



**ERRATA SHEET**  
**1987 State Data Book**  
March 23, 1988

1. We have discovered an error in the **State Data Book** Index:

**Table numbers were inadvertently entered in  
some cases instead of page numbers.**

If you have trouble in using the index and find that the number listed doesn't lead you to the subject area you are seeking, try the Table with the number listed.

A corrected Index will be available at some point in the near future.

2. **Table 404, p. 380**

The headnote should read : [For projections to  
2005, see table 411]

3. **Table 527, p. 488**

The source note should read: Source: 1986 from  
City and County of Honolulu, Department of  
Data Systems, unpublished tabulation  
provided by Hawaii State Department of  
Transportation, etc.

4. **Table 685, p. 626**

Footnote 1 should read: 1/ See preceding table,  
footnote 2.

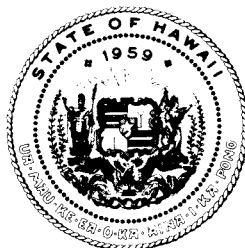
*Envision Hawaii!*



*The State of Hawaii*  
**DATA BOOK**

**1987**

*A Statistical Abstract*



**November 1987**

This report has been cataloged as follows:

Hawaii. Dept. of Business and Economic Development.

State of Hawaii data book; a statistical abstract. Honolulu: 1967-.

Annual.

None published for 1969.

1972 edition accompanied by supplement.

Continues same series under Department's earlier name, Hawaii.

Dept. of Planning & Economic Development and the Statistical abstract of Hawaii, 1962 by the Hawaii. Dept. of Planning & Research.

1. Hawaii-Statistics. I. Data Book.  
HA4007.H356.1987

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This report was 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 Karen Yamashita, Bob Stanfield and Sharon Nishi. The camera-ready copy was typed and proofread by Irene S. Fujimori, Judy F. Noda, Helen T. Nagafuchi, and Charlotte N. L. Chow. Stewart A. Wastell, illustrator in the Office of State Planning, drew the maps. Printing arrangements were handled by the DBED's Information Office.

Copies of this report may be obtained for \$5.00 each from the Information Office on the 7th floor of the Kamamalu Building, 250 South King Street, Honolulu, or ordered from out of State by sending \$15.00 per copy (postpaid) to the DBED Information Office, P. O. Box 2359, Honolulu, Hawaii 96804.

## 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 Hawaii 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 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 21st such abstract published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. Most of them 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*



*Roger A. Ulveling  
Director of Business  
and Economic Development*

# STATE OF HAWAII

## COUNTIES and DISTRICTS

KURE ATOLL  
 MIDWAY ISLANDS  
 PEARL AND HERMES ATOLL

LISIANSKI ISLAND

LAYSAN ISLAND

MARO REEF

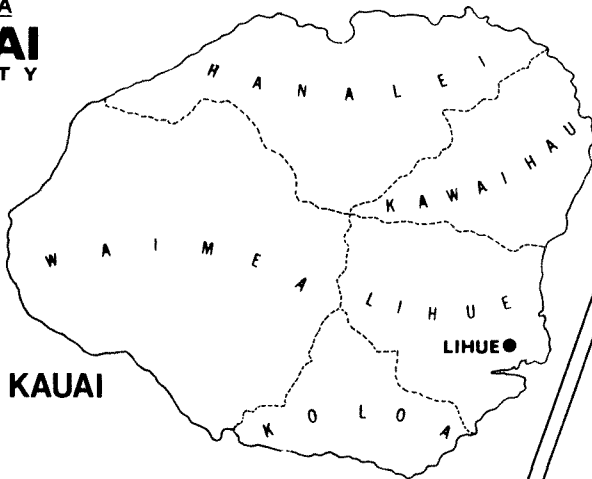
GARDNER PINNACLES

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

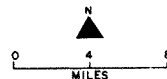
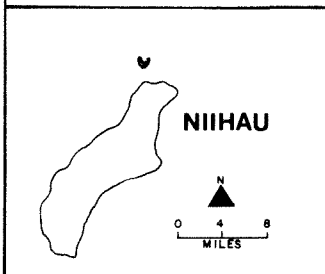
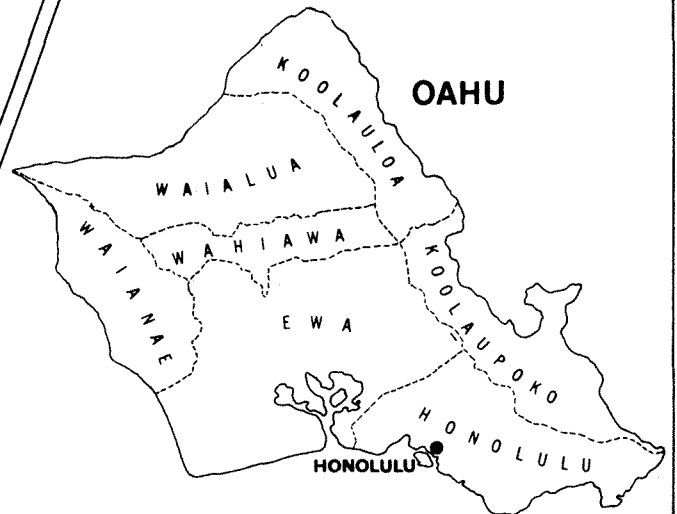
FRENCH FRIGATE SHOALS

NECKER ISLAND

**INSET A**  
**KAUAI**  
 COUNTY



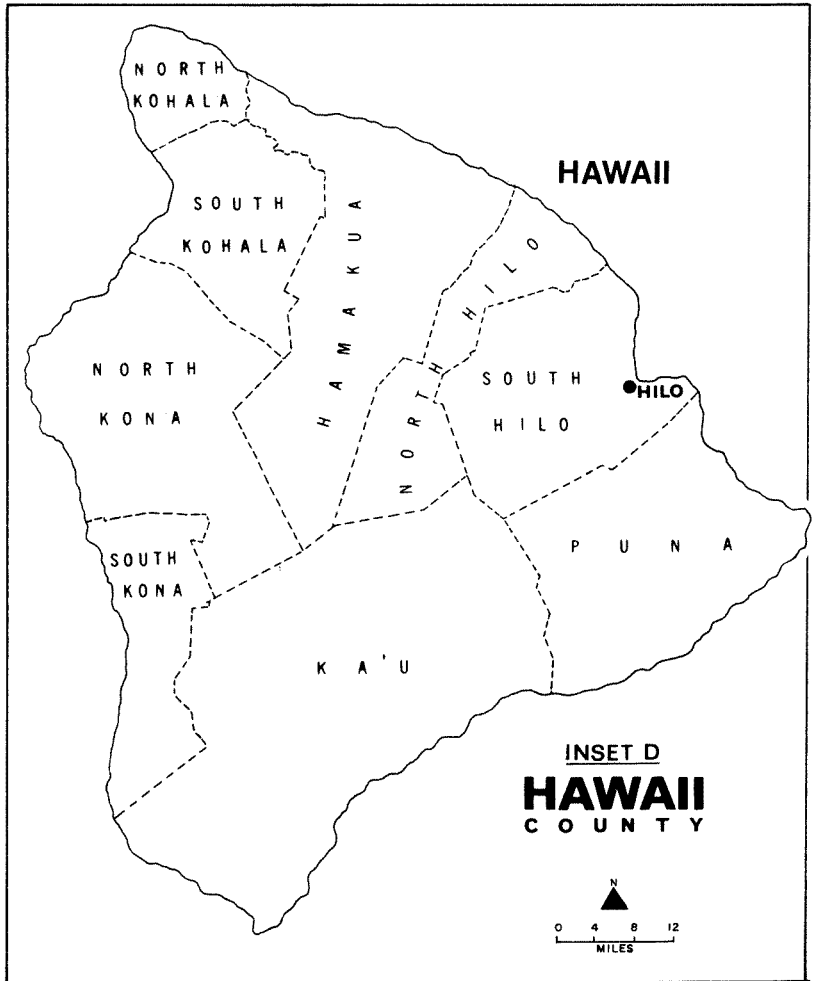
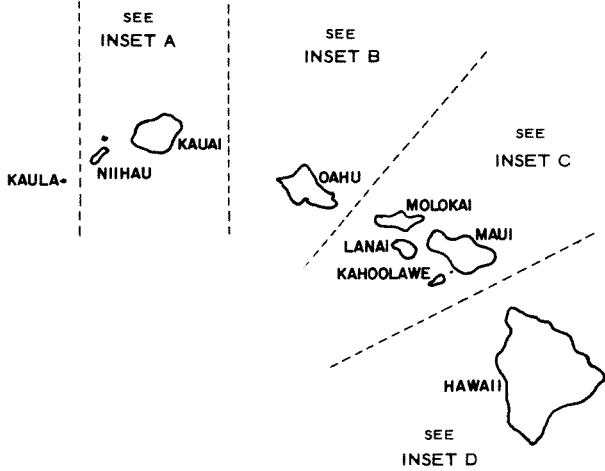
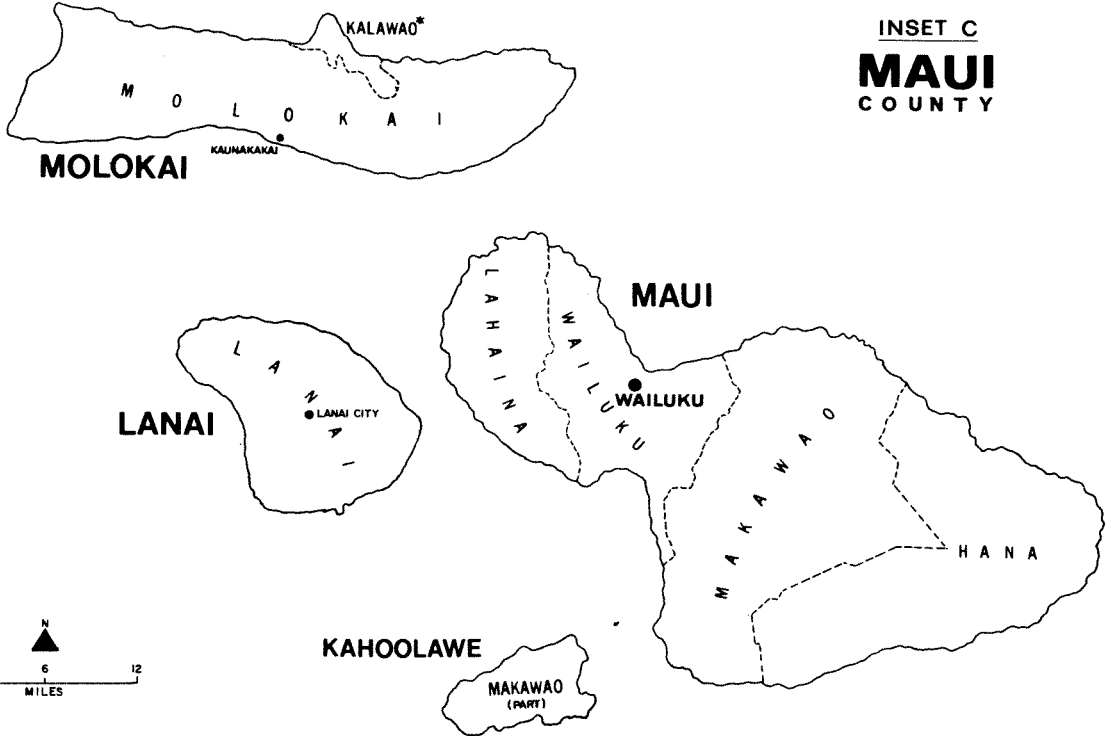
**INSET B**  
**HONOLULU**  
 CITY AND COUNTY





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

**INSET C**  
**MAUI**  
**COUNTY**



# 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 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.
<b>Length</b>							
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
<b>Area</b>							
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
<b>Volume and capacity</b>							
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.)
<b>Mass</b>							
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
<b>Miscellaneous conversions</b>							
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.

Provisional estimates for 1986 indicate a resident population of 1,062,000. This total is well above the 1980 census count of 964,691 and the earlier counts of 423,000 in 1940, 154,000 in 1900, and 84,000 in 1850. These censuses and estimates include members of the armed forces stationed in Hawaii and their local dependents, a group making up 11.7 percent of the resident total when last surveyed. The 1986 de facto population -- which included 133,000 visitors present on an average day in that year but excluded 17,000 residents temporarily absent -- was 1,178,000. Almost three-fourths of the 1986 de facto total was on Oahu, giving that island a density of 1,470 persons per square mile. The population of the State is relatively young -- the median age in 1986 was 31 years -- and racially diversified. The major unmixed groups, based on a 1986 sample survey, were Caucasians (23 percent of the non-barracks, non-institutional population) and Japanese (also 23 percent). In addition, 31 percent were of mixed race, primarily part Hawaiian. There were approximately 336,000 households in the State in 1986, with an average household size of 3.04. Migration has been a major factor in the growth of the population: between 1980 and 1986, there was a net in-migration (excluding military personnel and dependents) of 36,000, accounting for 38 percent of the total civilian population growth during that time. Immigrant arrivals in fiscal 1986 exceeded 7,800, mostly from the Philippines.

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 and Economic Development 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 maintained by the Hawaii Visitors Bureau, and the U.S. Immigration and Naturalization Service tabulations on immigration. The Department of Business and Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's Migrants. 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: 1987.

Table 1.-- POPULATION: FIRST SETTLEMENT TO 1987

[Unofficial estimates for 300-1823, missionary censuses for 1831-1832 and 1835-1836, Hawaiian government censuses for 1850-1896, U.S. government censuses for 1900-1940 and 1950-1980, and official intercensal and postcensal estimates for 1944 and 1981-1987. Estimates prior to 1823 are highly conjectural. Data through 1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, 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>
1st settlement <u>2/</u>	100	...	1900: June 1 ...	154,001	9.4
600 .....	1,000	(NA)	1910: Apr. 15 ..	191,874	2.2
1100 .....	20,000	0.6	1920: Jan. 1 ...	255,881	3.0
1650 .....	200,000	0.4	1930: Apr. 1 ...	368,300	3.6
1778 <u>3/</u> .....	250,000	0.2	1940: Apr. 1 ...	422,770	1.4
1800 .....	180,000	-1.5	1944: July 1 ...	858,945	16.7
1823 .....	140,000	-1.1	1950: Apr. 1 ...	499,794	-9.4
1831-1832 .....	130,313	-0.8	1960: Apr. 1 ...	632,772	2.4
1835-1836 .....	108,579	-4.6	1970: Apr. 1 ...	769,913	2.0
1850: Jan. ....	84,165	-1.8	1980: Apr. 1 ...	964,691	2.3
1853: Dec. 26 ..	73,138	-3.5	1981: July 1 <u>4/</u>	980,131	1.3
1860: Dec. 24 ..	69,800	-0.7	1982: July 1 <u>4/</u>	997,454	1.8
1866: Dec. 7 ...	62,959	-1.7	1983: July 1 <u>4/</u>	1,018,334	2.1
1872: Dec. 27 ..	56,897	-1.7	1984: July 1 <u>4/</u>	1,035,585	1.7
1878: Dec. 27 ..	57,985	0.3	1985: July 1 <u>4/</u>	1,050,822	1.5
1884: Dec. 27 ..	80,578	5.5	1986: July 1 <u>4/</u>	1,064,732	1.3
1890: Dec. 28 ..	89,990	1.8	1987: July 1 ...	1,082,502	1.7
1896: Sept. 27 .	109,020	3.3			

NA Not available.

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

2/ Thought to have occurred between A.D. 300 and 600; see Kirch, p. 298.

3/ Other estimates of precontact population have ranged from 100,000 to more than 800,000, although most have fallen between 200,000 and 400,000.

4/ Revised from earlier estimates shown elsewhere in this section.

Source: Patrick Vinton Kirch, Feathered Gods and Fishhooks (University of Hawaii Press, 1985), pp. 286, 298, 302, and 304; Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 7, 8, and 10; Hawaii State Department of Business and Economic Development, Provisional Estimates of the Population of Hawaii, 1987 (forthcoming).

Table 2.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1986

[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 ..	968,900	57,900	911,000	64,100	846,900
1981: July 1 ..	980,200	56,600	923,600	64,300	859,300
1982: July 1 ..	997,600	54,900	942,700	66,700	876,000
1983: July 1 ..	1,018,600	55,200	963,500	66,300	897,200
1984: July 1 ..	1,036,000	57,300	978,700	67,100	911,600
1985: July 1 ..	1,051,500	56,400	995,100	64,300	930,800
1986: July 1 <u>3/</u>	1,062,300	58,100	1,004,200	66,200	938,000

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.

3/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 1; Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 2.

Table 3.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS:  
1970 TO 1986

Year	Resident population <u>1/</u>		De facto population <u>3/</u>		De facto-resident ratio <u>4/</u>
	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 ...	968,900	9,600	1,055,800	96,500	1,090
1981: July 1 ...	980,200	11,600	1,064,500	96,000	1,086
1982: July 1 ...	997,600	14,500	1,088,300	105,300	1,091
1983: July 1 ...	1,018,600	11,500	1,115,200	108,000	1,095
1984: July 1 ...	1,036,000	16,100	1,138,600	118,700	1,099
1985: July 1 ...	1,051,500	18,600	1,149,600	116,700	1,093
1986: July 1 <u>5/</u>	1,062,300	17,200	1,178,100	132,900	1,109

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/ Averages for 12-month periods centered on the estimate or census dates.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence; it includes visitors present but excludes residents temporarily absent.

4/ De facto population per 1,000 resident population.

5/ Provisional estimate.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 2; Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 3.



Table 4.-- RESIDENT POPULATION OF ISLANDS: 1940 TO 1980

Island	1940	1950	1960	1970	1980
State of Hawaii .....	422,770	499,794	632,772	769,913	964,691
Hawaii .....	73,276	68,350	61,332	63,468	92,053
Kahoolawe .....	1	-	-	-	-
Maui <u>1/</u> .....	46,919	40,103	35,717	38,691	62,823
Lanai .....	3,720	3,136	2,115	2,204	2,119
Molokai .....	5,340	5,280	5,023	5,261	6,049
Oahu <u>2/</u> .....	257,664	353,006	500,394	630,497	762,534
Kauai .....	35,636	29,683	27,922	29,524	38,856
Niihau <u>3/</u> .....	182	222	254	237	226
Northwestern Hawaiian Islands .	-	14	15	31	31
French Frigate Shoals .....	-	14	(NA)	(NA)	4
Laysan Island .....	-	-	(NA)	(NA)	5
Kure Atoll .....	-	-	(NA)	(NA)	22
Other islands <u>4/</u> .....	-	-	(NA)	(NA)	-
Midway Islands <u>5/</u> .....	437	416	2,356	2,220	453
Johnston Atoll <u>5/</u> .....	69	46	156	1,007	327
Palmyra Atoll <u>6/</u> .....	32	-	-	-	-

NA Not available.

1/ Including Molokini, uninhabited.

2/ Including Sand Island (56 in 1970, 60 in 1980), Mokauea Island (12 in 1970, 11 in 1980), Ford Island (798 in 1970, 522 in 1980), and Moku o Loe (uninhabited in 1970, 16 in 1980). 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 Territory or State of Hawaii.

6/ Part of the Territory of Hawaii but not 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.

Table 5.-- RESIDENT POPULATION, BY COUNTIES: 1970 TO 1986

[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 ....	968,900	764,800	93,000	39,400	71,600
1981: July 1 ....	980,200	768,500	96,900	40,600	74,100
1982: July 1 ....	997,600	778,500	100,200	41,900	76,900
1983: July 1 ....	1,018,600	792,700	102,900	43,100	79,900
1984: July 1 ....	1,036,000	801,400	107,000	44,100	83,400
1985: July 1 ....	1,051,500	811,100	109,500	45,400	85,500
1986: July 1 <u>2/</u> .	1,062,300	816,700	111,800	46,300	87,500

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 3; Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 5.

Table 6.-- DE FACTO POPULATION, BY COUNTIES: 1970 TO 1986

[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 ....	1,055,800	823,600	99,500	46,400	86,400
1981: July 1 ....	1,064,500	825,600	102,500	47,500	89,000
1982: July 1 ....	1,088,300	840,100	105,700	48,500	94,100
1983: July 1 ....	1,115,200	850,000	110,600	50,700	103,800
1984: July 1 ....	1,138,600	856,000	113,200	54,600	114,900
1985: July 1 ....	1,149,600	861,600	116,100	56,200	115,700
1986: July 1 <u>2/</u> .	1,178,100	877,300	120,000	60,500	120,200

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 10; Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 6.

Table 7.-- ESTIMATED POPULATION, RESIDENT AND DE FACTO, AND DE FACTO DENSITY, BY COUNTIES AND ISLANDS: JULY 1, 1986

[Provisional estimates]

County and island	Resident population <u>1/</u>		De facto population <u>2/</u>		
	Number, 1986	Percent change, 1980-86	Number, 1986	Percent change, 1980-86	Per square mile, 1986
State total .....	1,062,300	10.1	1,178,100	11.9	183.4
County:					
Hawaii .....	111,800	21.4	120,000	21.7	29.8
Maui .....	87,400	23.4	120,100	40.1	103.4
Kalawao .....	145	0.7	145	0.7	10.9
Honolulu .....	816,700	7.1	877,300	6.7	1,470.3
Kauai .....	46,300	18.5	60,500	31.1	97.6
Island:					
Hawaii .....	111,800	21.4	120,000	21.7	29.8
Maui .....	78,700	25.3	110,000	43.2	151.0
Kahoolawe .....	-	...	-	...	0
Lanai .....	2,200	3.7	2,200	3.6	15.7
Molokai .....	6,700	10.1	8,000	16.3	30.8
Oahu <u>3/</u> .....	816,700	7.1	877,300	6.7	1,470.3
Kauai .....	46,100	18.7	60,300	31.3	109.7
Niihau .....	214	-5.3	214	-5.3	3.1

1/ For definition, see headnote to table 5.

2/ For definition, see headnote to table 6.

3/ Includes Kaula and the Northwestern Hawaiian Islands, except Midway.

Source: Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), tables 7, 8, and 10.

Table 8.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS:  
1970, 1980, AND 1986

County and district	April 1, 1970	April 1, 1980	July 1, 1986	Percent change	
				1970 to 1980	1980 to 1986
State total .....	769,913	964,691	1,062,300	25.3	10.1
Hawaii County .....	63,468	92,053	111,800	45.0	21.4
Puna .....	5,154	11,751	18,400	128.0	56.6
South Hilo .....	33,915	42,278	45,000	24.7	6.4
North Hilo .....	1,881	1,679	1,500	-10.7	-10.4
Hamakua .....	4,648	5,128	5,300	10.3	3.6
North Kohala .....	3,326	3,249	3,500	-2.3	8.3
South Kohala .....	2,310	4,607	6,700	99.4	44.5
North Kona .....	4,832	13,748	19,700	184.5	43.1
South Kona .....	4,004	5,914	7,100	47.7	20.3
Ka'u .....	3,398	3,699	4,600	8.9	24.7
Maui County <u>1/</u> .....	46,156	70,991	87,500	53.8	23.4
Hana .....	969	1,423	1,700	46.9	20.4
Makawao .....	9,979	19,005	23,100	90.4	21.4
Wailuku .....	22,219	32,111	40,200	44.5	25.1
Lahaina .....	5,524	10,284	13,700	86.2	33.6
Lanai .....	2,204	2,119	2,200	-3.9	3.7
Molokai .....	5,089	5,905	6,500	16.0	10.3
Kalawao .....	172	144	145	-16.3	0.7
City & Co. of Honolulu	630,528	762,565	816,700	20.9	7.1
Honolulu .....	324,871	365,048	379,600	12.4	4.0
Koolaupoko .....	92,219	109,373	114,900	18.6	5.1
Koolauloa .....	10,562	14,195	16,300	34.9	14.6
Waialua .....	9,171	9,849	10,900	7.4	10.9
Wahiawa .....	37,329	41,562	43,300	11.3	4.1
Waianae .....	24,077	31,487	33,500	30.8	6.5
Ewa .....	132,299	191,051	218,200	44.4	14.2
Kauai County .....	29,761	39,082	46,300	31.3	18.5
Hanalei .....	1,182	2,668	4,600	125.7	73.4
Kawaihau .....	7,393	10,497	12,700	42.0	20.8
Lihue .....	6,766	8,590	9,500	27.0	10.3
Koloa .....	6,851	8,734	10,800	27.5	24.1
Waimea .....	7,569	8,593	8,700	13.5	1.3

1/ Including Kalawao County.

Source: Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 9.

Table 9.-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980

[This table presents data for the 101 "census designated places" defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 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 <u>1/</u>	Resident population	Island and place <u>1/</u>	Resident population
Hawaii .....	92,053	Maui and Molokini .....	62,823
Captain Cook .....	2,008	Haiku .....	619
Hakalau .....	250	Haliimaile .....	741
Hawi .....	795	Hana .....	643
Hilo .....	35,269	Honokahua .....	309
Holualoa .....	1,243	Kaanapali .....	541
Honokaa .....	1,936	Kahului .....	12,978
Honomu .....	559	Kihei .....	5,644
Kailua .....	4,751	Lahaina .....	6,095
Kainaliu .....	512	Lower Paia .....	1,500
Kapaau .....	612	Makawao .....	2,900
Keeau .....	775	Napili-Honokowai .....	2,446
Kealahou .....	1,033	Paia .....	193
Kukuihaele .....	332	Pauwela .....	468
Laupahoehoe .....	500	Pukalani .....	3,950
Makapala .....	186	Puunene .....	572
Mountain View .....	540	Waihee .....	413
Naalehu .....	1,168	Waikapu .....	698
Ookala .....	401	Wailea .....	1,124
Paauilo .....	755	Wailuku .....	10,260
Pahala .....	1,619	Remainder of island ...	10,729
Pahoa .....	923		
Papaaloa .....	264	Kahoolawe .....	-
Papaikou .....	1,567		
Paukaa .....	544	Lanai .....	2,119
Puako .....	257	Lanai City .....	2,092
Waimea .....	1,179	Remainder of island ...	27
Wainaku .....	1,045		
Remainder of island ..	31,030		

Continued on next page.

Table 9.-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS,  
AND VILLAGES: 1980 -- Con.

Island and place <u>1/</u>	Resident population	Island and place <u>1/</u>	Resident population
Molokai .....	6,049	Oahu (con.):	
Kaunakakai .....	2,231	Nanakuli .....	8,185
Kualapuu .....	502	Pearl City .....	42,575
Maunaloa .....	633	Schofield Barracks ....	18,851
Remainder of island ..	2,683	Wahiawa .....	16,911
Oahu (including		Waialua .....	4,051
Northwestern Hawaiian		Waianae .....	7,941
Islands) .....	762,565	Waimanalo .....	3,562
Ahuimanu .....	6,238	Waimanalo Beach .....	4,161
Aiea .....	32,879	Waipahu .....	29,139
Barbers Point Housing.	1,373	Waipio Acres .....	4,091
Ewa .....	2,637	Whitmore Village .....	2,318
Ewa Beach .....	14,369	Remainder of island ...	46,344
Haleiwa .....	2,412	Kauai .....	38,856
Hauula .....	2,997	Anahola .....	915
Heeia .....	5,432	Eleele .....	580
Hickam Housing .....	4,425	Hanalei .....	483
Honolulu total .....	365,048	Hanamaulu .....	3,227
Oahu part .....	365,017	Hanapepe .....	1,417
Northwestern		Kalaheo .....	2,500
Hawaiian Islands .	31	Kapaa .....	4,467
Iroquois Point .....	3,915	Kaunakani .....	888
Kaaawa .....	959	Kekaha .....	3,260
Kahaluu .....	2,925	Kilauea .....	895
Kahuku .....	935	Koloa .....	1,457
Kailua .....	35,812	Lihue .....	4,000
Kaneohe .....	29,919	Poipu .....	685
Laie .....	4,643	Princeville .....	500
Maili .....	5,026	Puhi .....	991
Makaha .....	6,582	Wailua .....	1,587
Makakilo City .....	7,691	Waimea .....	1,569
Maunawili .....	5,239	Remainder of island ...	9,435
Mililani Town .....	21,365		
Mokapu .....	11,615	Niihau, Lehua and Kaula .	226

1/ For boundaries of places, see Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980).

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4, and unpublished final counts for places under 300 based on enumeration district data supplied February 13, 1981.

Table 10.-- POPULATION RANKING OF HONOLULU: 1980 TO 1986

Comparison <u>1/</u>	Areas ranked		Honolulu ranking		
	Year	Number	1980	1984	1986
Honolulu MSA: <u>2/</u> Among all MSAs and CMSAs .....	1986	281	47	48	49
City and County of Honolulu: <u>3/</u> Among all counties <u>4/</u> .....	1986	3,138	43	40	41
Among all municipalities <u>5/</u> .....	1986	182	12	11	11
Honolulu CDP: <u>6/</u> Among all incorp. places and CDPs .	1986	182	36	37	38

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 minor islets (except Midway) northwest of Niihau.

3/ The City and County of Honolulu consists of Oahu and the minor islets (except Midway) northwest of Niihau.

4/ The other counties in Hawaii ranked as follows in 1986: Hawaii, 402; Maui, 506; Kauai, 892.

5/ Areas ranked in 1980 included all boroughs, cities, towns, villages, and other, numbering 19,097 areas in all. In 1986, only places over 100,000 were ranked.

6/ 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 minor islets (except Midway) northwest of Niihau. In 1980, all 22,529 areas were ranked; in 1986, only places over 100,000.

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



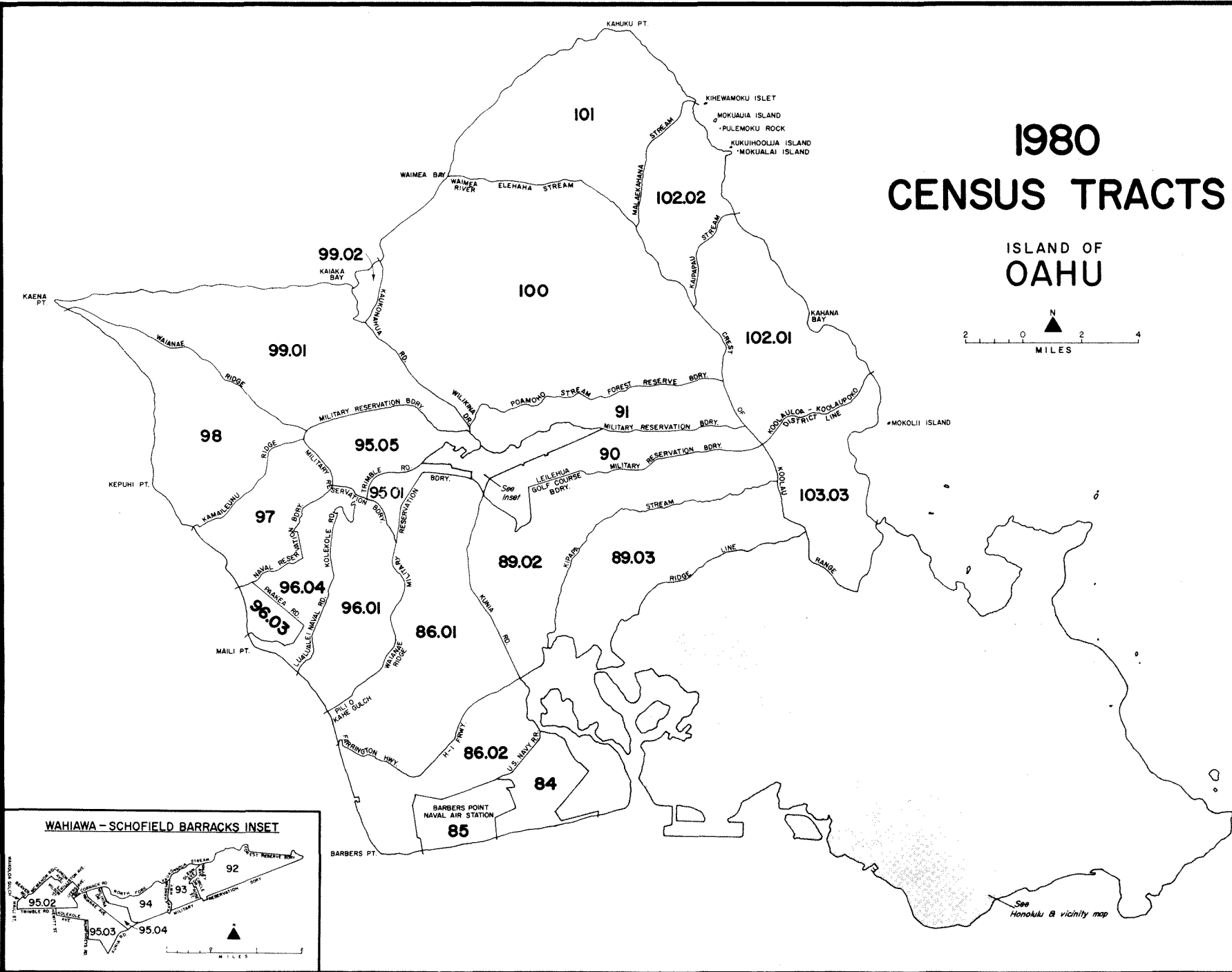
Table 11.-- POPULATION, 1980 AND 1985, AND HOUSEHOLDS, 1980,  
FOR OAHU NEIGHBORHOODS

Neighborhood (see maps on pp. 578-579)	Resident population			Households, 1980
	April 1, 1980	July 1, 1985	Percent increase	
Oahu total .....	762,534	811,096	6.7	230,214
1 Hawaii Kai .....	25,603	27,294	6.6	7,518
2 Kuliouou .....	14,172	15,181	7.1	4,316
3 Waialae-Kahala .....	11,474	11,400	-0.6	3,882
4 Kaimuki .....	19,603	19,665	0.3	6,314
5 Diamond Head/ Kapahulu .....	21,191	21,941	3.5	7,853
6 Palolo .....	14,110	13,894	-1.5	4,092
7 Manoa .....	22,605	23,444	3.7	6,536
8 McCully/Moiliili .....	26,644	26,549	-0.4	12,188
9 Waikiki .....	17,384	23,152	33.2	9,852
10 Makiki/Tantalus .....	28,695	28,533	-0.6	14,050
11 Ala Moana/Kakaako .....	10,032	11,063	10.3	5,505
12 Nuuanu/Punchbowl .....	16,166	16,736	3.5	5,361
13 Downtown .....	8,674	9,813	13.1	4,406
14 Liliha/Kapalama .....	21,068	23,126	9.8	6,429
15 Kalihi/Palama .....	40,144	39,859	-0.7	10,837
16 Kalihi Valley .....	17,613	17,696	0.5	3,885
17 Moanalua .....	12,948	12,951	0.0	3,400
18 Aliamanu/Salt Lake ....	31,199	35,272	13.1	9,290
19 Airport .....	28,436	28,262	-0.6	5,416
20 Aiea .....	30,084	33,647	11.8	8,925
21 Pearl City .....	42,577	46,487	9.2	11,140
22 Waipahu .....	33,927	43,420	28.0	8,261
23 Ewa .....	35,585	36,662	3.0	8,988
24 Waianae Coast .....	31,487	34,980	11.1	7,964
25 Mililani/Waipio .....	26,134	28,201	7.9	7,801
26 Wahiawa .....	41,562	42,896	3.2	10,271
27 North Shore .....	13,061	13,227	1.3	3,899
28 Koolauloa .....	10,983	11,977	9.1	2,687
29 Kahaluu .....	11,782	12,414	5.4	3,360
30 Kaneohe .....	35,553	38,608	8.6	9,698
31 Kailua/Mokapu .....	52,906	53,620	1.3	13,953
32 Waimanalo .....	9,132	9,127	0.0	2,137

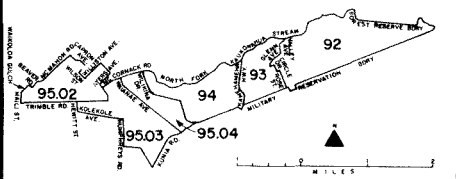
Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Neighborhood Statistics Program, Hawaii, PHC80-SP1-13 (1983); Honolulu Department of General Planning, records.

