manufactured commodities	56.7	50.6

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 1989 and 1990, tables 1, 4, 5 and 6, and U.S. Merchandise Trade, FT900 Supplement, for December 1989 and 1990, exhibit 2.

Table 689.-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY
METHOD OF TRANSPORTATION: 1989 AND 1990

[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>					
1989	2,330.00	1,081.48	1,230.56	4,166.82	19.83
1990	2,819.43	1,113.18	1,600.55	4,332.53	24.11
Exports: <u>3/</u>					
1989	537.38	99.89	213.93	328.20	24.55
1990	512.25	122.09	200.19	373.93	16.48

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 1989 and 1990, tables 1 and 6.

Table 690.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT,
BY REGION OF ORIGIN OR DESTINATION: 1988 AND 1989

[In dollars. Includes all foreign trade through the Honolulu Customs District, and thus may include imports intended for consumption in other States or exports originated in other States. Excludes imports intended for consumption in Hawaii but entering through other customs districts, and exports originated in Hawaii but shipped through other customs districts]

Region	Imports for consumption		Exports of domestic merchandise	
	1988	1989	1988	1989
All regions	1,839,632,442	1,970,093,475	581,122,182	537,376,151
Africa	426,432	467,123	166,451	-
Asia	1,426,600,773	1,531,382,363	340,739,122	387,708,683
Australia and Oceania ...	128,063,148	146,327,996	218,213,347	137,296,531
Europe	252,321,619	244,005,556	10,386,456	4,409,730
North America	32,220,470	36,454,769	11,616,806	7,923,579
South America.....		11,455,668		37,628

Source: Hawaii State Department of Business, Economic Development & Tourism, Trade and Industry Development Branch, Hawaii's Foreign Trade, A Statistical Digest (annual). Compiled from U.S. Bureau of the Census tapes.

Table 691.-- 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 692.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT,
BY COMMODITY CLASSIFICATION: 1989

[See headnote to table 690]

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 693.-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS: 1988 TO 1990

[Years ended September 30, unless otherwise specified]

Subject	1988	1989	1990
Zone No. 9:			
Firms using zone	386	393	395
User employment at zone 1/	216	223	217
Value of merchandise (\$1,000):			
In/out	57,241	62,747	47,708
Exports	12,026	9,086	6,001
Revenue (\$1,000)	1,247	1,508	2/ 1,699
Expenditures (\$1,000)	1,119	1,183	<u>2/</u> 1,304
Subzone No. 9-A:			
User employment at subzone	233	243	241
Quantity (1,000 short tons):			
Merchandise, in/out	8,581.0	9,349.8	9,230.7
Exports	1,782.7	1,865.0	1,859.1
Value (million dollars):			
Merchandise, in/out	865.9	978.1	1,138.6
Exports	186.0	199.8	228.8
Subzone No. 9-B:			
User employment at subzone	17	19	19
Value (\$1,000):			
Merchandise, in/out	4,724	6,434	6,277
Exports	2,372	3,210	3,144
Subzone No. 9-C:			
User employment at subzone	2,071	1,520	1,151
Value (million dollars):			
Merchandise, in/out	273.7	282.1	251.8
Exports	16.5	12.7	8.5
Subzone No. 9-D:			
User employment at subzone	1,250	1,250	1,250
Value (\$1,000):			
Merchandise, in/out	92,444	82,326	94,598
Exports	3,149	2,434	4,695

Continued on next page.

Table 693.-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS: 1988 TO 1990--Con.

Subject	1988	1989	1990
Subzone No. 9-E: ^{3/}			
User employment at subzone	237
Quantity (1,000 short tons):			
Merchandise, in/out	3,454.9
Exports	135.0
Value (million dollars):			
Merchandise, in/out	359.2
Exports	13.1

^{1/} For firms occupying facilities on a continuing basis only.

^{2/} Year ended June 30.

^{3/} Activated as a subzone April 1, 1990. Data refer to six-month period ended September 30.

Source: Hawaii State Department of Business and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 694.-- EMPLOYMENT AND SHIPMENTS RELATED TO MANUFACTURED EXPORTS: 1986 AND 1987

Subject	1986	1987
Employment related to manufactured exports	5,300	6,900
Percent of civilian employment	1.1	1.4
Manufacturing industries	700	1,000
Direct export related	200	400
Supporting exports	500	600
Nonmanufacturing industries	4,600	5,900
Trade	3,600	4,700
Other	1,000	1,200
Value of export related manufacturers' shipments ^{1/}	317.9	319.1
Percent of total manufacturers' shipments	10.3	9.2
Direct exports ^{1/}	214.3	175.3
Supporting exports ^{1/}	103.6	141.8

^{1/} Million dollars.

Source: U.S. Bureau of the Census, "Exports from Manufacturing Establishments: 1987," Manufacturing, Analytical Report Series, AR87-1 (Feb. 1991), pp. 16-19.