# 1980 CENSUS TRACTS

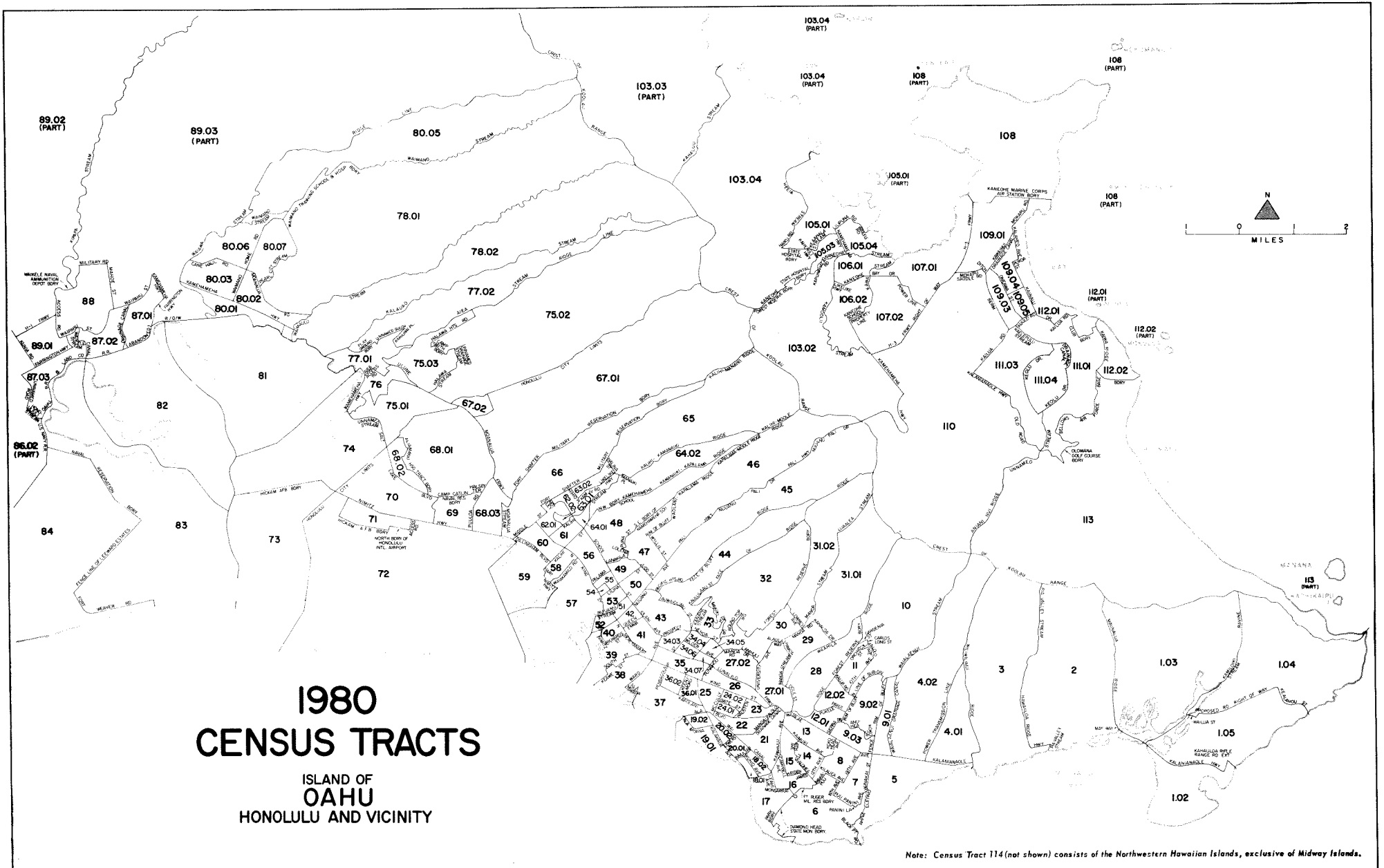
ISLAND OF  
OAHU

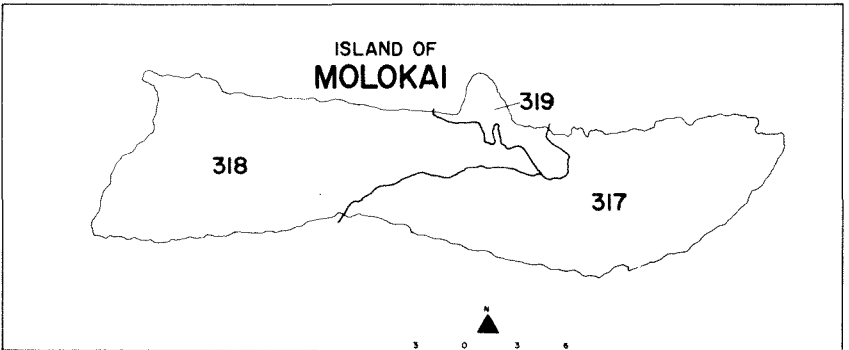
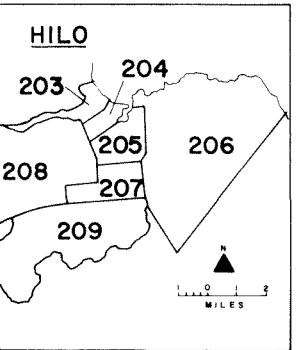
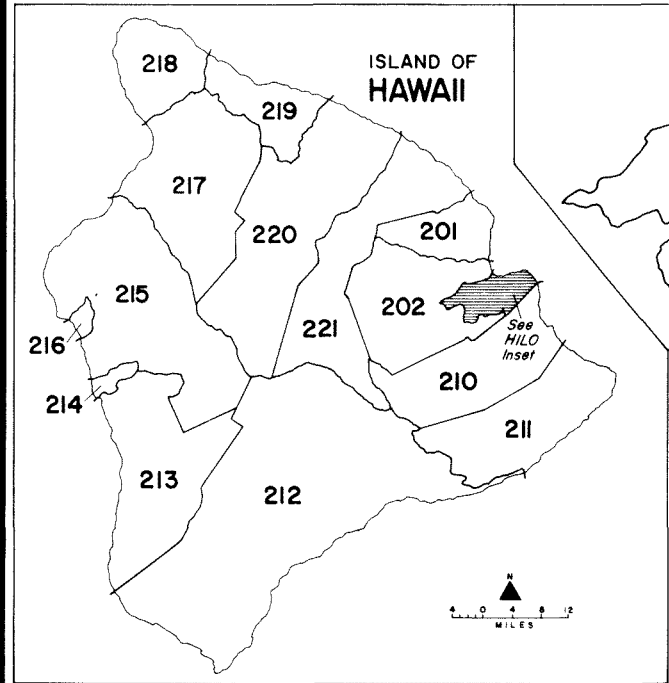
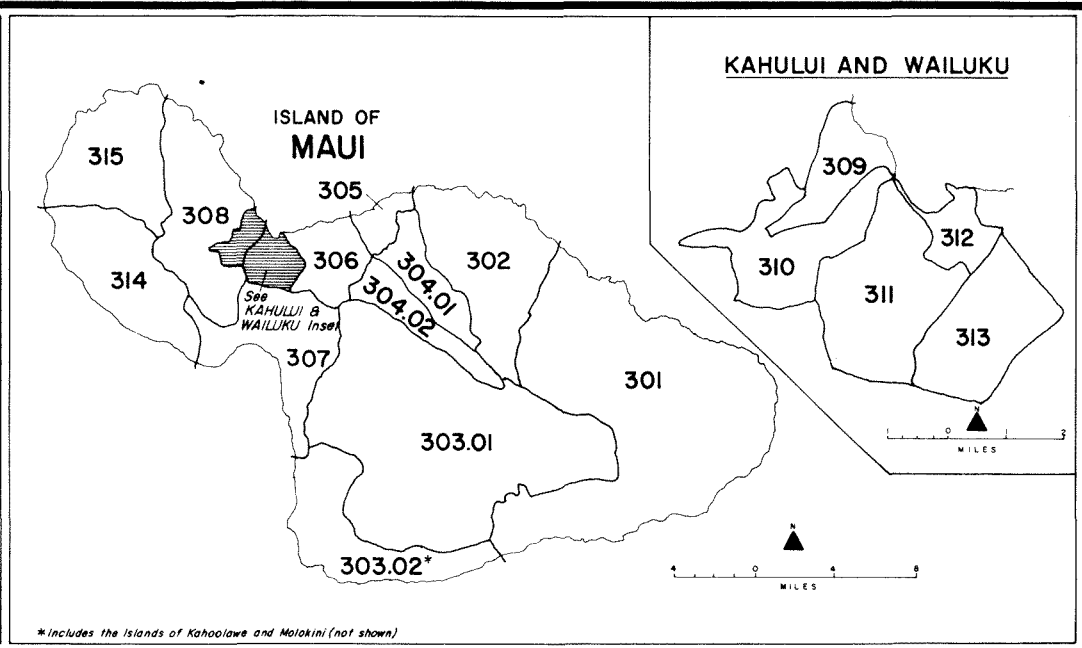
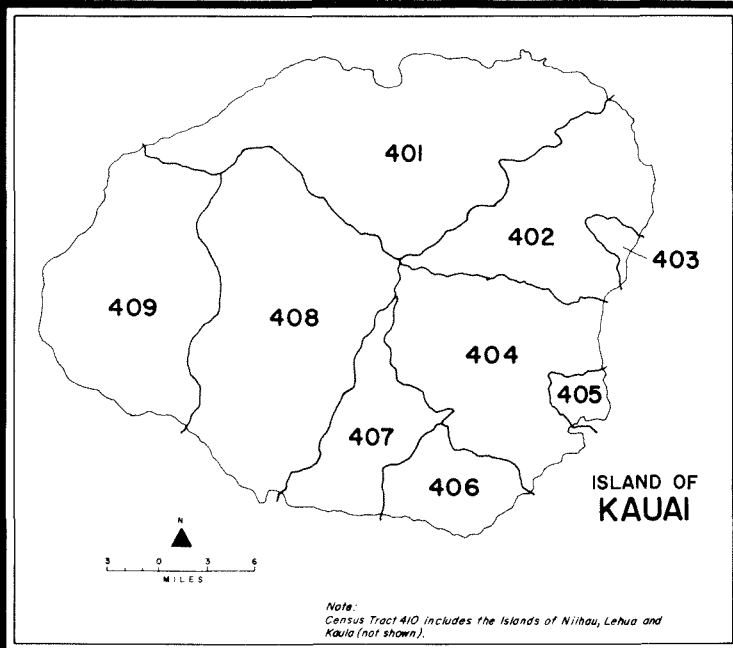


**WAIHAWA - SCHOFIELD BARRACKS INSET**



See  
Honolulu & vicinity map





**1980  
CENSUS TRACTS**

PREPARED BY  
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT  
STATE OF HAWAII  
1981

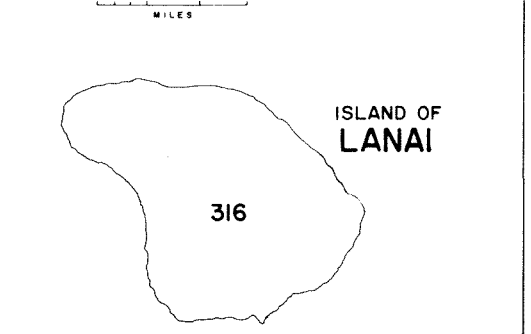


Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS

Census tract (1980 definitions) <u>1/</u>	Land area (acres)		Resident population			Households, 1980
	Total	Net <u>2/</u>	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
County total .....	381,888	222,895	630,528	762,565	811,096	230,214
Honolulu District .....	57,039	33,403	324,871	365,048	382,561	127,139
1.02 .....	778	776	1,915	2,067	2,041	599
1.03 .....	2,989	1,439	3,243	10,784	11,804	3,462
1.04 (1.01 pt.) ...	2,264	1,213	1,834	7,202	7,903	1,947
1.05 (1.01 pt.) ...	1,386	1,276	5,580	5,550	5,546	1,510
2 .....	2,711	626	5,123	4,970	5,762	1,485
3 .....	2,301	512	6,485	5,518	5,448	1,696
4.01 .....	582	360	1,571	2,734	2,871	804
4.02 .....	1,618	282	2,898	3,438	3,686	1,064
5 .....	698	694	5,253	4,711	4,597	1,668
6 .....	790	783	2,025	1,654	1,630	556
7 .....	235	235	3,794	3,350	3,311	1,022
8 .....	221	221	4,599	4,137	4,110	1,288
9.01 .....	219	106	2,773	2,621	2,588	925
9.02 .....	332	294	4,392	3,912	3,938	1,324
9.03 .....	153	153	3,514	2,932	2,926	1,005
10 .....	2,202	352	3,650	3,213	3,239	924
11 .....	190	167	4,586	4,077	4,057	1,025
12.01 .....	138	133	3,657	3,227	3,295	1,052
12.02 .....	158	146	4,231	3,593	3,609	1,091
13 .....	224	224	5,146	4,642	4,604	1,569
14 .....	119	119	2,990	2,797	2,762	846
15 .....	138	138	4,345	3,857	3,824	1,267
16 .....	148	148	4,783	4,617	4,565	1,475
17 .....	348	348	2,559	2,492	2,730	1,358
18.01 .....	40	40	1,286	1,140	1,384	668
18.02 .....	69	69	2,774	3,259	5,635	1,733
19.01 .....	316	311	1,111	1,412	1,958	868
19.02 .....	55	55	3,368	5,413	6,611	3,064
20.01 .....	73	73	2,186	2,560	4,354	1,445
20.02 .....	65	65	2,399	3,600	3,210	2,074
21 .....	279	279	3,347	3,619	3,582	1,558
22 .....	127	127	3,796	6,782	6,687	3,148
23 .....	90	90	4,195	5,073	4,995	2,410
24.01 .....	40	39	3,060	2,912	2,960	1,293
24.02 .....	63	63	2,818	3,042	3,180	1,395
25 .....	104	101	4,242	4,016	3,926	1,885

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980,  
FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) <u>1/</u>	Land area (acres)		Resident population			Households, 1980
	Total	Net <u>2/</u>	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
Honolulu District, con.						
26 .....	167	167	5,163	4,819	4,800	2,057
27.01 .....	366	364	3,675	5,291	5,311	693
27.02 .....	253	253	5,039	5,344	5,345	2,111
28 .....	582	327	4,316	3,679	4,333	1,202
29 .....	280	172	1,591	1,583	1,598	448
30 .....	380	351	4,966	4,491	4,600	1,611
31.01 .....	1,302	433	4,403	3,923	4,020	1,150
31.02 .....	989	322	4,030	3,716	3,769	1,106
32 .....	1,425	352	1,218	1,132	1,135	351
33 .....	148	141	1,145	1,069	1,083	310
34.03 .....	85	84	4,267	5,074	5,082	2,564
34.04 (34.01 pt.) ..	65	64	3,114	4,511	4,608	2,203
34.05 (34.01 pt.) ..	42	42	2,771	3,014	3,002	1,689
34.06 (34.02 pt.) ..	60	60	4,010	5,238	5,313	2,553
34.07 (34.02 pt.) ..	29	29	751	1,033	1,051	618
35 .....	181	181	4,308	4,399	4,389	2,198
36.01 .....	86	86	2,916	4,326	5,346	2,590
36.02 .....	90	90	2,654	2,661	2,791	1,246
37 .....	450	450	1,349	2,477	2,357	1,401
38 .....	287	287	523	387	332	155
38.99 <u>3/</u> .....	...	...	314	-	0	-
39 .....	291	291	263	115	68	73
39.99 <u>3/</u> .....	...	...	134	108	108	-
40 .....	70	70	100	820	1,066	498
41 .....	165	165	4,097	4,320	4,313	2,240
42 .....	63	63	1,162	2,637	2,604	1,524
43 .....	323	275	5,628	5,339	5,422	2,163
44 .....	867	243	6,142	5,274	5,273	1,486
45 .....	1,955	437	4,780	5,042	5,506	1,800
46 .....	1,751	458	4,377	3,928	3,906	1,187
47 .....	343	342	5,500	4,893	4,970	1,495
48 .....	831	510	6,608	6,146	7,716	1,720
49 .....	99	98	3,292	3,165	3,116	982
50 .....	130	130	3,973	4,075	4,589	1,368
51 .....	46	46	-	1,611	2,408	759
52 .....	41	41	1,405	858	1,103	248
53 .....	84	84	482	4,529	4,475	1,506
54 .....	22	22	1,862	1,718	1,696	409
55 .....	53	53	1,975	2,106	2,095	636

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Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) <u>1/</u>	Land area (acres)		Resident population			Households, 1980
	Total	Net <u>2/</u>	Apr. 1,	Apr. 1,	July 1,	
			1970	1980	1985	
Honolulu District, con.						
56 .....	227	226	5,768	5,794	6,489	1,550
57 .....	1,123	1,119	2,615	1,556	1,409	752
57.99 <u>3/</u> .....	...	...	134	592	592	-
58 .....	123	123	3,163	3,524	3,456	1,030
59 .....	566	565	4,388	3,854	3,662	1,055
59.99 <u>3/</u> .....	...	...	61	21	21	-
60 .....	176	171	6,711	5,663	5,410	1,352
61 .....	113	111	3,262	3,381	3,314	773
62.01 .....	130	129	4,295	4,741	4,609	1,165
62.02 .....	24	21	2,523	2,665	2,631	609
63.01 .....	171	167	3,713	3,315	3,270	732
63.02 .....	123	109	3,083	2,945	2,974	549
64.01 .....	46	45	1,400	1,737	1,798	348
64.02 .....	646	147	5,280	5,579	5,541	1,321
65 .....	2,311	311	4,011	4,037	4,114	935
66 .....	1,418	1,418	3,424	2,716	2,675	696
67.01 .....	4,726	1,253	7,502	7,477	7,514	1,851
67.02 .....	105	105	2,317	2,755	2,720	853
68.01 .....	1,273	1,102	2,968	20,689	23,970	6,568
68.02 .....	163	163	4,532	4,890	4,982	1,176
68.03 .....	277	261	-	-	0	-
69 .....	280	280	3,694	3,109	3,070	913
70 .....	704	704	4,899	4,251	4,024	1,294
71 .....	227	227	1,402	2,588	2,667	609
72 .....	3,446	3,028	3,864	1,364	1,592	155
114 .....	1,978	1,978	31	31	31	-
Rest of county .....	324,843	189,492	305,657	397,517	428,535	103,075
73 ... ..	1,661	1,597	7,530	6,393	6,145	1,732
73.99 <u>3/</u> .....	...	...	3,034	-	0	-
74 .....	1,313	1,305	4,016	3,138	3,172	713
74.99 <u>3/</u> .....	...	...	5,070	7,593	7,593	-
75.01 .....	563	537	4,946	7,467	8,694	2,005
75.02 .....	5,070	1,013	1,496	444	443	16
75.03 .....	559	458	4,982	4,865	5,042	1,306
76 .....	212	212	2,934	1,556	1,593	413
77.01 .....	309	304	4,880	4,645	4,665	1,210
77.02 .....	1,420	776	4,752	4,838	4,837	1,421
78.01 (78 pt. and 79)	6,703	2,068	5,559	12,813	14,996	3,527
78.02 (78 pt.) .....	3,219	757	895	11,367	14,382	4,051

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) <u>1/</u>	Land area (acres)		Resident population			Households, 1980
	Total	Net <u>2/</u>	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
Rest of county, con.						
80.01 .....	225	224	1,268	1,498	1,463	477
80.02 .....	263	249	3,347	2,987	2,919	826
80.03 .....	360	360	2,811	3,377	5,169	895
80.05 .....	3,100	443	7,846	7,465	7,394	1,839
80.06 (80.04 pt.) ..	436	401	4,349	5,906	5,862	1,427
80.07 (80.04 pt.) ..	372	365	4,708	6,473	6,395	1,591
81 .....	1,141	1,057	3,167	2,580	2,548	607
81.99 <u>3/</u> .....	...	...	368	-	0	-
82 .....	1,858	1,855	-	-	0	-
83 .....	3,182	3,181	4,759	12,437	12,272	2,861
84 .....	4,194	4,194	7,801	7,643	7,596	2,026
85 .....	3,588	3,588	3,187	2,942	2,912	772
86.01 .....	21,413	14,594	4,226	8,559	9,380	2,337
86.02 .....	9,832	9,826	4,114	4,653	5,160	1,143
86.99 <u>3/</u> .....	...	...	-	21	21	-
87.01 .....	342	334	5,958	7,284	7,209	1,518
87.02 .....	262	253	4,509	3,854	3,764	911
87.03 .....	421	416	2,238	3,468	3,462	1,116
88 .....	688	663	3,429	4,484	5,189	992
89.01 .....	330	324	7,328	7,861	7,801	1,984
89.02 .....	17,739	12,433	4,420	25,874	31,904	7,764
89.03 .....	14,467	6,515	2,369	6,566	12,447	1,626
90 .....	6,609	6,609	2,783	2,413	2,385	672
91 .....	8,224	3,169	3,410	3,339	3,943	798
92 .....	715	645	6,637	7,420	7,657	2,195
93 .....	298	246	4,875	4,451	4,425	1,429
94 .....	425	278	6,048	5,040	5,008	1,743
95.01 .....	1,862	1,396	3,762	3,587	3,684	887
95.02 .....	321	321	4,901	5,326	5,133	1,466
95.03 .....	443	443	2,566	6,076	6,075	1
95.04 .....	207	207	1,495	955	1,050	249
95.05 .....	6,212	6,212	858	2,955	2,872	831
96.01 .....	10,010	7,833	4,024	5,159	5,628	1,111
96.03 (96.02 pt.) ..	1,730	1,694	5,100	5,711	6,020	1,439
96.04 (96.02 pt.) ..	5,034	4,913	4,530	4,165	4,102	975
97 .....	7,603	4,793	6,020	10,524	11,278	2,697
98 .....	13,753	4,405	4,403	5,928	7,874	1,742
99.01 .....	22,302	13,543	4,529	5,350	5,473	1,613
99.02 .....	998	980	2,817	2,620	2,740	753
100 .....	45,977	18,259	1,825	1,879	1,872	478
101 .....	19,229	10,222	3,497	4,491	5,297	1,496

Continued on next page.



Table 12.-- RESIDENT POPULATION, 1970 TO 1985, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) <u>1/</u>	Land area (acres)		Resident population			Households, 1980
	Total	Net <u>2/</u>	Apr. 1, 1970	Apr. 1, 1980	July 1, 1985	
Rest of county, con.						
102.01 .....	16,219	4,112	3,255	3,952	4,001	1,166
102.02 .....	8,289	3,499	3,810	5,752	5,820	1,080
103.02 .....	2,529	1,285	3,338	3,232	3,370	817
103.03 (103.01 pt.) .	10,356	3,936	3,413	3,593	3,717	1,013
103.04 (103.01 pt. and 104) .....	4,575	2,439	4,776	9,784	10,925	2,737
105.01 .....	1,028	895	5,501	8,712	9,448	2,501
105.03 (105.02 pt.) .	145	137	2,033	1,804	1,770	510
105.04 (105.02 pt.) .	308	302	4,956	4,794	5,089	1,236
106.01 .....	283	247	3,227	3,019	3,082	835
106.02 .....	491	482	5,105	4,994	5,157	1,374
107.01 .....	749	495	2,586	3,680	3,821	1,128
107.02 .....	1,021	566	3,500	3,723	4,196	907
108 .....	3,027	2,752	7,860	11,578	11,494	1,854
108.99 <u>3/</u> .....	...	...	-	37	37	-
109.01 .....	826	426	3,374	3,161	3,148	924
109.03 (109.02 pt.) .	222	221	4,500	4,158	4,213	1,263
109.04 (109.02 pt.) .	232	232	3,874	3,506	3,538	999
109.05 (109.02 pt.) .	136	136	2,874	2,536	2,547	794
110 .....	6,809	2,941	3,957	4,218	4,733	1,115
111.01 .....	1,112	1,012	6,352	7,966	8,546	2,384
111.03 (111.02 pt.) .	807	659	2,145	3,872	3,874	1,017
111.04 (111.02 pt.) .	484	360	4,858	5,370	5,347	1,462
112.01 .....	575	560	5,377	4,841	4,920	1,498
112.02 .....	327	203	1,832	1,663	1,677	643
113 .....	7,100	5,125	6,777	9,132	9,120	2,137

NA Not available.

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ Total land area less forest reserve and undevelopable open space.

3/ The ".99" tracts consist of vessels anchored off the indicated tract

Source: U.S. Bureau of the Census, 1970 Census of Population and Housing Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), and Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981); City and County of Honolulu, Department of General Planning, unpublished estimates of census tracts areas and populations, 1985. The 1970 population of tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts

Table 13.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980,  
FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS

County, island and census tract <u>1/</u>	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Total, 4 counties ...	3,730,240	139,385	202,126	63,838
Hawaii County .....	2,581,888	63,468	92,053	29,237
201 .....	74,828	5,503	5,261	1,558
202 .....	154,950	2,059	1,748	502
203 .....	908	3,435	4,292	1,744
204 .....	710	3,531	4,003	1,342
205 .....	1,672	4,604	5,672	1,826
205.99 <u>2/</u> .....	...	83	25	-
206 .....	12,808	2,989	3,702	1,132
207 .....	2,022	5,231	7,690	2,285
208 .....	10,894	4,865	7,017	2,047
209 .....	7,200	1,615	2,868	815
210 .....	147,610	3,802	7,055	2,381
211 .....	129,318	1,352	4,696	1,450
212 .....	636,742	3,398	3,699	1,108
213 .....	233,112	1,563	3,560	1,107
214 .....	18,489	2,441	2,354	746
215 .....	273,559	2,589	7,610	2,525
216 .....	4,840	2,243	6,138	2,077
217 .....	205,937	2,310	4,607	1,483
218 .....	85,189	3,326	3,249	1,022
219 .....	74,636	2,829	3,287	1,042
220 .....	262,985	1,819	1,841	535
221 .....	243,479	1,881	1,679	510
Maui and Kalawao Counties .....	751,936	46,156	70,991	22,581
Maui and Kahoolawe .....	495,104	38,691	62,823	20,162
301 .....	148,941	969	1,423	435
302 .....	38,548	2,067	3,567	1,096
303.01 (303 pt.) .....	92,037	2,024	3,850	1,317
303.02 (303 pt.) .....	45,442	100	1,227	474
304.01 (304 pt.) .....	10,430	2,494	4,366	1,341
304.02 (304 pt.) .....	10,892	1,629	4,285	1,254
305 .....	4,931	1,665	1,710	553
306 .....	12,743	781	220	92
307 .....	22,348	1,636	6,020	2,103
307.99 <u>2/</u> .....	...	-	15	-
308 .....	39,252	1,299	1,584	461
309 .....	435	4,537	6,542	2,041
310 .....	782	4,547	4,132	1,489

Continued on next page.

Table 13.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract <u>1/</u>	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Maui and Kalawao, con.				
Maui and Kahoolawe, con.				
311 .....	3,290	5,505	10,424	2,967
312 .....	808	2,782	2,602	893
313 .....	2,689	1,132	572	174
314 .....	28,704	4,171	6,654	2,115
315 .....	32,832	1,353	3,630	1,357
Lanai .....	89,856	2,204	2,119	650
316 .....	89,856	2,204	2,119	650
Molokai .....	166,976	5,261	6,049	1,769
317 .....	83,328	2,574	3,574	1,044
318 .....	75,136	2,515	2,331	654
319 (Kalawao County) .	8,512	172	144	71
Kauai County .....	396,416	29,761	39,082	12,020
Kauai .....	351,616	29,524	38,856	11,979
401 .....	80,166	1,182	2,668	902
402 .....	42,294	3,599	6,030	1,829
403 .....	2,179	3,794	4,467	1,425
404 .....	50,368	3,642	4,590	1,181
405 .....	3,909	3,124	4,000	1,389
406 .....	15,123	3,141	3,879	1,240
407 .....	23,518	3,660	4,855	1,523
407.99 <u>2/</u> .....	...	50	-	-
408 .....	77,347	3,173	3,111	947
409 .....	56,712	4,159	5,256	1,543
Niihau and Lehua .....	44,800	237	226	41
410 .....	44,800	237	226	41

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Maalaea Bay, adjacent to tract 307, are assigned to tract 307.99.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981), 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), Areas of Hawaii: 1960, GE-20, No. 13 (October 1967), p. 5, and revised acreage data for counties and islands supplied May 5, 1983. The 1970 population of census tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 14.-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR WAIKIKI: 1920 TO 1986

[For definitions of resident and de facto population, see table 3, footnotes 1 and 3. Waikiki is the area bounded by the Ala Wai Canal, Kapahulu Ave., and the Pacific Ocean]

Year	Resident population		De facto population		Employed persons <u>2/</u>	
	Total	Temporarily absent <u>1/</u>	Total	Visitors present <u>1/</u>	Living in Waikiki	Working in Waikiki
1920 .....	3,471	(NA)	(NA)	(NA)	(NA)	(NA)
1930 .....	4,221	(NA)	(NA)	(NA)	(NA)	(NA)
1940 .....	7,350	(NA)	(NA)	(NA)	(NA)	(NA)
1950 .....	11,309	21	13,036	1,748	6,228	(NA)
1960 .....	11,075	36	18,753	7,714	6,327	(NA)
1970 .....	13,124	176	34,874	21,926	7,866	(NA)
1980 .....	17,384	174	63,710	46,500	9,593	30,011
1984 .....	22,190	344	79,270	57,424	(NA)	(NA)
1986 .....	(NA)	(NA)	(NA)	63,000	(NA)	(NA)
DENSITY <u>3/</u>						
1980 .....	28.4	0.3	103.9	75.9	15.6	49.0
1984 .....	36.2	0.6	129.2	93.7	(NA)	(NA)
1986 .....	(NA)	(NA)	(NA)	102.8	(NA)	(NA)

NA Not available.

1/ Annual averages. Estimated.

2/ Includes armed forces.

3/ Per acre. Based on net land area of 613 acres.

Source: Resident population from Hawaii State Census Statistical Areas Committee, Report CTC-55 (Dec. 15, 1983), and Data Book 1986, table 11. Visitors present and residents absent estimated by Hawaii State Data Center from Hawaii Visitors Bureau survey data. Employment from U.S. Bureau of the Census, census tract bulletins (1950-1980), and Data Book 1986, table 367.

Table 15.-- CENTERS OF POPULATION, FOR THE STATE, 1960 TO 1980, AND COUNTIES, 1970 AND 1980

["Center of population" is that point at which an imaginary flat, weightless, and rigid map of an area would balance if weights of identical value were placed on it so that each weight represented the location of one resident on the date of the census]

Geographic area	North latitude	West longitude	Approximate location
<b>State:</b>			
1960 .....	21°12'50"	157°37'03"	7 mi. SE of Makapuu Point
1970 .....	21°13'38"	157°39'20"	3.5 mi. SE of Blow Hole
1980 .....	21.2009°	157.6129°	7 mi. SE of Koko Head
Geographic center <u>1/</u>	20°15'	156°20'	24 mi. S of Kanahena Pt.
<b>Hawaii County:</b>			
1970 .....	19°43'13"	155°19'22"	15 mi. W of Hilo
1980 .....	19.7015°	155.3667°	17 mi. W of Hilo
<b>Maui County:</b>			
1970 <u>2/</u> .....	20°53'59"	156°33'06"	1 mi. NE of Iao Needle
1980 .....	20.8809°	156.5184°	1 mi. SW of Wailuku PO
<b>Kalawao County:</b>			
1970 <u>2/</u> .....	...	...	...
1980 .....	21.1930°	156.9766°	Kalaupapa
<b>Honolulu County:</b>			
1970 .....	21°21'55"	157°53'18"	Tripler Hospital
1980 .....	21.3704°	157.8946°	1457 Ala Aolani St.
<b>Kauai County:</b>			
1970 .....	22°01'34"	159°28'19"	3.5 mi. SE of Kawaikini
1980 .....	22.0065°	159.4659°	3.5 mi. N of Knudsen Gap

1/ Based on land area rather than population.

2/ Kalawao included with Maui in 1970.

Source: U.S. Bureau of the Census, Centers of Population for States and Counties, 1950, 1960, and 1970 (December 1974), pp. 3, 66, and Hawaii map, and 1980 measurements provided May 8, 1984; U.S. Department of Commerce, News Release NOS 73-80 (October 10, 1973). Cited in Hawaii State Census Statistical Areas Committee, Centers of Population, 1960-1980 (Report CTC-59, August 17, 1984).

Table 16.-- POPULATION AND LAND AREA, URBAN AND RURAL, BY COUNTIES:  
1970 AND 1980

[Urban places are those with populations of 2,500 or more. Places with populations less than 2,500 and open country are classified as rural. For 1960 statistics, see Data Book 1984, tables 15 and 16]

County and type of area	Land area (square miles)		Resident population	
	1970	1980	1970	1980
State total .....	6,425.4	6,425	769,913	964,691
Urban .....	226.8	278	643,222	834,592
Rural .....	6,198.6	6,147	126,691	130,099
City and Co. of Honolulu .....	595.7	596	630,528	762,565
Honolulu Urbanized Area <u>1/</u> .....	115.0	135	443,749	582,463
Kailua-Kaneohe Urbanized Area <u>2/</u> .....	(3/)	34	(3/)	105,712
Other urban .....	37.3	15	146,225	47,116
Rural .....	443.4	412	40,554	27,274
Hawaii County .....	4,037.0	4,034	63,468	92,053
Urban .....	56.1	61	26,353	40,020
Rural .....	3,980.9	3,973	37,115	52,033
Kauai County .....	619.1	620	29,761	39,082
Urban .....	10.2	12	6,918	17,454
Rural .....	608.9	608	22,843	21,628
Maui and Kalawao Counties .....	1,173.6	1,175	46,156	70,991
Urban .....	8.2	21	19,977	41,827
Rural .....	1,165.4	1,154	26,179	29,164

1/ The Honolulu Urbanized Area consists of Honolulu District (the area southwest of the crest of the Koolau Mountains, between Red Hill and Makapuu Point) and the adjacent urbanized territory circling Pearl Harbor, as far west as Waipahu and Ewa Beach in 1970 and 1980, and also extending to Whitmore Village and Schofield Barracks in 1980.

2/ The Kailua-Kaneohe Urbanized Area was initially defined as of 1980. It includes the urban territory on Windward Oahu, from Kahaluu through Waimanalo Beach.

3/ Included with "other urban."

Source: 1970 from the Hawaii State Department of Planning and Economic Development, Land Use and Ownership Trends in Hawaii (Statistical Report 98, December 28, 1973), p. 19; 1980 from U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A1, tables 25 and 34, and PC80-1-A13, table 3, and the Hawaii State Department of Planning and Economic Development, Statistical Memorandum 83-6 (May 18, 1983).

Table 17.-- POPULATION PROJECTIONS, RESIDENT AND DE FACTO,  
BY COUNTIES: 1980 TO 2005

[Thousands. As of July 1. Series M-F projections, recommended by DBED  
for State planning purposes]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui <u>1/</u>
Resident population: <u>2/</u>						
1980 (est.) .....	968.9	764.8	204.1	93.0	39.4	71.6
1985 (est.).....	1,053.9	814.6	239.2	109.2	44.8	85.3
1990 .....	1,138.4	859.3	279.1	122.6	55.1	101.4
1995 .....	1,211.5	896.9	314.6	134.4	63.9	116.3
2000 .....	1,267.8	925.7	342.2	143.2	69.1	129.9
2005 .....	1,310.0	954.5	355.5	147.6	72.2	135.7
De facto population: <u>3/</u>						
1980 (est.) .....	1,055.8	823.6	232.2	99.5	46.4	86.4
1985 (est.).....	1,152.0	865.1	286.9	115.8	55.6	115.5
1990 .....	1,277.5	941.1	336.4	135.1	66.9	134.4
1995 .....	1,373.0	985.2	387.8	150.6	79.3	157.9
2000 .....	1,447.2	1,018.2	429.0	163.1	88.2	177.7
2005 .....	1,501.0	1,052.1	448.9	168.6	92.2	188.1

1/ Includes Kalawao.

2/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence; it includes visitors present but excludes residents temporarily absent.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1980-1985 (Statistical Report 190, July 2, 1986), table 5, and Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 11.

Table 18.-- POPULATION BY AGE GROUP AND SEX: 1980

[Based on full-count information. For single-year data, see either the source or Data Book 1984, table 18]

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
All ages .....	964,691	494,683	470,008	762,565	202,126
Under 5 years .....	77,848	40,004	37,844	60,154	17,694
5 to 9 years .....	73,057	37,555	35,502	56,771	16,286
10 to 14 years .....	74,870	38,459	36,411	58,528	16,342
15 to 19 years .....	86,446	45,673	40,773	69,715	16,731
20 to 24 years .....	105,682	59,070	46,612	89,371	16,311
25 to 29 years .....	95,287	48,864	46,423	75,965	19,322
30 to 34 years .....	84,314	42,990	41,324	67,491	16,823
35 to 39 years .....	63,948	32,684	31,264	51,285	12,663
40 to 44 years .....	47,468	23,765	23,703	38,045	9,423
45 to 49 years .....	45,240	21,589	23,651	36,161	9,079
50 to 54 years .....	49,204	23,298	25,906	38,614	10,590
55 to 59 years .....	47,383	23,502	23,881	36,645	10,738
60 to 64 years .....	37,794	18,871	18,923	28,452	9,342
65 to 69 years .....	29,153	15,384	13,769	21,457	7,696
70 to 74 years .....	20,222	10,991	9,231	14,475	5,747
75 to 79 years .....	13,673	6,796	6,877	9,901	3,772
80 to 84 years .....	7,541	3,177	4,364	5,527	2,014
85 years and over ..	5,561	2,011	3,550	4,008	1,553
18 years and over ..	689,108	353,167	335,941	548,002	141,106
62 years and over ..	97,582	48,960	48,622	71,399	26,183
65 years and over ..	76,150	38,359	37,791	55,368	20,782
Median (years) .....	28.3	27.6	29.1	28.0	29.6

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (July 1982), table 19.



Table 19.-- POPULATION, BY AGE, SEX, AND MILITARY STATUS: 1980

[Based on a 15.7-percent sample]

Age in years	All groups	Armed forces		Military dependents <sup>1/</sup>		Other civilians	
		Male	Female	Male	Female	Male	Female
Total .....	964,691	54,032	4,411	20,192	41,782	420,748	423,526
Under 1 .....	17,113	-	-	1,590	1,495	7,075	6,953
1 to 4 .....	59,871	-	-	5,498	5,415	25,375	23,583
5 to 9 .....	73,311	-	-	5,529	5,161	32,330	30,291
10 to 14 .....	74,747	-	-	3,772	3,617	34,861	32,497
15 to 19 .....	86,054	5,598	411	2,184	2,841	37,958	37,062
20 to 24 .....	105,987	21,970	1,937	636	5,738	36,687	39,019
25 to 29 .....	95,453	9,960	1,237	408	5,923	38,249	39,676
30 to 34 .....	84,781	7,345	447	144	5,104	35,960	35,781
35 to 39 .....	65,309	4,939	113	82	3,210	28,315	28,650
40 to 44 .....	46,740	2,534	83	18	1,537	20,876	21,692
45 to 49 .....	43,486	1,001	88	34	812	19,725	21,826
50 to 54 .....	49,611	428	65	93	422	22,594	26,009
55 to 59 .....	48,155	185	18	57	169	23,874	23,852
60 to 64 .....	38,108	63	12	33	99	18,818	19,083
65 to 69 .....	28,653	-	-	80	121	15,158	13,294
70 to 74 .....	20,524	-	-	24	76	10,928	9,496
75 to 79 .....	13,649	9	-	-	17	6,603	7,020
80 to 84 .....	7,607	-	-	5	20	3,281	4,301
85 and over ....	5,532	-	-	5	5	2,081	3,441
Under 15 .....	225,042	-	-	16,389	15,688	99,641	93,324
15 to 64 .....	663,684	54,023	4,411	3,689	25,855	283,056	292,650
65 and over ....	75,965	9	-	114	239	38,051	37,552
Median (years) .	28.4	24.9	24.6	7.7	22.1	29.7	30.4

<sup>1/</sup> Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the armed forces.

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), table 4.

Table 20.-- RESIDENT POPULATION, BY AGE AND SEX: 1980 AND 1986

[In thousands. Includes armed forces stationed or homeported in Hawaii. The 1986 estimates are provisional]

Age group	April 1, 1980 (census)			July 1, 1986 (estimates)		
	Both sexes	Male	Female	Both sexes	Male	Female
Total .....	965	495	470	1,062	542	520
Under 5 years .....	78	40	38	90	46	44
5 to 14 years .....	148	76	72	150	77	73
15 to 24 years .....	192	105	87	175	95	80
25 to 34 years .....	180	92	88	196	101	95
35 to 44 years .....	111	56	55	155	78	77
45 to 54 years .....	94	45	50	94	45	49
55 to 64 years .....	85	42	43	99	50	49
65 to 74 years .....	49	26	23	66	33	33
75 years and over ..	27	12	15	37	18	20
5 to 17 years .....	198	102	96	196	101	95
18 to 24 years .....	142	79	63	129	71	58
25 to 44 years .....	291	148	143	351	179	172
45 to 64 years .....	180	87	92	193	95	99
14 years and over ..	754	386	368	837	426	411
16 years and over ..	723	370	352	807	411	396
18 years and over ..	689	353	336	777	396	381
21 years and over ..	631	320	310	725	367	357
65 years and over ..	76	38	38	103	50	53
Median age .....	28.3	27.6	29.1	30.9	30.2	31.7

Source: U.S. Bureau of the Census, "State Population and Household Estimates, With Age, Sex, and Components of Change: 1981-86," Current Population Reports, Population Estimates and Projections, Series P-25, No. 1010 (September 1987), p. 45.

Table 21.-- RESIDENT POPULATION, BY AGE AND SEX, FOR COUNTIES:  
JULY 1, 1984

[Provisional estimates]

Sex and age	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total .....	1,037,848	803,135	107,133	44,155	83,425
Males .....	529,052	408,445	55,062	22,962	42,583
Under 5 years .....	46,959	35,602	5,266	2,165	3,926
5 to 9 years .....	36,702	27,535	4,582	1,566	3,019
10 to 14 years .....	38,659	29,289	4,533	1,676	3,161
15 to 19 years .....	40,287	31,855	3,920	1,589	2,923
20 to 24 years .....	58,567	50,022	3,873	1,675	2,997
25 to 34 years .....	99,360	76,236	9,809	4,397	8,918
35 to 44 years .....	68,261	52,789	7,123	2,948	5,401
45 to 54 years .....	46,366	36,222	4,566	1,897	3,681
55 to 64 years .....	48,627	36,720	5,385	2,315	4,207
65 to 74 years .....	29,752	21,437	3,787	1,702	2,826
75 years and over ....	15,512	10,738	2,218	1,032	1,524
Females .....	508,796	394,690	52,071	21,193	40,842
Under 5 years .....	42,776	32,295	5,050	2,034	3,397
5 to 9 years .....	35,172	26,397	4,094	1,619	3,062
10 to 14 years .....	36,051	27,339	3,810	1,817	3,085
15 to 19 years .....	38,214	30,287	3,768	1,337	2,822
20 to 24 years .....	48,523	39,902	3,873	1,540	3,208
25 to 34 years .....	94,440	73,398	9,504	3,749	7,789
35 to 44 years .....	65,175	51,234	6,085	2,598	5,258
45 to 54 years .....	49,699	39,026	4,948	1,977	3,748
55 to 64 years .....	51,175	39,183	5,488	2,202	4,302
65 to 74 years .....	29,694	22,166	3,430	1,467	2,631
75 years and over ....	17,877	13,463	2,021	853	1,540
Median age .....	29.9	29.6	30.6	31.3	30.9
Male .....	29.3	28.8	30.5	31.6	30.8
Female .....	30.5	30.4	30.7	30.9	31.0

Source: U.S. Bureau of the Census, County Population Estimates (Experimental) by Age, Sex, and Race: 1980, 1982, and 1984 (1987), tabulated by the Hawaii State Data Center.

Table 22.-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 1990, 1995, AND 2005

[Thousands. As of July 1. Series M-F projections, recommended by DBED for Statewide planning purposes. For 1980 estimate and 2000 projection, see source or Data Book 1984, table 22]

Age in years	1990			1995			2005		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total .	1,138.4	578.5	560.0	1,211.5	613.2	598.3	1,310.0	659.8	650.1
0 to 4 .....	89.4	45.7	43.6	91.3	46.7	44.6	91.3	46.8	44.5
5 to 9 .....	83.4	43.0	40.4	87.0	44.8	42.2	88.8	45.7	43.1
10 to 14 ...	78.1	40.1	38.0	82.1	42.1	40.0	85.7	43.9	41.7
15 to 19 ...	82.9	44.6	38.3	85.2	45.8	39.4	89.0	47.7	41.3
20 to 24 ...	109.5	62.7	46.8	109.5	62.8	46.6	109.6	63.1	46.6
25 to 29 ...	101.4	52.5	48.9	101.2	52.8	48.4	98.8	51.7	47.0
30 to 34 ...	98.2	49.8	48.4	99.6	51.0	48.7	96.8	50.0	46.8
35 to 39 ...	88.8	44.8	43.9	93.5	47.4	46.1	93.8	48.1	45.7
40 to 44 ...	75.6	37.7	37.9	84.1	41.9	42.2	89.6	45.2	44.4
45 to 49 ...	61.8	30.2	31.6	72.7	35.6	37.1	84.3	41.7	42.6
50 to 54 ...	52.8	25.4	27.4	62.2	30.1	32.1	77.5	37.9	39.7
55 to 59 ...	47.7	22.6	25.1	53.2	25.4	27.8	68.6	33.1	35.5
60 to 64 ...	44.8	21.1	23.7	47.2	22.2	25.0	59.0	28.0	31.0
65 to 69 ...	40.0	19.1	20.9	42.1	19.7	22.5	50.0	23.2	26.8
70 to 74 ...	32.2	15.5	16.7	35.7	16.5	19.2	41.6	18.7	22.8
75 to 79 ...	23.1	11.1	12.1	27.4	12.5	14.9	33.1	14.4	18.8
80 to 84 ...	14.8	6.9	8.0	18.5	8.2	10.3	24.0	9.9	14.1
85 and over	14.0	5.7	8.3	19.0	7.7	11.3	28.6	10.8	17.8
Median age .	31.3	30.1	32.5	32.5	31.1	33.9	34.7	33.1	36.5

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), pp. 12-13.

Table 23.-- CENTENARIAN POPULATION AND DEATHS: 1980 TO 1986

Subject	Number			Age of oldest (years)	
	Both sexes	Male	Female	Male	Female
Persons 100 years and over:					
April 1980 <sup>1/</sup> .....	113	51	62	110+	110+
December 1983 <sup>2/</sup> .....	70	30	40	110	109
December 1986 <sup>2/</sup> .....	100	40	60	(NA)	(NA)
Deaths 100 and over:					
1980-1984 .....	99	28	71	110	113
1985 .....	33	10	23	114	109
1986 .....	29	10	19	106	106

NA Not available.

<sup>1/</sup> Census data.

<sup>2/</sup> Social Security beneficiaries in force. Based on a 10-percent sample.

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Extreme Old Age in Hawaii (Population Report, No. 14, November 1982); U.S. Department of Human Services, Social Security Administration, Division of Statistical Operations and Services, records; Hawaii State Department of Health, Research and Statistics Office, records.

Table 24.-- ETHNIC STOCK BY MILITARY STATUS: 1986

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,107 persons]

Ethnic stock <sup>1/</sup>	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups .....	1,022,745	100.0	37,169	66,211	919,366
Unmixed .....	703,990	68.8	34,947	54,545	614,497
Caucasian .....	239,294	23.4	22,729	33,105	183,460
Japanese .....	235,207	23.0	127	886	234,194
Chinese .....	48,727	4.8	67	0	48,660
Filipino .....	115,519	11.3	1,402	5,456	108,661
Hawaiian .....	8,093	0.8	0	0	8,093
Korean .....	13,284	1.3	0	714	12,569
Black .....	23,032	2.3	8,703	11,573	2,756
Puerto Rican .....	4,279	0.4	861	1,021	2,397
Samoan .....	3,825	0.4	151	768	2,906
Other unmixed or unknown .	12,729	1.2	908	1,022	10,800
Mixed .....	318,755	31.2	2,221	11,665	304,869
Part Hawaiian .....	203,355	19.9	490	982	201,884
Non Hawaiian .....	115,401	11.3	1,732	10,684	102,985

<sup>1/</sup> 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 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

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

Table 25.-- ETHNIC STOCK, BY COUNTIES: 1986

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,107 persons]

Ethnic stock <sup>1/</sup>	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
All groups .....	1,022,751	780,024	110,140	45,921	86,666
Unmixed .....	704,416	555,941	62,008	30,248	56,220
Caucasian .....	239,444	182,751	26,174	8,579	21,940
Japanese .....	235,232	185,371	22,473	10,226	17,162
Chinese .....	48,832	46,680	1,303	273	575
Filipino .....	115,611	81,924	9,741	10,464	13,482
Hawaiian .....	8,104	5,502	666	334	1,602
Korean .....	13,313	12,608	285	103	318
Black .....	23,031	22,693	263	12	64
Puerto Rican .....	4,263	2,928	756	181	397
Samoan .....	3,830	3,751	79	0	0
Other unmixed and unknown	12,756	11,731	269	75	681
Mixed .....	318,335	224,084	48,132	15,673	30,446
Part Hawaiian .....	203,085	138,309	33,405	10,208	21,163
Non Hawaiian .....	115,250	85,775	14,727	5,465	9,283

<sup>1/</sup> 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 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 26.-- POPULATION BY RACE AND SPANISH ORIGIN, BY COUNTIES: 1980

[Based on a 15.7-percent sample]

Race and Spanish origin	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons .....	964,691	762,565	92,053	144	39,082	70,847
Race: <u>1/</u>						
White .....	331,925	262,604	32,198	21	11,565	25,537
Black .....	17,687	17,203	278	-	59	147
American Indian .....	2,833	2,348	316	-	63	106
Eskimo .....	74	69	-	-	-	5
Aleut .....	69	28	17	-	-	24
Japanese .....	239,734	190,218	24,446	23	9,606	15,441
Chinese .....	55,916	52,301	1,600	9	587	1,419
Filipino .....	132,075	96,421	12,746	26	9,944	12,938
Korean .....	17,453	16,566	522	1	128	236
Asian Indian .....	708	637	25	-	-	46
Vietnamese .....	3,403	3,251	139	-	-	13
Hawaiian .....	118,251	81,868	17,317	59	6,057	12,950
Guamanian .....	1,630	1,470	49	-	64	47
Samoan .....	14,349	13,975	219	3	63	89
Other Asian and Pacific Islander .....	7,140	6,410	490	2	24	214
Race n.e.c. ....	21,444	17,196	1,691	-	922	1,635
Spanish origin: <u>2/</u>						
Spanish origin .....	71,399	54,619	8,261	1	3,226	5,292
Not of Spanish origin ..	893,292	707,946	83,792	143	35,856	65,555

n.e.c. Not elsewhere classified.

1/ Persons of mixed race classified by self-identification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 27.3 percent of the population in households in 1980 was of mixed race (17.9 percent Part Hawaiian and 9.4 percent non-Hawaiian).

2/ For a cross-tabulation of Spanish origin by race, see Data Book 1985, table 27.

Source: U.S. Bureau of the Census, Census of Population: 1980, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (1983), tables 58 and 59.



Table 27.-- ANCESTRY: 1980

Ancestry group <u>1/</u>	Persons who reported --		
	At least one specific ancestry group	A single ancestry group	A multiple ancestry group
Total <u>2/</u> .....	901,210	632,972	268,238
Dutch .....	10,554	1,886	8,668
English .....	96,223	33,262	62,961
French .....	26,429	3,926	22,503
German .....	82,982	22,181	60,801
Irish .....	68,041	12,845	55,196
Italian .....	13,994	5,331	8,663
Portuguese .....	57,541	26,447	31,094
Scottish .....	24,300	3,387	20,913
Afro-American .....	15,612	13,200	2,412
Chinese .....	91,305	45,062	46,243
Filipino .....	139,621	105,973	33,648
Japanese .....	246,000	214,964	31,036
Korean .....	20,854	15,091	5,763
Puerto Rican .....	14,997	7,082	7,915
Spanish/Hispanic .....	17,208	4,001	13,207
Hawaiian <u>3/</u> .....	136,341	61,226	75,115
American Indian .....	11,728	2,210	9,518

1/ Shown separately for all groups over 10,000.

2/ Numbers by ancestry group do not add to total because persons reporting a multiple ancestry are included in more than one group.

3/ The U.S. total for persons with Hawaiian ancestry was 202,054, including 84,104 reporting a single ancestry group and 117,950 reporting a multiple ancestry group. Out of 65,708 Mainland residents reporting Hawaiian ancestry, 32,145 were living in California.

Source: U.S. Bureau of the Census, 1980 Census of Population, Ancestry of the Population by State: 1980, Supplementary Report PC80-S1-10 (April 1983).

Table 28.-- PLACE OF BIRTH, MOBILITY, MILITARY STATUS, AND COLLEGE ATTENDANCE OF HAWAIIANS LIVING IN HAWAII AND ON THE MAINLAND: 1980

[Race based on self-identification or race of mother. Unless otherwise specified, data are from the 5-percent Public Use Microdata Sample]

Subject	Place of residence in 1980		
	United States	Hawaii	Other States
All Hawaiians <u>1/</u> .....	177,900	122,660	55,240
Place of birth:			
Hawaii .....	142,900	117,060	25,840
Other States .....	30,460	3,780	26,680
U.S. territories and possessions <u>2/</u> ..	2,260	960	1,300
Foreign country .....	2,280	860	1,420
Military status in 1980:			
Armed forces .....	3,040	800	2,240
Military dependents .....	2,880	1,020	1,860
All others .....	171,980	120,840	51,140
College attendance in 1980:			
Attending college .....	8,120	3,820	4,300
Not attending college .....	169,780	118,840	50,940
Residence in 1975: <u>3/</u>			
Hawaii .....	112,920	106,800	6,120
Other States .....	47,640	3,200	44,440
Abroad .....	1,720	480	1,240

1/ For totals based on the larger 15.7-percent sample for Hawaii and 18.2-percent sample for the U.S. as a whole, see the following table.

2/ Includes persons born abroad or at sea of U.S. parents.

3/ Excludes persons under 5 years old. Based on the 2.5-percent Public Use Microdata Sample.

Source follows next table.

Table 29.-- SOCIAL AND ECONOMIC CHARACTERISTICS OF HAWAIIANS LIVING IN HAWAII AND ON THE MAINLAND: 1980

[Race based on self-identification or race of mother. Unless otherwise specified, data are from the 5-percent Public Use Microdata Sample]

Subject	Place of residence in 1980		
	United States	Hawaii	Other States
Number of Hawaiians <sup>1/</sup> .....	172,346	118,251	54,095
Males per 100 females .....	93.2	94.6	90.2
Age (percent):			
Under 15 years .....	29.9	33.1	22.8
15 to 64 years .....	64.3	62.2	69.0
65 years and over .....	5.8	4.7	8.2
Median age (years) .....	23.9	22.4	26.9
Households <sup>2/</sup> .....	49,040	29,240	19,800
Persons per household <sup>3/</sup> .....	3.54	4.13	2.66
Percent in group quarters .....	2.4	1.5	4.5
Persons 25 years and over:			
Percent high school graduates .....	68.8	69.2	68.1
Percent college, 4 or more years .....	10.0	8.3	13.2
Percent of persons 16 and over in labor force .	64.1	63.2	65.7
Percent of civilian labor force unemployed ....	6.8	7.1	6.1
Percent of employed persons in managerial and professional specialty occupations .....	17.9	16.7	20.2
Median 1979 income (dollars):			
Households <sup>2/</sup> .....	16,541	18,705	13,413
Families <sup>2/</sup> .....	19,475	20,030	18,299
Unrelated individuals .....	6,466	7,841	5,761
Percent of persons below poverty status .....	14.0	14.6	12.9

<sup>1/</sup> Based on a 15.7 percent sample for Hawaii and 18.2 percent sample nationally (from U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, PC80-1-C1 (Dec. 1983), table 232), and thus somewhat different from the totals based on the 5-percent sample in the preceding table.

<sup>2/</sup> Households with a Hawaiian householder.

<sup>3/</sup> Hawaiians in households per Hawaiian householder. Many households with a Hawaiian householder have non-Hawaiian household members, and many Hawaiian household members live in households with a non-Hawaiian householder.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980, Public Use Microdata Sample A -- 5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 30.-- NATIVITY, PLACE OF BIRTH, AND CITIZENSHIP: 1980 AND 1970

Nativity, place of birth, and citizenship	State totals		Islands: 1980	
	1980	1970	Oahu	Other islands
<b>NATIVITY AND PLACE OF BIRTH</b>				
Total persons .....	964,691	768,559	762,565	202,126
Native <u>1/</u> .....	827,675	692,964	649,354	178,321
Born in Hawaii .....	557,990	455,060	420,120	137,870
Born in different State .....	248,752	178,531	209,901	38,851
Born abroad, at sea, etc. <u>2/</u> ....	20,933	17,286	19,333	1,600
Foreign born .....	137,016	75,595	113,211	23,805
Europe and U.S.S.R. ....	9,100	5,595	7,457	1,643
China .....	6,112	4,663	5,875	237
Japan .....	22,265	19,685	18,718	3,547
Korea .....	9,060	2,063	8,774	286
Philippines .....	58,510	33,175	43,880	14,630
Vietnam .....	3,606	(3/)	3,531	75
All other countries .....	22,267	8,208	19,719	2,548
Country not reported .....	6,096	2,206	5,257	839
<b>CITIZENSHIP <u>4/</u></b>				
Foreign born .....	137,016	73,578	113,211	23,805
Naturalized citizen .....	62,287	30,566	51,314	10,973
Not a citizen .....	74,729	43,012	61,897	12,832

1/ 1970 figure includes persons not reporting place of birth, not shown separately.

2/ Includes persons born in Puerto Rico, American Samoa, or other outlying areas of the United States, and persons born at sea or in a foreign country having at least one American parent.

3/ Included with "All other countries."

4/ 1970 data based on a subsample; foreign born total thus differs somewhat from corresponding figure shown elsewhere in this table.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 61, 63, and 118; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (July 1972), tables 141 and 144.

Table 31.-- PLACE OF BIRTH AND LENGTH OF RESIDENCE IN HAWAII,  
BY MILITARY STATUS: 1986

[Excludes persons in institutions or military barracks, in Kalawao, or  
on Niihau. Based on a sample survey of 17,107 persons]

Place of birth and length of residence	All groups	Armed forces	Military dependents	Other civilians
Total .....	1,022,745	37,168	66,210	919,367
PLACE OF BIRTH				
Native born .....	881,296	33,793	55,951	791,551
Hawaii .....	657,347	1,085	10,900	645,362
Mainland U.S. ....	217,803	32,222	43,052	142,528
American Samoa ..	1,388	95	357	937
Other terr. or poss. ...	4,758	391	1,643	2,724
Foreign born .....	133,113	2,997	9,196	120,920
China 1/ .....	13,066	0	61	13,005
Indo-China 2/ .....	6,392	56	158	6,178
Japan .....	19,257	134	955	18,169
Korea .....	9,709	89	1,006	8,614
Philippines .....	66,175	1,469	4,191	60,515
Other foreign .....	18,512	1,250	2,825	14,438
Not reported .....	8,336	377	1,063	6,896
LENGTH OF RESIDENCE IN HAWAII				
Less than 1 year .....	46,144	5,325	14,199	26,621
1 to 4 years .....	175,128	27,356	44,945	102,827
5 to 9 years .....	110,550	2,150	2,399	106,000
10 to 19 years .....	214,071	960	2,465	210,647
20 years or more .....	441,435	1,059	1,181	439,195
Not reported .....	35,418	320	1,022	34,077
Median years .....	16.6	2.9	2.6	19.8

1/ Includes Taiwan.

2/ Cambodia, Laos, or Vietnam.

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

Table 32.-- CITIZENSHIP, BY AGE AND LENGTH OF RESIDENCE IN HAWAII: 1986

[Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Based on a sample survey of 17,107 persons]

Age and length of residence in Hawaii	All categories	U.S. citizens		U.S. nationals <sup>1/</sup>	Aliens	Status not reported
		Native born	Naturalized			
Total .....	1,022,748	895,244	64,789	1,074	47,832	13,809
Age (percent) .....	100.0	100.0	100.0	100.0	100.0	100.0
Under 6 years .....	10.2	11.5	0.2	0.0	1.8	7.5
6 to 16 years .....	18.5	19.8	6.0	16.9	13.1	11.3
17 to 24 years .....	13.7	13.7	9.9	15.4	16.8	18.5
25 to 44 years .....	30.8	30.2	37.2	34.2	35.8	25.5
45 to 64 years .....	18.9	17.8	30.9	31.0	21.9	22.1
65 years and over ...	7.9	7.1	15.7	2.5	10.6	15.0
Median age (years) ..	29.9	28.3	43.2	35.3	35.2	34.9
Years lived in Hawaii: (percent) .....	100.0	100.0	100.0	100.0	100.0	100.0
Less than 1 year ....	5.2	5.1	2.7	2.9	10.7	3.5
1 to 4 years .....	19.4	19.3	13.8	24.1	31.4	9.3
5 to 9 years .....	10.5	9.6	15.0	9.6	20.3	14.3
10 to 19 years .....	20.2	18.7	37.8	37.7	24.9	17.2
20 years or more ....	41.4	44.2	29.2	18.9	12.1	22.1
Not reported .....	3.4	3.2	1.4	6.7	0.5	33.6
Median (years) .....	16.5	17.6	14.7	12.6	6.9	13.5

<sup>1/</sup> From American Samoa.

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

Table 33.-- 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. By race, this grouping included 7,920 Hawaiians, 580 whites, 240 Chinese, and 320 members of other races. For all 9,060, the median age was 44.4 years.

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 34.-- GENERAL POPULATION CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
RESIDENT POPULATION						
Total persons .....	964,691	762,565	92,053	144	39,082	70,847
Percent:						
Change 1970-80 .....	25.3	20.9	45.0	-16.3	31.3	54.1
Under 18 years .....	28.6	28.1	30.6	0	30.5	29.5
18 to 64 years .....	63.5	64.6	59.2	74.3	58.4	60.5
65 years and over .....	7.9	7.3	10.2	25.7	11.1	9.9
Median age .....	28.3	28.0	29.4	58.1	29.8	29.6
Fertility ratio <u>1</u> / .....	307	295	370	0	369	328
15 years and over - Percent now married, including separated:						
Male .....	56.3	55.7	59.2	51.7	59.9	58.2
Female .....	58.3	57.8	60.6	54.4	62.3	59.1
In group quarters:						
Total .....	39,599	36,700	1,617	40	403	839
Percent of total persons	4.1	4.8	1.8	27.8	1.0	1.2
HOUSEHOLDS AND FAMILIES						
Households .....	294,052	230,214	29,237	71	12,020	22,510
Percent change, 1970-80 .	44.8	39.7	69.4	(NA)	45.1	76.1
Persons per household ...	3.15	3.15	3.09	1.46	3.22	3.11
Families .....	226,035	176,916	22,784	30	9,475	16,830
Persons per family .....	3.61	3.62	3.51	2.00	3.62	3.59

1/ Children under 5 years per 1,000 women 15 to 49 years.

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), tables 14 , 21, 47, and 49.



Table 35.-- POPULATION CHARACTERISTICS, BY MILITARY STATUS: 1980

Subject	All groups	Armed Forces	Military dependents <u>1/</u>	Other civilians
Number .....	964,691	58,443	61,974	844,274
Race (percent):				
White .....	34.4	73.7	67.2	29.3
Black .....	1.8	13.3	7.5	0.6
American Indian, Eskimo, Aleut .....	0.3	0.9	0.4	0.3
Asian and Pacific Islander .....	61.2	8.1	20.8	67.9
Other .....	2.2	3.9	4.0	2.0
Spanish origin (percent) .....	7.4	7.1	8.9	7.3
Males per 100 females .....	105.4	1,224.9	48.3	99.3
Median age (years) .....	28.4	24.9	14.3	29.7
Population per household .....	3.14	3.29		3.12
Percent in group quarters .....	4.1	41.1	6.8	1.8
Percent of persons 15 and over married:				
Male .....	55.7	52.6	21.3	56.7
Female .....	57.3	44.4	88.9	55.0
Children ever born per 1,000 women 15-44	1,219	460	1,499	1,201
Place of birth (percent):				
Hawaii .....	57.8	4.2	17.1	64.5
Different State .....	25.8	87.2	64.2	18.7
Foreign country .....	14.2	6.1	12.0	14.9
Residence in 1975 (percent):				
Same house as 1980 .....	49.3	3.6	7.2	55.3
Different State .....	16.9	79.7	65.6	9.2
Abroad .....	5.9	9.7	14.3	5.1
Percent of persons 25 and over high school graduates .....	73.8	95.5	84.6	72.2
Percent of persons 16 and over in labor force .....	68.3	100.0	44.6	66.5
Percent of civilian labor force unemployed .....	4.7	...	12.2	4.5
Percent of employed persons in managerial and professional specialty occupations .....	23.5	...	19.4	23.6
Median income in 1979 (dollars):				
Persons .....	7,325	8,123	3,273	7,532
Families .....	22,648	14,055	...	24,234
Unrelated individuals .....	7,154	6,608	...	7,791

1/ Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the Armed Forces.

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), tables 1 and 2.

Table 36.-- HOUSEHOLD TYPE AND RELATIONSHIP: 1980

Household type and relationship	State total	Oahu	Other islands
Total persons .....	964,691	762,565	202,126
In households .....	925,092	725,865	199,227
Householder .....	294,052	230,214	63,838
Family householder:   Male .....	190,426	148,549	41,877
Female .....	35,609	28,367	7,242
Nonfamily householder: Male .....	37,333	28,632	8,701
Female .....	30,684	24,666	6,018
Spouse .....	185,698	145,333	40,365
Child .....	330,281	260,999	69,282
Brother or sister .....	11,115	8,989	2,126
Parent .....	11,493	9,231	2,262
Other relative .....	50,361	38,890	11,471
Nonrelatives .....	42,092	32,209	9,883
In group quarters .....	39,599	36,700	2,899
Inmate of institution .....	5,785	4,565	1,220
Other .....	33,814	32,135	1,679
Persons 75 years and over living alone .....	5,075	3,560	1,515
Persons per household .....	3.15	3.15	3.12
Persons per family .....	3.61	3.62	3.56
Persons under 18 years .....	275,583	214,563	61,020
Householder or spouse .....	387	295	92
Own child .....	243,671	190,289	53,382
In married-couple family .....	204,455	159,866	44,589
With female householder, no husband present ....	32,392	25,584	6,858
With male householder, no wife present .....	6,824	4,889	1,935
Other relatives .....	25,918	19,832	6,086
Nonrelatives .....	3,985	2,941	1,044
Inmate of institution .....	387	349	38
Other, in group quarters .....	1,235	857	378
Persons 65 years and over .....	76,150	55,368	20,782
Family householder:   Male .....	25,453	17,831	7,622
Female .....	3,959	3,024	935
Spouse .....	13,763	9,755	4,008
Other relatives .....	14,015	10,945	3,070
Nonrelatives .....	1,887	1,396	491
Nonfamily householder: Male .....	4,670	3,046	1,624
Female .....	8,705	6,548	2,157
Inmate of institution .....	2,961	2,116	845
Other, in group quarters .....	737	707	30

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 37.-- HOUSEHOLDS AND HOUSEHOLD SIZE: 1940 TO 1986

[As of April 1, 1940-1980, and July 1 thereafter. For annual estimates, 1971-1979, see Data Book 1985, table 585]

Year	Households	Average size	Year	Households	Average size
1940 ...	86,855	4.46	1982 ...	310,000	(NA)
1950 ...	111,858	4.14	1983 ...	316,000	(NA)
1960 ...	153,064	3.87	1984 ...	323,000	(NA)
1970 ...	203,088	3.59	1985 ...	330,000	(NA)
1980 ...	294,052	3.15	1986 ...	336,000	3.04
1981 ...	304,000	(NA)			

NA Not available.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 33. U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 14; "State Population and Household Estimates, With Age, Sex, and Components of Change: 1981-86" Current Population Reports, Population Estimates and Projections, Series P-25, No. 1010, (September 1987), p. 87.

Table 38.-- FAMILY TYPE BY PRESENCE OF OWN CHILDREN: 1980

Presence of own children	All families	Married couple families	Female householder no husband present
Total .....	226,035	185,698	29,422
With own children under 18 years .....	132,087	101,644	17,410
With own children under 6 years only .....	32,604	27,528	4,131
With own children under 6 and 6 to 17 years	25,070	21,883	2,779
Number of own children under 18 years .....	243,671	204,455	32,392
Number of own children under 6 years .....	79,619	68,656	9,230

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 39.-- HOUSEHOLDS AND FAMILIES: ANNUAL AVERAGES,  
1982-84 AND 1985-87

[Based on pooled samples of 1,772 households (5,443 persons) for 1982-1984 and 1,530 households (4,600 persons) for 1985-1987]

Subject	1982-1984	1985-1987
Number of households .....	321,404	339,556
Persons in households .....	984,814	1,008,436
Per household .....	3.06	2.97
Number of families .....	241,555	257,482
Persons in families .....	861,652	890,821
Per family .....	3.57	3.46

Source: U.S. Bureau of the Census for the U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1982 to 1987; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 40.-- MARITAL STATUS, BY SEX: 1986

[Excludes persons in institutions, military barracks, or Kalawao, or on Niihau. Based on a sample survey of 13,400 persons 14 years old and over]

Marital status	Male	Female
Persons 14 years old and over ....	391,077	396,198
Single, never married .....	135,944	109,010
Married, except separated .....	228,008	234,310
Separated .....	1,980	4,451
Widowed .....	8,426	26,347
Divorced .....	15,093	19,543
Not reported .....	1,626	2,537

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

Table 41.-- MARRIED COUPLES, UNMARRIED COUPLES, AND SUBFAMILIES:  
1960 TO 1980

Subject	1960	1970	1980
Married couples .....	120,192	154,678	198,398
Married couple families <u>1/</u> .....	113,164	147,326	188,933
Married couple subfamilies <u>2/</u> ...	7,028	7,352	9,465
Percent .....	5.8	4.8	4.8
Unmarried couples .....	(NA)	(NA)	9,963
No persons under 15 years .....	(NA)	(NA)	7,529
One or more persons under 15 years .....	(NA)	(NA)	2,434
Subfamilies <u>2/</u> .....	9,151	10,111	13,319
Married couple subfamilies .....	7,028	7,352	9,465
Mother-child subfamilies .....	1,731	2,288	3,132
Other subfamilies .....	392	471	722

NA Not available.

1/ Based on a sample; data may therefore differ somewhat from comparable data in table 37.

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

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

Table 42.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP,  
BY DENOMINATIONS: 1982

Denomination <u>1/</u>	Churches	Clergy	Members
<b>Buddhist:</b>			
Honpa Hongwanji .....	36	40	21,500
Kegonshu Todaiji <u>2/</u> .....	1	2	30,000
Others <u>3/</u> .....	52+	68+	14,030+
<b>Christian:</b>			
Greek Orthodox (Eastern) <u>4/</u> .....	1	1	200
<b>Protestant:</b>			
Assembly of God .....	(NA)	(NA)	7,000
Church of Jesus Christ of Latter-Day Saints	87	( <u>5/</u> )	31,027
Episcopal .....	40	85	10,541
Jehovah's Witnesses .....	59	59	4,730
Lutheran .....	21	25	4,604
Seventh-day Adventists .....	21	29	4,147
Southern Baptist .....	60	65	11,340
United Church of Christ .....	113	129	17,485
United Methodist Church .....	31	44	6,242
Other Protestant <u>6/</u> .....	100+	249+	10,647+
Roman Catholic <u>7/</u> .....	64	168	209,000
Other Christian <u>8/</u> .....	3+	4+	3,255+
Indian or Hindu <u>9/</u> .....	23+	28+	1,880+
Jewish <u>4/</u> , <u>10/</u> .....	1+	2+	442
Muslim .....	1	-	500
<b>New religious movements:</b>			
Tenrikyo .....	72	300	4,500
Others <u>11/</u> .....	20+	28+	7,785+
<b>Shinto:</b>			
Daijingu Temple of Hawaii <u>2/</u> .....	(NA)	(NA)	7,500
Kotohira Jinsha Mission <u>2/</u> .....	(NA)	(NA)	7,500
Others <u>12/</u> .....	(NA)	(NA)	(NA)
Other religious faiths <u>13/</u> .....	31+	(NA)	6,306+

NA Not available.

1/ Shown separately for denominations with 4,000 or more members, and selected other denominations. For a complete listing, see source.

2/ Membership figure refers to number receiving healing, blessing, or special amulet.

3/ 19 denominations, of which 17 reported data.

Continued on next page.

Table 42.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP,  
BY DENOMINATIONS: 1982 -- Con.

- 4/ Membership figure refers to families rather than individuals.  
 5/ Lay leaders.  
 6/ 19 denominations, of which 12 reported number of churches and clergy and 11 reported membership.  
 7/ Membership in 1985 was estimated at 217,000 (Honolulu Advertiser, May 31, 1986, p. A-9).  
 8/ 4 denominations (Christian Science, Religious Science, Society of Friends, and Unity), of which 3 reported data.  
 9/ 9 denominations, of which 8 reported data.  
 10/ 2 denominations, of which 1 reported data.  
 11/ 6 denominations, of which 5 reported data.  
 12/ 3 denominations, of which none reported data.  
 13/ 4 denominations (Baha'i, Scientology, Unification Church, and Unitarian), of which 3 reported data.
- Source: Survey by Department of Religion, University of Hawaii, reported in Geography Department, University of Hawaii, Atlas of Hawaii, Second Edition (1983), p. 133.

Table 43.-- CHURCHES AND CHURCH MEMBERSHIP, BY COUNTIES: 1980

[Data limited to 111 Judaeo-Christian church bodies surveyed nationally.  
See source for county detail for each denomination]

County	Denomi- nations	Churches	Communi- cant, con- firmed members	Total adherents (estimated)		
				All groups	Catholics	Other groups <u>1/</u>
State total	39	558	62,551	320,288	210,000	110,288
Hawaii .....	19	91	5,405	49,442	38,000	11,442
Maui .....	16	76	4,444	20,794	12,430	8,364
Kalawao .....	2	2	92	162	70	92
Honolulu .....	36	338	49,431	232,304	148,000	84,304
Kauai .....	17	51	3,179	17,586	11,500	6,086

1/ Major non-Catholic groups included the Church of Jesus Christ of Latter-Day Saints, 28,002 adherents; United Church of Christ, 20,787; Southern Baptist Convention, 13,336; and the Episcopal Church, 10,077.

Source: Bernard Quinn et al., Churches and Church Membership in the United States 1980 (1982), p. 78.

Table 44.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS AND COUNTIES: 1980 TO 1986

[April 1, 1980 to June 30, 1986. Provisional data. For 1970-1980, see Data Book 1985, table 45]

Military status and county	Net change	Vital events			Net migration <u>1/</u>
		Natural increase	Live births	Deaths	
THE STATE					
State total .....	+97,700	82,100	115,300	33,200	+15,600
Armed forces .....	+1,100	-200	-	200	+1,200
Military dependents .....	+2,200	23,700	24,200	500	-21,500
Other residents .....	+94,400	58,500	91,100	32,500	+35,900
Annual average .....	+15,100	9,400	14,600	5,200	+5,700
Percent distribution .....	100.0	62.0	...	...	38.0
COUNTIES					
City & Co. of Honolulu .....	+54,200	64,200	88,900	24,700	-10,000
Armed forces .....	+1,200	-200	-	200	+1,300
Military dependents .....	+2,200	23,700	24,200	500	-21,500
Other residents .....	+50,800	40,600	64,600	24,000	+10,200
Other counties .....	+43,500	17,900	26,400	8,500	+25,600
Hawaii .....	+19,700	8,000	12,000	4,000	+11,700
Kauai .....	+7,200	3,300	4,900	1,600	+4,000
Maui and Kalawao .....	+16,600	6,700	9,500	2,900	+9,900

1/ Includes net changes in military status.

Source: Hawaii State Department of Business and Economic Development, The Population of Hawaii, 1980-1986 (Statistical Report 201, September 21, 1987), table 11.



Table 45.-- CHARACTERISTICS OF INTENDED RESIDENTS ARRIVING FROM  
THE MAINLAND UNITED STATES: 1986

Military status of family head	Persons per party	Median age (years)	Males per 100 females	From Western States (percent)	Retired party heads (percent)
Total .....	1.69	24.2	115.0	25.9	1.8
Civilian only .....	1.44	28.1	78.4	46.9	7.0

Source: Hawaii State Department of Business and Economic Development, Hawaii's Migrants, 1986 (Statistical Report 203, 1987), tables 11-15.

Table 46.-- IMMIGRANTS ADMITTED, TOTAL AND THROUGH HONOLULU: 1977 TO 1987

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence]

Year	All immigrants admitted <u>1/</u>	Admitted through Honolulu <u>2/</u>	Year	All immigrants admitted <u>1/</u>	Admitted through Honolulu <u>2/</u>
1977 .....	7,825	5,375	1983 .....	7,118	5,238
1978 .....	9,053	5,870	1984 .....	8,981	5,476
1979 .....	8,944	6,882	1985 .....	7,868	5,599
1980 .....	(NA)	5,682	1986 .....	7,814	5,748
1981 .....	(NA)	6,422	1987 .....	(NA)	5,465
1982 .....	8,557	6,890			

NA Not available.

1/ Through any port of entry. Totals include non-immigrant arrivals who changed their status after entry.

2/ Totals exclude persons admitted through ports other Honolulu and also non-immigrant arrivals who changed their status after entry.

Source: All-port admissions from U.S. Immigration and Naturalization Service, records; admissions through Honolulu from INS Honolulu office, monthly tabulations.

Table 47.-- IMMIGRANTS ADMITTED, BY COUNTRIES  
OF BIRTH: 1982 TO 1986

[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	1982	1983	1984	1985	1986
All countries .....	8,557	7,118	8,981	7,868	7,814
Canada .....	84	109	97	130	115
China and Taiwan .....	650	676	825	799	724
Japan .....	(OC)	269	223	286	240
Korea .....	1,007	883	948	988	894
Philippines .....	4,748	4,070	4,662	4,231	4,508
Vietnam .....	597	139	795	280	296
Other countries .....	1,471	972	1,431	1,154	1,037

OC Included with "other countries."

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

Table 48.-- SOUTHEAST ASIAN REFUGEE ARRIVALS:  
1980 TO 1985

Fiscal year	Number	Fiscal year	Number
1980 .....	2,385	1983 .....	333
1981 .....	1,422	1984 .....	291
1982 .....	642	1985 .....	302

Source: Data from U.S. Department of Health and Human Services, Office of Refugee Resettlement, cited in Statistical Abstract of the United States for 1984-1987.

Table 49.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE:  
1980 TO 1985

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	All other
1980 .....	3,473	278	606	1,992	80	517
1981 .....	3,946	317	730	2,014	105	780
1982 .....	2,750	176	520	1,489	66	499
1983 .....	6,668	534	1,032	3,693	301	1,108
1984 .....	6,448	289	787	4,200	192	980
1985 .....	4,291	238	561	2,434	93	965

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

Table 50.-- RESIDENCE ONE YEAR EARLIER, 1981-1984, 1986, AND 1987  
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, 501 households (1,535 persons) for 1986, and 497 households (1,449 persons) for 1987]

Subject	Total population <sup>1/</sup>	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
1986 .....	1,005,362	814,999	142,950	37,078	10,335
1987 .....	1,011,779	818,759	119,583	63,947	9,490
Residence 5 years earlier, 1985 .....	921,236	534,131	252,978	107,359	26,768

<sup>1/</sup> Excludes persons under 1 year old in 1981-1984, 1986 and 1987, 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 1987; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 51.-- IN-MIGRATION, TOTAL AND CIVILIAN, BY ORIGIN: 1976 TO 1986

[Hawaii residents reporting different state or country of residence 1 year prior to survey. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Number, 1 year old and over			Percent <u>1/</u>		
	All in-migrants	From U.S. Mainland	From other countries <u>2/</u>	All in-migrants	From U.S. Mainland	From other countries <u>2/</u>
<b>Total:</b>						
1976 .....	52,001	40,590	11,411	6.5	5.1	1.4
1977 .....	49,931	40,959	8,972	6.0	4.9	1.1
1978 .....	49,768	39,833	9,935	5.9	4.7	1.2
1979 .....	42,690	33,646	9,044	5.0	3.9	1.1
1980 .....	37,312	30,082	7,230	4.1	3.3	0.8
1981 .....	44,529	34,754	9,775	4.9	3.8	1.1
1982 .....	46,342	38,683	7,659	5.0	4.1	0.8
1983 .....	50,303	42,037	8,266	5.3	4.4	0.9
1984 <u>3/</u> ..	48,341	42,533	5,808	5.0	4.4	0.6
1985 <u>5/</u> ..	38,970	31,744	7,226	4.0	3.2	0.7
1986 .....	38,684	31,194	7,491	3.9	3.1	0.8
<b>Civilian: <u>4/</u></b>						
1976 .....	25,420	16,577	8,843	3.7	2.4	1.3
1977 .....	25,343	19,466	5,877	3.4	2.6	0.8
1978 .....	27,344	20,683	6,661	3.6	2.7	0.9
1979 .....	22,191	15,278	6,913	2.8	2.0	0.9
1980 .....	18,471	13,255	5,216	2.3	1.6	0.6
1981 .....	23,756	16,272	7,484	2.9	2.0	0.9
1982 .....	25,460	20,762	4,698	3.0	2.5	0.6
1983 .....	22,908	17,199	5,709	2.7	2.0	0.7
1984 <u>3/</u> ..	23,735	20,050	3,685	2.7	2.3	0.4
1985 <u>5/</u> ..	17,838	12,974	4,864	2.0	1.5	0.5
1986 .....	21,178	15,556	5,622	2.4	1.7	0.6

1/ Base excludes persons under 1 and those not reporting residence one year earlier.

2/ Includes U.S. territories and possessions.

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.

4/ Excludes military dependents.

5/ Revised from Data Book 1986, table 52.

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

Table 52.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1985 AND 1986

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 17,642 persons 1 year old and over in 1985 and 16,862 persons 1 year old and over in 1986]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
1985 <sup>1/</sup>				
Population 1 and over .....	995,306	35,821	60,386	899,099
Same house .....	851,010	22,971	40,781	787,258
Different house, same island ....	88,098	5,092	4,885	78,121
Different island .....	6,399	165	353	5,881
Different state .....	31,744	6,250	12,520	12,974
U.S. territory or possession ....	180	-	-	180
Different country .....	7,046	997	1,365	4,684
Previous residence not reported .	10,830	347	482	10,001
Migrants <sup>2/</sup> .....	38,970	7,247	13,885	17,838
Percent of number reporting ...	4.0	20.4	23.2	2.0
1986				
Population 1 and over .....	1,007,462	37,168	62,785	907,508
Same house .....	865,198	23,849	43,765	797,584
Different house, same island ....	87,607	6,245	6,750	74,612
Different island .....	4,504	239	65	4,200
Different state .....	31,194	5,265	10,372	15,556
U.S. territory or possession ....	802	-	52	750
Different country .....	6,689	629	1,188	4,872
Previous residence not reported .	11,468	940	594	9,934
Migrants <sup>2/</sup> .....	38,684	5,895	11,612	21,178
Percent of number reporting ...	3.9	16.3	18.7	2.4

<sup>1/</sup> Revised from Data Book 1986, table 53.

<sup>2/</sup> From different state, territory, or country.