Table 695.-- EMPLOYMENT AND PROPERTY, PLANT AND EQUIPMENT OF HAWAII
AFFILIATES OF FOREIGN-OWNED COMPANIES: 1977 TO 1989

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned
10 percent or more, directly or indirectly, by a foreign person]

Subject	1977	1987	1988	1989 ^{1/}
Employment by nonbank affiliates	11.4	27.3	34.8	42.7
Percent of all nonbank businesses	4.0	7.2	8.8	10.1
Employment by country of ultimate beneficial owner	11.4	27.3	34.8	42.7
Canada .....	...	.7	.8	.9
Europe .....	...	1.0	3.2	3.8
Latin America, other W. Hemisphere ....	...	2.8	3.5	3.7
Africa and Middle East .....	...	0	0	0
Asia and Pacific .....	...	22.8	27.2	34.0
Australia .....	...	1.4	1.5	1.9
Japan .....	...	20.6	24.3	29.6
U.S. ....	...	0	.2	.4
Gross property, plant, and equipment (million dollars) .....	...	3,474	4,990	6,888
Commercial property ^{2/} .....	...	2,848	3,316	4,449
Other .....	...	626	1,674	2,439

^{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 1989," Survey of Current Business, July 1991, pp. 72-93, and earlier reports.

Table 696.-- 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 697.-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS:
DECEMBER 31, 1989 AND 1990

Subject	1989	1990
Parcels owned by foreigners	70	66
Individuals	15	11
Organizations	55	55
Acres owned by foreigners	106,559	173,767
Percent of all privately owned agricultural land <u>1/</u> ...	5.3	8.7
Individuals	548	478
Organizations	106,011	173,289
Value of foreign-owned agricultural land (\$1,000):		
At time of acquisition	329,458	491,972
Adjusted current value	325,257	498,885

1/ The 1990 percent for Hawaii ranked second among the 50 States, exceeded only by Maine (16.6 percent), and well above the national percentage (1.1).

Source: U.S. Department of Agriculture, Economic Research Service, Foreign Ownership of U.S. Agricultural Land Through December 31, 1989 (Staff Report No. AGES 9026, May 1990), pp. 6, 9, and 13, and Foreign Ownership of U.S. Agricultural Land Through December 31, 1990 (Staff Report No. AGES 9120, April 1991), pp. 6, 9, and 13.

Table 698.-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND
JAPANESE: PRE-1970 TO 1990

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts]

Year	Total foreign investments	Investments by Japanese
Total completed	10,961,111	9,323,404
Before 1970	35,000	31,900
1970-1974	438,589	328,689
1975-1979	522,160	264,740
1980	124,485	80,100
1981	108,775	70,800
1982	299,880	489,880
1983	141,176	134,900
1984	221,100	130,500
1985	140,224	121,154
1986	1,150,354	1,107,854
1987	1,306,025	1,107,025
1988	1,864,363	1,747,682
1989	2,638,450	1,482,850
1990	1,970,530	1,924,330
Future investments	2,608,707	2,358,707

Source: Hawaii State Department of Business, Economic Development & Tourism, Trade and Industry Development Branch, A Listing of Foreign Investments in Hawaii, December 31, 1990 (May 1991), p. 127.

Table 699.-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR:
PRE-1970 TO 1990

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts]

Country of investor	Pre-1970 through 1990	1988	1989	1990
All countries	10,961,111	1,864,363	2,638,450	1,970,530
Australia	650,631	68,581	400,000	14,250
Bermuda	500	-	(NA)	-
British West Indies ...	575	-	-	-
Canada	179,570	(NA)	22,200	(NA)
Cayman Islands	8,500	(NA)	-	-
France	19,900	-	4,000	(NA)
Germany	(NA)	-	-	(NA)
Hong Kong	303,345	60,000	(NA)	11,450
Indonesia	148,600	-	66,600	-
Italy	(NA)	-	(NA)	-
Japan	9,323,404	1,725,382	2,137,150	1,924,330
Korea, Republic of	11,550	-	-	-
Liechtenstein	(NA)	-	-	(NA)
Netherlands	19,600	-	-	-
Netherlands Antilles ..	17,735	-	-	-
New Zealand	58,900	10,400	(NA)	20,500
Singapore	(NA)	-	-	-
Spain	(NA)	-	-	(NA)
Switzerland	(NA)	-	(NA)	-
Taiwan	22,000	-	8,500	-
United Arab Emirates ..	(NA)	-	-	-
United Kingdom	193,801	(NA)	(NA)	(NA)
Vanuatu	2,500	-	-	-

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Trade & Industry Development Branch, A Listing of Foreign Investments in Hawaii, December 31, 1990 (May 1991), p. 127.

Table 700.-- FOREIGN INVESTMENTS IN HAWAII, BY TYPE OF INVESTMENT:
PRE-1970 TO 1990

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts]

Type of investment	Pre-1970 through 1990		All countries		
	All countries	Japanese investments	1988	1989	1990
All types	10,961,111	9,323,404	1,864,363	2,638,450	1,970,530
Agriculture.....	84,100	22,400	21,400	2,000	27,500
Financial institutions	31,801	20,001	382	2,900	3,000
Condominiums	770,950	536,350	132,550	33,750	79,900
Golf courses	93,550	93,550	5,250	-	-
Hotels, resorts	6,229,901	5,954,220	977,131	1,438,300	1,395,600
Manufacturing	497,155	71,405	(NA)	400,000	41,550
Other real estate	2,349,955	1,913,200	459,450	586,500	331,500
Residential property .	396,430	396,430	211,900	85,500	55,980
Restaurants	50,745	47,020	4,200	5,500	1,000
Retailing, wholesaling	151,379	141,154	5,100	79,000	(NA)
Science, education ...	87,201	7,500	-	(NA)	(NA)
Miscellaneous	217,944	120,174	47,000	5,000	34,500

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Trade & Industry Development Branch, A Listing of Foreign Investments in Hawaii, December 31, 1990, pp. 128-129, as corrected.