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

Table 53.-- LIKELIHOOD OF OUT-MIGRATION, TOTAL AND CIVILIAN: 1980 TO 1986

[Based on the response to the question, "How likely is it that this person will be living some place other than Hawaii one year from today?" The sample excluded persons living in institutions or barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Cumulative number			Cumulative percent <u>1/</u>		
	Some possibility <u>2/</u>	Good chance <u>3/</u>	Almost certain	Some possibility <u>2/</u>	Good chance <u>3/</u>	Almost certain
<b>Total:</b>						
1980 .....	55,989	35,521	30,740	6.1	3.9	3.3
1981 .....	55,159	39,431	34,857	5.9	4.2	3.7
1982 .....	56,298	40,169	32,190	5.9	4.2	3.4
1983 .....	55,019	37,697	30,661	5.7	3.9	3.2
1984 <u>4/</u> .....	56,401	44,237	35,995	5.7	4.5	3.6
1985 <u>5/</u> .....	60,929	44,637	38,648	6.1	4.5	3.9
1986 .....	57,509	42,132	37,095	5.7	4.2	3.7
<b>Civilian: <u>6/</u></b>						
1980 .....	32,216	15,375	12,102	3.9	1.9	1.5
1981 .....	26,388	14,265	11,614	3.1	1.7	1.4
1982 .....	31,664	17,467	13,087	3.7	2.0	1.5
1983 .....	29,476	16,876	10,827	3.4	2.0	1.3
1984 <u>4/</u> .....	27,109	16,590	11,911	3.1	1.9	1.3
1985 <u>5/</u> .....	28,527	14,613	12,008	3.2	1.6	1.3
1986 .....	26,588	14,541	11,314	2.9	1.6	1.2

1/ Based on number reporting likelihood.

2/ Reporting either "Some possibility of living elsewhere," "A good chance of living elsewhere," or "Almost certain to be living elsewhere."

3/ Reporting either "A good chance of living elsewhere" or "Almost certain to be living elsewhere."

4/ 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.

5/ Revised from Data Book 1986, table 54.

6/ Excluding members of the armed forces and their dependents.

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

Table 54.-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS: 1985 AND 1986

[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 17,934 persons in 1985 and 17,107 persons in 1986. Excludes persons living in institutions or barracks, in Kalawao, or on Niihau]

Likelihood of out-migration	All groups	Armed forces	Military dependents	Other civilians
1985 <sup>1/</sup>				
Total .....	1,011,882	35,821	64,281	911,780
Almost certain to be living in Hawaii	936,670	23,230	43,539	869,901
Some possibility of living elsewhere	16,292	712	1,666	13,914
A good chance of living elsewhere ...	5,989	1,129	2,255	2,605
Almost certain to be living elsewhere	38,648	10,311	16,329	12,008
Not reported .....	14,283	438	492	13,353
1986				
Total .....	1,022,746	37,169	66,211	919,366
Almost certain to be living in Hawaii	946,243	24,670	44,421	877,152
Some possibility of living elsewhere	20,414	1,699	3,441	15,274
A good chance of living elsewhere ...	5,037	784	1,026	3,227
Almost certain to be living elsewhere	37,095	9,131	16,650	11,314
Not reported .....	13,956	885	672	12,399

<sup>1/</sup> Revised from Data Book 1986, table 55.

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 and accidents, nutrition, substance abuse, height and weight, hospitals, dental care, 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 5,788 resident deaths in 1986, or 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.9 in 1986. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. Resident live births in 1986 numbered 18,253, or 17.2 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,871 in 1980. Fully 98 percent of all babies were born in hospitals in 1986, and 22 percent were born to military couples. One out of five births was to an unmarried woman. There were 7,178 fetal deaths in 1986, including 5,700 elective abortions. Marriages numbered 16,219 in 1986, with about 30 percent accounted for by nonresidents. Divorces reached a 1986 total of 4,674. The State had 23 acute care hospitals (with 2,887 beds), 36 long-term care facilities (with 2,977 beds), and nine specialty care facilities (with 956 beds) in 1987. There were 2,150 physicians and surgeons, 847 dentists, 7,088 professional nurses, and 469 pharmacists licensed and living in Hawaii as of November 1986. Acute conditions per 100 persons numbered 246 in 1985, with respiratory conditions the most common complaint (at 186 cases per 100 persons). Among chronic conditions reported in the 1985 survey data, the most frequently mentioned were hypertension without heart involvement (8.0 per 100 persons), hayfever (6.6), and impairments of the back or spine (5.1). The most common communicable diseases reported to authorities in 1986 were scarlet fever, with 4,892 cases, and gonorrhoea, with 1,619, but the most fatal was AIDS (15 deaths). State mental health facilities served 8,342 patients in 1986, but the number of in-patients at the end of the year was only 252. Dental health was only fair: according to a 1979 survey, 275,000 residents had not visited a dentist within the previous year, and 176,000 reported one or more dental problems, chiefly cavities. Among persons 18 years old and over in 1984, 53 percent used alcohol, eight percent were heavy drinkers, 43 percent used drugs, and three percent were heavy drug users. 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 sources for data on vital statistics and health are the annual statistical reports 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: 1987 contain similar data for the nation as a whole.



Table 55.-- BIRTHS AND DEATHS: 1970 TO 1986

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	18.5	5.0	181.8	13.1	10.5
1982 ...	18,675	5,123	18.7	5.1	186.3	12.7	8.9
1983 ...	19,090	5,409	18.7	5.3	197.8	11.5	10.0
1984 ...	18,667	5,571	18.0	5.4	191.8	10.0	10.9
1985 ...	18,267	5,751	17.4	5.5	201.3	9.7	9.1
1986 ...	18,253	5,788	17.2	5.4	203.9	10.9	9.2

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 DPED, Statistical Reports 172 and 195.

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 records.

Table 56.-- BIRTHS AND BIRTH RATES, BY MILITARY STATUS: 1976 TO 1986

[Place of occurrence basis]

Subject and year	All groups	Civilians			Armed forces and dependents
		All civilians	Military dependents	Other civilians	
<b>Live births:</b>					
1976 .....	16,409	16,409	3,803	12,606	3,803
1977 .....	16,983	16,983	3,771	13,212	3,771
1978 .....	16,762	16,762	3,656	13,106	3,656
1979 .....	17,568	17,568	3,797	13,771	3,797
1980 .....	18,216	18,216	3,750	14,466	3,750
1981 .....	18,230	18,230	3,502	14,728	3,502
1982 .....	18,735	18,735	4,007	14,728	4,007
1983 .....	19,164	19,164	4,093	15,071	4,093
1984 .....	18,756	18,756	3,976	14,780	3,976
1985 .....	18,329	18,329	4,043	14,286	4,043
1986 .....	18,341	18,341	3,952	14,389	3,952
<b>Birth rates: <u>1/</u></b>					
1976 .....	16.9	18.0	56.8	14.9	30.5
1977 .....	17.1	18.1	58.0	15.2	31.0
1978 .....	16.5	17.5	59.8	14.6	30.6
1979 .....	16.8	17.8	58.9	15.0	31.0
1980 .....	17.3	18.3	58.5	15.5	30.7
1981 .....	17.1	18.1	54.5	15.6	29.0
1982 .....	17.2	18.1	60.1	15.2	33.0
1983 .....	17.2	18.1	61.8	15.2	33.7
1984 .....	16.5	17.3	59.3	14.6	32.0
1985 .....	15.9	16.8	62.9	13.9	33.5
1986 .....	15.6	16.4	59.7	13.7	31.8

1/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Reports 172 and 195, as revised.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 57.-- DEATHS AND DEATH RATES, BY MILITARY STATUS: 1976 TO 1986

[Place of occurrence basis]

Subject and year	All groups	Armed forces	Civilians <u>1/</u>			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Deaths:						
1976 .....	4,717	67	4,650	99	4,551	166
1977 .....	4,724	76	4,648	93	4,555	169
1978 .....	4,852	80	4,772	85	4,687	165
1979 .....	5,137	85	5,052	86	4,966	171
1980 .....	5,204	69	5,135	82	5,053	151
1981 .....	5,269	73	5,196	83	5,113	156
1982 .....	5,495	74	5,421	86	5,335	160
1983 .....	5,725	97	5,628	85	5,543	182
1984 .....	5,942	73	5,869	86	5,783	159
1985 .....	6,116	63	6,053	83	5,970	146
1986 .....	6,171	59	6,112	85	6,027	144
Death rates: <u>2/</u>						
1976 .....	4.9	1.2	5.1	1.5	5.4	1.3
1977 .....	4.8	1.3	5.0	1.4	5.2	1.4
1978 .....	4.8	1.4	5.0	1.4	5.2	1.4
1979 .....	4.9	1.5	5.1	1.3	5.4	1.4
1980 .....	4.9	1.2	5.1	1.3	5.4	1.2
1981 .....	4.9	1.3	5.2	1.3	5.4	1.3
1982 .....	5.0	1.3	5.2	1.3	5.5	1.3
1983 .....	5.1	1.8	5.3	1.3	5.6	1.5
1984 .....	5.2	1.3	5.4	1.3	5.7	1.3
1985 .....	5.3	1.1	5.5	1.3	5.8	1.2
1986 .....	5.2	1.0	5.5	1.3	5.7	1.2

1/ Death rates for military dependents based on 1970 and 1980 age and sex composition of military dependents and 1970 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 DPED, Statistical Reports 172 and 195, as revised.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 58.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1970 TO 1986

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions <u>2/</u>
	Number	Rate <u>1/</u>			
1970 <u>3/</u> ...	20,578	26.7	16,361	1,458	2,759
1971 .....	21,476	26.8	15,780	1,575	4,121
1972 .....	21,468	25.9	15,364	1,582	4,522
1973 .....	21,374	25.1	15,328	1,560	4,486
1974 .....	21,071	24.3	15,472	1,572	4,027
1975 .....	21,481	24.2	15,689	1,476	4,316
1976 .....	22,915	25.3	16,292	1,675	4,948
1977 .....	23,502	26.6	16,874	1,578	5,050
1978 .....	23,990	25.8	16,717	1,467	5,806
1979 .....	25,213	26.4	17,513	1,683	6,017
1980 .....	26,241	27.1	18,129	1,716	6,396
1981 .....	26,452	27.0	18,174	1,661	6,617
1982 .....	26,468	26.5	18,675	1,618	6,175
1983 .....	26,709	26.2	19,090	1,627	5,992
1984 .....	25,573	24.7	18,667	1,629	5,277
1985 .....	25,335	24.1	18,267	1,473	5,595
1986 .....	25,312	23.8	18,253	1,412	5,647

1/ Per 1,000 resident population, July 1. From DPED Statistical Reports 172 and 195.

2/ Most legal restrictions on abortion were abolished as of March 11, 1970.

3/ For earlier years, 1952-1969, see Data Book 1986, table 59.

Source: Hawaii State Department of Health, Annual Report, Statistical Supplement, 1970-1986.

Table 59.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE:  
1982 TO 1986

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State <u>1/</u>
<b>Births:</b>						
1982 ...	18,734	18,675	57	2	18,704	29
1983 ...	19,164	19,090	73	1	19,124	34
1984 ...	18,756	18,667	89	-	18,706	39
1985 ...	18,329	18,267	62	-	18,302	35
1986 ...	18,341	18,253	86	2	18,277	24
<b>Deaths:</b>						
1982 ...	5,495	5,123	370	2	5,188	65
1983 ...	5,725	5,409	315	1	5,478	69
1984 ...	5,942	5,571	369	2	5,639	68
1985 ...	6,116	5,751	363	2	5,825	74
1986 ...	6,171	5,788	382	1	5,837	49

1/ Mainland U.S., U.S. territories and possessions, and Canada.  
Source: Hawaii State Department of Health, Statistical Report  
(annual).

Table 60.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

[Military dependents are included in the military category]

Type of rate and military status	1960	1970	1980
Crude birth rate, all groups <u>1/</u> .....	27.2	21.4	18.8
Civilian .....	22.9	19.1	16.5
Military .....	48.8	35.1	35.0
General fertility rate, all groups <u>2/</u> ....	127.8	96.1	78.7
Civilian .....	106.2	84.8	68.9
Military .....	250.5	169.5	147.5
Total fertility rate, all groups <u>3/</u> .....	3,886.5	2,728.5	2,084.0
Civilian .....	3,360.5	2,461.5	1,871.0
Military .....	6,480.5	4,275.0	3,496.0
Gross reproduction rate, all groups <u>4/</u> ...	1,884.0	1,318.0	1,006.5
Civilian .....	1,628.0	1,189.5	903.5
Military .....	3,140.0	2,065.5	1,688.0

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

2/ The annual number of live births per 1,000 women of childbearing age.

3/ The 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.

4/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

Source: Calculations by Eleanor C. Nordyke, Community Population Specialist, East-West Population Institute, based on vital statistics from the Hawaii State Department of Health and special tabulations of decennial census data by military status.

Table 61.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1983 TO 1986

[Excludes births to Hawaii residents occurring out of state]

Subject	1983	1984	1985	1986
Number of resident births .....	19,090	18,667	18,267	18,253
City and County of Honolulu .....	14,712	14,375	14,021	14,074
Percent on Oahu .....	77.1	77.0	76.8	77.1
Hawaii County .....	1,921	1,895	1,873	1,800
Kauai County .....	836	778	778	822
Maui County (incl. Kalawao) .....	1,621	1,619	1,595	1,557
Percent attended by M.D. or O.D. in hospital <u>1/</u>	98.1	98.3	98.0	98.3
Males per 100 females .....	107.4	107.1	108.2	105.7
Median weight of single births (grams) .....	3,292	3,293	3,307	3,306
Percent low birth weight (under 2,500 grams) ...	6.4	7.3	6.6	6.1
Percent single births under 40 weeks gestation .	49.7	51.7	51.3	51.3
Percent plural .....	1.6	1.8	1.8	2.0
Percent with 1 or more congenital malformations .....	1.2	1.1	1.0	1.1
Percent illegitimate .....	19.8	19.2	20.0	20.4
Percent with prenatal visit in first three months .....	73.6	75.4	74.7	76.4
Percent first child born to mother .....	32.3	32.4	31.9	31.6
Percent first child born alive to mother .....	43.1	42.6	41.7	42.5
Median age of mothers (years) .....	25	25	26	26
Median age of known fathers (years) .....	29	29	29	29

1/ Place of occurrence basis.

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

Table 62.-- MEDIAN AND MEAN AGE OF MOTHERS, BY MILITARY STATUS OF FATHERS, FOR RESIDENT BIRTHS OCCURRING IN HAWAII: 1960 TO 1986

Year	Median age (years)			Mean age (years)		
	All births	Military	Civilian	All births	Military	Civilian
1960 <sup>1/</sup> ...	26.0	...	...	26.7	...	...
1970 .....	25.0	24.3	25.4	25.8	25.2	25.9
1980 .....	26.0	24.6	26.4	26.3	25.2	26.6
1984 .....	26.3	24.5	26.9	26.7	25.3	27.1
1986 .....	26.7	24.9	27.3	27.0	25.7	27.4

<sup>1/</sup> Includes nonresident births occurring in Hawaii. Not available by military status.

Source: Calculated by DBED from tabulations by 5-year age periods supplied by Hawaii State Department of Health.

Table 63.-- LIVE BIRTHS OCCURRING IN HAWAII, SINGLE AND PLURAL: 1980 TO 1986

[Individuals, not sets. Excludes stillbirths]

Year	All types	Single births	Twins	Triplets	Quadruplets <sup>1/</sup>	Unknown
1980 ....	18,216	17,920	280	9	4	3
1981 ....	18,230	17,910	312	5	2	1
1982 ....	18,734	18,400	331	3	-	-
1983 ....	19,164	18,866	292	6	-	-
1984 ....	18,756	18,423	333	-	-	-
1985 ....	18,329	18,004	325	-	-	-
1986 ....	18,341	17,974	356	6	4	1

<sup>1/</sup> One set each in 1980, 1981 (only 2 born alive), and 1986. The first recorded quadruplet birth in Hawaii occurred in 1930. No quintuplet or higher-order births have ever been recorded.

Source: Hawaii State Department of Health, records; Honolulu Star-Bulletin, April 16, 1930, p. 3; Honolulu Advertiser, June 16, 1931, p. 7, and March 14, 1980, p. A-1.



Table 64.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1986

[Based on data for 18 specified races]

Military status of father	Total births	Unmixed	Mixed <u>1/</u>			Not certain <u>2/</u>
			Total	Part Haw'n	No Haw'n blood	
All groups ....	18,253	8,281	8,937	5,503	3,434	1,035
Military .....	3,923	3,038	881	189	692	4
Civilian <u>3/</u> .....	14,330	5,243	8,056	5,314	2,742	1,031
PERCENT DISTRIBUTION						
All groups ....	100.0	45.4	49.0	30.1	18.8	5.7
Military .....	100.0	77.4	22.5	4.8	17.6	0.1
Civilian <u>3/</u> .....	100.0	36.6	56.2	37.1	19.1	7.2

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

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

3/ Includes births in which father's military status was not reported.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 65.-- CHILDREN EVER BORN, BY MARITAL STATUS AND AGE OF MOTHERS: 1980

[For earlier years, 1950-1970, see Data Book 1984, table 69]

Subject	15 years and over	15 to 24 years	25 to 34 years	35 to 44 years	45 years and over
All women .....	360,707	87,008	88,168	55,285	130,246
Childless .....	129,611	69,521	32,274	9,411	18,405
Mothers .....	231,096	17,487	55,894	45,874	111,841
Children ever born <sup>1/</sup> ....	684,779	26,273	117,508	137,037	403,961
Per 1,000 women .....	1,898	302	1,333	2,479	3,102
Single (never married) women .	92,704	64,345	17,816	4,273	6,270
Childless .....	85,754	60,483	15,701	3,750	5,820
Mothers .....	6,950	3,862	2,115	523	450
Children ever born <sup>1/</sup> ....	10,142	4,882	3,268	992	1,000
Per 1,000 single women .	109	76	183	232	159
Women ever married .....	268,003	22,663	70,352	51,012	123,976
Childless .....	43,857	9,038	16,573	5,661	12,585
Mothers .....	224,146	13,625	53,779	45,351	111,391
Children ever born <sup>1/</sup> ....	674,637	21,391	114,240	136,045	402,961
Per 1,000 women ever married .....	2,517	944	1,624	2,667	3,250

<sup>1/</sup> Excluding stillbirths.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii (October 1983), table 211.

Table 66.-- MOST COMMON NAMES ON BIRTH CERTIFICATES, BY SEX: 1986

[A total of 5,262 first names, including variant spellings, was reported for the 18,341 babies born in Hawaii in 1986. For leading names in 1909-1914, 1950, and 1983, see Data Book 1984, table 72]

Rank	Boys' names <u>1/</u>		Girls' names <u>2/</u>	
	Name	Number	Name	Number
1 .....	Michael .....	266	Ashley .....	222
2 .....	Christopher .....	224	Jessica .....	143
3 .....	Ryan .....	179	Jennifer .....	135
4 .....	Matthew .....	172	Nicole .....	132
5 .....	Joshua .....	171	Amanda .....	91
6 .....	Brandon .....	156	Michelle .....	87
7 .....	Justin .....	154	Tiffany .....	87
8 .....	David .....	130	Sarah .....	80
9 .....	James .....	127	Stephanie .....	65
10 .....	John .....	110	Christina .....	63

1/ The shortest were B and D (one of each). The longest was Kananiōmaunalokukiekiema.

2/ The shortest was K; the longest, Kauanoekalaniulumahiehi.

Source: Hawaii State Department of Health, Research and Statistics Office, April 29, 1987.

Table 67.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY:  
1978 AND 1987

Rank	1978		1987	
	Name	Columns	Name	Columns
1 .....	Lee .....	18.5	Lee .....	20.67
2 .....	Wong .....	16.0	Wong .....	17.12
3 .....	Young .....	11.0	Young .....	11.33
4 .....	Chang .....	10.5	Chang .....	10.67
5 .....	Smith .....	9.5	Kim .....	10.33
6 .....	Chun .....	9.5	Chun .....	10.0
7 .....	Ching .....	8.75	Smith .....	9.75
8 .....	Kim .....	8.67	Ching .....	8.88
9 .....	Nakamura .....	8.5	Lum (tie) .....	7.5
10 .....	Lum .....	7.5	Johnson (tie).....	7.5

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1978 p. A-11, and January 15, 1987, p. A-3.

Table 68.-- MOST COMMON SURNAMES ON BIRTH AND DEATH  
CERTIFICATES: 1986

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1 .....	Lee .....	106	Lee .....	43
2 .....	Smith .....	84	Wong .....	37
3 .....	Wong .....	75	Chang .....	35
4 .....	Johnson .....	61	Nakamura .....	25
5 .....	Kim .....	53	Young .....	25
6 .....	Young .....	50	Ching .....	24
7 .....	Brown .....	50	Chun .....	24
8 .....	Williams .....	47	Smith .....	22
9 .....	Silva .....	43	Silva .....	22
10 .....	Higa .....	38	Chung .....	18

Source: Hawaii State Department of Health, special tabulation.

Table 69.-- AVERAGE LIFETIME, BY SEX: 1959-61 TO 1984-86

Period	Years			Rank (50 States and D.C.)		
	Both sexes	Male	Female	Both sexes	Male	Female
1959-1961 ....	71.55	69.79	74.01	7	(NA)	(NA)
1969-1971 ....	73.60	71.02	76.79	1	1	3
1979-1981 ....	77.02	74.08	80.33	1	1	1
1984-1986 <u>1/</u> .	77.98	75.37	80.92	(NA)	(NA)	(NA)

NA Not available.

1/ Average lifetime for all States combined in 1985 was 74.7 years for both sexes combined, 71.2 years for males, and 78.2 years for females.

Source: U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, Life Tables: 1959-61, Vol. 2, No. 12, Hawaii State Life Tables: 1959-61 (June 1966), p. 160, and unpublished tabulations; U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, U.S. Decennial Life Tables for 1969-71, Vol. II, No. 12, Hawaii State Life Tables: 1969-71 (June 1975), p. 12-6; and U.S. Department of Health and Human Services, National Center for Health Statistics, U.S. Decennial Life Tables for 1979-81, Vol. II, State Life Tables, No. 12, Hawaii (December 1985), p. 12-3; Robert W. Gardner, East-West Population Institute, Complete Life Tables by Age and Sex for Hawaii, 1984-86 (unpublished, September 11, 1987); U.S. Department of Health and Human Services, National Center for Health Statistics, "Advance Report of Final Mortality Statistics, 1985," Monthly Vital Statistics Report, Vol. 36, No. 5, Supp., August 28, 1987, pp. 2-3.

Table 70.-- SELECTED LIFE TABLE VALUES, BY SEX: 1979-1981

Age in years	Of 100,000 born alive				Average remaining lifetime (years)	
	Number living at beginning of year of age		Number dying during year of age		Male	Female
	Male	Female	Male	Female		
0-1 .....	100,000	100,000	1,121	889	74.08	80.33
1-2 .....	98,879	99,111	93	64	73.92	80.05
5-6 .....	98,607	98,920	38	25	70.11	76.20
10-11 ...	98,467	98,828	17	13	65.21	71.27
15-16 ...	98,303	98,733	81	34	60.31	66.34
20-21 ...	97,755	98,513	137	54	55.64	61.48
25-26 ...	97,054	98,235	131	52	51.02	56.65
30-31 ...	96,430	97,981	132	58	46.34	51.79
35-36 ...	95,720	97,644	155	85	41.66	46.96
40-41 ...	94,857	97,134	218	133	37.02	42.19
45-46 ...	93,529	96,341	327	190	32.50	37.52
50-51 ...	91,508	95,250	582	277	28.16	32.92
55-56 ...	88,125	93,616	759	420	24.14	28.44
60-61 ...	83,935	91,126	1,051	629	20.22	24.15
65-66 ...	77,746	87,417	1,483	930	16.61	20.06
70-71 ...	69,466	81,987	1,962	1,331	13.28	16.21
75-76 ...	58,516	74,108	2,536	2,009	10.28	12.65
80-81 ...	44,728	62,633	3,084	2,725	7.66	9.49
85-86 ...	28,579	47,208	3,168	3,831	5.56	6.73
90-91 ...	13,630	27,228	2,454	3,681	3.99	4.84
95-96 ...	4,201	11,023	1,099	2,405	2.98	3.48
100-101 .	779	2,701	248	761	2.49	2.81
105-106 .	101	448	36	147	2.22	2.44

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, U.S. Decennial Life Tables for 1979-81, Vol. II, State Life Tables, No. 12, Hawaii, DHHS Pub. No. (PHS) 86-1151-12 (December 1985), tables 2 and 3.

Table 71.-- DEATHS OCCURRING IN HAWAII, BY PLACE OF DEATH:  
1968 AND 1986

Year	All deaths	Hospital	Nursing or care home	Other specif. places <u>1/</u>	Home, street, etc.	Unknown
1968 .....	4,275	3,274	152	113	736	-
1986 .....	6,171	4,205	435	165	1,364	2

1/ Clinic, doctor's office, enroute to Hawaii, etc.  
Source: Hawaii State Department of Health, records.

Table 72.-- CHARACTERISTICS OF RESIDENT DEATHS: 1983 TO 1986

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1983	1984	1985	1986
Number of resident deaths .....	5,409	5,571	5,751	5,788
City and County of Honolulu .....	4,070	4,122	4,294	4,248
Hawaii County .....	590	707	715	719
Kauai County .....	284	272	256	313
Maui County (incl. Kalawao) .....	465	470	486	508
Males per 100 females .....	143.1	146.7	146.3	138.0
Median age (years) .....	70.6	71.1	71.9	73.2
Percent married .....	48.4	47.4	47.5	47.0
Deaths under 1 year .....	175	186	159	168
Per 1,000 live births .....	9.2	10.0	8.7	9.2
Fetal deaths <u>1/</u> .....	7,619	6,906	7,068	7,178
Per 1,000 deliveries .....	285	270	279	281
Fetal deaths, 20 or more weeks gestation <u>2/</u>	219	178	177	202
Per 1,000 live births .....	11.4	9.5	9.7	11.0
Standard fetal deaths <u>3/</u> .....	1,627	1,629	1,473	1,478
Elective abortions .....	5,992	5,277	5,595	5,700
Per 1,000 live births .....	313.9	282.7	306.3	312.3

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).

Table 73.-- CAUSE OF DEATH, BY SEX: 1986

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths .....	5,788	3,356	2,432
Tuberculosis .....	6	4	2
Syphilis .....	-	-	-
Other infective .....	68	38	30
Malignant neoplasm .....	1,396	790	606
Digestive organs .....	438	272	166
Respiratory system .....	353	233	120
Breast .....	104	1	103
Genital organs .....	148	83	65
Urinary organs .....	51	31	20
Leukemia .....	39	26	13
Other .....	263	144	119
Diabetes mellitus .....	163	86	77
Heart disease .....	1,890	1,116	774
Rheumatic .....	22	12	10
Hypertensive .....	62	33	29
Ischemic .....	1,135	685	450
Other heart .....	671	386	285
Hypertension .....	21	11	10
Cerebrovascular disease .....	400	204	196
Arteriosclerosis .....	47	26	21
Aneurysm .....	60	41	19
Other circulatory .....	13	6	7
Influenza/pneumonia .....	240	135	105
Bronchitis/emphysema/asthma .....	61	33	28
Peptic ulcer .....	14	12	2
Cirrhosis of liver .....	68	40	28
Nephritis and nephrosis .....	45	24	21
Pregnancy, birth & puerperium .....	1	-	1
Congenital anomalies .....	51	31	20
Perinatal conditions .....	85	51	34
Ill-defined conditions .....	53	24	29
Other diseases .....	690	393	297
Accidents .....	215	150	65
Motor vehicles .....	115	79	36
Other .....	100	71	29
Suicide .....	110	75	35
Homicide & legal intervention .....	47	31	16
Other external causes .....	44	35	9

Source: Hawaii State Department of Health, Research and Statistics Office, records.



Table 74.-- MAJOR CAUSES OF DEATH: 1908-1912 TO 1986

[Annual averages. Excludes armed forces, 1940-1962]

Year	All causes	Major causes <u>1/</u>					
		Tuberculosis	Malignant neoplasms	Diseases of heart	Cerebrovascular disease	Influenza, pneumonia	Gastritis, enteritis, etc. <u>2/</u>
Number:							
1908-12	3,100	365	81	181	70	335	305
1918-22	4,430	499	164	274	165	896	486
1928-32	4,073	400	236	506	233	522	277
1938-42	3,075	263	292	683	248	230	41
1948-52	2,923	108	435	868	258	102	23
1958-62	3,377	22	575	1,111	296	135	15
1970 ..	4,211	14	764	1,386	401	173	...
1980 ..	4,903	15	1,141	1,544	376	178	...
1986 ..	5,788	6	1,396	1,890	400	240	...
Percent:							
1908-12	100.0	11.8	2.6	5.8	2.3	10.8	9.8
1918-22	100.0	11.3	3.7	6.2	3.7	20.2	11.0
1928-32	100.0	9.8	5.8	12.4	5.7	12.8	6.8
1938-42	100.0	8.6	9.5	22.2	8.1	7.5	1.3
1948-52	100.0	3.7	14.9	29.7	8.8	3.5	0.8
1958-62	100.0	0.7	17.0	32.9	8.8	4.0	0.4
1970 ..	100.0	0.3	18.1	32.9	9.5	4.1	...
1980 ..	100.0	0.3	23.3	31.5	7.7	3.6	...
1986 ..	100.0	0.1	24.1	32.7	6.9	4.1	...
Rate: <u>3/</u>							
1908-12	1,601	188	42	93	36	173	158
1918-22	1,663	187	62	103	62	336	182
1928-32	1,105	109	64	137	63	142	75
1938-42	739	63	70	164	60	55	10
1948-52	616	23	92	183	54	21	5
1958-62	582	4	99	192	51	23	3
1970 ..	546	2	99	180	52	22	...
1980 ..	506	2	118	159	39	18	...
1986 ..	545	1	131	178	38	23	...

Continued on next page.

Table 74.-- MAJOR CAUSES OF DEATH: 1908-1912 TO 1986 -- Con.

1/ Includes the three leading causes in each listed year.  
 2/ Gastritis, duodenitis, enteritis, and colitis, except diarrhea of newborn. Not separately reported in 1970 and later years.  
 3/ Per 100,000 resident population, 1908-1939 and 1970-1986; per 100,000 civilian population, 1940-1962. Data for periods before 1970 based on 5-year average populations. Population estimates through 1939 from Robert C. Schmitt, Historical Statistics of Hawaii, p. 10; 1940 and later years from DPED, Statistical Reports 172 and 195. Rates not adjusted for age.  
 Source: Hawaii State Department of Health, "Mortality Trends in Hawaii, 1908-1962," R & S Report, No. 2 (April 1973), and Statistical Report for 1970 (pp. 33-34), 1980 (pp. 23-25), and 1986 (forthcoming).

Table 75.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1981 TO 1986

[For annual data, 1956-1980, see Data Book 1980, table 36, and Data Book 1982, table 41]

Method	1981	1982	1983	1984	1985	1986
All methods .....	5,269	5,495	5,725	5,942	6,116	6,171
Burial .....	2,284	2,324	2,513	2,517	2,610	2,512
Cremation .....	2,342	2,515	2,588	2,808	2,886	3,002
Removal .....	613	613	594	587	586	614
Entombment .....	23	33	25	26	27	41
Educational purpose .....	-	-	-	-	-	-
Other .....	-	-	3	-	-	-
Unknown .....	7	10	2	4	7	2

Source: Hawaii State Department of Health, Statistical Report for 1981-1985, and records.

Table 76.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:  
ANNUAL AVERAGES, 1939 TO 1986

Years	All deaths	Burial	Cremation	Removal	All others <u>1/</u>
ANNUAL AVERAGES					
1939 .....	3,214	(NA)	600	(NA)	(NA)
1940-1955 .....	3,293	(NA)	(NA)	(NA)	(NA)
1956-1962 <u>2/</u> .....	3,326	1,918	1,219	189	
1963-1967 <u>2/</u> .....	3,731	2,070	1,364	279	18
1968-1972 .....	4,299	2,251	1,571	448	29
1973-1977 .....	4,639	2,265	1,803	545	26
1978-1982 <u>3/</u> .....	5,193	2,306	2,255	590	43
1983-1986 .....	5,988	2,538	2,821	595	34
PERCENT DISTRIBUTION					
1939 .....	100.0	(NA)	18.7	(NA)	(NA)
1940-1955 .....	100.0	(NA)	(NA)	(NA)	(NA)
1956-1962 <u>2/</u> .....	100.0	57.7	36.6	5.7	
1963-1967 <u>2/</u> .....	100.0	55.5	36.6	7.5	0.5
1968-1972 .....	100.0	52.4	36.5	10.4	0.7
1973-1977 .....	100.0	48.8	38.9	11.8	0.6
1978-1982 <u>3/</u> .....	100.0	44.4	43.4	11.4	0.8
1983-1986 .....	100.0	42.4	47.1	9.9	0.6

NA Not available.

1/ Entombment, educational purpose, lost at sea, other method, or unknown.

2/ Excludes armed forces.

3/ Cremations overtook burials in 1981.

Source: "Eternal it flows ...," The Sales Builder, March 1940, pp. 3-15 (at p. 14). Hawaii State Department of Health, Statistical Report for 1956-1962, 1964-1967, and 1974-1985; "Vital Statistics and Population of Hawaii, 1900 to 1973," R&S Report, No. 5 (June 1974); and unpublished tabulations.

Table 77.-- CATASTROPHIC MORTALITY: 1977 TO 1987

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents, such as the Chicago airplane crash which killed 273 persons, including 10 residents of Hawaii, on May 25, 1979. Complete through December 27, 1987]

Date	Place	Kind of disaster	Deaths
1977: April 13 1/ ...	At sea off Waikiki .....	Airplane crash .....	5
1978: Dec. 9 (?) .....	At sea off West Hawaii .	Ship disappearance ...	10
1979: Feb. 11 (?) ...	At sea out of Hana .....	Boat disappearance ...	5
Nov. 24 .....	Near Wahiawa, Oahu .....	2-car auto crash .....	5
1980: May 18 .....	Molokai .....	Helicopter crash .....	7
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

1/ For earlier events, see Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. 3, 1969, pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976," unpublished paper filed in DBED Library, 1976.

Source: DBED file of newspaper accounts.

Table 78.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:  
1985 AND 1986

Date	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1985: June 30 .....	1,899	1,565	127	54	153
1986: June 30 .....	2,000	1,631	147	66	156

Source: Hawaii State Department of Social Services and Housing, Services for the Blind Branch, records.

Table 79.-- PERCENT OF ADULT POPULATION AFFECTED BY SPECIFIED HEALTH RISK FACTORS, BY ISLANDS: 1986

[Excludes inmates of institutions, armed forces living on military bases, and all persons less than 18 years old]

Health risk factor	State	Hawaii	Maui	Molokai, Lanai	Oahu	Kauai
Inadequate seatbelt use ...	9.2	11.4	14.7	8.0	7.5	26.0
Current hypertension .....	15.9	21.2	14.7	15.5	15.4	16.0
Sedentary lifestyle .....	48.3	40.7	43.5	40.8	49.7	49.5
Obesity .....	16.8	18.3	15.8	21.5	16.0	28.4
Smoking .....	24.1	32.2	20.7	19.7	23.6	23.0
Smokeless tobacco .....	1.2	0.4	0.7	0.7	1.2	2.5
Acute drinking .....	20.1	20.8	18.6	18.0	20.2	19.5
Chronic drinking .....	9.6	10.4	11.3	10.2	9.2	10.4
Drinking and driving .....	3.3	2.6	4.0	4.3	3.1	7.2

Source: Hawaii State Department of Health, Hawaii Health Messenger, Summer 1987, revised.

Table 80.-- ACUTE CONDITIONS: 1986

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions .....	2,151,954	210.2
Infective parasitic diseases ....	142,326	13.9
Respiratory condition .....	1,510,339	147.5
Digestive system condition .....	47,658	4.6
Injuries .....	189,045	18.5
All other acute conditions .....	262,586	25.6

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

Table 81.-- CHRONIC CONDITIONS: 1986

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition .....	20,065	19.6
Impairment of back or spine .....	52,127	50.9
Hypertension without heart involvement	78,942	77.1
Arthritis/rheumatism .....	31,597	30.8
Hearing impairment .....	34,866	34.0
Asthma with or without hayfever .....	35,311	34.5
Diabetes .....	18,618	18.2
Mental and nervous condition .....	11,669	11.4
Visual impairment .....	11,194	10.9
Malignant neoplasms .....	6,577	6.4
Chronic and allergic skin conditions ..	44,704	43.6
Chronic sinusitis .....	26,363	25.7
Hayfever without asthma .....	58,149	56.8
Stomach ulcer .....	5,978	5.8
Bronchitis/emphysema .....	15,738	12.8
Benign and unspecified neoplasms .....	4,219	4.1
Hemorrhoids .....	11,348	11.1
Thyroid/goiter .....	7,995	7.8
Varicose veins .....	7,097	6.9
Gout .....	13,583	13.3

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

Table 82.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE  
CONDITIONS: 1983 AND 1986

Type of limitation	1983	1986
Persons with one or more chronic conditions .....	336,694	378,440
No limitation of activity .....	282,116	313,730
Limited, but not in major activity .....	24,264	26,073
Limited in amount or kind of activity .....	19,832	18,797
Unable to carry on major activity .....	10,482	10,893
Restricted days in past 12 months <u>1/</u> .....	12,788,125	12,697,600
Per person <u>2/</u> .....	13.0	12.4
Bed days in past 12 months .....	4,114,394	(NA)
Per person <u>2/</u> .....	4.2	(NA)
Work days lost by persons 17 years of age and older in past 12 months .....	1,411,259	(NA)
Per employed person 17 years and older <u>2/</u> .....	3.5	(NA)
School days lost by persons 6 to 16 years of age in past 12 months .....	570,945	(NA)
Per pupil 6 to 16 years of age <u>2/</u> .....	3.3	(NA)

NA Not available.

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 83.-- SPECIFIED COMMUNICABLE DISEASES: 1984 TO 1986

Disease	Cases			Deaths		
	1984	1985	1986	1984	1985	1986
All reportable diseases ..	8,512	11,377	9,765	35	38	32
Acquired Immunodeficiency Syndrome (AIDS) <sup>1/</sup> .....	16	36	58	10	18	15
Chickenpox .....	834	1,494	1,386	-	-	-
Encephalitis .....	5	3	3	-	-	1
Gonorrhea .....	2,664	2,162	1,619	-	-	-
Hansen's Disease .....	105	31	37	5	-	-
Hepatitis, all types .....	130	260	101	6	7	2
Influenza .....	328	1,009	316	-	-	3
Measles (Rubeola) .....	142	31	37	-	-	-
Meningitis, all types .....	147	175	226	3	5	4
Mumps .....	22	19	24	-	-	-
Rubella .....	5	44	8	-	-	-
Salmonellosis .....	380	337	428	-	-	1
Scarlet fever, other strep. ...	2,973	5,036	4,892	-	-	-
Syphilis .....	150	123	56	-	-	-
Tuberculosis .....	218	189	180	11	8	6
All others .....	393	428	394	-	-	-

<sup>1/</sup> The earliest officially recorded case of AIDS in Hawaii was a 52-year old Oriental woman, who was diagnosed in May 1978 and who died in August 1978. The second case was an infant, infected by a blood transfusion on the Mainland in January 1982, who died later that month. The third case was a male homosexual, who was diagnosed in January 1982 and who died in February 1984. The third AIDS death occurred in August 1982. In this table, AIDS deaths are reported by year of diagnosis rather than year of occurrence.

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 103 and 106, and memorandum from Roy G. Ohye, Acting Chief, Epidemiology Branch, dated April 3, 1986.



Table 84.-- ALCOHOL AND DRUG USE, BY AGE AND SEX: 1984

[Based on a sample of persons 18 and over on the four largest islands]

Substance, sex, and age	Sample size	Use (percent of group)				
		None <u>1/</u>	Light	Moder- ate	Moderately heavy	Heavy
<b>ALCOHOL <u>2/</u></b>						
Total .....	2,503	47.3	24.4	12.9	7.3	8.1
Male .....	1,078	32.3	21.8	17.5	11.5	13.9
Female .....	1,412	56.4	26.4	9.4	4.1	3.7
18 to 24 years ....	426	42.7	25.6	15.3	7.5	8.9
25 to 34 years ....	426	37.5	29.2	15.6	7.5	8.9
35 to 44 years ....	479	44.5	28.6	13.8	6.1	7.1
45 to 54 years ....	326	51.5	24.2	9.2	6.8	8.3
55 to 64 years ....	367	55.3	19.1	10.9	7.1	7.6
65 to 74 years ....	226	61.5	13.7	11.5	7.5	5.8
75 years and over .	82	67.1	14.6	3.7	6.1	8.5
<b>DRUGS <u>3/</u></b>						
Total .....	2,503	57.0	6.5	30.8	2.6	3.1
Male .....	1,073	55.7	8.1	29.9	2.7	3.5
Female .....	1,411	57.8	5.2	31.7	2.5	2.8
18 to 24 years ....	424	41.7	12.5	38.0	3.5	4.3
25 to 34 years ....	594	44.4	10.9	35.0	5.1	4.6
35 to 44 years ....	479	57.0	6.3	32.6	1.5	2.7
45 to 54 years ....	326	66.3	2.2	28.2	0.9	2.5
55 to 64 years ....	367	73.0	1.6	21.0	1.9	2.5
65 to 74 years ....	225	76.4	0	21.3	1.3	0.9
75 years and over .	82	63.4	0	34.2	1.2	1.2

1/ For alcohol use, includes both non-drinkers and infrequent drinkers.

2/ Based on total ethanol consumption.

3/ Based on frequency of use, weighted by degree of danger to users, for marijuana/hashish, tranquilizers, barbituates, inhalants, LSD, PCP, cocaine, amphetamines, heroin, and morphine/codeine/percodan/demoral.

Source: Jonathan S. Raymond, Sharon Murakami, and Frank Ahern, Toward an Epidemiology of Mental Health and Alcohol and Drug Use in Hawaii (September 1985), tables 7 and 11.

Table 85.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,  
BY TYPE OF FACILITY: 1980 TO 1987

Category and year	Hospitals				Care homes	
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Residential <u>2/</u>	Family <u>3/</u>
Number of facilities:						
1980 .....	49	25	33	8	15	281
1981 .....	49	25	34	9	14	278
1982 .....	49	25	34	9	15	280
1983 .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1984 .....	48	24	32	10	16	272
1985 .....	47	23	32	10	(NA)	(NA)
1986 .....	48	23	33	9	(NA)	(NA)
1987 .....	51	23	36	9	17	633
Number of beds:						
1980 .....	6,416	2,886	2,656	874	490	1,042
1981 .....	6,488	2,925	2,670	893	500	1,055
1982 .....	6,424	2,875	2,668	881	516	1,098
1983 .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1984 .....	6,512	2,896	2,648	967	549	1,082
1985 .....	6,504	2,894	2,650	960	(NA)	(NA)
1986 .....	6,595	2,870	2,769	956	(NA)	(NA)
1987 .....	6,820	2,887	2,977	956	540	2,547

NA Not available.

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

2/ Five or more beds. Since 1987, category changed to Type II care homes consisting of more than five beds.

3/ Four or fewer beds. Since 1987, Type I care homes consisting of five beds or less.

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

Table 86.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE  
CIVILIAN HOSPITALS: 1980 TO 1986

[Excludes Tripler Army Medical Center]

Type of facility and year	Beds <u>1/</u>	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:					
1980 .....	2,359	117,404	2,047	6.4	70.9
1981 .....	2,366	99,247	1,675	6.2	71.0
1982 .....	(NA)	(NA)	(NA)	(NA)	(NA)
1983 .....	2,387	102,331	1,654	5.9	69.3
1984 .....	2,385	96,530	1,558	5.9	65.3
1985 .....	2,361	84,473	1,566	6.8	66.3
1986 <u>2/</u> .....	2,378	91,704	1,586	6.3	66.7
Long-term care:					
1980 .....	2,670	2,653	2,391	328.9	90.0
1981 .....	2,668	2,478	2,487	366.4	93.2
1982 .....	(NA)	(NA)	(NA)	(NA)	(NA)
1983 .....	2,648	2,574	2,519	357.3	95.2
1984 .....	2,650	2,606	2,552	357	96.3
1985 .....	2,769	2,575	2,590	367	93.5
1986 <u>2/</u> .....	2,977	2,901	2,602	327	87.4

NA Not available.

1/ Civilian bed count of succeeding year.

2/ Excludes statistics for Lanai.

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

Table 87.-- NUMBER AND BED CAPACITY OF HOSPITALS,  
BY TYPE OF FACILITY, BY ISLANDS: 1987

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

Category and island	Hospitals				Care homes	
	Total <u>1/</u>	Acute care <u>2/</u>	Long-term care	Specialty care	Type II <u>3/</u>	Type I <u>4/</u>
NUMBER OF FACILITIES						
State total ..	51	23	36	9	17	633
Oahu .....	33	10	21	7	11	496
Hawaii .....	6	5	6	-	1	63
Kauai .....	5	3	5	-	4	44
Maui .....	4	3	2	1	-	18
Molokai .....	2	1	1	1	1	12
Lanai .....	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	6,820	2,887	2,977	956	540	2,547
Oahu .....	5,253	2,344	1,985	924	406	2,040
Hawaii .....	672	251	421	-	13	246
Kauai .....	328	117	211	-	107	143
Maui .....	499	153	338	8	-	69
Molokai .....	54	16	14	24	14	49
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 509 (plus 52 nursery beds).

3/ More than five beds.

4/ Five beds or less.

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 81 and 82.

Table 88.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE  
CIVILIAN HOSPITALS, BY ISLANDS: 1986

[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 .....	91,704	1,586	6.3	66.7
Oahu .....	67,499	1,295	6.8	67.3
Hawaii .....	11,006	135	4.5	53.8
Kauai .....	5,204	52	3.6	44.4
Maui .....	7,626	100	3.5	65.4
Molokai .....	369	4	3.5	25.0
Lanai .....	(NA)	(NA)	(NA)	(NA)
LONG-TERM CARE				
State total .....	2,901	2,602	327	87.4
Oahu .....	1,526	1,753	419	90.5
Hawaii .....	468	379	296	93.8
Kauai .....	233	127	101	83.0
Maui .....	289	330	418	97.6
Molokai .....	48	13	95	89.3
Lanai .....	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: Data by islands from Hawaii State Department of Health, Statistical Report 1986, pp. 82-85; state totals estimated by Hawaii State Department of Business and Economic Development.

Table 89.-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES:  
1979 TO 1986

Year	Average length of stay (days)	Average cost to hospital		Hospital semiprivate room charges <sup>1/</sup> (dollars)
		Per in-patient day (dollars)	Per admission (dollars)	
1979 .....	7.5	263.70	1,978	114.34
1980 .....	7.5	245.80	1,844	126.98
1981 .....	7.9	276.80	2,187	141.09
1982 .....	8.3	307.30	2,551	176.24
1983 .....	8.2	357.87	2,964	215.84
1984 .....	8.3	383.05	3,186	224.31
1985 .....	(NA)	(NA)	(NA)	230.82
1986 .....	(NA)	(NA)	(NA)	252.89

NA Not available.

<sup>1/</sup> 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 90.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:  
1981 TO 1986

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1981 .....	6,642	408	6,213	4,947	4,474	5,062	10,689
1982 .....	6,287	336	5,951	4,885	4,163	5,155	10,312
1983 .....	6,022	303	5,719	4,761	4,112	5,030	9,970
1984 <sup>1/</sup> ...	5,692	337	5,355	4,307	3,845	4,887	9,724
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

<sup>1/</sup> Year ended June 30.

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

Table 91.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:  
1983 TO 1987

Year	Number of beds, June 30	Admissions <u>1/</u>		Patients in hospital <u>2/</u>	
		Total	First	Average <u>1/</u>	June 30
1983 ....	220	1,070	445	239	243
1984 ....	220	744	276	221	240
1985 ....	220	647	514	220	224
1986 <u>3/</u> .	240	738	611	263	272
1987 <u>3/</u> .	240	776	614	254	223

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

3/ Includes children's unit at Leahi Hospital assigned to the Hawaii State Hospital effective July 1, 1985.

Source: Hawaii State Hospital, records.

Table 92.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1983 TO 1987

[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	
1983 ....	426	10	365	375	614
1984 ....	410	2	356	364	603
1985 ....	410	2	354	360	586
1986 ....	410	-	331	333	593
1987 ....	285	-	266	260	575

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

2/ Year ended June 30.

Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records; and Community Services for the Developmentally Disabled Branch, records.

Table 93.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1982 TO 1986

Subject	1982	1983	1984	1985	1986
Patients on register, Dec. 31 ..	550	578	661	651	653
Medically released .....	550	578	661	651	653
At home .....	432	462	555	545	549
Kalaupapa .....	112	110	101	101	99
Hale Mohalu or Leahi .....	6	6	5	5	5
Net annual change .....	44	28	83	-10	2
New cases added .....	49	41	43	31	37
Cases returned to register ...	11	5	58	4	6
Deaths .....	4	6	15	10	4
Left the State .....	12	12	5	39	6
Discharged .....	-	-	-	-	26
Registry correction (net) ....	-	-	+2	+4	-5

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 108-109.

Table 94.-- SELECTED HEALTH SERVICES (SIC 801-803): 1982

[Includes only establishments with payroll]

Service	Estab- lish- ments	Receipts (\$1,000)	Annual payroll 1/ (\$1,000)	Paid em- ployees, 1/ mid- March
Offices of physicians .....	889	229,507	97,872	3,830
Offices of osteopathic physicians	13	1,533	626	31
Offices of dentists .....	488	99,175	36,856	2,420
With in-house laboratories .....	75	16,808	(NA)	(NA)
Medical and dental laboratories ..	58	18,838	8,055	497
Medical laboratories .....	21	12,685	5,227	313
Dental laboratories .....	37	6,153	2,828	184

NA Not available.

1/ For data by occupation, see source.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 25-29.



Table 95.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979]

Subject	All ages <sup>1/</sup>	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Population surveyed .....	867,755	293,667	300,852	175,113	92,666
Months since last visit:					
Less than 6 .....	312,781	111,515	113,509	63,300	22,983
6 to 12 .....	138,438	52,918	52,923	20,147	12,127
Less than 12, unspecified ...	114,922	42,132	32,545	28,031	10,119
Over 12 .....	219,379	34,942	84,555	56,284	42,578
Never .....	55,394	47,244	3,653	2,290	2,118
Unknown .....	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: <sup>2/</sup>					
Checkup .....	23,601	12,394	6,124	4,272	811
X-ray .....	344,731	119,090	133,835	65,831	22,428
Cleaning teeth .....	434,384	160,282	158,072	83,836	28,742
Fillings .....	291,238	105,669	114,037	49,970	21,217
Fluoride treatment .....	155,870	97,968	47,498	8,220	2,183
Extractions .....	66,266	24,683	25,831	10,512	5,161
Root canal treatment .....	27,081	3,033	12,894	6,633	4,175
Dentures and/or bridges .....	35,048	376	7,629	14,641	12,323
Crowns and capping .....	53,243	8,701	22,939	14,214	7,376
Straightening teeth .....	16,192	11,913	3,130	1,148	-
Treating gum and/or bone .....	13,016	867	3,918	5,243	2,987
Other .....	8,128	4,224	1,796	699	1,409
Unknown .....	17,642	7,135	4,917	4,189	1,056
Dental problems: <sup>2/</sup>					
Cavities .....	85,192	19,904	44,345	14,491	6,451
Toothache .....	11,132	1,683	4,666	2,808	1,974
Wisdom tooth .....	22,066	6,109	13,928	1,513	516
Dentures .....	32,651	1,547	2,644	12,399	16,061
Crooked teeth or bad bite ...	33,595	20,436	9,049	2,726	1,384
Disease of gum and/or bone ..	8,861	452	2,555	4,789	1,040
Other .....	18,324	5,903	6,918	3,081	2,422
None .....	636,968	220,371	213,235	135,848	62,908
Unknown .....	54,917	24,001	18,857	6,063	5,171

<sup>1/</sup> Includes 5,456 persons not reporting age.

<sup>2/</sup> Some respondents reported two or more categories.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 96.-- POPULATION USING FLUORIDATED WATER: 1964 TO 1980

Subject	1964	1972	1980
Persons using fluoridated water <u>1/</u> .....	87,000	104,500	61,000
Percent of total population .....	12.2	12.8	6.3
Rank (50 States, D.C., and P.R.) ...	41	48	50

1/ Covers both natural and controlled fluoridation.

Source: Statistical Abstract of the United States for 1965 (p. 174) and 1975 (p. 180); Hawaii Health Messenger, Spring 1987, p. 3.

Table 97.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: NOVEMBER 19, 1986

Place of address	Physicians and surgeons <u>1/</u>	Dentists	Registered nurses	Pharmacists
Total licensed	3,597	1,103	9,368	764
Hawaii addresses ...	2,150	847	7,088	469
Hawaii .....	170	74	572	37
Maui .....	147	50	531	35
Lanai .....	3	-	8	1
Molokai .....	8	4	33	2
Oahu .....	1,740	694	5,671	375
Kauai .....	82	25	273	19
Niihau .....	-	-	-	-
Out of State .....	1,447	256	2,280	295

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, data provided February 13, 1987.

Table 98.-- MARRIAGES AND DIVORCES: 1970 TO 1986

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments <u>2/</u>	Rates per 1,000 resident population <u>3/</u>		Percent of marriages	
	Total	Resident <u>1/</u>		Resident marriages	Divorces, annulments <u>2/</u>	Nonresident <u>4/</u>	Inter-racial
1970 ...	10,599	7,889	2,589	10.2	3.4	25.6	33.7
1971 ...	9,734	8,104	3,691	10.1	4.6	16.7	38.7
1972 ...	9,750	8,482	3,891	10.2	4.7	13.0	38.6
1973 ...	9,776	8,656	4,170	10.2	4.9	11.5	40.6
1974 ...	9,649	8,500	4,111	9.8	4.7	11.9	40.1
1975 ...	9,673	8,440	4,265	9.5	4.8	12.7	39.6
1976 ...	9,769	8,318	4,712	9.2	5.2	14.9	38.8
1977 ...	10,266	8,427	4,601	9.2	5.0	17.9	37.5
1978 ...	10,736	8,650	4,837	9.3	5.2	19.4	37.9
1979 ...	11,678	9,424	5,055	9.9	5.3	19.3	38.2
1980 ...	11,856	9,442	4,438	9.7	4.6	20.4	37.6
1981 ...	12,218	9,445	4,253	9.6	4.3	22.7	36.1
1982 ...	13,483	10,053	4,233	10.1	4.2	25.4	35.7
1983 ...	14,062	10,216	4,583	10.0	4.5	27.3	35.5
1984 ...	14,982	10,020	4,769	9.7	4.6	33.3	33.4
1985 ...	15,421	9,893	4,887	9.4	4.6	35.8	33.6
1986 ...	16,219	9,571	4,674	9.0	4.4	30.4	30.7

1/ One or both partners residents of Hawaii.

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

3/ Based on estimates in DPED, Statistical Reports 172 and 195.

4/ Both partners nonresidents of Hawaii.

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

Table 99.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1983 TO 1986

[Place of occurrence basis]

Subject	1983	1984	1985	1986
MARRIAGES				
Number .....	14,062	14,982	15,421	16,219
Percent on Oahu .....	69.8	66.8	64.5	62.0
Percent Hawaii residents:				
Both bride and groom .....	67.5	61.7	59.4	54.6
One partner only .....	5.2	5.2	4.7	4.4
Neither bride nor groom .....	27.3	33.1	35.8	41.0
Median age (years):				
Groom .....	29.0	29.7	29.9	30.6
Bride .....	26.8	27.5	27.8	28.1
Percent previously married:				
Groom .....	36.6	38.3	39.3	40.4
Bride .....	36.8	38.8	39.1	39.6
DIVORCES AND ANNULMENTS				
Number .....	4,583	4,769	4,887	4,674
Divorces .....	4,573	4,758	4,875	4,652
Annulments .....	10	11	12	19
Not reported .....	-	-	-	3
Percent occurring on Oahu .....	76.1	79.2	77.2	76.2
Residence:				
Both residents of Hawaii .....	76.1	74.2	75.3	74.4
Only husband nonresident .....	12.2	13.0	12.3	12.9
Only wife nonresident .....	11.8	12.8	12.4	12.5
Both nonresidents .....	-	-	-	0.1
Median age (years):				
Husband .....	33.4	33.9	34.3	34.3
Wife .....	30.8	31.3	32.0	32.1
Percent interracial <sup>1/</sup> .....	39.9	41.1	39.0	38.2
Percent with children under 18 years ....	54.4	54.0	55.6	53.2
Median years married .....	5.4	6.1	6.3	6.4

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).

Table 100.-- RESIDENT MARRIAGES, TOTAL AND INTERRACIAL, BY OCCUPATION OF BRIDE AND GROOM: 1986

[For earlier years, see Data Book 1976, table 41]

Occupation	By occupation of groom			By occupation of bride		
	All marriages	Mixed marriages		All marriages	Mixed marriages	
		Number	Percent		Number	Percent
Total .....	9,570	4,447	46.5	9,570	4,447	46.5
No occupation .....	702	342	48.7	2,802	1,402	50.0
Prof., technical ...	1,221	551	45.1	1,179	502	42.6
Farm, mgr., official	1,080	524	48.5	603	311	51.6
Clerical .....	434	225	51.8	2,319	1,129	48.7
Sales .....	431	185	42.9	621	315	50.7
Craft, foremen .....	1,389	713	51.3	94	41	43.6
Operatives .....	585	304	52.0	115	52	45.2
Priv. household ....	1,135	579	51.0	1,122	555	49.5
Farm laborers .....	16	8	50.0	7	2	28.6
Labor, exc. farm ...	372	156	41.9	32	15	46.9
Armed forces .....	2,194	855	39.0	669	119	17.8
Unknown .....	11	5	45.5	7	4	57.1

Source: Hawaii State Department of Health, records.

Table 101.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT,  
BY RACE MIXTURE AND TYPE OF CEREMONY: 1986

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	
		At least one partner Hawaii resident	Both partners nonresidents
All marriages .....	16,219	9,570	6,649
Race of bride and groom:			
Both partners same .....	11,126	5,123	6,003
Different .....	5,093	4,447	646
Percent different .....	31.4	46.5	9.7
Type of ceremony:			
Civil .....	4,990	3,875	1,115
Religious .....	11,228	5,694	5,534
Unknown .....	1	1	-
Percent civil .....	30.8	40.5	16.8

Source: Hawaii State Department of Health, Research and Statistics Office, special tabulations.

Table 102.-- PERSONAL HEALTH CARE EXPENDITURES: 1966 AND 1982

Type of expenditure	Total (million dollars)		Per capita (dollars)	
	1966	1982	1966	1982
All expenditures .....	147.9	1,224.4	208	1,228
Hospital care .....	56.4	477.6	79	479
Physicians' services .....	33.3	374.5	47	376
Dentists' services .....	14.2	133.0	20	133
Other professional services ..	3.1	20.8	4	21
Drugs and medical sundries ...	19.2	92.9	27	93
Eyeglasses and appliances ....	4.1	22.6	6	23
Nursing home care .....	4.2	62.8	6	63
Other health services .....	13.6	40.1	19	40

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Health Care Financing Review, Summer 1985, pp. 19, 21, 37, and 45.

Table 103.-- HEIGHT DISTRIBUTION, BY SEX, AND AVERAGE WEIGHT, BY HEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 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]

Height (inches)	Cumulative percent		Average weight (pounds)	
	Male	Female	Male	Female
Total .....	100.0	100.0	159.5	127.9
Under 54 .....	0.1	0.7	(B)	111.0
54 .....	0.1	0.8	(B)	106.0
55 .....	0.1	1.0	(B)	112.9
56 .....	0.2	1.7	(B)	107.3
57 .....	0.3	2.7	(B)	107.8
58 .....	0.4	5.2	122.7	107.9
59 .....	0.7	11.4	124.2	113.6
60 .....	2.1	24.4	126.7	116.3
61 .....	3.5	34.9	131.7	121.3
62 .....	7.3	51.2	133.6	124.6
63 .....	12.1	63.3	136.1	128.7
64 .....	19.8	74.7	140.8	133.9
65 .....	27.8	82.8	145.1	138.5
66 .....	39.3	89.9	150.0	140.3
67 .....	51.2	94.6	155.8	144.4
68 .....	61.8	97.4	161.6	148.5
69 .....	70.7	98.6	168.4	156.5
70 .....	78.4	99.3	170.7	153.2
71 .....	85.7	99.7	177.7	156.8
72 .....	92.7	99.9	182.4	167.4
73 .....	95.7	99.9	188.7	(B)
74 .....	98.1	100.0	193.9	(B)
75 .....	99.0	100.0	198.9	(B)
76 .....	99.6	100.0	201.8	(B)
77 .....	99.8	100.0	205.9	(B)
78 .....	99.9	100.0	210.8	(B)
79 and over .....	100.0	100.0	192.2	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

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

Table 104.-- WEIGHT DISTRIBUTION, BY SEX, AND AVERAGE HEIGHT, BY WEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 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]

Weight (pounds)	Cumulative percent		Average height (inches)	
	Male	Female	Male	Female
Total .....	100.0	100.0	67.5	62.6
Under 75 .....	0.0	0.1	(B)	57.8
75 to 99 .....	0.4	7.8	61.4	59.7
100 to 124 .....	7.7	51.2	63.5	61.9
125 to 149 .....	38.3	82.5	65.7	63.4
150 to 174 .....	71.7	93.3	68.0	64.2
175 to 199 .....	90.0	97.7	69.8	64.7
200 to 224 .....	96.8	99.1	70.7	65.0
225 to 249 .....	98.7	99.6	70.9	65.0
250 to 274 .....	99.5	99.9	70.6	65.5
275 to 299 .....	99.8	100.0	71.0	63.9
300 to 324 .....	99.9	100.0	72.1	(B)
325 to 349 .....	99.9	100.0	(B)	(B)
350 and over .....	100.0	100.0	(B)	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

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



Table 105.-- DAILY FOOD INTAKE OF INDIVIDUALS: WINTER 1978

Food	Average daily intake (grams)	Percent using in a day
Meats, poultry, fish .....	244	94.7
Milk, milk products (calcium equivalent) .....	273	69.8
Eggs .....	28	32.2
Legumes, nuts, seeds .....	38	25.8
Grain products .....	281	96.9
Bread, rolls, biscuits .....	49	70.4
Rice .....	116	58.7
Fats, oils .....	13	62.9
Vegetables .....	160	86.4
Nonalcoholic beverages .....	491	77.1
Alcoholic beverages .....	79	12.2
Fruits .....	169	58.5
Sugar, sweets .....	18	53.8

Source: U.S. Department of Agriculture, Science and Education Administration, Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 33-42.

Table 106.-- NUTRITIVE VALUE OF FOOD: WINTER 1978

Nutrient	Average intake per individual in a day		Percent of recommended dietary allowances in a day	Percent of households meeting recommended allowances
	Unit	Amount		
Food energy .....	Kcal	1,751	81	77
Protein .....	G	73.8	163	98
Fat .....	G	75.8	...	...
Carbohydrate .....	G	188.2	...	...
Calcium .....	Mg	625	73	50
Iron .....	Mg	12.6	103	88
Magnesium .....	Mg	236	79	70
Phosphorus .....	Mg	1,068	127	96
Vitamin A value ....	IU	5,429	122	83
Thiamin .....	Mg	1.23	110	88
Riboflavin .....	Mg	1.50	116	87
Preformed niacin ...	Mg	18.3	124	...
Vitamin B <sub>6</sub> .....	Mg	1.44	75	68
Vitamin B <sub>12</sub> .....	Mcg	5.11	139	84
Vitamin C .....	Mg	96	166	96

Source: U.S. Department of Agriculture, Science and Education Administration, Food Consumption and Dietary Levels of Households in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 4, April 1981), p. 19, and Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 58 and 60.

## 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 1986-1987 totaled 201,000, slightly more than in the preceding year but well below the all-time high of 216,000 reached in 1971-1972. There were 232 public schools with 8,244 classroom teachers and 165,000 students (81.8 percent of the total). There were also 145 private schools with 2,544 teachers and over 36,000 pupils. Students graduating from public and private high schools in 1985-1986 numbered 12,468. Some 52,000 students attended colleges and universities in the State in 1986-1987, including 19,000 on the Manoa Campus of the University of Hawaii, 500 at West Oahu College, 3,300 at UH-Hilo, 20,000 at six community colleges, and 9,000 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 \$1,718 in 1976-1977 to \$3,748 in 1986-1987. 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 15 percent were illiterate in English as of 1980. More than one-fifth 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 in all four counties, had 2.1 million books, and 2.8 million microforms, film reels, phonorecords, and other collections in 1986, with an annual circulation of 6.5 million. The University of Hawaii libraries in the same year counted 2.5 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: 1987 presents comparable information for the nation as a whole.

Table 107.-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES,  
FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1976-1977 TO 1986-1987

School year	Schools <u>1/</u>			Teachers <u>1/</u>		
	Total	Public	Private	Total	Public <u>2/</u>	Private <u>3/</u>
1976-77 ...	353	227	126	10,115	8,008	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,125	8,066	2,059
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
School year	Enrollment or membership <u>1/</u>			High school graduates		
	Total	Public <u>4/</u>	Private <u>5/</u>	Total	Public	Private
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	14,013	11,493	2,520
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	(NA)	(NA)	(NA)

NA Not available.

1/ September data for all years.

2/ Special schools excluded through 1978-1979 but included beginning 1979-1980.

3/ Includes special schools for all years.

4/ Includes special schools; excludes pre-kindergarten prior to 1980-1981.

5/ Includes special schools and pre-kindergarten for all years.

Source: Hawaii State Department of Education, records.

Table 108.-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 12, 1986, AND HIGH SCHOOL GRADUATES, 1985-1986, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

[Data include special schools other than University Laboratory Schools]

Island	Number of schools, September 11, 1986			Number of teachers, September 11, 1986		
	Total	Public	Private	Total	Public	Private
State total ....	377	232	145	10,788	8,244	2,544
Hawaii .....	46	31	15	1,272	1,087	185
Maui .....	33	20	13	789	654	135
Lanai .....	1	1	-	28	28	-
Molokai .....	7	5	2	92	87	5
Oahu .....	270	162	108	8,103	5,946	2,157
Kauai .....	19	12	7	501	439	62
Niihau .....	1	1	-	3	3	-
Island	Enrollment, September 11, 1986			High school graduates, 1985-1986 school year		
	Total	Public	Private	Total	Public	Private
State total ....	201,188	164,640	36,548	12,468	9,958	2,510
Hawaii .....	24,016	21,816	2,200	1,398	1,269	129
Maui .....	15,372	13,422	1,950	938	803	135
Lanai .....	452	452	-	29	29	-
Molokai .....	1,635	1,608	27	96	96	-
Oahu .....	150,263	118,657	31,606	9,483	7,238	2,245
Kauai .....	9,429	8,664	765	524	523	1
Niihau .....	21	21	-	-	-	-

Source: Hawaii State Department of Education, January 8, 1987.

Table 109.-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES:  
1981 TO 1986

[September data. Excludes the University Laboratory Schools]

Grade	1981	1982	1983	1984
All grades .....	200,844	200,129	200,240	200,869
Nursery .....	3,192	3,543	3,354	2,767
Kindergarten .....	14,874	15,400	15,390	15,980
1 .....	14,482	15,011	15,567	15,731
2 .....	14,067	14,148	14,726	15,305
3 .....	13,919	13,896	13,917	14,553
4 .....	13,894	13,695	13,790	13,783
5 .....	14,550	13,738	13,493	13,598
6 .....	14,864	14,365	13,463	13,437
7 .....	14,648	15,020	14,525	13,693
8 .....	13,647	14,462	14,950	14,551
9 .....	14,725	14,758	15,265	15,945
10 .....	15,378	14,746	14,487	15,049
11 .....	14,609	14,168	13,844	13,731
12 .....	14,104	12,942	12,899	12,465
Specials <u>1/</u> .....	9,891	10,237	10,570	10,281
			1986	
Grade	1985	Total	Public	Private
All grades .....	200,952	201,188	164,640	36,548
Nursery .....	2,774	2,796	304	2,492
Kindergarten .....	16,362	16,557	13,642	2,915
1 .....	16,020	16,538	13,779	2,759
2 .....	15,135	15,672	13,092	2,580
3 .....	14,826	14,778	12,355	2,423
4 .....	14,203	14,434	12,146	2,288
5 .....	13,372	13,980	11,744	2,236
6 .....	13,328	13,156	10,994	2,162
7 .....	13,488	13,313	10,665	2,648
8 .....	13,530	13,287	10,611	2,676
9 .....	15,496	14,647	11,883	2,764
10 .....	15,635	14,967	12,235	2,732
11 .....	14,305	14,637	11,825	2,812
12 .....	12,420	12,936	10,251	2,685
Specials <u>1/</u> .....	10,058	9,490	9,114	376

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

Source: Hawaii State Department of Education, records.

Table 110.-- ENROLLMENT (PUBLIC AND PRIVATE SCHOOLS COMBINED),  
BY GRADES, BY COUNTIES: SEPTEMBER 11, 1986

[Excludes the University Laboratory Schools]

Grade	State total	Hawaii	Maui	Honolulu	Kauai
All grades ....	201,188	24,016	17,459	150,263	9,450
Nursery .....	2,796	233	178	2,326	59
Kindergarten .....	16,557	1,919	1,488	12,325	825
1 .....	16,538	2,069	1,442	12,233	794
2 .....	15,672	1,977	1,419	11,460	816
3 .....	14,778	1,931	1,314	10,781	752
4 .....	14,434	1,869	1,307	10,581	677
5 .....	13,980	1,780	1,271	10,219	710
6 .....	13,156	1,585	1,203	9,718	650
7 .....	13,313	1,587	1,177	9,955	594
8 .....	13,287	1,508	1,134	10,025	620
9 .....	14,647	1,702	1,250	11,050	645
10 .....	14,967	1,593	1,273	11,455	646
11 .....	14,637	1,653	1,252	11,075	657
12 .....	12,936	1,467	1,072	9,805	592
Specials <u>1/</u> .....	9,490	1,143	679	7,255	413

1/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, January 8, 1987.

Table 111.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL,  
1983 TO 1986

Category	1983	1984	1985	1986
All federally-connected pupils .....	38,305	38,927	38,046	37,843
Percent of total enrollment .....	23.6	23.8	23.2	23.0
Military dependents .....	19,965	20,304	20,037	19,907
Others <u>1/</u> .....	18,340	18,623	18,009	17,936

1/ Includes dependents of civilian employees of armed forces.

Source: Hawaii State Department of Education, records.

Table 112.-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 11, 1986, AND PRIVATE HIGH SCHOOL GRADUATES, 1985-1986, BY CHURCH AFFILIATION

Church affiliation	Schools	Teachers	Enrollment	High school graduates
Total .....	145	2,544	36,548	2,510
Church-affiliated .....	95	1,512	24,003	1,397
Roman Catholic .....	39	756	12,960	827
Other church-affiliated	56	756	11,043	570
Non-church-affiliated ...	50	1,032	12,545	1,113

Source: Hawaii State Department of Education, January 8, 1987.

Table 113.-- FRACTION OF HAWAIIAN BLOOD AMONG STUDENTS AT THE KAMEHAMEHA SCHOOLS: 1968-69 AND 1985-86

Fraction	1968-69	1985-86	Fraction	1968-69	1985-86
Number ...	2,554	2,764	Percent--con.:		
Percent .....	100.00	100.00	1/2 .....	16.17	12.36
Unmixed .....	0.20	0.04	3/8 .....	19.66	20.33
7/8 .....	0.82	1.25	1/4 .....	26.86	30.21
3/4 .....	3.25	2.66	1/8 .....	21.61	19.65
5/8 .....	7.83	5.89	1/16 .....	3.60	7.61
			None .....	0	0

Source: The Kamehameha Schools, records.



Table 114.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1969-1970 TO 1986-1987

Fiscal year	Expenditures (dollars)		Cost per pupil <u>1/</u> (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1969-1970 ..	146,753,192	37,564,333	818.19	9,591	179
1970-1971 ..	179,070,294	34,539,101	988.54	10,424	177 1/2
1971-1972 ..	183,830,422	35,269,593	1,007.10	10,459	178 1/2
1972-1973 ..	184,118,840	31,618,093	1,014.02	10,883	174
1973-1974 ..	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975 ..	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976 ..	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ..	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ..	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ..	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 ..	360,316,441	30,489,000	2,163.62	19,858	<u>2/</u> 163
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	<u>3/</u> 174
1983-1984 ..	509,710,506	11,941,000	3,255.97	25,380	176
1984-1985 ..	526,741,742	13,652,707	3,351.18	25,648	174
1985-1986 ..	585,533,781	27,812,430	3,795.31	26,595	176
1986-1987 ..	589,592,735	23,445,100	3,748.38	27,546	176

1/ Based on average daily membership.

2/ Scheduled school days numbered 177; 14 days were missed because of "blue collar strike."

3/ One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, records.

Table 115.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS:  
FALL 1977 TO 1987

[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>	West Oahu College
		Total	Under- graduates	Grad- uates	Other <u>1/</u>		
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,258	1,673	3,099	258
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
Community Colleges <u>3/</u>							
Year	Total	Hono- lulu	Kapio- lani	Lee- ward	Wind- ward	Kauai	Maui
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819
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

Footnotes and source follow next table.

Table 116.-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY THE UNIVERSITY OF HAWAII: 1977 TO 1987

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First profes- sional <u>4/</u>	Other <u>5/</u>
1977 ....	58	3,192	1,019	135	113	164
1978 ....	61	3,213	1,007	129	125	157
1979 ....	69	2,899	1,063	122	122	134
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	2,602	794	130	137	249
Year ended June 30	University of Hawaii at Hilo <u>2/</u>			West Oahu College: Bachelor	Community Colleges <u>3/</u>	
	Certifi- cates	Associate degrees	Bachelor degrees		Certifi- cates <u>6/</u>	Associate degrees
1977 ....	93	255	196	6	420	1,598
1978 ....	69	280	206	12	456	1,864
1979 ....	92	255	166	22	509	1,964
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

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 the University of Hawaii at Hilo.

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.

7/ Excludes 64 no data for community colleges.

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

Table 117.-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES,  
AND FACULTY AND STAFF: 1986 AND 1987

Subject	1986	1987
Curricula offered (Manoa Campus), Fall .....	236	246
Bachelor's degree programs .....	86	85
Master's degree programs .....	81	84
Doctoral programs (DrPH, EdD, PhD) .....	46	48
Other programs <u>1/</u> .....	23	29
Tuition per semester (full-time undergraduate, regular session):		
Manoa Campus:		
Resident .....	\$ 470	\$ 515
Nonresident .....	1,685	1,840
Hilo (upper division):		
Resident .....	425	475
Nonresident .....	1,575	1,720
West Oahu College:		
Resident .....	340	365
Nonresident .....	1,170	1,240
Community colleges:		
Resident .....	135	155
Nonresident .....	940	1,030
Finances, fiscal year ending June 30:		
Current fund revenues (\$1,000) .....	339,608	349,546
Current fund expenditures (\$1,000) .....	332,566	340,375
Number of students receiving financial aid .....	17,414	16,182
Faculty and staff, October .....	6,898	6,973
Board of Regents appointees .....	5,278	5,360
Full-time .....	3,329	3,419
Part-time .....	1,949	1,941
Civil Service personnel .....	1,620	1,613
Full-time .....	1,580	1,566
Part-time .....	40	47

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, December 1986, and records.

Table 118.-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1984 TO 1987

[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
1984, total .....	8,215	8,056	159	249	643	66
Brigham Young ..	1,912	1,912	-	49	159	-
Chaminade .....	2,471	2,312	159	72	246	66
Hawaii Loa .....	430	430	-	-	66	-
Hawaii Pacific .	3,402	3,402	-	128	172	-
1985, total .....	8,620	8,396	224	222	663	53
Brigham Young ..	1,926	1,926	-	54	187	-
Chaminade .....	2,512	2,288	224	41	251	53
Hawaii Loa .....	475	475	-	-	45	-
Hawaii Pacific .	3,707	3,707	-	127	180	-
1986, total .....	9,082	8,661	421	252	736	74
Brigham Young ..	2,005	2,005	-	51	165	-
Chaminade .....	2,606	2,305	301	53	257	74
Hawaii Loa .....	400	400	-	1	70	-
Hawaii Pacific .	4,071	3,951	120	147	244	-
1987, total .....	9,576	9,038	538	303	827	132
Brigham Young ..	2,079	2,079	-	57	212	-
Chaminade .....	2,584	2,276	308	80	271	132
Hawaii Loa .....	399	399	-	4	68	-
Hawaii Pacific .	4,514	4,284	230	162	276	-

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

2/ In regular credit programs.

3/ Year ended June 30. Data for 1984-1986 have been revised.

Source: Compiled by Hawaii State Department of Business and Economic Development from college officials.

Table 119.-- EDUCATIONAL CHARACTERISTICS: 1970 AND 1980

Subject	1970	1980	Percent	
			1970	1980
SCHOOL ENROLLMENT				
Persons 3 years old and over enrolled in school <sup>1/</sup> .....	235,765	266,181	100.0	100.0
Nursery school .....	7,707	12,808	3.3	4.8
Private .....	5,524	9,608	2.3	3.6
Kindergarten .....	14,615	14,289	6.2	5.4
Private .....	1,635	2,932	0.7	1.1
Elementary (1 to 8 years) .....	127,678	118,991	54.2	44.7
Private .....	13,770	19,644	5.8	7.4
High school (1 to 4 years) .....	57,455	65,609	24.4	24.6
Private .....	7,360	10,824	3.1	4.1
College .....	28,310	54,484	12.0	20.5
YEARS OF SCHOOL COMPLETED				
Persons 25 years old and over .....	384,843	547,608	100.0	100.0
Elementary: 0 to 4 years .....	32,080	28,969	8.3	5.3
5 to 8 years .....	63,256	59,576	16.4	10.9
High school: 1 to 3 years .....	51,365	54,793	13.3	10.0
4 years .....	138,307	192,042	35.9	35.1
College: 1 to 3 years .....	46,088	100,813	12.0	18.4
4 or more years .....	53,747	111,415	14.0	20.3

<sup>1/</sup> 1970 figures include persons 3 to 34 years old only.

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 120.-- 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 121.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY COUNTIES AND ISLANDS: 1980

County or island	Percent high school grads	Percent 4 years or more college	County or island	Percent high school grads	Percent 4 years or more college
State .....	73.8	20.3	Islands:		
Counties:			Hawaii .....	68.9	15.2
Hawaii .....	68.9	15.2	Maui .....	69.1	15.9
Maui .....	67.7	15.3	Lanai .....	38.2	9.4
Kalawao .....	28.2	3.5	Molokai .....	60.5	10.1
Honolulu .....	75.6	21.7	Oahu .....	75.6	21.7
Kauai .....	64.1	15.7	Kauai .....	64.4	15.8
			Niihau .....	0	0

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, PHC80-2-13 (June 1983), and PHC80-2-183 (June 1983).

Table 122.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS  
 OLD AND OVER: ANNUAL AVERAGES, 1982-84 AND 1985-87

[Based on pooled samples of 1,772 households (5,443 persons  
 of all ages) for 1982-1984 and 1,530 households (4,600  
 persons) for 1985-1987]

Years of school completed	1982-1984	1985-1987
Persons 25 years and over .....	571,838	642,782
None .....	5,306	4,299
Elementary .....	72,108	72,035
High school, 1 to 3 years .....	59,005	58,016
High school, 4 years .....	208,780	242,496
College, 1 to 3 years .....	108,446	125,379
College, 4 years .....	73,521	81,801
College, 5 or more years .....	44,671	58,755
Median (years) .....	12.7	12.8

Source: U.S. Bureau of the Census for the U.S. Bureau  
 of Labor Statistics, Current Population Survey (March),  
 annual, 1982 to 1987; machine-readable data file, special  
 tabulation by Hawaii State Data Center.