Table 701.-- 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 702.-- JAPANESE INVESTMENT IN REAL ESTATE, FOR THE UNITED STATES, HAWAII AND HONOLULU METROPOLITAN STATISTICAL AREA: 1990 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
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)

NA Not available.

Source: Kenneth Leventhal & Company, 1990 Japanese Investment in United States Real Estate (1991), pp. 15, 16, and 23.

Table 703.-- CHARACTERISTICS OF JAPANESE REAL ESTATE INVESTMENTS,
FOR THE STATE AND HONOLULU MSA: 1990

Subject	State total	Honolulu MSA
Amount (million dollars)	2,860	1,325
Average transaction (million dollars)	44.0	42.7
Leading property types (percent):		
Hotel/resort	37	34
Land	18	(1/)
Office	(1/)	16
Residential	22	15
Leading acquisition methods (percent):		
Existing property, full ownership	39	42
New construction, full ownership	35	41
Leading investor types (percent):		
Construction/development	38	46
Individual/investment company	33	35
Miscellaneous public/private company	15	11

1/ Not among top three types.

Source: Kenneth Leventhal & Company, 1990 Japanese Investment in United States Real Estate (1991), pp. 18, 20, 25, and 27.

Section 25

COMPARATIVE NATIONAL STATISTICS

This section presents statistics for the United States as a whole, the corresponding figures for Hawaii, and the rank of Hawaii among the 50 states. The 12 tables in this section contain 313 series, thought to include the most significant or frequently requested types of data for which national comparisons are available. Virtually all of the major subject-matter areas covered in the first 24 sections of the Data Book are represented. The comparisons include totals, averages, medians, percentages, and rates.

Ranked against other jurisdictions, Hawaii was first in 29 comparisons, second in 13, last in 13, and second last in 16. Hawaii ranked 41st in population, first in life expectancy at birth, third in public school pupil-teacher ratio, 10th in crime rate, 47th in land area, 14th in percent of land owned by the Federal government, 16th in domestic travel expenditures, 48th in votes cast as a percent of voting-age population, sixth in State and local government tax collections per capita, 22nd in defense spending, 26th in public aid recipients relative to population, 18th in female labor force participation rate, 10th in per capita disposable personal income, sixth in family living costs (based on data for 100 metropolitan areas), 37th in per capita bank deposits, 30th in newspaper circulation per capita, 43rd in energy consumption per capita, 50th in highway mileage, first in volume of crop marketings for pineapple, macadamia nuts, and coffee, 18th in value of commercial fish catch, 49th in homeownership rate, 44th in value added by manufacture, second in retail sales per household, ninth in hotel receipts, and second in percent of workers employed by foreign-owned businesses.

High ranks do not necessarily mean favorable scores, nor low ranks unfavorable scores. Hawaii was first (highest) in expectation of life at birth and 49th (second lowest) in crude death rate, for example, but both were highly desirable positions.

When Hawaii shared the same rank with other jurisdictions, the next lower rank (or ranks) was omitted. Although most comparisons were for the 50 areas, some ranked Honolulu against other large metropolitan areas, and a few were based on other groupings. Variations in comparison groups are marked in the footnotes.

* Some of the values shown for Hawaii in this section differ from the corresponding figures given elsewhere in the Data Book, because of differences in sources or subsequent revisions in data.

This section was taken from other tables in this edition or their underlying sources, Statistical Abstract of the United States: 1991, pp. xii-xxi, and State and Metropolitan Area Data Book, 1986, table 1. Historical data on state rankings are not readily available for most series.