Table 123.-- ILLITERACY AND YEARS OF SCHOOL COMPLETED: 1970-1980

[For qualifications and earlier years, see Data Book 1986, table 119]

Subject	Age group	Number	Percent
Illiterate:			
In any language, 1970 .....	14 and over	...	1.9
In English, 1980 .....	20 and over	...	15
Years of school completed, 1980:			
Less than 1 year .....	15 and over	11,218	1.5
Less than 5 years .....	15 and over	29,929	4.0

Source: Statistical Abstract of the United States: 1975, p. 120; U.S. Department of Education, Office of the Deputy Undersecretary for Planning, Budget and Evaluation, Adult Illiteracy Estimates for States (revised April 14, 1986); U.S. Bureau of the Census, 1980 Census of Population, PC80-1-D13 (October 1983), table 203.

Table 124.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 3, 6, 8, AND 10: APRIL 21, 1987

[Percent of students taking test]

Subject and level	Norm	Grade 3	Grade 6	Grade 8	Grade 10
Reading:					
Below average .....	23	23	23	26	24
Average .....	54	58	56	55	59
Above average .....	23	19	21	20	17
Math:					
Below average .....	23	19	20	28	23
Average .....	54	50	47	48	49
Above average .....	23	31	32	24	28

Source: Hawaii State Department of Education, Test Development and Administration Section, records.

Table 125.-- SCHOLASTIC APTITUDE TEST SCORE AVERAGES: 1975 TO 1987

Component	1974-75	1979-80	1982-83	1984-85	1985-86	1986-87
Verbal <u>1/</u> .....	415	396	393	401	403	404
Math <u>2/</u> .....	478	472	471	476	477	477

1/ U.S. averages during this period ranged from 424 to 434.

2/ U.S. averages during this period ranged from 466 to 476.

Source: U.S. Department of Education, Center for Education Statistics, Digest of Education Statistics 1987 (May 1987), p. 95; Honolulu Star-Bulletin, September 17, 1987, pp. A-1 and A-21.

Table 126.-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES:  
1981 TO 1985

[In thousands of dollars. Fiscal year data]

Institution	1981	1982	1983	1984	1985
All universities and colleges ...	37,927	41,150	36,522	38,299	50,421
University of Hawaii at Manoa ...	27,280	28,278	30,815	30,748	39,084

Source: National Science Foundation, Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1985, Detailed Statistical Tables (1987), pp. 99 and 101.

Table 127.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM:  
1981 TO 1986

Subject	1981	1982	1983	1984	1985	1986
Library locations,						
June 30 .....	47	47	47	49	49	49
Oahu .....	22	22	22	23	23	23
Other islands .....	25	25	25	26	26	26
Personnel, June 30 <u>1/</u> ..	437.30	473.95	482.55	492.05	497.05	502.05
Librarians .....	122.00	124.40	126.00	131.00	134.00	133.00
All others .....	315.30	349.55	356.55	361.05	363.05	369.05
Hours open <u>2/</u> .....	54	54	54	54	54	54
Collections, June 30: <u>3/</u>						
Books <u>4/</u> .....	2,118.2	2,239.0	2,203.4	2,207.4	1,976.8	2,096.8
Audio-visuals,						
microforms <u>5/</u> .....	518.5	(NA)	648.7	282.2	164.0	164.1
Other print <u>5/</u> .....	804.7	(NA)	1,494.3	2,160.6	2,393.7	2,600.6
Circulation, year ended						
June 30 <u>3/</u> .....	5,267.0	5,263.1	5,321.7	5,490.7	6,011.4	6,500.2

NA Not available.

1/ Full-time equivalent basis, excluding student help. For 1984 through 1986, data include permanent and temporary State general-funded positions and temporary Federal funded positions.

2/ Regular weekly totals for Hawaii State Library, 478 South King Street, Honolulu.

3/ In thousands.

4/ Statistics for automated libraries taken from "total items linked" report; for non-automated libraries, from district annual reports.

5/ Microforms included with "other print" in 1984 through 1986. Art prints, pictures, and posters included with "other print" in 1985 and 1986.

Source: Hawaii State Department of Education, Office of the State Librarian, May 5, 1987.

Table 128.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM  
BY DISTRICTS: 1986

District	Library locations, June 30	Personnel, June 30 <u>1/</u>	Circulation, year ended June 30
Total system .....	49	502.05	6,500,175
Oahu .....	23	277.50	4,665,765
Hawaii State Library .....	1	84.00	643,142
Library for the Handicapped ..	1	14.50	60,839
East Oahu Library District ...	12	109.50	2,549,757
West Oahu Library District ...	9	69.50	1,412,027
Other islands .....	26	133.55	1,832,676
Hawaii Library District .....	13	59.55	923,624
Kauai Library District .....	5	31.50	448,229
Maui Library District <u>2/</u> .....	8	42.50	460,823
Administration .....	...	91.00	1,734
	Collections, June 30		
District	Books	Audio-visuals	Other print
Total system .....	2,096,757	164,051	2,600,611
Oahu .....	1,464,904	135,922	2,289,550
Hawaii State Library .....	466,706	31,800	1,860,090
Library for the Handicapped ..	20,956	69,069	6,335
East Oahu Library District ...	644,703	24,341	277,330
West Oahu Library District ...	332,539	10,712	145,795
Other islands .....	631,491	28,121	311,061
Hawaii Library District .....	275,005	4,612	69,806
Kauai Library District .....	177,734	13,448	125,825
Maui Library District <u>2/</u> .....	178,752	10,061	115,430
Administration .....	362	8	-

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

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

Source: Hawaii State Department of Education, Office of the State Librarian, May 5, 1987.

Table 129.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION,  
BY CAMPUS: 1985 TO 1987

Subject and campus	1985	1986	1987
NUMBER OF VOLUMES, JUNE 30			
All campuses .....	2,443,863	2,534,421	2,616,130
University of Hawaii at Manoa .....	2,013,146	2,091,059	2,164,497
West Oahu College .....	19,444	20,796	21,577
University of Hawaii at Hilo <sup>1/</sup> ....	178,555	184,192	188,692
Community colleges, total <sup>1/</sup> .....	232,718	238,374	241,364
Honolulu .....	53,121	50,197	48,726
Kapiolani .....	33,471	35,507	37,215
Leeward .....	51,746	53,290	54,953
Windward .....	29,426	31,098	32,348
Kauai .....	34,293	35,737	36,090
Maui .....	30,661	32,545	32,032
CIRCULATION, YEAR ENDED JUNE 30			
All campuses .....	559,466	553,210	548,529
University of Hawaii at Manoa .....	351,280	346,500	332,036
West Oahu College .....	6,972	6,904	6,565
University of Hawaii at Hilo <sup>1/</sup> ....	51,403	45,934	52,900
Community colleges, total <sup>1/</sup> .....	149,811	153,872	157,028
Honolulu .....	47,355	42,355	48,448
Kapiolani .....	13,532	16,181	16,827
Leeward .....	37,831	36,899	39,339
Windward .....	13,738	15,466	13,842
Kauai .....	18,950	13,967	15,649
Maui .....	18,405	29,004	22,923

<sup>1/</sup> Hawaii Community College is 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 committed, victims of crime, arrests, the police, attorneys, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1986 numbered 60,700, compared with 55,400 in 1985 and 71,300 in 1980. The rate per 1,000 resident population increased from 53 in 1985 to 57 in 1986. Seventy-seven percent of the serious crimes in 1986 occurred on Oahu. For the State as a whole, major offenses known to police in 1986 included 51 murders or cases of non-negligent manslaughter, 329 rapes, 1,129 robberies, 1,095 aggravated assaults, 14,218 burglaries, 39,922 cases of larceny, and 3,486 auto thefts. The value of property reported stolen in 1986 amounted to \$28 million, exclusive of motor vehicles; only 6.8 percent was recovered. Authorities confiscated 1,051,000 marijuana plants, with an estimated value of \$1.05 billion, during the year. Confirmed instances of child abuse and neglect numbered 2,376. Seventeen percent of the major offenses known to police were cleared by arrest or otherwise in 1986. Forty-three percent of the persons arrested for major crimes and 25 percent of those arrested for lesser offenses in 1986 were less than eighteen years of age. The number of inmates in the ten State correctional institutions averaged 2,094 during fiscal 1987; of this number, 1,429 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 1986 numbered 950,000, including 822,000 traffic cases. Filings in the United States District Court for Hawaii in 1986 included 1,208 civil cases, 1,558 criminal cases, and 782 bankruptcy cases. The last legal execution in Hawaii took place in 1947. There were 3,581 attorneys licensed in Hawaii as of mid-1987. Criminal justice system expenditures amounted to \$145 million in fiscal 1984.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Intake Service Center, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Data Center 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: 1987, Section 5.

Table 130.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTIES: 1976 TO 1986

[Part I offenses include murder, negligent and nonnegligent manslaughter, forcible rape, robbery, aggregated assault, burglary, larceny-theft, motor vehicle theft, and, since 1979, arson. Arson, however, is excluded from this table through 1984. Actual offenses include reported or known offenses, less unfounded cases]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate <u>1/</u>				
1976 .....	55,603	61.6	45,307	3,918	2,172	4,206
1977 .....	57,978	63.3	46,389	4,178	2,127	5,284
1978 .....	63,333	68.2	51,273	4,455	2,407	5,198
1979 .....	65,597	69.0	52,310	4,634	2,425	6,228
1980 .....	71,292	73.6	56,885	5,222	2,637	6,548
1981 .....	63,454	64.7	48,938	5,623	2,505	6,388
1982 .....	64,679	64.8	49,826	5,516	2,515	6,822
1983 .....	59,086	58.0	45,874	4,869	2,303	6,040
1984 .....	56,913	54.9	44,560	4,697	2,145	5,511
1985 <u>2/</u> ..	55,372	52.7	42,475	5,147	2,144	5,606
1986 <u>2/</u> ..	60,716	57.2	46,842	5,370	2,428	6,076

1/ Annual rate per 1,000 resident population, July 1 from DPED, Statistical Report 195.

2/ Includes arson, omitted before 1985. Excluding arson, the 1985 statewide total was 54,814 offenses, or 52.1 per 1,000 inhabitants.

Source: Hawaii Criminal Justice Data Center, Crime in Hawaii (annual), and data compiled from Police Department annual reports and records.

Table 131.-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1977 TO 1986

Offense	1977	1978	1979	1980	1981
All Part I offenses .....	57,978	63,333	65,597	71,292	63,454
Murder, non-neg. manslaughter ....	63	57	67	85	47
Negligent manslaughter .....	117	132	135	135	98
Forcible rape .....	227	225	296	327	314
Robbery .....	1,151	1,561	1,674	1,821	1,444
Aggravated assault .....	551	529	587	620	570
Burglary .....	16,944	17,203	16,390	17,668	16,611
Larceny .....	34,508	38,497	39,942	44,766	40,102
Motor vehicle theft .....	4,417	5,129	6,506	5,870	4,268
Arson <u>1/</u> .....	...	...	...	...	...
Offense	1982	1983	1984	1985	1986
All Part I offenses .....	64,679	59,086	56,913	55,372	60,716
Murder, non-neg. manslaughter ....	31	57	34	43	51
Negligent manslaughter .....	29	29	-	-	-
Forcible rape .....	319	300	315	310	329
Robbery .....	1,561	1,315	1,202	1,048	1,129
Aggravated assault .....	590	868	857	912	1,095
Burglary .....	16,337	13,589	12,588	12,164	14,218
Larceny .....	41,568	38,585	38,292	37,357	39,922
Motor vehicle theft .....	4,244	4,343	3,625	2,980	3,486
Arson <u>1/</u> .....	...	...	...	558	486

1/ Not included in tabulations before 1985.

Source: Compiled by Hawaii Criminal Justice Data Center from Annual Reports of the Hawaii County Police Department, Honolulu Police Department, Kauai Police Department, and Maui Police Department.



Table 132.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE: 1976 TO 1986

[Arson, reclassified as a Part I offense effective 1979, is included as a Part II offense in this table prior to 1986]

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	Part I	Part II, except traffic	Part I	Part II, except traffic
1976 ..	55,603	62,485	12,923	41,833	23.2	66.9
1977 ..	57,978	72,934	11,978	46,114	20.7	63.2
1978 ..	63,333	84,926	12,101	56,275	19.1	66.3
1979 ..	65,597	89,365	11,933	56,988	18.2	63.8
1980 ..	71,292	93,712	12,753	55,233	17.9	58.9
1981 ..	63,454	94,179	10,295	56,154	16.2	59.6
1982 ..	64,679	92,898	10,934	53,318	16.9	57.4
1983 ..	59,086	88,299	10,355	53,010	17.5	60.0
1984 ..	56,852	94,240	9,553	59,272	16.8	62.9
1985 ..	54,814	97,661	10,066	62,016	18.4	63.5
1986 ..	60,716	100,283	10,663	61,094	17.6	60.9

1/ Data include prior years' offenses cleared in current year.

Source: Data compiled by Hawaii Criminal Justice Data Center from Police Department annual reports and Uniform Crime Reporting Program.

Table 133.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1986

[Arson is classified as a Part I offense]

County	Actual offenses known to police		Number cleared by arrest or otherwise <sup>2/</sup>		Clearances per 100 offenses <sup>2/</sup>	
	Part I	Part II, except traffic	Part I	Part II, except traffic	Part I	Part II, except traffic
State total .	60,716	100,283	10,593	61,094	17.4	60.9
Honolulu .....	46,842	71,565	7,356	45,295	15.7	63.3
Hawaii .....	5,370	8,477	1,873	6,008	34.9	70.9
Kauai .....	2,428	3,558	498	1,507	20.5	42.4
Maui .....	6,076	16,683	866	8,284	14.3	49.7

1/ Data include prior years' offenses cleared in current year.

Source: Hawaii Criminal Justice Data Center, data from Uniform Crime Reports and county police department statistical reports.

Table 134.-- MAJOR OFFENSES REPORTED TO POLICE PER 100,000 POPULATION, BY RESIDENCE OF VICTIM, FOR OAHU, 1981-1982, AND KAUAI, 1978-1980

[Annual averages for Part I offenses. Resident victimization rates based on resident population estimates; visitor victimization rates, on estimated average visitor census]

Offense	Oahu		Kauai	
	Residents	Visitors	Residents	Visitors
All crimes ..	5,685.5	7,342.4	5,681.0	5,616.8
Violent crimes ...	233.0	296.2	228.0	200.0
Property crimes ..	5,452.5	7,046.2	5,453.0	5,416.8

Source: Meda Chesney-Lind and Ian Y. Lind, Visitors As Victims: Crimes Against Tourists in Two Hawaii Counties (University of Hawaii, School of Social Work, Youth Development and Research Center, Research Report No. 293, February 1984), pp. 11a and 12a.

Table 135.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES  
CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1986

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise <u>1/</u>		Clearances per 100 offenses <u>1/</u>	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	60,716	46,842	10,593	7,356	17.4	15.7
Murder and nonnegligent manslaughter .....	51	46	16	12	31.4	26.1
Manslaughter (neg.) ...	-	-	-	-	-	-
Rape .....	329	241	197	150	59.9	62.2
Robbery .....	1,129	1,052	268	240	23.7	22.8
Aggravated assault ....	1,095	737	571	322	52.1	43.7
Burglary .....	14,218	10,675	1,519	798	10.7	7.5
Larceny over \$200 .....	14,183	10,978	7,411	5,436	18.6	17.6
Larceny, \$50-\$200 .....	10,052	7,830				
Larceny, under \$50 ....	15,687	12,038				
Motor vehicle theft ...	3,486	2,858	541	351	15.5	12.3
Arson .....	486	387	70	47	14.4	12.1

1/ Data include clearance of offenses reported in previous years.

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 136.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES,  
BY AGE AND SEX, FOR COUNTIES: 1986

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total .....	11,453	8,461	1,392	914	686
Juveniles .....	4,905	3,638	615	345	307
Male .....	3,841	2,836	472	284	249
Female .....	1,064	802	143	61	58
Adults .....	6,548	4,823	777	569	379
Male .....	4,973	3,659	555	446	313
Female .....	1,575	1,164	222	123	66
PART II OFFENSES (EXCEPT TRAFFIC)					
Total .....	38,817	28,778	4,320	3,319	2,400
Juveniles .....	9,729	6,905	1,177	649	998
Male .....	6,469	4,625	796	397	651
Female .....	3,260	2,280	381	252	347
Adults .....	29,088	21,873	3,143	2,670	1,402
Male .....	24,766	18,702	2,578	2,274	1,212
Female .....	4,322	3,171	565	396	190

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 137.-- WHITE COLLAR CRIME KNOWN TO THE U.S. ATTORNEY FOR HAWAII: 1984 AND 1985

Offense	Counts		Value <sup>1/</sup> (\$1,000)	
	1984	1985	1984	1985
All white collar offenses .....	1,001	801	62,348	48,353
Bribery .....	3	1	1	2
Corruption .....	61	4	19	16
Counterfeiting or forgery .....	228	65	115	205
Embezzlement .....	172	146	540	604
False statement .....	113	120	9,300	740
Fraud .....	375	305	34,252	7,252
Tax evasion .....	12	33	17,585	3,404
Racketeering in corrupt organizations ..	17	93	217	36,100
Other business crimes .....	3	6	318	-
Other white collar crimes .....	17	28	1	30

<sup>1/</sup> Value of goods, money, or services that were illegally obtained, attempted to be obtained, or conspired to be obtained.

Source: Hawaii Criminal Justice Data Center, White Collar Crime in Hawaii (January 1987), pp. 26-27.

Table 138.-- MARIJUANA CONFISCATED OR DESTROYED BY AUTHORITIES, BY COUNTIES: 1984 TO 1986

Calendar year	Number of plants, by counties					Estimated value <sup>1/</sup> (million dollars)
	State total	Hawaii	Maui	Honolulu	Kauai	
1984 .....	533,238	325,761	37,388	120,238	49,851	533
1985 .....	809,839	563,621	79,537	73,452	93,229	810
1986 .....	1,050,650	742,238	101,662	31,372	175,378	1,051

<sup>1/</sup> At \$1,000 per plant. Excludes value of confiscated processed marijuana.

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

Table 139.-- CHILD ABUSE AND NEGLECT REPORTS:  
1980 TO 1985

[Revised from Data Book 1986, table 136]

Subject	1980	1981	1982	1983	1984	1985
Reports ....	2,104	2,358	2,683	3,631	4,380	4,303
Confirmed ..	1,057	1,136	1,378	1,621	2,181	2,376

Source: Hawaii State Department of Social Services and Housing, records.

Table 140.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN  
PROPERTY RECOVERED, BY CATEGORY: 1976 TO 1986

Year	Locally stolen motor vehicles			Other stolen property		
	Value stolen (\$1,000)	Value recovered		Value stolen (\$1,000)	Value recovered	
		Amount (\$1,000)	Percent		Amount (\$1,000)	Percent
1976 ...	5,732.7	4,243.4	74.0	14,242.9	1,229.6	8.6
1977 ...	6,909.2	5,004.2	72.4	17,869.7	1,507.9	8.4
1978 ...	9,284.8	6,485.0	69.8	22,430.8	2,187.2	9.8
1979 ...	14,469.1	9,999.0	69.1	24,903.4	2,639.5	10.6
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

Source: Hawaii Criminal Justice Data Center, tabulations from Uniform Crime Reports.

Table 141.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN  
PROPERTY RECOVERED, BY COUNTIES: 1986

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
Value of property stolen (\$1,000) .....	39,727.8	31,032.2	2,565.5	4,741.7	1,388.4
Motor vehicles .....	11,491.6	9,222.9	462.2	1,232.5	574.0
Other property .....	28,236.2	21,809.3	2,103.3	3,509.2	814.4
Value of stolen property recovered 1/ (\$1,000) ...	9,788.5	7,311.5	592.3	1,313.7	571.0
Motor vehicles .....	7,857.3	5,912.0	365.7	1,071.2	508.4
Other property .....	1,931.2	1,399.5	226.6	242.5	62.6
Percent of value recovered	24.6	23.6	23.1	27.7	41.1
Motor vehicles .....	68.4	64.1	79.1	86.9	88.6
Other property .....	6.8	6.4	10.8	6.9	7.7

1/ Includes property stolen in previous years.

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 142.-- MAJOR OFFENSES, OFFENSES CLEARED, PERSONS ARRESTED, AND VALUE OF PROPERTY STOLEN AND RECOVERED, FOR THE CITY AND COUNTY OF HONOLULU: 1983 TO 1986

Subject	1983	1984	1985	1986
Actual major (Part I) offenses known to police .....	45,874	44,497	42,094	46,449
Murder; non-negligent manslaughter .	45	25	36	46
Manslaughter (negligent) .....	29	23	66	57
Rape .....	247	251	250	237
Robbery .....	1,228	1,096	958	1,026
Aggravated assault .....	576	539	553	724
Burglary .....	9,997	9,284	8,984	10,641
Larceny .....	29,853	30,198	28,825	30,859
Over \$50 .....	16,796	18,050	17,209	18,815
Auto theft .....	3,899	3,081	2,422	2,859
Major (Part I) offenses cleared <u>1/</u> ...	8,047	7,199	7,916	7,937
Per 100 offenses known .....	17.5	16.2	18.8	17.1
Persons arrested for Part I offenses .	9,002	7,316	7,971	8,441
Juveniles under 18 years .....	3,589	3,140	3,529	3,618
Male .....	2,740	2,435	2,712	2,818
Female .....	849	705	817	800
Adults, 18 years and over .....	5,413	4,176	4,442	4,823
Value of property reported stolen <u>2/</u> .	22,798	24,456	21,398	25,425
Value of stolen property recovered <u>3/</u> .....	1,946	2,038	1,619	2,203
Percent recovered .....	8.5	8.3	7.6	8.7

1/ By arrest or otherwise. Includes prior years offenses.

2/ Thousands of dollars. Excludes stolen automobiles.

3/ Includes prior years stolen property recovered.

Source: Honolulu Police Department, Annual Statistical Report (annual).



Table 143.-- POLICE PROTECTION AND CORRECTION EMPLOYMENT, PAYROLLS,  
AND EXPENDITURES BY STATE AND COUNTY GOVERNMENTS: 1983

Subject	Total	Police protection	Correc-tion
Full-time equivalent employment, Oct. ...	3,616	2,712	904
October payroll (\$1,000) .....	6,361	5,162	1,199
Expenditures, fiscal year (mil. dol.) ...	<u>1/</u> 169	81	28

1/ Includes \$60 million for judicial and legal, not shown separately.

Source: Data from U.S. Bureau of the Census, cited in Statistical Abstract of the United States: 1987, p. 166.

Table 144.-- CRIMINAL JUSTICE POSITIONS AND EXPENDITURES:  
FISCAL YEAR 1983-1984

Agency	Authorized positions (full-time equivalent)	Expenditures (dollars)
Total .....	5,339.0	<u>1/</u> 145,489,650
Police .....	<u>2/</u> 2,831.0	78,320,670
Prosecutors .....	243.0	<u>1/</u> 7,920,380
Judiciary .....	1,191.0	32,002,471
Corrections .....	996.0	25,458,647
Intake Service Centers .....	58.0	1,353,434
Hawaii Paroling Authority ....	20.0	434,048

1/ Revised from Data Book 1986, table 138.

2/ Based on full-time positions only (sworn and non-sworn).

Source: Department of the Attorney General, Hawaii Criminal Justice Data Center, Management and Administrative Statistics for the Criminal Justice System in the State of Hawaii, Research and Statistics Report MAS3 (June 1986), pp. 169-170, as revised.

Table 145.-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:  
1985 TO 1987

[As of June 30]

Subject	1985	1986	1987
Federal judges and magistrates: <u>1/</u>			
U.S. Bankruptcy Court .....	1	1	1
U.S. District Court .....	7	7	8
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> .....	29	30	30
Assigned to Family Court .....	7	8	8
Land Court .....	(5/)	(5/)	(5/)
Tax Appeal Court .....	( <u>5/</u> )	( <u>5/</u> )	( <u>5/</u> )
Attorneys licensed in Hawaii <u>6/</u> .....	3,180	3,373	3,581

1/ Full-time and part-time. Includes 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 Court, a division of the Circuit Courts. There are four District Courts, one in each of the four judicial circuits, convened in 23 locations.

5/ Caseload assigned to Circuit Court judges.

6/ Includes judges.

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

Table 146.-- UNITED STATES DISTRICT COURT CASES:  
1984 TO 1986

[Years ended June 30]

Subject	1984	1985	1986
Civil cases:			
Commenced .....	1,459	1,575	1,208
Terminations .....	1,347	1,104	994
Pending, end of period .....	1,553	2,024	2,238
Criminal cases: <u>1/</u>			
Commenced .....	3,030	3,066	1,558
Terminations .....	2,833	3,005	1,697
Pending, end of period .....	1,255	1,315	1,164
Bankruptcy:			
Commenced, total .....	630	609	782
Business .....	249	246	253
Nonbusiness .....	381	363	529
Terminations .....	331	483	586
Pending, end of period .....	1,741	1,867	2,063

1/ Transfers included for 1984 but excluded thereafter.

Source: Administrative Office of the United States Courts,  
Annual Report of the Director for 1984, 1985, and 1986.

Table 147.-- STATE JUDICIARY TERMINATIONS: 1977 TO 1987

[Fiscal years ended June 30]

Court and type of case	1977	1978	1979	1980	1981	1982
All courts, total ..	685,282	719,773	818,750	760,231	890,048	946,347
Supreme Court <u>1/</u> .....	563	729	876	1,023	1,158	1,434
Civil cases .....	97	95	111	75	116	168
Criminal cases .....	41	68	149	150	136	140
Other proceedings .....	425	566	616	798	906	906
Intermediate Court of						
Appeals <u>2/</u> .....	...	...	...	42	350	298
Civil cases .....	...	...	...	13	157	136
Criminal cases .....	...	...	...	21	45	27
Other cases .....	...	...	...	8	148	135
Circuit Courts proper ...	8,626	9,151	8,744	10,581	8,778	9,882
Civil cases .....	3,732	4,073	3,367	3,871	3,627	4,401
Criminal cases .....	1,532	1,716	1,962	2,279	1,853	2,145
Part I offenses .....	766	764	837	844	788	937
Part II offenses .....	766	952	1,125	1,435	1,065	1,208
Other proceedings .....	3,362	3,362	3,415	4,431	3,298	3,336
Family Courts .....	19,010	20,194	20,952	21,525	20,442	21,179
Civil cases .....	8,538	9,314	10,277	10,510	9,252	10,121
Criminal cases .....	24	50	40	81	45	47
Other proceedings .....	10,448	10,830	10,635	10,934	11,145	11,011
District Courts .....	657,083	689,699	788,178	727,060	859,320	913,554
Civil cases .....	10,330	10,200	11,382	11,894	15,992	22,597
Traffic cases .....	609,323	640,468	733,196	669,033	792,767	841,844
Other violations .....	18,926	18,888	22,096	22,696	24,401	24,066
Criminal cases .....	18,504	20,143	21,504	23,437	26,160	25,047
Part I offenses .....	3,254	3,368	3,651	3,513	4,426	4,275
Part II offenses .....	15,250	16,775	17,853	19,924	21,734	20,772

Continued on next page.

Table 147.-- STATE JUDICIARY TERMINATIONS: 1977 TO 1987 -- Con.

Court and type of case	1983	1984	1985	1986	1987
All courts, total ..	999,447	930,586	945,903	950,387	860,866
Supreme Court <u>1/</u> .....	1,483	1,817	2,769	2,588	2,371
Civil cases .....	250	174	199	287	262
Criminal cases .....	164	228	241	312	254
Other proceedings .....	1,126	1,069	2,329	1,989	1,855
Intermediate Court of Appeals <u>2/</u> .....	222	183	179	224	248
Civil cases .....	91	97	70	87	91
Criminal cases .....	35	23	28	42	49
Other cases .....	96	63	81	95	108
Circuit Courts proper ...	10,304	21,573	13,248	13,467	10,604
Civil cases .....	4,732	13,918	6,288	7,465	5,622
Criminal cases .....	1,865	4,383	3,252	2,717	2,305
Part I offenses .....	737	1,810	1,309	1,073	925
Part II offenses .....	1,128	2,573	1,943	1,644	1,380
Other proceedings .....	3,707	3,272	3,708	3,285	2,677
Family Courts .....	22,176	27,583	28,773	34,635	40,130
Civil cases .....	9,619	12,722	11,833	16,038	14,294
Criminal cases .....	45	233	149	163	650
Other proceedings .....	12,512	14,628	16,791	18,434	25,186
District Courts .....	965,262	879,430	900,934	899,473	807,513
Civil cases .....	18,926	18,920	19,509	20,354	20,402
Traffic cases .....	897,713	811,816	831,505	822,295	730,573
Other violations .....	23,351	20,803	18,101	26,842	24,885
Criminal cases .....	25,272	27,891	31,819	29,982	31,653
Part I offenses .....	5,259	5,340	4,777	4,326	4,567
Part II offenses .....	20,013	22,551	27,042	25,656	27,086

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 281 in 1980, 121 in 1981, 132 in 1982, 94 in 1983, 105 in 1984, 142 in 1985, 135 in 1986, and 137 in 1987.

2/ The Intermediate Court of Appeals was installed on April 18, 1980. Data exclude cases transferred back to the Supreme Court: 1 in 1981, 4 in 1982, 1 in 1983, 1 in 1984, and 1 in 1987.

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

Table 148.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1984 TO 1986

[Years ended June 30]

Court and type of action	1984	1985	1986
Supreme Court, total .....	1,906	2,946	2,564
Primary cases .....	572	628	734
Appeals .....	534	570	677
Original proceedings .....	38	58	57
Supplemental proceedings .....	1,334	2,318	1,830
Intermediate Court of Appeals, total ..	158	208	222
Primary cases .....	101	132	132
Appeals .....	100	132	132
Original proceedings .....	1	-	-
Supplemental proceedings .....	57	76	90
Circuit Courts Proper, total .....	14,453	14,633	14,297
Primary proceedings .....	13,315	13,449	13,338
Civil actions .....	6,960	6,709	6,718
Probate proceedings .....	1,738	1,797	1,733
Guardianship proceedings .....	356	375	518
Miscellaneous proceedings .....	1,280	1,614	1,309
Criminal actions .....	2,981	2,954	3,060
Part I offenses .....	1,071	1,193	1,086
Part II offenses .....	1,910	1,761	1,974
Supplemental proceedings .....	1,138	1,184	959
Family Courts, total .....	27,644	30,049	33,902
Primary proceedings, referrals .....	22,250	24,409	26,502
Marital actions, proceedings .....	7,749	7,634	7,508
Adoption proceedings .....	759	770	677
Paternity/parental proceedings ....	1,398	993	1,034
Miscellaneous proceedings .....	3,011	2,884	3,123
Criminal actions .....	157	203	364
Adults' referrals .....	871	2,028	2,394
Children and minors' referrals ....	8,305	9,897	11,402
Supplemental proceedings .....	5,394	5,640	7,400
District Court, total .....	919,460	930,341	960,221
Civil .....	19,607	20,622	21,263
Regular .....	14,219	15,324	15,671
Small claims .....	5,388	5,298	5,592
Traffic .....	847,327	853,483	872,292
Moving - arrest and citation .....	190,216	200,158	196,385
Non-moving .....	134,406	139,493	124,217
Parking .....	522,705	513,832	551,690
Other violations .....	24,153	23,730	36,070
Criminal actions .....	28,373	32,506	30,596
Part I offenses .....	5,434	4,732	4,324
Part II offenses .....	22,939	27,774	26,272

Source follows next table.

Table 149.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE:  
1984 TO 1986

[Years ended June 30]

Court and type of termination	1984	1985	1986
Supreme Court, total .....	1,922	2,911	2,723
Opinion filed .....	220	283	377
Dismissal motion granted .....	31	19	53
Withdrawn or discontinued .....	100	106	56
Transferred .....	105	142	135
Other disposition .....	1,466	2,361	2,102
Intermediate Court of Appeals, total .	184	179	224
Opinion filed .....	115	99	124
Dismissal motion granted .....	1	-	1
Withdrawn or discontinued .....	7	6	3
Transferred .....	1	-	-
Other disposition .....	60	74	96
Circuit Courts Proper, total .....	21,573	13,248	13,467
No service .....	991	332	466
No answer .....	965	436	382
No statement of readiness .....	78	23	196
Dismissal: Notice of .....	1,630	799	1,088
Stip. for .....	6,052	3,347	3,823
By judge .....	1,646	901	904
Nonjury: Trial .....	379	272	206
Trial not completed .....	17	14	60
Jury: Verdict .....	586	377	327
Trial not completed .....	41	16	11
No trial held .....	2,481	1,950	1,634
Hearings: Contested .....	246	361	241
Uncontested .....	1,957	1,905	1,756
Others .....	4,504	2,515	2,373
Family Courts, total .....	27,583	28,773	34,635
Nolle prosequi .....	23	12	14
Dismissal .....	89	33	24
Nonjury: Trial .....	67	35	115
Trial not completed .....	2	-	4
Jury: Verdict .....	-	1	3
Trial not completed .....	1	-	-
No trial held .....	1,083	909	1,450
Hearings: Contested .....	6,346	4,071	3,508
Uncontested .....	8,957	10,407	14,041
Counseling service .....	4,598	6,338	6,299
Others .....	6,417	6,967	9,177

Continued on next page.

Table 149.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE:  
1984 TO 1986 -- Con.

[Years ended June 30]

Court and type of termination	1984	1985	1986
District Court, total .....	879,430	900,934	899,473
Felonies .....	1,649	1,689	1,302
Stricken or discharged .....	381	230	256
By commitment to Grand Jury .....	140	52	33
By commitment to Circuit Court ..	1,128	1,407	1,013
Misdemeanors .....	26,242	30,130	28,680
By discharge or dismissal .....	7,405	7,833	8,137
By nolle prosequi .....	1,459	1,306	1,580
Stricken .....	1,499	1,546	1,463
By bail forfeiture .....	2,278	2,396	2,043
By commitment to Circuit Court ..	382	426	398
By conviction .....	13,219	16,623	15,059
Civil cases .....	18,920	19,509	20,354
By discontinuance or dismissal ..	7,392	7,086	8,149
By default or confession .....	10,689	11,644	11,439
By trial .....	720	662	647
By commitment to Circuit Court ..	119	117	119
Traffic and other violations .....	832,619	849,606	849,137
By discontinuance or dismissal ..	9	-	-
By discharge or dismissal .....	114,989	104,748	87,593
By nolle prosequi .....	19,840	21,479	17,247
Stricken .....	61,563	58,742	48,547
By bail forfeiture .....	516,075	518,649	550,982
By commitment to Circuit Court ..	73	96	61
By conviction .....	120,070	145,892	144,707

Source: The Judiciary, State of Hawaii, Annual Report, July 1, 1983 to June 30, 1984, Statistical Supplement, tables 1A, 1B, 7, 17, and 22; The Judiciary, State of Hawaii, Annual Report, July 1, 1984 to June 30, 1985, Statistical Supplement, tables 1A, 1B, 7, 17, and 22; The Judiciary, State of Hawaii, Annual Report, July 1, 1985 to June 30, 1986, Statistical Supplement, tables 1A, 1B, 7, 17, and 22.



Table 150.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:  
ANNUAL AVERAGES, 1977 TO 1987

[Mean head count for fiscal years ended June 30. Excludes Kauai County Jail before June 20, 1977, when it was transferred to State control]

Year	All categories	Adult facilities <u>1/</u>			Juvenile facilities <u>2/</u>	
		Felons	Misdemeanants <u>3/</u>	Not sentenced	Boys	Girls
1977 .....	544	319	39	117	56	13
1978 .....	592	351	48	129	54	10
1979 .....	698	412	48	170	61	7
1980 .....	817	480	74	177	76	10
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

1/ As of 1987, data include eight separate facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers, Kulani Correctional Facility, Halawa High Security Facility, Women's Community Correctional Center, and Waiawa Correctional Facility.

2/ Hawaii Youth Correctional Facility.

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

Source: Hawaii State Intake Service Centers, October 28, 1987.

Table 151.-- MEDIAN AGES AND AVERAGE SENTENCES OF FELON POPULATION:  
1977 TO 1987

[Years ended June 30. These data cover only those felons under the jurisdiction of the State's correctional facilities. These include long-term felons and those 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
1977 ....	26.5	25.4	55.9	102.2	32.7	120.7	32.6
1978 ....	25.3	27.6	52.6	99.1	38.5	108.0	35.8
1979 ....	26.5	26.6	59.8	119.0	34.8	89.2	36.9
1980 ....	26.1	25.3	69.4	151.3	53.7	113.6	46.4
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	133.5	54.1	122.7	39.8
1987 ....	27.0	31.0	45.9	190.8	42.5	132.4	38.0

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

Source: State Department of Corrections, State Intake Service Centers, Felony Offender Computerized Update System (FOCUS), Comprehensive Offender Monitoring and Program Assessment System (COMPAS), and Hawaii Paroling Authority Records.

Table 152.-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:  
1985 AND 1986

[Years ended June 30]

Item	1985	1986
Number of parolees, June 30 <sup>1/</sup> .....	603	797
Parolees in Hawaii .....	314	473
Parolees outside Hawaii .....	53	83
Absconders and suspensions (cumulative) .....	236	241
Minimum imprisonment terms fixed .....	1,496	1,241
Number of persons for whom terms fixed .....	543	435
Persons considered for parole .....	286	444
Paroles tentatively granted .....	192	330
Paroles denied .....	94	114
Persons reconsidered for minimum terms previously set .	115	204
Terms reset .....	2	1
Terms reset/parole granted .....	101	187
Terms undisturbed .....	9	14
Deferred reconsideration .....	3	2
Parole violation hearings .....	38	58
Parole revocations .....	27	49
Continued on parole .....	8	6
Deferred decision/hearing .....	3	3
Pardon investigations .....	27	16
Persons pardoned .....	18	13
Persons whose paroles were suspended because their whereabouts unknown .....	22	19
Discharges .....	82	76
Discharged from parole .....	54	57
Final discharge .....	27	16
Deceased .....	1	3

<sup>1/</sup> In addition, provided courtesy supervision to 16 interstate cases on June 30, 1985 and 20 on June 30, 1986.

Source: Hawaii State Department of Social Services and Housing, Annual Report of the Hawaii Paroling Authority.

## Section 5

# GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, noise, 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 6,425 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. There is also relatively little water pollution: the 34 major beaches surveyed in 1986 were found to have fecal coliform levels per 100 ml. ranging from 2.0 to 116, and all of them were within EPA standards. More than 1,200 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 largest volcanic eruption in Island history (begun in 1983) had produced almost one billion cubic yards of lava by July 1987. The worst earthquake (1868) attained 7.5 on the Richter scale, 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. Among 31 neighborhoods on Oahu, median noise levels in 1981-1982 ranged from 37 decibels (in Mililani) to 57 decibels (in Pawaa).

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: 1987, Section 6.

Table 153.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES

Place	Statute miles	Kilometers
DISTANCES FROM HONOLULU INTERNATIONAL AIRPORT		
Hawaiian Islands locations:		
Hilo, Hawaii .....	214	344
Kailua, Kona, Hawaii .....	168	270
Kahului, Maui .....	98	158
Lanai Airport .....	72	116
Molokai Airport .....	54	87
Lihue, Kauai .....	103	166
Puuwai, Niihau .....	152	245
Nihoa .....	283	455
Necker Island .....	520	837
French Frigate Shoals .....	556	895
Gardner Pinnacles .....	688	1,107
Maro Reef .....	851	1,369
Laysan Island .....	936	1,506
Lisianski Island .....	1,065	1,714
Pearl and Hermes Atoll .....	1,208	1,944
Midway Islands .....	1,309	2,106
Kure Atoll .....	1,367	2,200
Other Pacific locations:		
Apra Harbor, Guam .....	3,806	6,124
Auckland, New Zealand .....	4,393	7,068
Hong Kong .....	5,541	8,915
Johnston Atoll .....	820	1,319
Kingman Reef .....	1,073	1,726
Kiritimati (Christmas Island), Kiribati .....	1,344	2,163
Majuro, Marshall Islands .....	2,271	3,654
Manila, Philippines .....	5,293	8,516
Nuku Hiva, Marquesas Islands .....	2,400	3,864
Pago Pago, American Samoa .....	2,606	4,193
Palmyra Atoll .....	1,101	1,772
Papeete, Tahiti .....	2,741	4,410
Suva, Fiji .....	3,159	5,083
Sydney (Port Jackson), Australia .....	5,070	8,158
Tokyo, Japan .....	3,847	6,190
Wake Island .....	2,294	3,691
North and South American locations:		
Anchorage, Alaska .....	2,781	4,475
Cape Horn, Chile .....	7,457	11,998

Continued on next page.