Table 704.-- POPULATION, VITAL STATISTICS, AND HEALTH

Subject	United States	Hawaii	
		Number	Rank
Resident population, 1990 (1,000)	248,710	1,108	41
Percent change in resident population, 1980-1990	9.8	14.9	13
Resident population per square mile, 1990	70.3	172.5	13
Percent of population in metro areas, 1990	77.5	75.5	19
Males per 100 females, 1990	95.1	103.6	3
Resident population, percent 65 years and over, 1990 ...	12.6	11.3	37
Median age of population, 1990 (years)	32.9	32.6	32
Race, percent of population, 1990:			
White	80.3	33.4	50
Black	12.1	2.5	37
Asian and Pacific Islander	2.9	61.8	1
Pct. married of persons 15 years old and over, 1980: <u>1/</u>			
Male	60.1	55.2	50
Female	54.8	56.8	22
Households, 1990 (1,000)	91,947	356	43
Persons per household, 1990	2.63	3.01	2
Christian church adherents, percent of population, 1980	49.3	33.1	48
Births per 1,000 population, 1989	16.2	17.6	7
Percent of births to teenage mothers, 1988	12.5	9.4	38
Percent of births to unmarried women, 1988	25.7	22.2	31
Deaths per 1,000 population, 1989	8.7	6.0	49
Legal abortions per 1,000 women 15-44, 1988	27.0	43.0	3
Infant mortality per 1,000 births, 1988	10.0	7.2	49
Deaths per 100,000 population, by cause, 1988:			
Diseases of the heart	311.3	167.3	49
Malignant neoplasms	197.3	139.3	47
Cerebrovascular diseases	61.2	39.2	49
Accidents and adverse effects	39.5	28.7	49
Average life expectancy, 1979-1981 (years)	73.88	77.02	1
Marriages per 1,000 population, 1989	9.7	16.2	2
Divorces per 1,000 population, 1989	4.7	5.1	16
Average daily hospital room charge, 1990 (dollars)	315	349	11
Hospital beds per 100,000 population, 1988	384	253	49
Hospital occupancy rate, 1988	65.7	83.2	2
Active physicians per 100,000 civilian population, 1988	210	225	10
Active dentists per 100,000 civilian population, 1989 ..	58	80	1

1/ Ranks based on data for 51 areas, including D.C.

Table 705.-- EDUCATION AND LAW ENFORCEMENT

Subject	United States	Hawaii	
		Number	Rank
Elementary and secondary schools: <u>1/</u>			
Public, 1988-1989	83,165	231	49
Private, 1980-1981	20,764	114	34
Elementary and secondary school enrollment (1,000): <u>1/</u>			
Public, Fall 1988	40,192	167	42
Private, Fall 1980	4,962	37	31
Elementary and secondary school teachers (1,000): <u>1/</u>			
Public, Fall 1988	2,316	8.0	45
Private, Fall 1980	277.4	2.1	31
Percent change in public school enrollment, 1980-1990 ..	-0.5	6.1	10
Pupil-teacher ratio in public schools, Fall 1988	17.4	21.1	3
Expenditures of State and local governments for education, 1987-88:			
Per capita (dollars)	987	804	48
Percent of all general expenditures	34.6	27.1	49
Expend. per pupil in daily attendance, 1988-89 (dol.) ..	4,813	4,464	25
Public school current expenditures, 1989-90 (mil. dol.)	180,644	704	42
Scholastic Aptitude Test scores, 1988-1989:			
Verbal	427	406	47
Math	476	482	32
Public high school graduates, 1989-90 (1,000)	2,398.7	10.0	41
Public teachers' average annual salary, 1989-90 (dol.) .	31,200	32,047	14
Higher education enrollment, Fall 1988 (1,000)	13,043	52	40
Earned degrees conferred, 1987-1988:			
Bachelor's	993,362	3,724	43
Master's	298,733	969	41
Doctorate	34,839	116	38
Graduates as percent of population 25 and older, 1989:			
High school graduates	76.9	82.3	11
College graduates	21.1	23.9	11
Average salaries of full-time instructional faculty of institutions of higher education, 1987-1988 (dollars)	35,901	35,489	17
Crime rate per 100,000 population, 1989	5,741	6,270	10
Violent crime rate	663	270	38
Property crime rate	5,078	6,000	6
Federal and State prisoners, sentenced to more than 1 year, per 100,000 population, 1989	274	144	39
Expenditures per capita for criminal justice activities, 1988 (dollars)	230	248	10
Population per lawyer, 1985	360	373	38

1/ Ranks based on data for 51 areas, including D.C.

Table 706.-- GEOGRAPHY, ENVIRONMENT, LAND USE, AND LAND OWNERSHIP

Subject	United States	Hawaii	
		Number	Rank
General coastline (statute miles)	12,383	750	4
Land area, 1980 (1,000 square miles)	3,536	6.4	47
Highest point (feet)	20,320	13,796	6
Approximate mean elevation (feet)	2,500	3,030	10
Water withdrawn per capita, 1985 (gal. per day), fresh .	1,400	1,100	31
Hazardous waste sites, 1990	1,197	7	42
Air pollution standard index, 1989 <u>1/</u>	100	44	4
Toxic chemicals released, 1988 (lb. per person) <u>1/</u>	20	3	2
Unsafe drinking water, 1988 (percent of population) <u>1/</u> .	9	3	7
Environmental health score, 1991 ("Green Index") <u>1/</u>	6,869	5,522	12
Conditions	4,530	3,283	1
Policies	2,296	2,239	24
Normal daily mean temperature, 1951-1980 (degrees F.): <u>2/</u>			
January	32.5	72.6	1
July	75.2	80.1	15
Annual average	54.5	77.0	1
Temperature of record, period of record through 1985 (degrees F.): <u>2/</u>			
Highest temperature	105	94	68
Lowest temperature	-13	53	1
Normal annual precipitation, 1951-1980 (inches) <u>2/</u>	34.72	23.47	55
Average number of days with precipitation of .01 inch or more, period of record through 1985 <u>2/</u>	113	100	52
Average percentage of possible sunshine, period of record through 1985 <u>2/</u>	59	67	9
Average wind speed, period of record through 1985 (miles per hour) <u>2/</u>	9.4	11.6	7
Urban and built-up nonfederal land, 1987 (1,000 acres) .	77,305	157	50
Urban land acreage per capita, 1980	0.28	0.21	46
Land owned by federal government, percent of total land area, 1989	29.2	16.5	14

1/ U.S. score represents median State. The States are ranked from 1 (best) to 50 (worst).

2/ Data for Honolulu and 68 other U.S. cities.

Table 707.-- RECREATION, TRAVEL, AND ELECTIONS

Subject	United States	Hawaii	
		Number	Rank
Resident expenditures per household for entertainment, annual average, 1988-1989 ^{1/}	1,502	1,534	13
Visitor expenditures, 1984 (million dollars)	411,350	4,620	27
Domestic travel expenditures, 1989 (million dollars) ...	272,021	5,492	16
Economic impact of domestic visitors:			
Payroll, 1987 (million dollars) ^{2/}	60,749	818	24
Percent of total payroll, 1987 ^{2/}	4.9	13.1	3
Employment, 1989 (1,000)	4,919	89.7	19
Tax revenues, 1987 (million dollars) ^{2/}	33,645	392	27
State tourism office budgets, FY 1990-1991 (mil. dol.) .	356.0	22.3	2
National Park System acreage, 1988 (1,000 acres)	79,927	270	16
State parks and recreation areas, FY 1989:			
Acres (1,000)	11,061	25	46
Visitors (million)	726.8	17.3	12
Paid license holders, FY 1987 (1,000):			
Fishing	30,350	8.4	50
Hunting	15,819	12.1	50
Per capita State appropriations for State arts agencies, 1990 (dollars)	1.13	7.83	1
Number of local governments, 1987	83,235	19	50
Popularly elected State and local officials, 1987	497,155	160	50
Per 10,000 population	20.6	1.5	50
Voting-age population, 1990 (1,000)	186,382	854	41
Popular vote cast for President, 1988 (1,000)	91,595	354	43
Votes cast, percent of voting-age population	50.2	43.0	48
Percent voting for Republican party	53.4	45.7	48
Vote cast for U.S. Representatives, 1988 (1,000)	81,786	340	43
Percent voting for Democratic party	53.4	65.1	8
Percent of civilians 18 and over:			
Registered, November 1990	62.2	57.2	43
Voted, November 1990	45.0	51.6	14

^{1/} Rank based on data for 26 MSAs. U.S. value is for median MSA.

^{2/} Rank based on data for 51 areas, including D.C.

Table 708.-- GOVERNMENT FINANCES AND EMPLOYMENT AND NATIONAL DEFENSE

[Fiscal year data unless otherwise specified]

Subject	United States	Hawaii	
		Number	Rank
Federal government:			
Per capita expenditures, 1990 (dollars)	3,974	4,927	6
Per capita grants to State and local government, 1989 (dollars).....	533	540	22
Civilian employment, 1988	2,941	27	30
State and local government:			
Per capita general revenue, 1989 (dollars)	3,166	3,767	7
Per capita taxes, 1989 (dollars)	1,888	2,416	6
Per capita debt outstanding, 1989 (dollars)	3,216	3,469	22
Per capita general expenditure, 1989 (dollars)	3,071	3,340	11
Per capita capital outlay, 1989 (dollars)	389	623	4
Employees per 10,000 population, 1990:			
State	154	445	1
Local	371	120	50
Average employee earnings, October 1988 (dollars):			
State employees	2,260	2,033	28
Local employees	2,157	2,260	15
State government general fund balance, 1989 (mil. dol.)	533.9	483	1
State income tax collections, percent of all collections, 1988	30.3	30.7	27
Per capita adjusted gross income, 1987 (dollars)	11,390	11,710	14
Per capita Federal income tax, 1988 (dollars)	1,755	1,757	15
Residential effective property tax rate per \$100, 1989 (51 large cities)	1/ 1.53	0.64	48
Governor's salary, March 1989 (dollars)	2/ 75,000	80,000	20
Federal funds for defense, 1989 (billion dollars)	212.2	2.82	22
Department of Defense employment, 1989:			
Civilian employees (1,000)	964.6	20.2	16
Military personnel (1,000)	1,342.1	43.8	7
Department of Defense payroll, 1989 (mil. dol.)	66,180	2,002	10
Department of Defense contract awards, 1989 (mil. dol.)	119,917	579	32
Veterans, March 31, 1989 (1,000)	27,103	100	43
Per 1,000 civilian population 18 and over	152.2	135.3	44

1/ Median city of 51 surveyed.

2/ Median State.