Table 153.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES -- Con.

Place	Statute miles	Kilometers
DISTANCES FROM HONOLULU INT. AIRPORT--Con.		
North and South American locations, con.:		
Chicago, Illinois .....	4,179	6,724
Cristobal, Canal Zone .....	5,214	8,389
Los Angeles, California .....	2,557	4,114
Miami, Florida .....	4,856	7,813
New York, New York .....	4,959	7,979
Portland, Oregon .....	2,595	4,175
San Diego, California .....	2,610	4,199
San Francisco, California .....	2,397	3,857
Seattle, Washington .....	2,679	4,311
Vancouver, B.C. ....	2,709	4,359
Tijuana, Mexico .....	2,616	4,209
Washington, D.C. ....	4,829	7,770
London, England .....	7,226	11,627
Bombay, India .....	8,010	12,888
Ghanzi, Botswana 1/ .....	12,417	19,979
Equator, due south of Honolulu .....	1,470	2,367
North Pole .....	4,740	7,631
OTHER DISTANCES		
Hilo to --		
Los Angeles, California .....	2,447	3,937
San Francisco, California .....	2,315	3,725
Kure Atoll to --		
Cape Kumukahi, Puna, Hawaii 2/ .....	1,523	2,451
Log Point, Elliot Key, Florida 3/ .....	5,852	9,416
Tokyo, Japan .....	2,486	4,000
West Quoddy Head, Maine .....	5,788	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 fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1973), pp. 22-23, and distance computations prepared for the Department of Planning and Economic Development.

Table 154.-- LATITUDES AND LONGITUDES OF SELECTED PLACES

Island and place	Latitude (North)	Longitude (West)
Hawaii:		
Hilo (General Lyman Field) .....	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°52'
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. Department of Commerce, National Climatic Data Center, Local Climatological Data, Annual Summary with Comparative Data, 1984 for Hilo, Kahului, Honolulu, and Lihue; U.S. Geological Survey, Elevations and Distances in the United States (1973), pp. 22-23; Bernice P. Bishop Museum, Geography and Map Division, information provided April 29, 1986.

Table 155.-- 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-Maroo Reef .....	155.5	250.3	12,300	3,749
Maroo 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 156.-- 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
Nihoa .....	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 157.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982

[See maps on page 6]

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> .....	620.9	596.7	24.2
Kauai <u>5/</u> .....	629.4	619.4	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 157.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- 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> .....	1,608.1	1,545.4	397,376	381,888
Kauai <u>5/</u> .....	1,630.1	1,604.2	402,816	396,416
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
Nihoa .....	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 157.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- 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/ Revised to reflect inclusion of Kaula in the City and County of Honolulu rather than in the County of Kauai, as formerly shown; see Hawaii State Department of the Attorney General, "County Jurisdiction Over Kaula," memorandum to Kent M. Keith, August 18, 1986.

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

7/ Includes Lehua, previously 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 158.-- 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]

Category	Square nautical miles	Square statute miles	Square kilometers
Total ....	634,023	839,623	2,174,626
Land area .....	4,852	6,425	16,641
Water area ....	629,171	833,198	2,147,985

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

Table 159.-- MAJOR AND MINOR ISLANDS IN THE HAWAIIAN ARCHIPELAGO

Classification	Number of islands		Land area (square miles)
	Total	Inhabited, 1980 <u>1/</u>	
All named islands .....	137	15	6,427.0
Major islands .....	8	7	6,419.4
Named minor islands <u>2/</u> .....	129	8	7.6
Offshore of major islands .....	96	4	2.6
Northwestern Hawaiian Islands <u>3/</u> .....	33	4	4.9
Part of State .....	28	3	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/ The 33 islets are in 10 clusters.

Source: Hawaii State Department of Planning and Economic Development, Geographic Names Approved, Second Quarter 1969 (Report GN-6, July 8, 1969), p. 8; data for Midway Islands supplied by Lee S. Motteler, Bishop Museum.

Table 160.-- 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 Adele M. Carpenter, Land Use Division, DBED.

Table 161.-- ELEVATIONS OF MAJOR SUMMITS

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

Island and mountain	Feet	Meters
<b>Hawaii:</b>		
Mauna Kea 1/ .....	13,796	4,205
Mauna Loa 2/ .....	13,679	4,169
Hualalai .....	8,271	2,521
Kaumu o Kaleihoochie .....	5,480	1,670
Kilauea (Uwekahuna) .....	4,093	1,248
Kilauea (Halemaumau Rim) .....	3,660	1,116
<b>Kahoolawe:</b>		
Puu Moaulanui .....	1,483	452
Puu Moaulaiki .....	1,434	437
Molokini .....	160	49
<b>Maui:</b>		
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
<b>Lanai:</b>		
Lanaihale .....	3,370	1,027
<b>Molokai:</b>		
Kamakou .....	4,961	1,512
Olokui .....	4,606	1,404
Kaunuohua .....	4,535	1,382
Kalaupapa Lookout .....	1,600	488
Mauna Loa (Kukui) .....	1,430	436
<b>Oahu:</b>		
Kaala .....	4,017	1,224
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 161.-- ELEVATIONS OF MAJOR SUMMITS -- Con.

Island and mountain	Feet	Meters
<b>Kauai:</b>		
Kawaikini .....	5,243	1,598
Waialeale .....	5,148	1,569
Namolokama Mountain .....	4,421	1,348
Kalalau Lookout .....	4,120	1,256
Hauptu .....	2,297	700
Sleeping Giant (Nonou) .....	1,241	378
<b>Niihau:</b>		
Paniau .....	1,281	390
Lehua .....	699	213
Kaula .....	550	168
<b>Nihoa:</b>		
Millers Peak .....	910	277
<b>Necker Island:</b>		
Summit Hill .....	277	84
<b>French Frigate Shoals:</b>		
La Perouse Pinnacles .....	135	41
Gardner Pinnacles .....	190	58
Maro Reef .....	Awash	Awash
Laysan Island .....	35	11
Lisianski Island .....	20	6
Pearl and Hermes Atoll .....	10	3
Midway Islands .....	12	4
Kure Atoll .....	20	6

1/ According to the 1986 Guinness Book of World Records (p. 94), "The world's tallest mountain measured from its submarine base (3,280 fathoms) in the Hawaiian Trough to peak is Mauna Kea ... with a combined height of 33,476 ft, of which 13,796 ft are above sea level."

2/ Guinness (p. 94) 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 mi and 53 mi."

Source: U.S. National Cartographic Information Center, data provided October 11, 1978; U.S. Geological Survey topographic maps; E. D. Baldwin, 1883 Molokini figure on Hawaiian Government Survey Reg. Map No. 1276; National Geodetic Survey 1969 figure for Kaala, provided by U.S. Geological Survey, Honolulu office, July 23, 1984; U.S.S. Tanager survey, 1923 (for Pearl and Hermes Atoll). Data compiled with assistance of Lee S. Motteler, Bernice P. Bishop Museum.

Table 162.-- MAJOR STREAMS, BY ISLANDS

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-Waiialala 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): <sup>1/</sup>		
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 .....	185
Maui .....	Iao Stream .....	50
Molokai .....	Wailau Stream .....	30
Oahu .....	Waikele Stream .....	25
Kauai .....	Hanalei River .....	150

<sup>1/</sup> Estimated on basis of drainage area rather than stream runoff. Other major streams include Wailoa River, Hawaii (1/2-mile long); Honokohau Stream (9.4 miles long) and Iao Stream (5), both on Maui; Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalaua Stream (11.8), Nuuanu Stream (4), and Ala Wai Canal (1.9), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

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 163.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1987

Island and lake	Type	Elevation (feet)	Area 1/ (acres)	Maximum depth (feet)
<b>Hawaii:</b>				
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
<b>Maui:</b>				
Kanaha Pond .....	Marsh .....	(SL)	41	<3
Kealia Pond .....	Marsh .....	(SL)	500	(NA)
Violet Lake .....	Bog pool .....	5,020	0.02-1	(NA)
Wai Anapanapa .....	Pond .....	6,790	0.2	(NA)
Waieleele .....	Pond .....	6,690	0.5	21
<b>Molokai:</b>				
Kauhako .....	Pool .....	(SL)	0.9	814
Kualapuu Reservoir ..	Reservoir .....	821	100	50
Meyer Lake .....	Impoundment ..	2,021	6-10	5
<b>Oahu:</b>				
Kaelepulu Pond .....	Lake .....	(SL)	198	(NA)
Kawainui Marsh .....	Marsh .....	(SL)	1,000	(NA)
Salt Lake .....	Lake .....	(SL)	49	2
Wahiawa Reservoir ...	Reservoir .....	842	302	85
<b>Kauai:</b>				
Nomilu Fishpond .....	Pond .....	(SL)	20	66
Waita Reservoir .....	Reservoir .....	241	424	23
<b>Niihau:</b>				
Halalii Lake .....	Playa .....	(SL)	841-865	(NA)
Halulu Lake .....	Playa .....	(SL)	182-371	(NA)
<b>Laysan:</b>				
Unnamed closed lagoon	Closed lagoon	(SL)	161	16

NA Not available.

SL Sea level.

1/ Ranges shown for Violet Lake, 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 163.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1987 - 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, data provided May 29, 1987; 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 (EIS No. 116, August 1981).

Table 164.-- MAJOR NAMED WATERFALLS, BY ISLANDS

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/ Sheer drop 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 165.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more <sup>1/</sup>	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	67.0
Niihau .....	18	6	3	2.4	100.0
Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii .....	12.0	68.4	3,950	76.0	4.0
Maui .....	24.9	41.4	2,390	38.5	36.0
Kahoolawe .....	38.9	0	600	60.0	9.0
Lanai .....	24.8	6.3	1,140	61.0	16.0
Molokai .....	37.3	17.8	1,150	53.0	26.0
Oahu .....	45.3	4.6	860	42.5	45.5
Kauai .....	35.6	24.0	1,380	33.5	50.5
Niihau .....	78.2	0	530	68.0	12.5

<sup>1/</sup> 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 (1986 edition, p. 99) 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 166.-- VOLCANIC ERUPTIONS: 1969 TO 1987

[Complete through July 14, 1987. 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 during the past decade and included in this table]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location <sup>1/</sup>	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
<b>Mauna Loa:</b>						
1975: July 5	301	<1	S	13,000	5.2	35,000
1984: March 25	104	22	S, ER	13,200-9,400	11 <sup>±</sup>	230,000
<b>Kilauea:</b>						
1969: Feb. 22	4.0	6	ER	3,100-2,900	2.3	22,000
May 24	2.0	867	ER	3,150	19.3	242,000
1971: Aug. 14	-	<1	C	3,660-3,600	0.8	12,400
Sept. 24	-	5	C, SWR	3,740-2,730	1.5	10,500
1972: Feb. 4	4.3	455	ER	3,150	13.5	163,800
1973: May 5	-	<1	ER	3,340-3,250	0.1	1,600
Nov. 10	-	30	ER	3,250-2,900	0.4	3,700
Dec. 12	0.1	203	ER	3,150	3.1	39,300
1974: July 19	-	3	C, ER	3,600-3,520	1.2	9,000
Sept. 19	2.0	<1	C	3,680	0.4	14,000
Dec. 31	3.4	<1	C	3,600	2.9	19,600
1975: Nov. 29	11.0	<1	C	3,600-3,520	0.1	300
1977: Sept. 13	21.5	18	ER	2,080-1,600	3.0	45,000
1979: Nov. 16	26.3	1	ER	3,270-3,200	0.1	800
1982: April 30	29.5	<1	C	3,630	0.1	260
Sept. 25	4.9	<1	C	3,620	0.3	3,900
1983: Jan. 3 <sup>2/</sup>	3.3	1,652	ER	2,560-2,120	19.3	965,000

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

<sup>2/</sup> Still in progress, July 14, 1987. As of that time, there had been 48 separate episodes.

Source: Gordon A. Macdonald and Douglass H. Hubbard, Volcanoes of the National Parks in Hawaii, 8th edition (Hawaii Natural History Association, 1982), pp. 10, 19, 34, and 58, as updated by the staff of the Hawaiian Volcano Observatory, July 14, 1987.

Table 167.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1957 TO 1987

[Complete to July 30, 1987]

Date and time	Location	Magnitude (Richter Scale)
1957: Aug. 18 .....	E. of Hana, Maui .....	5.6
1961: Sept. 25 .....	Hawaii .....	5.75-6
1962: June 27 .....	Hawaii .....	6.1
June 28 .....	Hawaii .....	5.75
1963: Oct. 23 .....	Hawaii .....	5.4
1964: Oct. 11 .....	W. of S. Kona .....	5.3
Dec. 10 .....	Hawaii .....	5
1969: May 9 .....	Hawaii .....	5
1971: Aug. 1 .....	S.E. of Hawaii .....	4.5-5
1972: Dec. 23 .....	W. of Kona .....	5
1973: Apr. 26 .....	Hawaii .....	6.2
Oct. 9 .....	Hawaii .....	4.8-5
1974: Nov. 30 .....	Hawaii .....	5.5-6
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

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, A Study of Past Earthquakes, Iseismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii (University of Hawaii, Center for Engineering Research, June 15, 1972), pp. 16-19. 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, July 31, 1987.

Table 168.-- EARTHQUAKES WITH HONOLULU INTENSITIES OF  
V OR GREATER: 1859 TO 1983

[Based on data for 113 earthquakes observed in Honolulu,  
from 1859 through 1983]

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
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. 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 like a heavy ball striking the walls. Standing motor cars rock. Windows, dishes, doors rattle. Glasses clink. Crockery clashes. In the upper range of IV wooden walls and frame creak.

V. Felt outdoors; direction estimated. Sleepers wakened. Liquids disturbed, some spilled. Small unstable objects displaced or upset. Doors swing, close, open. Shutters, pictures move. Pendulum clocks stop, start, change rate.

VI. Felt by all. Many frightened and run outdoors. Persons walk unsteadily. Windows, dishes, glassware broken. Knickknacks, books, etc., off shelves. Pictures off walls. Furniture moved or overturned. Weak plaster and masonry cracked. Small bells ring (church, school). Trees, bushes shaken (visibly, or heard to rustle).

VII. Difficult to stand. Noticed by drivers of motor cars. Hanging objects quiver. Furniture broken. Damage to weak masonry, including cracks. Weak chimneys broken at roof line. Fall of plaster, loose bricks, stones, tiles cornices. Some cracks in ordinary masonry. Waves on ponds; water turbid with mud. Small slides and caving in along sand or gravel banks. Large bells ring. Concrete irrigation ditches damaged.

Source: Doak C. Cox, "Earthquake Experience and Seismic Risk in Honolulu" (paper presented to the Hawaiian Historical Society, Honolulu, March 6, 1986), and letter dated June 23, 1986.

Table 169.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:  
1946 TO 1987

[Correct to August 20, 1987]

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 170.-- MAJOR DAMS: 1987

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
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 171.-- 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 172.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS:  
1982 TO 1986

Subject and geographic area	1982	1983	1984	1985	1986
NUMBER OF SERVICES, JUNE 30					
State total .....	179,648	181,980	185,044	188,271	192,261
City and County of Honolulu	126,400	127,540	129,080	130,884	132,775
Honolulu 1/ .....	58,159	58,173	58,462	58,801	59,237
Rest of Oāhu .....	68,241	69,367	70,618	72,083	73,538
Hawaii County .....	23,682	24,218	24,834	25,315	26,031
Kauai County .....	10,823	11,049	11,501	11,872	12,360
Maui County .....	18,743	19,173	19,629	20,200	21,095
Maui .....	17,607	18,007	18,413	18,964	19,807
Molokai .....	1,136	1,166	1,216	1,236	1,288
CONSUMPTION 2/ (MILLION GALLONS)					
State total .....	56,719	59,724	63,670	65,298	61,432
City and County of Honolulu	42,646	44,535	47,389	48,308	44,125
Honolulu 1/ .....	24,317	25,658	26,636	27,218	24,454
Rest of Oāhu .....	18,329	18,877	20,753	21,090	19,671
Hawaii County .....	4,753	5,066	5,409	5,666	6,039
Kauai County .....	2,805	3,240	3,492	3,531	3,667
Maui County .....	6,515	6,883	7,380	7,793	7,601
Maui .....	6,235	6,592	7,073	7,493	7,314
Molokai .....	280	292	307	300	287

1/ Maunalua to Moanalua.

2/ Year ended June 30.

Source: Data compiled by Hawaii State Department of Planning 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 173.-- POLLUTION ABATEMENT COSTS AND EXPENDITURES:  
1984 AND 1985

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

Subject	1984	1985
Total pollution abatement capital expenditures .	6.8	4.9
Gross annual cost of pollution abatement .....	10.8	13.3
Payments to government units .....	0.8	0.6
Operating costs, total .....	10.0	12.6
Cost recovered through abatement activities ....	0.6	0.4
Operating costs by form of pollutants abated:		
Air .....	2.3	3.7
Water .....	5.1	5.3
Solid waste, hazardous .....	0.3	0.2
Solid waste, non-hazardous .....	2.3	3.4
Operating costs by kind of cost:		
Depreciation .....	1.6	2.0
Labor .....	2.4	2.9
Materials and supplies .....	3.3	4.1
Services, equipment leasing, and other costs .	2.7	3.6

Source: U.S. Bureau of the Census, "Pollution Abatement Costs and Expenditures, 1984," Current Industrial Reports, MA-200(84)-1 (May 1986), pp. 16, 34, and 49; "Pollution Abatement Costs and Expenditures, 1985," Current Industrial Reports, MA-200(85)-1 (April 1987), pp. 18, 37, and 52.

Table 174.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1983 TO 1986

Island and beach	Number of samples, 1986	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1983	1984	1985	1986
Hawaii (Hilo Shoreline Area):					
Exit of Ice Pond .....	10	27.5	15.6	78.2	15.1
Leileiwi Beach Park .....	9	121.1	109.7	182.1	116.0
Onekahakaha .....	9	6.4	5.6	8.8	7.4
Puhi Bay No. 3 .....	11	12.6	12.9	286.1	48.8
Hawaii (Kona Shoreline Area):					
Hapuna Beach .....	7	15.2	5.3	3.9	3.6
Kahaluu Beach .....	7	6.4	2.6	2.8	2.8
Kealakekua Bay (curio stand) .....	8	3.9	3.3	4.6	3.9
Kealakekua Bay (canoe landing) ...	8	4.4	4.4	3.9	4.7
Magic Sands Beach .....	7	3.4	5.4	4.7	2.3
Puako Beach Lots (middle) .....	7	21.4	9.5	11.6	4.5
Puako Beach Lots (south end) .....	7	21.2	46.2	20.6	14.1
Spencer Beach Park .....	7	4.7	9.8	6.7	7.6
Maui:					
Hukilau Hotel shoreline .....	7	3.3	3.0	7.4	3.7
Oahu:					
Ala Moana Park (ewa end) .....	20	6.8	5.7	6.7	3.6
Ala Moana Park (center) .....	11	2.0	2.7	3.3	2.5
Ala Moana Park (diamond head) .....	11	6.2	3.1	7.9	3.8
Elks Club Beach .....	9	4.0	5.4	6.2	2.3
Ewa Beach .....	7	4.4	4.8	5.1	5.7
Ft. DeRussy Beach .....	9	5.6	6.8	5.0	4.6
Gray's Beach .....	17	5.7	5.4	7.3	6.2
Hanauma Bay .....	9	6.8	9.5	17.7	5.4
Kahana Park Beach .....	9	24.0	58.2	54.1	23.1
Kahanamoku Beach .....	10	3.4	2.4	3.7	3.2
Kahanamoku Lagoon (diamond head) .	17	23.3	16.8	77.0	12.1
Kailua Bay outfall shoreline .....	9	2.0	3.8	2.8	3.2
Kailua Beach Park .....	9	3.1	2.5	5.0	3.9
Kokokahi Pier .....	9	29.8	12.1	114.5	40.6
Kuhio Beach .....	9	9.7	8.4	22.5	7.8
Public Bath Beach .....	17	2.5	3.3	4.8	4.0
Tavern Beach .....	9	4.4	6.1	9.1	4.6
Sand Island, Pt. No. 3 .....	10	2.9	2.3	4.2	2.1

Continued on next page.

Table 174.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1983 TO 1986 - Con.

Island and beach	Number of samples, 1986	Fecal coliform density $\frac{1}{}$ (geometric mean, MPN/100 ml)			
		1983	1984	1985	1986
Kauai:					
Brennecke Beach .....	2	4.1	2.5	2.0	2.0
Hanalei Bay Landing .....	3	86.0	42.8	51.2	76.9
Poipu Beach .....	2	2.0	4.4	2.0	2.0

MPN Most probable number.  
 $\frac{1}{}$  The geometric mean standard for fecal coliform density is 200 MPN per 100 ml.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1987.

Table 175.-- LITTER ALONG OAHU HIGHWAYS: 1978 TO 1985

Measure	1978	1979	1981	1985
Visible litter items per mile:				
35 sites .....	2,128	1,369	1,471	1,110
52 sites $\frac{1}{}$ .....	2,135	1,452	1,576	1,261
Visible beer/soft drink containers per mile:				
35 sites .....	367	187	93	60
52 sites $\frac{1}{}$ .....	292	148	71	51
Indiscriminate dumps per 1,000 miles of driving ....	(NA)	8.2	15.7	19.6
Abandoned vehicles per 1,000 miles of driving .....	(NA)	4.9	23.6	57.4

NA Not available.

$\frac{1}{}$  1978 and 1979 estimated.

Source: Daniel B. Syrek, Hawaii Litter: 1985 (Sacramento: The Institute for Applied Research, for the Hawaii State Department of Health, Litter Control Office, May 23, 1985).

Table 176.-- REFUSE AND SEWAGE STATISTICS FOR OAHU: 1980 TO 1986

[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 .....	686,438	221,774	464,664	36,885
1981 .....	708,164	258,600	449,634	35,945
1982 .....	669,120	244,826	424,294	34,830
1983 .....	645,889	244,812	401,077	37,395
1984 .....	707,473	235,767	471,706	38,283
1985 .....	655,790	216,685	439,105	37,817
1986 .....	729,611	252,081	477,530	37,608

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

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 177.-- AIR QUALITY IN DOWNTOWN HONOLULU:  
1976 TO 1986

[Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii]

Year	Annual arithmetic means ( $\mu\text{g}/\text{m}^3$ )	
	Total suspended particulates	Sulfur oxides
1976 .....	34	23
1977 .....	31	17
1978 .....	29	18
1979 .....	32	22
1980 .....	37	18
1981 .....	40	19
1982 .....	29	11
1983 .....	26	<5
1984 .....	25	<5
1985 .....	24	<5
1986 .....	25	<5
Standards: <u>1/</u>		
Primary .....	75	80
Secondary .....	60	...

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 the effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1987.

Table 178.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1986

[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>	7	66	26	<5	10	<5
Downtown Honolulu	11	61	25	<5	6	<5
Liliha .....	17	60	32	...	...	...
Pearl City .....	17	65	30	...	...	...
Waimanalo .....	10	72	28	...	...	...
Maui:						
Kihei <u>2/</u> .....	32	167	61	...	...	...
Hawaii:						
Kona <u>3/</u> .....	4	28	16	<5	12	<5
Kauai:						
Lihue <u>1/</u> .....	11	42	20	...	...	...

1/ Particulate data from PM<sub>10</sub> samplers (measuring inhalable particulates of less than 10 $\mu$ ).

2/ Site re-established in September 1986. Data based on four months of sampling.

3/ Site discontinued in September 1986. Data based on eight months of sampling.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1987.

Table 179.-- SOURCES OF AIR POLLUTANT EMISSIONS, BY COUNTIES: 1980

[Percent distributions for the sums of weights of sulfur oxides, particulate matter, carbon monoxide, hydrocarbons, and nitrogen oxide emissions]

Source	State total	Hawaii	Honolulu	Kauai	Maui
All sources .....	100.0	100.0	100.0	100.0	100.0
Transportation .....	43.0	38.1	47.4	40.6	35.8
Motor vehicles .....	40.1	36.2	43.9	35.7	33.1
Aircraft .....	2.3	1.1	2.9	2.3	1.6
Vessels .....	0.6	0.8	0.6	2.6	1.1
Fuel combustion in					
stationary sources .....	29.7	34.9	26.7	32.2	35.3
Steam electric .....	23.1	19.8	24.6	18.5	22.4
Gas utilities .....	0.1	(N)	0.1	(N)	(N)
Agricultural fuel .....	6.5	15.1	2.0	13.7	12.9
Industrial process losses ..	14.6	7.7	20.3	3.2	3.5
Refinery .....	4.8	(N)	6.5	(N)	(N)
Petroleum storage .....	0.7	1.1	0.8	(N)	0.5
Metalurgical .....	0.1	(N)	0.1	(N)	(N)
Mineral products .....	6.9	3.9	10.8	0.9	1.1
Off-highway const., farms and industries .....	2.1	2.7	2.1	2.3	1.9
Municipal incinerator .....	0.9	(N)	1.3	(N)	(N)
Agricultural burning .....	11.7	19.3	4.3	24.2	25.4

N Less than 0.05 percent.

Source: Hawaii State Department of Health, Environmental Permits Branch, information provided April 30, 1987.



Table 180.-- NOISE LEVELS DURING DAYLIGHT HOURS IN SPECIFIED NEIGHBORHOODS  
ON OAHU: 1981-1982

Neighborhood	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
Aina Haina ....	45.6	42.1	39.5	53.5	46.2	43.2
Aina Koa .....	48.1	43.1	40.1	52.9	45.8	42.5
Downtown .....	57	55	54	60	57	55
Hawaii Kai ....	46.5	41.6	38.9	53.5	46.9	42.9
Kahala .....	48.0	44.5	42.4	-	-	-
Kaimuki .....	51.8	44.6	41.7	57.2	47.6	43.3
Kalihi .....	53.5	49.6	47.4	-	-	-
Kapahulu .....	47.2	45.0	42.0	-	-	-
Kapalama-Liliha	46.4	45.1	42.5	-	-	-
Kuliouou .....	48.6	45.9	43.4	52.5	47.9	45.4
Liliha .....	46	45	43	-	-	-
Makiki .....	52.7	46.9	45.3	56.5	50.5	48.6
Manoa .....	45.4	42.6	40.7	51.5	46.0	43.4
Moiliili .....	53.7	50.2	46.9	60.0	53.4	48.9
Nuuanu .....	46.6	43.6	40.8	-	-	-
Palolo .....	49.3	44.6	41.6	65.0	52.4	45.4
Pawaa .....	59.8	57.1	55.2	60.8	57.1	54.7
Salt Lake .....	56	52	49	-	56	51
Waikiki .....	57.8	55.4	54.1	61.6	57.5	55.3
Waialae Iki ...	46.4	43.1	40.6	54.6	44.8	41.7
Aiea .....	58	54	52	59	56	54
Halawa .....	52	46	44	55	50	47
Hauula .....	53	48	45	56	51	47
Kailua .....	49.2	45.5	42.9	54.9	49.6	45.2
Kaneohe .....	43.8	40.9	38.9	49.7	43.5	40.9
Mililani .....	44	37	34	53	46	41
Nanakuli .....	54	50	47	58	52	48
Pearl City ....	51	47	45	55	50	48
Wahiawa .....	47.1	44.7	42.4	51.8	47.3	43.9
Waimanalo .....	53	50	48	55	51	49
Waipahu .....	54.1	50.5	47.4	58.8	53.6	50.4

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, Noise and Radiation Branch, records.

Table 181.-- 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	
<b>Hawaii:</b>						
Hilo Airport .....	30	71.1	75.8	53	94	129
Hawaii Volcanoes Nat. Park Hdq. .	3,970	57.6	63.2	37	85	101
Naalehu .....	675	70.2	75.2	(NA)	(NA)	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
<b>Maui:</b>						
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	19
Lahaina .....	45	71.5	78.0	52	93	15
<b>Molokai:</b>						
Kaunakakai .....	10	(NA)	(NA)	(NA)	(NA)	14
Molokai Airport .....	450	70.2	77.6	48	90	27
<b>Lanai:</b>						
Lanai City .....	1,620	65.8	72.8	46	88	37
<b>Oahu:</b>						
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 MCAS .....	10	72.9	79.1	58	90	40

Continued on next page.

Table 181.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coollest month	Warmest month	Lowest	Highest	
Oahu (con.):						
Kahuku .....	25	71.6	78.8	49	95	40
Wheeler AFB .....	845	68.2	75.5	52	89	40
Waianae .....	10	72.1	79.7	45	96	20
Kauai:						
Kilauea (town) .....	315	68.7	75.6	49	94	68
Lihue Airport .....	100	71.2	79.1	50	90	44
Poipu (Makahuena Pt.) .....	50	72.4	79.4	50	93	35
Kokee (Kanalohuluhulu) .....	3,600	54.9	65.5	31	83	70
Waialeale .....	5,075	(NA)	(NA)	(NA)	(NA)	444
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 September 2, 1987.

Table 182.-- 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 .....	71.1	71.5	72.6	71.2
Warmest month .....	75.8	79.2	81.0	79.1
Annual .....	73.5	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	57	56	66
Wind speed (m.p.h.):				
Mean .....	7.1	12.8	11.5	12.0
Fastest observation, 1 minute <u>1</u> /	35	44	46	65
Percent of possible sunshine .....	41	68	68	56
Mean number of days:				
Clear .....	35.9	130.5	87.5	53.7
Partly cloudy .....	128.8	144.3	179.3	179.8
Cloudy .....	200.6	90.5	98.4	131.8
Precipitation .01 inch or more .	278.3	97.4	99.8	200.9

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, 1986 for Hilo, Kahului, Honolulu, and Lihue.

Table 183.-- 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	72.8	88	53	2.72	13.68	0.06	6.88
March .....	81.4	67.3	74.3	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	90	60	1.21	7.23	0.05	3.44
June .....	86.2	71.9	79.1	91	65	0.49	2.46	T	2.28
July .....	87.1	73.1	80.1	92	67	0.54	2.01	0.03	1.38
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	58	3.22	14.72	0.03	9.15
December ..	81.4	66.5	74.0	89	54	3.43	12.09	0.06	8.14
Annual ....	84.2	69.7	77.0	94	53	23.47	20.79	T	17.07

Continued on next page.

Table 183.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent)		Wind (miles/hour)		Percent of possible sunshine	Mean sky cover, sunrise to sunset <u>2/</u>	Mean number of days		
	8 A.M.	2 P.M.	Mean speed	Fastest obs. <u>1/</u>			Sunrise to sunset		Precip. .01 inch or more
							Clear	Cloudy	
Jan. ...	82	62	9.7	32	62	5.4	9.4	8.8	9.9
Feb. ...	78	59	10.4	30	64	5.6	7.5	8.1	9.3
Mar. ...	73	58	11.6	30	68	5.9	7.2	9.7	9.1
Apr. ...	70	56	12.1	31	67	6.2	5.4	10.6	9.2
May ....	67	54	12.0	30	69	6.0	6.3	9.5	7.2
June ...	67	53	12.8	26	70	5.7	5.7	6.9	5.9
July ...	68	52	13.4	28	73	5.3	7.5	5.4	7.5
Aug ....	69	53	13.1	28	75	5.3	7.8	6.4	6.4
Sept. ..	68	52	11.4	26	75	5.3	7.9	6.0	7.1
Oct. ...	69	55	10.7	25	68	5.6	7.4	8.4	8.9
Nov. ...	75	59	10.8	46	61	5.7	7.0	9.3	9.3
Dec. ...	79	61	10.6	29	59	5.5	8.4	9.2	9.9
Ann. ...	72	56	11.5	46	68	5.6	87.5	98.4	99.8

T Trace amount.

1/ Fastest observation, 1 minute, during 6-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, 1986.

Table 184.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY,  
1976 TO 1986

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93
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
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	Fastest mile <u>1</u> /		
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89
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

1/ 1984, 1985, and 1986 figures refer to peak gust.

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 185.-- 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>I/</u> .....	80.8
Lowest average annual rainfall (inches) .....	.....	Kawaihae .....	8.7
Highest average annual rainfall (inches) ....	.....	Waialeale .....	444
Single events:			
Lowest temperature of record (°F.) .....	Jan. 20, 1970 ...	Mauna Kea summit <u>2/</u>	1.4
Highest temperature of record (°F.) .....	April 27, 1931 ..	Pahala .....	100
Lowest annual rainfall of record (inches) ...	1953 .....	Kawaihae .....	0.2
Highest annual rainfall of record (inches) ..	1982 .....	Waialeale .....	666
Highest wind speed of record (m.p.h.) .....	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 September 2, 1987.



Table 186.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY,  
1976 TO 1986

[In inches]

Year	Hawaii			Maui		
	Hilo Airport	Wai-me <u>a</u> <sup>1/</sup>	Kona Village	Kahului Airport	Kihei	Lahaina
1976 ...	114.67	11.10	7.04	12.83	8.84	8.86
1977 ...	90.38	5.42	3.40	11.50	7.88	8.28
1978 ...	119.09	14.83	8.68	19.15	9.91	11.97
1979 ...	158.77	29.23	16.00	26.82	21.32	20.85
1980 ...	127.74	28.31	16.90	27.87	20.27	22.69
1981 ...	89.91	13.30	7.02	12.85	9.72	8.13
1982 ...	170.36	56.29	26.88	34.04	29.11	34.36
1983 ...	68.09	12.95	8.51	13.05	8.60	9.70
1984 ...	100.08	8.87	8.15	8.56	5.64	6.30
1985 ...	112.96	16.58	8.60	20.00	13.86	13.48
1986 ...	171.03	34.67	12.41	18.39	7.25	7.38

Year	Oahu			Kauai		
	Waikiki	Univ. of Hawaii	Nuuanu Res. 4	Koloa	Lihue Airport	Princeville
1976 ...	13.59	26.83	86.44	62.60	32.83	109.34
1977 ...	15.73	32.83	88.96	52.51	40.34	84.55
1978 ...	27.18	41.56	124.42	70.64	39.11	130.82
1979 ...	26.22	46.74	111.56	55.98	37.09	93.19
1980 ...	28.50	48.52	140.70	78.78	54.64	130.55
1981 ...	19.09	31.71	112.46	66.26	38.14	130.72
1982 ...	39.96	57.98	168.16	96.75	74.40	241.22
1983 ...	9.80	19.77	74.32	50.69	16.40	46.93
1984 ...	19.35	33.13	71.32	48.82	30.12	71.58
1985 ...	25.61	42.19	101.20	48.70	28.91	55.22
1986 ...	22.39	32.39	120.60	64.64	27.99	90.28

NA Not available.

<sup>1/</sup> Lalamilo Field Office.

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 187.-- MAJOR HURRICANES: 1950 TO 1987

[Complete to August 24, 1987]

Hurricane name	Date <sup>1/</sup>	Islands most affected	Maximum winds ashore (m.p.h.)		Deaths	Property damage (\$1,000)
			Sus-tained	Gusts		
Hiki .....	Aug. 12-16, 1950	Kauai .....	68	(NA)	1	200
Della .....	Sept. 1-17, 1957	French Frig. Shoals	82	109	-	Minor
Nina .....	Nov. 29-Dec. 7, 1957	Kauai .....	92	(NA)	4	1,056
Dot .....	Aug. 1-8, 1959	Kauai .....	81	103	-	5,500+
Fico .....	July 17-28, 1978	Hawaii .....	(NA)	58+	-	188
Iwa .....	Nov. 19-25, 1982	Kauai, Oahu .....	65	117	-	234,000

NA Not available.

<sup>1/</sup> Total duration, including period outside Hawaiian waters.

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; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 188.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS,  
BY MONTHS

Month	Trade wind frequency <sup>1/</sup> (percent)	Expected days of strong trade winds <sup>2/</sup>	Highest surf <sup>3/</sup> (average number of days)		Water temperature <sup>4/</sup> (°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. ...	65	92	71	110	78.6	74.8

<sup>1/</sup> Mean monthly frequency of trade winds in Hawaiian waters.

<sup>2/</sup> Expected number of hazardous days in Hawaiian waters due to strong trade winds.

<sup>3/</sup> 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.

<sup>4/</sup> 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.

Table 189.-- 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 190.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

[Hawaiian Standard Time]

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo .....	6:24	5:42	6:09	6:51
Honolulu .....	6:35	5:50	6:21	7:05
Lihue .....	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo .....	6:32	7:02	6:16	5:47
Honolulu .....	6:43	7:16	6:27	5:55
Lihue .....	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo .....	12:08	13:20	12:07	10:56
Honolulu .....	12:08	13:26	12:06	10:50
Lihue .....	12:08	13:28	12:07	10:48

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

Table 191.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE  
HONOLULU AREA: 1983 TO 1986

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

Species <u>1/</u>	1983	1984	1985	1986
All species:				
Species .....	46	46	51	50
Individual birds ..	22,279	25,809	28,803	28,690
Endemic species:				
'Apapane .....	106	96	66	85
Hawaiian Coot .....	135	40	23	23
Hawaiian Stilt .....	110	87	118	103
Oahu 'Amakihi .....	140	59	125	110
Indigenous species:				
Great Frigatebird .....	37	17	194	6
Red-footed Booby .....	370	624	531	402
Introduced species:				
Cattle Egret .....	384	477	656	988
Common Myna .....	3,080	3,611	3,586	5,420
House Sparrow .....	2,518	2,169	2,793	2,633
Japanese White-eye .....	1,706	1,235	1,628	1,078
Red-vented Bulbul .....	2,195	2,051	1,972	2,023
Spotted Dove .....	1,606	2,650	2,774	2,533
Zebra (Barred) Dove .....	3,840	7,624	7,299	7,860
Migratory species:				
Lesser Golden-Plover ...	1,747	1,359	1,846	1,482
Ruddy Turnstone .....	269	295	268	317

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, The 'Elepaio (monthly).

Table 192.-- HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA, BY TYPE OF SPECIES: DECEMBER 1986

Type of species <u>1/</u>	Number of species	Number of individuals
All species .....	50	28,690
Endemic .....	7	354
Indigenous .....	7	496
Introduced .....	29	26,013
Migratory .....	7	1,827

1/ For definitions, see preceding table, footnote 1.  
Source: Hawaii Audubon Society, "Honolulu Christmas Count -- 1986," 'Elepaio, May 1987, pp. 51-53.

Table 193.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1982 TO 1986

[As of June 30]

Location	1982	1983	1984	1985	1986
Along City and County streets and highways <u>1/</u> ...	113,489	114,320	117,133	118,437	120,029
In City and County parks ....	96,296	96,504	96,873	96,727	96,896

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

Table 194.-- THREATENED, ENDANGERED, AND EXTINCT SPECIES OF NATIVE FAUNA AND FLORA: NOVEMBER 1986

Type of fauna or flora	Native species	Candidate <u>1/</u>	Threatened <u>1/</u>	Endangered <u>1/</u>	Extinct <u>2/</u>
Land mammals .....	1	-	-	1	-
Marine mammals .....	18	-	-	8	-
Reptiles and amphibians ..	5	-	3	2	-
Birds .....	87	-	1	29	23
Freshwater fish .....	6	1	-	-	-
Invertebrates .....	(3/)	150	-	41	4/ 88
Plants .....	2,734	787	-	19	<u>47</u> 100

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 records; 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.

## 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 and industrial parks in Section 22.

Out of the 4,112,000 acres in the State, 333,000 are in cropland and 974,000 in pastureland. Other major categories include forestland, with 1,473,000 acres, urban and built-up, with 126,000, and miscellaneous nonfarm, with 852,000. On Oahu, land in residential use increased from 22,600 acres in 1969 to 28,800 in 1986; during the same 17-year span, agricultural land declined from 88,900 to 77,100 acres. For the State as a whole, the Land Use Commission has zoned 165,000 acres as urban, 1,968,000 as conservation, 1,969,000 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 29.7 percent, and private owners (chiefly large estates) have 61.9 percent. Total Federal holdings reported by the General Services Administration in 1985 came to 712,000 acres, exclusive of leased land (9,600 acres); most of the Federal land was in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 188,000 acres, divided among 4,346 lessees. Total land parcels in the State as of 1987 numbered 409,000.