Table 709.-- SOCIAL INSURANCE, HUMAN SERVICES, LABOR FORCE,
EMPLOYMENT, AND EARNINGS

Subject	United States	Hawaii	
		Number	Rank
Payments for Aid to Families with Dependent Children, 1989 (million dollars)	17,466	92	32
Public aid recipients, percent of population, 1989	6.1	5.0	26
Food stamp recipients, percent of population, 1989	7.6	6.9	21
Social Security recipients, percent of population, 1989	15.4	13.0	43
Medicare payments, 1988 (million dollars)	86,318	248	43
Average weekly unemployment benefits, 1989 (dollars) ...	152	177	8
Quality of life score, 300 MSAs including Honolulu, 1991	(NA)	(NA)	27
Civilian labor force, 1990 (1,000)	124,787	539	41
Civilian employment, 1990 (1,000)	117,914	524	41
Civilian employment, pct. of civilian noninstitutional population 16 years and over, 1990	62.7	65.2	21
Unemployed persons, 1990 (1,000)	6,874	15	46
Unemployment rate, pct. of civ. labor force, 1990	5.5	2.8	49
Male unemployment rate, 1990	5.6	3.3	49
Female unemployment rate, 1990	5.4	2.3	49
Percent of persons 16 and over in labor force, 1990:			
Male	76.1	74.5	37
Female	57.5	60.6	18
Percent of civilian employment, 1990:			
Manufacturing	(NA)	5.0	47
Services	(NA)	23.5	5
Government	(NA)	19.6	7
Percent in managerial and professional specialty occupations, 1990	(NA)	28.1	11
Average annual wage or salary, 1990 (dollars)	23,602	23,167	13
Multiple jobholders, May 1989 (percent)	6.2	5.2	40
Average hours of work, 1990	(NA)	39.4	27
Union membership in mfg., percent of employment, 1988 ..	24.9	41.4	3

NA Not available.

Table 710.-- INCOME, EXPENDITURES, WEALTH, AND PRICES

Subject	United States	Hawaii	
		Number	Rank
Gross state product, 1986 (billion dollars) <u>1/</u>	4,192	19.3	41
Percent change, 1980-1986 <u>1/</u>	57.0	47.8	32
Manufacturing, percent of total, 1986 <u>1/</u>	19.7	5.2	47
Personal income, 1990 (billion dollars)	4,647	22.4	39
Disposable	3,949	19.1	39
Per capita personal income, 1990 (dollars)	18,685	20,254	10
Disposable	15,878	17,229	10
Median income (dollars):			
Households, 1990	29,943	38,921	3
Families, fiscal 1990	35,700	39,800	8
Unrelated individuals, 1979	6,695	7,097	11
Percent of persons below poverty level, 1990	13.5	11.0	32
Household finances, 1988-89: <u>2/</u>			
Average annual income before taxes (dollars)	(NA)	39,733	4
Average annual expenditures (dollars)	(NA)	33,425	6
Persons with assets over \$500,000, 1986:			
Number (1,000)	3,286.0	11.0	42
Per 10,000 population 21 and older	197.7	151.5	30
Assets (billion dollars)	3,721.1	11.3	40
Consumer price index for all urban consumers, 1990 annual average: <u>3/</u>			
1967=100	391.4	380.3	22
1982-1984=100	130.7	138.1	4
Percent increase, 1989-1990	5.4	7.3	2
Four-person higher-income family budget, 1986 <u>4/</u> (percent of U.S. average)	100.0	114.5	6
Retail food prices, 1988-1989 <u>5/</u> (percent of 25-city average)	100.0	139.0	1

NA Not available.

1/ Ranks based on data for 51 areas, including D.C.

2/ Hawaii figure is for Honolulu MSA; ranks based on data for 26 MSAs surveyed.

3/ Hawaii figure is for Honolulu MSA; ranks based on data for 26 MSAs (1967=100), 27 MSAs (1982-84=100), and 29 MSAs (percent increase).

4/ Hawaii figure is for Honolulu MSA; rank based on data for 100 MSAs.

5/ Hawaii figure is for Honolulu MSA; rank based on data for 25 MSAs.

Table 711.-- BANKING, INSURANCE, BUSINESS ENTERPRISE, AND COMMUNICATIONS

Subject	United States	Hawaii	
		Number	Rank
Commercial bank deposits, Dec. 31, 1989 (bil. dol.)	2,223.6	12.8	37
Savings institutions (SAIF-insured):			
Deposits, 1989 (bil. dol.)	937.4	4.85	34
Percent of mortgage loans foreclosed, 1989	2.50	0.96	33
Return on assets, 1989 (percent)	-1.47	0.44	6
Shareowners of public corporations, 1985 (1,000)	47,040	256	36
Percent of population	20.1	24.8	6
Life insurance in force per household, 1989 (\$1,000) ...	93.6	126.4	2
Average auto insurance premium, 1987 (dollars)	487	530	12
Percent of population in Health Maintenance Orgs., 1990	13.2	21.9	6
Private business establishments, 1987 (1,000)	5,937.1	27.3	41
With 1 to 4 employees (1,000)	3,290.3	14.5	42
With 1,000 employees or more (number)	4,819	19	40
New business incorporations, 1989 (1,000)	677.4	3.8	36
Business failures, 1989	50,389	170	49
Major corporate headquarters, 1988	(NA)	3	38
Per million population	(NA)	2.7	26
Business climate, 1991 (Corp. for Enterprise Development):			
Economic performance	(NA)	A	3
Business vitality	(NA)	D	44
Development capacity	(NA)	B	14
State policy	(NA)	C	29
Telephone access lines, 1989 (millions)	134	0.564	41
Radio stations, 1990	10,936	55	48
AM	4,941	28	46
FM	5,995	27	48
Commercial television stations, 1985	887	13	28
Percent of TV households with cable, 1990	55.3	71.3	4
Daily newspapers, 1989	1,626	6	48
Circulation per capita, 1989	0.26	0.22	30

NA Not available.

Table 712.-- ENERGY, SCIENCE, AND TRANSPORTATION

Subject	United States	Hawaii	
		Number	Rank
Energy consumption per capita, 1988 (million Btu)	327	243	43
Percent of energy consumption (in Btu) from petroleum, 1988	42.6	98.1	1
Energy expenditures per capita, 1988 (dollars)	1,652	1,443	46
Electric energy sales, 1989 (billion kWh)	2,634	8.0	45
Household electric bill for 1,000 kWh, Sept. 1990 <u>1/</u> (dollars)	86.08	77.62	16
Gas utility sales, 1989 (trillion Btu)	10,551	3	50
Average price of utility (piped) gas for 100 therms, 1986 <u>2/</u> (dollars)	58.70	129.81	1
Average sales price of motor gasoline (self-service, regular) per gallon, April 1990 (dollars)	1.03	1.25	1
Federal obligations for research and development, 1989 (million dollars)	59,484	97.4	39
Research and development expenditures in universities, 1988 (million dollars)	13,243	64.3	36
Patents issued to U.S. residents, 1990	51,526	78	45
Highway and street mileage, 1988 (1,000)	3,871	4.1	50
Licensed drivers per 1,000 driving-age population, 1989	867	770	48
Motor vehicle registrations per 1,000 population, 1988 .	572	559	29
Vehicle-miles of travel per mile of road, 1988	523	1,805	1
Average highway speed, 1989 (m.p.h.)	56.7	55.7	39
Motor vehicle accident deaths per 100,000 population, 1989	18.9	13.2	44
Aircraft facilities, December 31, 1989	17,446	53	48
Air operations (takeoffs and landings), 1989 (1,000) ...	61,345	907	24
Honolulu International Airport, 1989: <u>3/</u>			
Aircraft operations (1,000)	(NA)	404	16
Enplaned passengers (1,000)	(NA)	8,944	14
General aviation, active aircraft, 1989 (1,000)	219.7	0.5	49
Active pilots, Dec. 31, 1989 (1,000)	675.8	3.8	43
Numbered vessels (State-registered), 1990 (1,000)	10,996	14.1	50

NA Not available.

1/ Hawaii figure is for Honolulu. Rank based on data for 26 MSAs.

2/ Hawaii figure is for Honolulu. Rank based on data for 28 MSAs.

3/ Rank based on data for all FAA-operated airports.

Table 713.-- AGRICULTURE, FORESTS, FISHERIES, AND MINING

Subject	United States	Hawaii	
		Number	Rank
Farm population, percent of total population, 1980	2.48	0.47	45
Farms, 1990 (1,000)	2,143	5	44
Land in farms, 1990 (million acres)	988	2	40
Acreage per farm, 1990 (acres)	461	372	18
Farm assets, 1989 (billion dollars)	972.2	3.7	40
Gross farm income, 1989 (billion dollars)	189.2	0.6	41
Farm value of crops, 1988 (million dollars)	72,828	393	36
Farm debt-to-asset ratio, 1989 (percent)	15.0	8.6	44
Acreage in harvested crop, 1987 (1,000 acres):			
Sugarcane, for sugar	778.3	79.5	3
Pineapple	36.1	36.1	1
Macadamia nuts	15.6	15.6	1
Taro	0.4	0.4	1
Coffee, parchment	2.0	2.0	1
Value of farm marketings, 1989 (million dollars)	159,173	587	41
Crops	75,449	495	35
Livestock and products	83,724	92	47
Volume of crop marketings, 1987:			
Sugarcane, for sugar (1,000 tons)	28,026	8,014	2
Pineapple, harvested (tons)	692	692	1
Macadamia nuts (1,000 pounds)	42,700	42,700	1
Taro (1,000 pounds)	6,300	6,300	1
Coffee, parchment (1,000 pounds)	1,800	1,800	1
Forest land, 1987 (1,000 acres)	731,377	1,748	43
Commercial timberland, 1987 (1,000 acres)	483,319	700	45
Commercial fish catch, 1987 (million pounds)	6,896	16	18
Value of fish catch, 1987 (million dollars)	3,115	29	18
Mineral (nonfuel) production value, 1988 (million dol.)	30,015	75	46
Value added in mining, 1987 (million dollars)	111,121	23.5	47

Table 714.-- CONSTRUCTION, HOUSING, AND MANUFACTURES

Subject	United States	Hawaii	
		Number	Rank
Construction industry, 1987:			
Number of establishments (1,000)	1,951.5	5.8	47
Employees (1,000)	5,054.4	21.7	40
Value of business done (billion dollars)	605.0	3.2	36
Payroll per employee (\$1,000)	22.0	28.0	2
Value of construction work per worker (\$1,000)	125.3	171.9	1
Private housing units authorized, 1989:			
Number (1,000)	1,338.4	9.6	29
Valuation (billion dollars)	100.7	0.89	27
Valuation of all construction auth., 1989 (bil. dol.)	193.8	1.78	27
Existing homes sold, 1989:			
Number	3,440	12.1	46
Median sales price 1/ (\$1,000)	93.1	267.6	1
Housing units, 1990 (1,000)	102,264	389.8	43
In 1-unit structures (percent)	64.3	60.8	42
In structures with 10 or more units (percent)	12.9	25.7	2
Homeowner vacancy rate (percent)	2.1	0.8	50
Rental vacancy rate (percent)	8.5	5.4	47
Occupied housing units, 1990 (1,000)	91,947	356.3	43
With 1.01 or more persons per room (percent)	4.9	15.9	1
Owner occupied (percent)	64.2	53.9	49
Median value of owner occupied 1-family houses, 1990 (\$1,000)	79.1	245.3	1
Median rent of renter occupied units, 1990 (dollars) .	374	599	1
Manufacturing establishments, 1987 (1,000)	368.9	1.02	44
Manufacturing employees, 1989 (1,000)	19,041	20.5	47
Production workers	12,342	13.0	47
Value added by manufacture, 1989 (billion dollars) ...	1,308	1.61	44
Value of mfg. shipments, 1989 (billion dollars)	2,793	3.81	46
Average hourly earnings of production workers, 1989 (dollars)	10.49	10.37	28

1/ Data for 95 large MSAs, including Honolulu.

Table 715.-- DOMESTIC TRADE, SERVICES, AND FOREIGN AND INTERSTATE COMMERCE

Subject	United States	Hawaii	
		Number	Rank
Retail sales, 1989 (billion dollars)	1,722.1	9.74	38
Sales per household (dollars)	18,534	26,971	2
Retail establishments, 1987 <u>1/</u> (1,000)	1,503.6	7.2	40
Retail sales, 1987 <u>1/</u> (bil. dol.):			
Food stores	301.8	1.57	40
General merchandise stores	181.1	1.25	35
Automotive dealers	333.4	1.22	42
Eating and drinking places	148.8	1.35	31
Apparel and accessories stores	77.4	0.58	31
Shopping centers, 1989	34,683	141	41
Gross leasable area (mil. sq. ft.)	4,214	14.0	44
Retail sales (bil. dol.)	682.8	2.42	43
Wholesale sales, 1987 (bil. dol.)	2,523.7	5.4	43
Service establishments, 1987 <u>1/</u> (1,000)	6,254.5	30.1	41
Service receipts, 1987 <u>1/</u> (billion dollars)	868.3	4.9	33
Hotel and motel receipts, 1987 <u>1/</u> (mil. dol.)	50,372	1,561	9
Hotel and motel guestrooms, 1987 <u>1/</u> (1,000)	2,872	47.2	22
Hotel occupancy rate (percent), 1990 <u>2/</u>	65.0	74.0	1
Hotel daily room rate (dollars), 1990 <u>2/</u>	72.83	100.88	3
Motion picture industry 1987: <u>1/</u>			
Production, distribution, and service ests.	11,242	25	35
Receipts (million dollars)	19,917	10.2	33
Theaters	7,776	35	45
Exports, by State of origin, 1990 (mil. dol.)	315,065	179	50
Foreign direct investment (nonbank affiliates), 1989:			
Gross property, plant, and equipment (bil. dol.)	482.0	6.89	20
Employment (1,000)	4,440	42.7	27
Percent of all business employment	4.8	10.1	2
Japanese owned affiliates	504.3	29.6	5
Export-related manufactures shipment value, 1987			
(billion dollars)	378.8	0.3	47
Export-related as percent of total shipments	15.3	9.2	49
Foreign-owned agricultural land as percent of all private agricultural land, 1989	1.0	5.3	2

1/ For establishments with payroll and subject to Federal income tax.

2/ Rank based on data for 35 reported States or combinations of States.

BIBLIOGRAPHY

This volume is the 25th of its type published by the Hawaii State Department of Business, Economic Development & Tourism (DBED) 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 DBED. All of the volumes issued before 1991 are now out of print, but copies can be consulted in the DBED 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.

Privately published works of general statistical reference include Hawaii Facts and Figures 1989, sold by the Chamber of Commerce of Hawaii, and All About Business in Hawaii 1991, published by Crossroads Press, Inc.

Statistical abstracts have also been published recently for the Big Island, Molokai, and Kauai. In December 1990, the Hawaii County Department of Research & Development issued 1990 County of Hawaii Data Book. Also 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. Vol. 7, No. 1 of Kauai Business & Real Estate, a bi-monthly publication of H & S Publishing, was titled 1991 Kauai Data Book.

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 111th, dated 1991; 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 1991

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	18.00 <u>3/</u>	21,620.00	3,000
1990	667	732	8.00	18.00 <u>3/</u>	22,500.00	3,000
1991	657	717	8.00	18.00 <u>3/</u>	25,312.00	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.

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 an IBM System 2 microcomputer which is located in the Department's Information Resources Management Division. The system uses the PC Board version 14.5a/U software. The bulletin board can be accessed at either 300, 1200, 2400 or 9600 baud. Anyone wishing to access the system can call (808) 586-2496. Neighbor Island residents can call toll free 1-800-421-3233. A users guide is available from the Department's Library (586-2424) or can be retrieved from the system.

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GLEN IFOKU

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