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 330,000 acres to 712,000.

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 and Economic Development, 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, 10, 23, and 24 of the Statistical Abstract of the United States: 1987.



Table 195.-- LAND OWNERSHIP, COVER, OR USE AND TYPES OF WATER AREAS,  
BY COUNTIES: 1982

[1,000 acres]

Category	State total <u>1/</u>	City and County of Honolulu <u>1/</u>	Other counties		
			Hawaii	Kauai	Maui <u>2/</u>
Total area .....	4,141.3	397.2	2,582.5	403.0	758.6
Federal land .....	341.5	51.1	231.9	2.6	55.9
Nonfederal land .....	3,770.6	330.6	2,349.9	394.0	696.1
Rural land .....	3,609.6	268.0	2,288.7	379.0	673.9
Cropland .....	333.2	74.6	85.2	82.3	91.1
Pastureland .....	974.0	78.1	621.7	48.8	225.4
Rangeland .....	0.0	0.0	0.0	0.0	0.0
Forest land .....	1,473.5	104.3	891.7	230.7	246.8
Minor land cover/uses <u>3/</u> ..	828.9	11.0	690.1	17.2	110.6
Urban and built-up land .....	125.9	56.9	42.2	9.8	17.0
Rural transportation .....	22.8	4.7	10.3	3.1	4.7
Small water areas .....	12.3	1.0	8.7	2.1	0.5
Water bodies <u>4/</u> .....	2.2	0.5	1.3	0.3	0.1
Perennial streams <u>5/</u> .....	10.1	0.5	7.4	1.8	0.4
Census water <u>6/</u> .....	29.2	15.5	0.7	6.4	6.6

1/ Excludes the Northwestern Hawaiian Islands, legally part of the City and County of Honolulu.

2/ Includes Kalawao County.

3/ Includes farmsteads and ranch headquarters (State total, 3.5), other land in farms (5.6), mines, quarries, and pits (0.0), small built-up areas (2.2), and other rural lands (817.6, of which 687.7 were in Hawaii County).

4/ Includes a State total of 0.8 in bodies less than 2 acres and 1.4 in bodies of 2 to 40 acres.

5/ Includes a State total of 4.1 in streams less than 66 feet wide and 6.0 in streams 66 to 660 feet wide.

6/ Larger water bodies not included in land area totals, as measured by the Bureau of the Census (Pearl Harbor, Kaneohe Bay, etc.).

Source: U.S. Department of Agriculture, Soil Conservation Service, 1982 National Resources Inventory, tables 1c, 2c, 7c, and 8c for Hawaii (unpublished).

Table 196.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1985 AND 1986

Subject	Dec. 1985: Oahu total	Dec. 1986		
		Oahu total	Honolulu District	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses .....	375,408	375,647	54,144	321,503
Single family .....	25,837	26,153	8,423	17,729
Multi-family .....	2,555	2,645	1,103	1,541
Industrial .....	10,000	10,370	4,234	6,136
Commercial .....	4,340	4,330	1,777	2,553
Hotel .....	223	300	128	172
Agriculture .....	77,240	77,087	308	76,780
Usable vacant .....	36,573	36,385	2,903	33,483
Other .....	218,642	218,376	35,268	183,108
STRUCTURES BY YEAR BUILT <u>1/</u>				
All structures .....	146,192	147,761	63,799	83,962
Before 1930 .....	8,269	8,102	6,185	1,917
1930 to 1939 .....	9,744	9,622	6,117	3,505
1940 to 1949 .....	16,137	16,007	9,129	6,878
1950 to 1959 .....	30,764	30,649	14,789	15,860
1960 to 1969 .....	41,619	41,572	15,747	25,825
1970 to 1979 .....	28,296	28,282	8,217	20,065
1980 and later .....	11,363	13,527	3,615	9,912
DWELLING UNITS BY TYPE <u>1/</u>				
All dwelling units .....	253,661	257,485	146,062	111,423
Single family and duplex .....	135,102	136,529	56,860	79,669
Low density multi-family .....	11,669	13,466	1,015	12,451
High density multi-family .....	106,890	107,490	88,187	19,303

1/ Data exclude structures on military bases.

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

Table 197.-- LAND PARCELS, BY COUNTIES: 1985 TO 1987

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1985 .....	398,148	208,466	47,076	120,177	22,429
1986 .....	404,018	212,868	47,321	121,349	22,480
1987 .....	409,069	215,207	48,568	122,180	23,114

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

Table 198.-- CEMETERIES, CHURCHES, HOSPITALS, AND SCHOOLS, BY COUNTIES: 1987

[Privately-owned parcels exempt from real property taxes]

Category	State total	Honolulu	Maui	Hawaii	Kauai
Cemeteries .....	134	49	33	44	8
Churches .....	1,371	759	203	275	134
Hospitals .....	75	62	10	-	3
Schools .....	129	95	5	26	3

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions, 1987-1988 Tax Year, State of Hawaii (July 1987), p. 6.

Table 199.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: JULY 1, 1987

[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]

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> .....	4,040,157	372,837	748,606	2,520,205	398,509
Improved residential ...	61,537	38,708	6,417	12,209	4,203
Apartment .....	5,696	2,472	1,052	1,604	568
Commercial .....	5,373	2,826	814	1,256	477
Industrial .....	19,938	10,316	1,770	6,550	1,302
Agricultural .....	1,939,702	135,598	404,283	1,196,373	203,448
Conservation .....	1,948,658	150,113	328,120	1,286,449	183,976
Hotel and resort .....	2,274	510	869	520	375
Unimproved residential .	56,979	32,294	5,280	15,245	4,160

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 200.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1987

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. 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
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
1975: February .	4,111,500	148,921	1,976,996	1,976,695	8,888
1977: January ..	4,111,500	149,263	1,976,996	1,976,327	8,914
1978: January ..	4,111,500	151,012	1,976,931	1,974,340	9,217
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
ISLANDS: 1987					
Hawaii .....	2,573,400	40,928	1,301,353	1,230,500	619
Maui .....	465,800	17,104	193,679	251,277	3,740
Kahoolawe .....	28,800	-	28,800	-	-
Lanai .....	90,500	2,338	38,203	47,239	2,720
Molokai .....	165,800	2,503	49,768	111,657	1,872
Oahu .....	386,188	90,320	154,803	141,065	-
Kauai .....	353,900	11,972	198,732	141,963	1,233
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. 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/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied February 5, 1987.

Table 201.-- LAND OWNERSHIP OR TENURE: 1965 TO 1987

[1,000 acres. Government land leased to private users is included with privately owned land]

Year	All land <u>1/</u>	Owned by government <u>2/</u>			Privately owned land
		Federal	State	Counties	
1965 .....	4,105.6	310.1	895.2	15.0	2,885.4
1970 .....	4,112.3	309.2	835.3	12.1	2,955.6
1983 .....	3,930.6	328.4	1,178.0	15.2	2,409.1
1984 .....	3,931.4	327.6	1,197.8	15.2	2,390.8
1985 .....	3,936.9	327.4	1,194.9	15.1	2,399.6
1986 .....	3,934.2	329.9	1,152.6	15.2	2,436.5
1987 .....	3,930.1	279.6	1,121.6	13.6	2,515.4

1/ Because of the omission of public thoroughfares and for other reasons, totals 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.

Source: Real property tax records; tabulations in The State of Hawaii Data Book for 1970 (p. 38), 1971 (p. 55), 1983 (p. 192), 1984 (p. 225), 1985 (p. 190), 1986 (p. 200), and 1987 (following table).

Table 202.-- LAND OWNERSHIP OR TENURE, BY ISLANDS: FALL 1987

[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> ....	3,930,143	279,558	1,121,632	13,561	2,515,393
Percent .....	100.0	7.1	28.5	0.3	64.0
Hawaii .....	2,497,177	171,425	754,866	1,274	1,569,612
Maui .....	398,560	26,872	98,817	1,309	271,562
Kahoolawe .....	28,800	28,800	-	-	-
Molokini .....	19	19	-	-	-
Lanai .....	88,986	5	124	14	88,843
Molokai .....	169,566	133	47,135	246	122,052
Oahu .....	349,767	48,873	69,554	10,128	221,212
Kauai .....	350,050	3,174	150,881	590	195,406
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 203.-- LAND IN HAWAII OWNED BY LARGE AND SMALL LANDOWNERS:  
1984, 1985, AND 1986

Ownership	1984	1985	1986
Land area of State (acres) <u>1/</u> .....	3,931,393	3,936,878	3,934,165
Owned by government <u>1/</u> .....	1,540,611	1,537,327	1,497,713
Owned privately <u>1/</u> .....	2,390,782	2,399,551	2,436,452
Six large owners <u>2/</u> .....	941,586	941,850	938,422
Bernice P. Bishop Estate <u>3/</u> ...	341,138	340,690	340,771
Richard S. Smart (Parker Ranch) <u>4/</u> .....	139,301	139,301	139,301
Castle and Cooke, Inc. <u>5/</u> .....	150,000	149,700	149,400
C. Brewer and Company, Ltd. <u>5/</u>	94,688	95,800	92,591
Samuel M. Damon Estate <u>5/</u> .....	121,659	121,659	121,659
Alexander and Baldwin, Inc. <u>5/</u>	94,800	94,700	94,700
All others .....	1,449,196	1,457,701	1,498,030
Percent of total land area .....	100.0	100.0	100.0
Owned by government .....	39.2	39.0	38.1
Owned privately .....	60.8	61.0	61.9
Six large owners .....	24.0	23.9	23.9
All others .....	36.9	37.0	38.1
Percent of privately owned land .....	100.0	100.0	100.0
Six large owners .....	39.4	39.3	38.5
All others .....	60.6	60.7	61.5

1/ As of Summer 1984, Spring 1985, and Summer 1986. 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. For earlier years (1964 and 1979-1983), see Data Book 1981, table 142, and Data Book 1984, table 205.

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 1986, table 193; six large owners from DBED survey of those owners; all other owners calculated as a residual.



Table 204.-- REAL PROPERTY OWNED BY OR LEASED TO  
THE FEDERAL GOVERNMENT: 1983 TO 1985

Subject	Sept. 30, 1983	Sept. 30, 1984 <u>1/</u>	Sept. 30, 1985
OWNED			
Number of installations .....	304	(NA)	312
Land area, total (acres) .....	691,053.6	683,716.2	711,699.7
Urban .....	86,481.0	(NA)	91,112.4
Rural .....	604,572.6	(NA)	620,587.3
Number of buildings .....	15,032	(NA)	15,665
Cost, total (\$1,000) <u>2/</u> .....	1,741,836	(NA)	2,208,937
Land .....	46,839	(NA)	221,002
Buildings .....	1,032,470	(NA)	1,235,490
Structures and facilities .....	662,527	(NA)	752,445
Predominant usage (acres):			
Agriculture and grazing .....	-	(NA)	-
Forest and wildlife .....	255,620.2	(NA)	255,650.0
Parks and historic sites .....	238,854.3	(NA)	245,110.1
Power development and distribution .....	-	(NA)	-
Reclamation and irrigation .....	-	(NA)	-
Office building locations .....	53.7	(NA)	52.7
Military, excluding airfields ....	110,023.8	(NA)	113,103.0
Airfields .....	6,136.8	(NA)	10,689.6
Harbor and port facilities .....	23.6	(NA)	23.6
Flood control and navigation .....	1,457.5	(NA)	1,424.2
Vacant .....	3.0	(NA)	3.0
Institutional .....	358.0	(NA)	358.0
Housing .....	84.2	(NA)	87.4
Storage .....	833.1	(NA)	926.1
Industrial .....	1,978.7	(NA)	9,881.4
Research and development .....	2.5	(NA)	8.0
Other land .....	75,624.2	(NA)	74,382.6
LEASED			
Number of leases .....	294	321	289
Land area, total (acres) .....	51,852.3	50,705.6	9,624.5
Urban .....	209.5	244.0	396.9
Rural .....	51,642.8	50,461.6	9,227.6
Number of building locations .....	179	219	186
Floor area of buildings (sq. ft.) ..	318,446	430,196	425,863
Annual rental (\$1,000) .....	2,398	2,781	2,795

Footnote and source on next page.

Table 204.-- REAL PROPERTY OWNED BY OR LEASED TO  
THE FEDERAL GOVERNMENT: 1983 TO 1985 -- Con.

NA Not available.

1/ Total acreage owned corrected from figures published in source. Other 1984 statistics on Federally-owned property reported in the source likewise contained serious errors but were not corrected, and hence are omitted from this table.

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 to the United States Throughout the World (annual). The 1984 data were corrected by GSA on May 23, 1986.

Table 205.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1986

[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		Applicant waiting list	
	Total	In home- stead use	Agri- cultural and pastoral	Resi- dential	Agri- cultural and pastoral	Resi- dential
State total ..	187,597	32,528	1,166	4,599	3,915	8,126
Hawaii .....	107,981	20,943	536	1,027	2,014	1,940
Maui .....	28,995	541	68	492	827	839
Molokai .....	25,401	9,294	448	302	342	378
Oahu .....	6,651	921	66	2,372	211	4,416
Kauai .....	18,569	829	48	406	521	553

Source: Hawaii State Department of Hawaiian Home Lands, 'Aina Ho'opulapula. Annual Report, FY 1986, pp. 19-21 and 24.

Table 206.-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY,  
BY COUNTIES: JULY 1987

[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 .....	1,413.5	67.8	979.3	155.3	211.2
Public lands .....	445.7	15.2	353.5	38.3	38.6
General lease 1/ .....	225.5	4.7	188.9	23.1	8.8
Revocable permit 2/ ....	110.4	2.8	73.5	11.9	22.1
Unencumbered lands 3/...	109.8	7.7	91.1	3.3	7.7
Lands set aside to other government agencies ....	757.2	42.3	509.6	96.1	109.3
Executive order .....	231.7	13.1	169.3	23.8	25.5
Governor's proclamation	525.5	29.2	340.3	72.3	83.8
Dept. of Hawaiian Home Lands .....	192.0	4.9	107.9	19.0	60.2
University of Hawaii .....	1.8	0.7	0.5	0.4	0.1
Hawaii Housing Authority .	1.5	1.2	0.1	0.0	0.1
Highways and roads .....	15.3	3.5	7.7	1.2	2.9

1/ Long-term leases. Mostly agricultural and pasture land.

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

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 TOURISM

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 5,607,000 visitors stayed overnight or longer in Hawaii during 1986, compared with 3,220,000 in 1976 and only 835,000 in 1966. The average number present at any given time during 1986 was 133,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1986 amounted to \$5.5 billion, compared with \$1.6 billion a decade earlier. The 1986 visitor total included 3.7 million from other States, 282,000 from Canada, and 944,000 from Japan. Expenditures per visitor day in 1986 averaged \$95.40 for westbound visitors and \$257 for the Japanese. Visitor-related spending in 1985 resulted in tax revenues of \$600 million and generated 175,000 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, 76 State parks, 560 county parks, 57 golf courses, 274 public tennis courts, 2,055 small-boat moorages, 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 1986 included Waikiki Beach, Hanauma Bay, the National Memorial Cemetery of the Pacific, and Wailua River State Park. Total visits to 49 museums, State monuments and similar attractions in 1986 numbered 13.4 million. About 411,000 Hawaii residents traveled to the Mainland in 1986. Twelve theatrical groups on Oahu reported 1,245 performances of 353 productions for the 1985-1986 season, with a combined audience of 845,000. During the same season, the Honolulu Symphony Orchestra gave 137 concerts, with a total attendance of 208,000. Professional baseball drew 116,000 fans in 1987, and during the 1986-1987 school year, attendance at UH-Manoa varsity baseball, basketball and football home games was 514,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (particularly in its Annual Research Report), the State Parks Division of the Department of Land and Natural Resources, the Hawaii State Department of Business and Economic Development, 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: 1987.

Table 207.-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND TRANSIT  
STATUS: 1977 TO 1986

Direction and status	1977	1978	1979	1980	1981
All directions ..	4,544,802	4,784,561	5,291,333	5,380,383	5,305,809
Landing .....	3,668,419	3,898,864	4,144,183	4,172,640	4,211,250
Intransit .....	876,383	885,697	1,147,150	1,207,743	1,094,559
Westbound <u>1</u> / .....	3,434,979	3,664,351	3,839,041	3,861,059	3,780,383
Landing .....	2,986,458	3,227,409	3,292,928	3,257,853	3,223,653
Intransit .....	448,521	436,942	546,113	603,206	556,730
Eastbound <u>2</u> / .....	1,109,823	1,120,210	1,452,292	1,519,324	1,525,426
Landing .....	681,961	671,455	851,255	914,787	987,597
Intransit .....	427,862	448,755	601,037	604,537	537,829
Direction and status	1982	1983	1984	1985	1986
All directions ..	5,580,240	5,546,540	6,107,730	6,314,290	7,063,710
Landing .....	4,582,020	4,653,450	5,242,770	5,338,170	6,068,990
Intransit .....	998,220	893,090	864,960	976,120	994,720
Westbound <u>1</u> / .....	4,078,360	4,098,720	4,543,890	4,675,690	5,245,690
Landing .....	3,589,625	3,654,560	4,082,070	4,137,830	4,689,480
Intransit .....	488,735	444,160	461,820	537,860	556,210
Eastbound <u>2</u> / .....	1,501,880	1,447,820	1,563,840	1,638,600	1,818,020
Landing .....	992,390	998,890	1,160,700	1,200,340	1,379,510
Intransit .....	509,490	448,930	403,140	438,260	438,510

1/ Arriving from North America.

2/ Arriving from Asia or Oceania.

Source: Hawaii Visitors Bureau, 1986 Annual Research Report, p. 4, as corrected.

Table 208.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING  
IN HAWAII: 1981 TO 1986

[Based on a 20-percent sample through 1983 and a  
10-percent sample thereafter]

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents
			Overnight or longer	In transit		
1981 ....	3,780,383	2,611,142	363,649	556,730	230,728	18,134
1982 ....	4,078,360	2,896,255	382,270	488,725	290,040	21,070
1983 ....	4,098,740	3,086,995	309,120	444,180	236,725	21,720
1984 ....	4,543,890	3,385,880	335,500	461,820	333,640	27,050
1985 ....	4,675,690	3,386,530	322,080	537,860	403,450	25,770
1986 ....	5,245,690	3,915,770	340,620	556,210	411,440	21,650

Source: Hawaii Visitors Bureau, 1986 Annual Research Report, p. 6.

Table 209.-- WESTBOUND PARTIES, BY VISITOR STATUS:  
1985 AND 1986

Year	All surveyed parties	Visitors destined --		Returning residents	Intended residents
		To Hawaii	Beyond Hawaii		
1985 ..	2,315,680	1,826,310	193,790	281,390	14,190
1986 ..	2,625,310	2,124,390	204,100	284,020	12,800

Source: Hawaii Visitors Bureau, 1986 Annual Research Report, p. 8.

Table 210.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1921 TO 1964

Year	Visitor arrivals <u>1/</u>	Average visitor census <u>2/</u>	Year	Visitor arrivals <u>1/</u>	Average visitor census <u>2/</u>
1921 ....	8,000	...	1942-45 <u>3/</u>	-	-
1922 ....	9,676	...	1946 ....	15,000	975
1923 ....	12,021	...	1947 ....	25,000	1,625
1924 ....	12,468	...	1948 ....	36,397	2,366
1925 ....	15,193	...	1949 ....	34,386	2,235
1926 ....	16,762	...	1950 ....	46,593	3,027
1927 ....	17,451	...	1951 ....	51,565	3,350
1928 ....	19,980	...	1952 ....	60,539	3,796
1929 ....	22,190	...	1953 ....	80,346	4,746
1930 ....	18,651	...	1954 ....	91,289	5,369
1931 ....	15,780	1,200	1955 ....	109,798	6,042
1932 ....	10,370	...	1956 ....	133,815	6,947
1933 ....	10,111	...	1957 ....	168,829	8,205
1934 ....	16,161	...	1958 ....	171,588	8,397
1935 ....	19,933	...	1959 ....	243,216	10,390
1936 ....	22,199	...	1960 ....	296,517	11,797
1937 ....	21,987	...	1961 ....	319,807	11,960
1938 ....	23,043	...	1962 ....	362,145	13,125
1939 ....	24,390	...	1963 ....	429,140	15,316
1940 ....	25,373	1,648	1964 <u>4/</u> .	508,870	16,739
1941 ....	31,846	2,069			

1/ Visitors staying overnight or longer. Data before 1946 exclude steerage passengers and those aboard government ships and aircraft. Figures for 1946 and later years limited to passengers aboard civilian carriers. Data for 1951-1964 not adjusted for survey nonresponse, which was relatively small during those years; for adjusted estimates, including annual estimates back to 1800, see L.J. Crampon, Hawaii's Visitor Industry, Its Growth and Development (School of Travel Industry Management, University of Hawaii, 1976; unpublished), pp. 316-317.

2/ Average number present on any day of the year. Estimates not regularly available before 1940.

3/ War years; visitor industry suspended.

4/ For figures adjusted for nonresponse, see following table.

Source: Visitor arrivals, 1921-1950, from Robert C. Schmitt, Origins of the Hawaii Visitors Bureau Research Program, 1911-1950 (University of Hawaii at Manoa, School of Travel Industry Management and Social Science Research Institute, Tourism Research Publications, Occasional Paper No. 7, 1984), pp. 17 and 19. Visitor arrivals, 1951-1964, and average visitor census, 1951-1964, from Hawaii Visitors Bureau, Annual Research Report, 1952-1964. Average visitor census, 1931-1950, estimated by Hawaii State Department of Planning and Research.

Table 211.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1986

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

1/ Arriving from the Mainland United States or Canada. Based on a 20-percent sample through 1983 and a 10-percent sample thereafter.

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



Table 212.-- VISITOR DAYS, BY DIRECTION OF TRAVEL:  
1985 AND 1986

Year	Total	Westbound	Eastbound and northbound
1985 .....	42,596,920	37,894,920	4,702,000
1986 .....	48,512,670	43,110,310	5,402,360

Source: Hawaii Visitors Bureau, 1986 Annual Research Report, p. 5.

Table 213.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII:  
1983 TO 1986

[Approximate figures, in thousands]

Place of residence	1983	1984	1985	1986
Total .....	4,368	4,856	4,884	5,607
United States .....	2,906	3,168	3,200	3,739
Foreign .....	1,462	1,688	1,684	1,868
Asia .....	818	924	986	1,083
Japan .....	729	816	855	944
Other Asia .....	89	108	131	139
Canada .....	268	330	279	282
Europe .....	68	63	59	99
United Kingdom .....	39	36	31	49
West Germany .....	20	18	19	30
Other Europe .....	9	9	9	20
Oceania and South Pacific ....	274	334	323	360
Australia .....	167	210	204	219
New Zealand .....	67	76	78	98
Other South Pacific .....	40	48	41	43
Other foreign .....	34	37	37	44

Source: Hawaii Visitors Bureau, tabular release dated March 1987.

Table 214.-- WESTBOUND VISITOR ARRIVALS, BY COUNTIES VISITED:  
1981 TO 1986

[Covers westbound visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Based on a 20-percent sample through 1983 and a 10-percent sample thereafter]

Year	State total <sup>1/</sup>	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1981 ...	2,974,791	2,398,480	672,683	757,811	1,389,892
1982 ...	3,278,525	2,589,190	678,170	733,295	1,550,080
1983 ...	3,396,115	2,591,635	712,380	691,940	1,644,605
1984 ...	3,721,380	2,901,320	760,940	814,590	1,854,690
1985 ...	3,708,610	2,828,640	697,380	832,580	1,831,110
1986 ...	4,256,390	3,146,030	786,930	1,014,650	2,001,870

<sup>1/</sup> Because many visitors visited more than one county, county data sum to totals greater than the State totals shown here.  
Source follows next table.

Table 215.-- AVERAGE VISITOR CENSUS, BY COUNTIES: 1981 TO 1986

[Unlike the preceding table, this table includes eastbound and north-bound visitors (all of whom have been included with the City and County of Honolulu) as well as westbound visitors. Based on a 20-percent sample through 1983 and a 10-percent sample thereafter]

Year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1981 ...	95,968	66,455	6,561	7,225	15,727
1982 ...	105,310	73,445	6,725	7,050	18,090
1983 ...	108,045	66,695	8,690	7,990	24,670
1984 ...	118,660	67,370	7,570	10,930	32,790
1985 ...	116,700	65,280	8,040	11,470	31,910
1986 ...	132,910	73,870	9,870	14,840	34,330

Source: Hawaii Visitors Bureau, release dated March 1987 and records.

Table 216.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII:  
1976 TO 1986

[Based on a 20-percent sample through 1983 and a 10-percent sample thereafter]

Year	Residence (percent) <u>1/</u>		Males per 1,000 females	Median age (years)	High status occupa- tions <u>2/</u> (percent)	Persons per party
	Pacific & Mountain States	California				
1976 .....	37.9	24.0	787	44.8	58.4	1.75
1977 .....	40.2	25.8	802	43.2	58.8	1.78
1978 .....	41.3	26.0	810	42.9	59.8	1.81
1979 .....	43.1	25.7	823	41.7	60.1	1.80
1980 .....	47.1	30.6	829	41.3	62.0	1.79
1981 .....	45.8	30.3	810	40.2	61.0	1.82
1982 .....	44.2	29.5	789	39.1	61.5	1.82
1983 .....	49.1	34.3	825	39.8	61.7	1.83
1984 .....	41.9	27.2	812	40.1	61.5	1.84
1985 .....	41.6	27.3	805	39.7	62.1	1.85
1986 .....	45.2	29.8	829	39.7	62.8	1.84
Year	Arriving June 1- Aug. 31 (percent)	Repeat visi- tors <u>3/</u> (percent)	Pleasure trip (percent)	Staying in hotel <u>4/</u> (percent)	Average intended stay <u>5/</u> (days)	Intending to visit Neighbor Islands <u>6/</u> (percent)
1976 .....	28.3	38.7	79.0	...	10.7	65.6
1977 .....	27.3	41.1	78.6	...	10.9	66.8
1978 .....	26.7	42.8	76.5	...	11.2	68.2
1979 .....	27.0	44.1	76.7	74.4	11.2	68.5
1980 .....	28.6	48.4	75.4	71.2	11.2	68.3
1981 .....	28.4	47.2	77.7	70.1	11.3	67.0
1982 .....	27.9	45.9	80.4	64.6	11.2	67.3
1983 .....	28.9	50.4	77.8	61.7	11.0	66.9
1984 .....	26.7	47.3	79.7	62.7	10.9	69.0
1985 .....	25.7	46.3	80.2	58.1	10.7	69.3
1986 .....	27.5	49.2	82.2	55.8	10.5	69.0

Footnotes and source on next page.

Table 216.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII:  
1976 TO 1986 -- Con.

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Excludes condominiums operating as hotels. Data for years before 1979 are not comparable in coverage.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data may differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

Source: Hawaii Visitors Bureau, Annual Research Report for 1976-1986 and records.

Table 217.-- VISITOR INDUSTRY PROJECTIONS: 1985 TO 2005

[Series M-F projections, recommended by DBED for State planning purposes]

Year	Visitor arrivals (1,000)	Average visitor census (1,000)		Hotel employment (1,000)		Visitor and crew expenditures (millions of 1980 dollars)
		State total	Oahu only	State total	Oahu only	
1985 (est.) ..	4,884	117	65	28.0	16.0	3,827
1990 .....	6,083	156	95	31.8	16.2	4,477
1995 .....	7,052	179	102	35.0	16.8	5,190
2000 .....	7,786	198	107	36.9	17.0	5,731
2005 .....	8,183	208	112	37.1	17.1	6,023

Source: 1985 from Hawaii Visitors Bureau and Hawaii State Department of Labor and Industrial Relations; 1990-2005 from Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 20.

Table 218.-- DEMOGRAPHIC CHARACTERISTICS OF WESTBOUND VISITORS  
TO AND BEYOND HAWAII: 1985 AND 1986

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1985	1986	1985	1986
All visitors .....	3,386,530	3,915,770	322,080	340,620
Age:				
Under 10 years .....	93,490	116,400	21,640	22,890
10 to 19 years .....	238,180	286,700	26,250	27,920
20 to 29 years .....	597,040	672,920	60,860	66,880
30 to 39 years .....	694,380	810,010	66,840	67,330
40 to 49 years .....	605,280	707,630	52,760	54,160
50 to 59 years .....	489,980	554,330	37,020	38,400
60 years and over .....	490,810	582,720	27,050	31,260
Age not reported .....	177,370	185,060	29,660	31,780
Sex:				
Male .....	1,510,570	1,775,170	176,300	185,500
Female .....	1,875,960	2,140,600	145,780	155,120
Residence (census divisions):				
Pacific .....	1,167,580	1,490,470	14,000	16,380
Alaska .....	20,430	33,010	530	450
California .....	923,020	1,167,210	10,880	12,830
Oregon .....	75,270	91,930	830	930
Washington .....	148,860	198,320	1,760	2,170
Mountain .....	240,190	279,590	2,910	3,710
West North Central .....	222,680	229,280	1,990	3,140
West South Central .....	252,940	239,820	4,700	4,220
East North Central .....	408,040	457,560	5,410	6,950
East South Central .....	87,250	83,460	1,250	1,520
New England .....	124,150	138,500	2,420	3,440
Middle Atlantic .....	308,700	355,280	7,550	10,370
South Atlantic .....	282,900	312,350	9,300	9,860
U.S. territories .....	310	400	2,970	2,540
Canada .....	241,420	247,140	3,120	4,910
Other foreign .....	49,960	81,690	266,370	273,540
Residence not reported .....	410	230	90	40

Source: Hawaii Visitors Bureau, Annual Research Report for 1985 and 1986.

Table 219.-- TRIP CHARACTERISTICS OF WESTBOUND VISITORS  
TO AND BEYOND HAWAII: 1985 AND 1986

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1985	1986	1985	1986
All visitors .....	3,386,530	3,915,770	322,080	340,620
Purpose of trip:				
Pleasure .....	2,703,340	3,202,700	263,610	283,410
Business .....	68,080	82,760	14,360	12,640
Business and pleasure .....	357,590	391,490	24,710	25,810
Government and military .....	15,770	19,650	5,160	4,750
Visiting relatives .....	92,030	94,870	5,810	5,210
Attend school .....	1,770	1,690	310	340
Convention .....	122,600	92,550	2,440	2,760
Other .....	8,430	9,170	2,330	2,020
Purpose not reported .....	16,920	20,890	3,350	3,680
Traveler status:				
Organized tour group .....	605,130	576,320	58,520	49,810
Individual basis .....	2,560,190	3,005,870	250,010	271,410
Incentive .....	166,520	212,750	4,700	6,670
Government/military .....	15,770	19,790	5,160	4,760
No answer .....	38,920	101,040	3,690	7,970
Intended accommodations:				
Hotel .....	1,966,350	2,184,010	263,590	269,590
Condominium .....	707,040	868,900	26,480	34,160
Hotel and condominium .....	324,570	418,900	6,750	10,470
Friend's or relative's home ..	259,340	293,670	18,390	18,810
Other accommodations .....	126,430	146,130	5,920	6,440
Not reported .....	2,800	4,160	950	1,150

Source: Hawaii Visitors Bureau, Annual Research Report for 1985 and 1986.

Table 220.-- INTENDED LENGTH OF STAY OF WESTBOUND VISITORS  
TO AND BEYOND HAWAII: 1984 TO 1986

[Data limited to visitors staying overnight or longer]

Destination and length of stay	1984	1985	1986
VISITORS TO HAWAII			
Total .....	3,385,880	3,386,530	3,915,770
2 to 6 days .....	280,350	261,880	348,680
7 to 12 days .....	2,216,920	2,294,890	2,672,040
13 to 18 days .....	696,160	658,750	710,750
19 to 24 days .....	99,760	89,140	95,990
25 to 30 days .....	43,730	39,480	44,860
31 to 60 days .....	42,140	38,100	36,700
61 to 90 days .....	6,080	3,680	5,230
91 to 365 days .....	740	610	1,520
Median (days) .....	10.3	10.2	10.1
VISITORS BEYOND HAWAII			
Total .....	335,500	322,080	340,620
2 days .....	28,410	26,410	28,160
3 days .....	71,160	70,840	68,680
4 to 6 days .....	151,470	152,470	165,410
7 to 12 days .....	67,320	60,540	65,120
13 to 365 days .....	16,620	11,820	13,250
Median (days) .....	4.8	4.8	4.8

Source: Hawaii Visitors Bureau, Annual Research Report for 1984-1986.

Table 221.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY  
HEADS TO AND BEYOND HAWAII: 1985 AND 1986

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1985	1986	1985	1986
All party heads .....	1,826,310	2,124,390	193,790	204,100
Occupation:				
Professional and technical ...	659,880	784,400	60,500	63,980
Business, managerial, official	458,570	529,930	60,980	63,130
Clerical, office, sales .....	175,890	193,710	15,160	16,860
Military service .....	17,740	23,570	3,870	4,120
Other employed .....	122,590	126,200	10,770	11,490
Military dependent .....	3,020	4,410	350	300
Retired .....	241,260	288,280	14,410	16,370
Student .....	76,120	93,410	16,540	17,070
Other non-employed .....	45,070	49,030	6,640	6,760
Not reported .....	26,170	31,450	4,570	4,020
Trips to Hawaii:				
First trip .....	913,780	997,550	90,770	97,700
Second trip .....	320,810	378,880	34,650	36,970
Third trip .....	148,660	183,600	14,450	15,610
Fourth trip and over .....	319,520	403,600	35,200	34,720
Not reported .....	123,540	160,760	18,720	19,100
Persons in party:				
1 person .....	336,180	750,460	68,740	118,710
2 persons .....	1,082,420	1,143,070	64,400	58,530
3 persons .....	146,840	100,360	18,000	9,930
4 persons .....	163,630	91,930	26,700	11,550
5 persons or more .....	97,240	38,570	15,950	5,380
Average size .....	1.85	1.84	1.66	1.67

Source: Hawaii Visitors Bureau, Annual Research Report for 1985 and 1986.



Table 222.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF  
MAINLAND VISITORS TO HAWAII: 1980 TO 1983

Subject	1980	1981	1982	1983
Number of respondents in sample .....	5,180	4,984	5,810	5,736
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under \$15,000 .....	10.3	7.5	6.0	5.0
\$15,000 to \$24,999 .....	19.4	16.6	16.3	14.7
\$25,000 to \$34,999 .....	24.1	22.2	21.7	20.3
\$35,000 to \$49,999 .....	24.0	24.8	24.4	25.2
\$50,000 and over 1/ .....	22.2	28.9	31.6	34.8
Median income (dollars) .....	33,400	37,300	38,700	41,000
Education: college graduates (percent)	54.5	57.6	56.0	56.6
Using travel agent (percent) .....	79.6	79.0	78.7	80.2
Islands visited (percent):				
Oahu only .....	26.6	27.2	29.2	29.0
Hawaii .....	30.2	24.5	22.7	23.4
Maui .....	53.4	54.0	52.7	53.0
Kauai .....	34.6	33.0	27.3	27.0
Molokai .....	0.6	0.6	0.5	0.2
Hawaii compared with other vacation areas visited (percent) .....	100.0	100.0	100.0	100.0
Far superior .....	35.2	37.0	37.9	39.7
Above average .....	54.2	53.9	53.3	53.3
Average .....	9.4	8.3	7.8	6.4
Below average .....	1.0	0.7	0.8	0.6
Quite inferior .....	0.1	0.2	0.1	(Z)

Z Less than 0.05 percent.

1/ Data for 1983 were reported in two classes, \$50,000 to \$74,999 (21.4 percent) and \$75,000 and over (13.4 percent).

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 223.-- MEETINGS AND CONVENTIONS: 1981 TO 1986

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue (\$1,000)
1981 .....	505	181,662	84,142	134,164
1982 .....	439	167,558	78,589	123,748
1983 .....	420	211,764	(NA)	156,396
1984 .....	623	255,152	91,605	218,247
1985 .....	740	247,166	104,354	219,882
1986 .....	810	250,703	98,591	249,042

NA Not available.

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 224.-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1985 AND 1986

Island	Number of meetings held		Estimated attendance	
	1985	1986	1985	1986
State total <u>1/</u> ....	740	810	247,166	250,703
Hawaii:				
Hilo .....	3	7	990	1,187
Kona .....	79	76	17,127	18,248
Maui .....	231	268	49,180	48,859
Molokai .....	2	2	375	67
Oahu .....	398	404	170,624	171,893
Kauai .....	54	53	12,853	10,449

1/ Because some meetings took place on more than one island, detail does not add to indicated totals.

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 225. -- RANKING AS A VACATION DESTINATION, BY MEASURE OF ATTRACTIVENESS: 1985

[Rank of Hawaii among 107 major vacation destinations in the U.S., based on the most recent available data]

Measure of attractiveness	Rank	Measure of attractiveness	Rank
Overall rank .....	3	Basic necessities .....	36
Blessings of nature .....	5	Discovering our heritage ....	20
Outdoor fun .....	3	Feeding mind and spirit .....	24
		Entertainment for all .....	55

Source: Sylvia McNair, Rand McNally Vacation Places Rated (Rand McNally and Company, 1986), p. 195.

Table 226.-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1986

[Dollars]

Year	Main-landers	Japanese	Year	Main-landers	Japanese
1931-32 <u>1/</u> ....	17.50	(NA)	1977 .....	54.62	146.85
1951 .....	28.00	(NA)	1980 .....	71.24	185.00
1960-61 .....	32.00	(NA)	1983 .....	85.88	227.32
1965-66 <u>1/</u> ....	37.23	(NA)	1986 .....	95.40	257.40
1974 .....	46.20	123.00			

NA Not available.

1/ Oahu only.

Source: Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey (1985), p. 31, 1986 Visitor Expenditure Survey (1987), p. 46, and unpublished 1986 Japanese estimate.

Table 227.-- EXPENDITURES PER VISITOR DAY BY WESTBOUND VISITORS,  
BY EXPENDITURE TYPE: 1983 AND 1986

[In dollars. Excludes transpacific travel costs]

Expenditure type	1983	1986		
		State-wide	On Oahu	On the Neighbor Islands
All items .....	85.88	95.40	92.92	114.18
Food and beverage .....	21.47	22.00	21.20	23.67
Restaurants .....	15.65	15.37	14.59	17.78
Nightclubs .....	1.41	1.80	2.11	1.12
Dinner shows .....	1.95	2.28	2.16	1.81
Groceries .....	2.46	2.55	2.34	2.96
Entertainment .....	5.10	7.74	7.91	10.41
Attractions .....	3.96	6.34	6.88	7.78
Other .....	1.14	1.40	1.03	2.63
Transportation .....	9.61	6.99	6.29	15.86
Ground transportation .....	1.44	1.01	0.97	0.66
U-drive .....	4.18	2.87	2.40	4.98
Interisland travel .....	2.73	1.90	1.51	8.88
Sightseeing tours .....	1.26	1.21	1.41	1.34
Clothing .....	7.18	8.06	8.57	6.07
Gifts and souvenirs .....	7.32	8.21	8.55	7.46
Lodging .....	29.94	36.60	34.43	44.94
All other .....	3.89	4.10	4.28	3.92
Adjustment <u>1/</u> .....	1.37	1.70	1.69	1.85

1/ Estimated amount of underreporting for listed categories.

Source: Hawaii Visitors Bureau, 1986 Visitor Expenditure Survey (1987), pp. 12 and 13.

Table 228.-- EXPENDITURES PER VISITOR DAY BY WESTBOUND VISITORS, BY VISITOR OR TRIP CHARACTERISTICS: 1986

Visitor or trip characteristics	Dollars	Visitor or trip characteristics	Dollars
All westbound visitors	95.40	Previous visits:	
Group tour:		First trip .....	95.06
Organized tour group .....	95.45	Repeat visitors .....	95.32
Individually arranged ....	95.66	Party size:	
Accommodations:		1 person .....	115.73
Hotel only .....	96.47	2 persons .....	92.09
Condo only .....	89.81	3 persons .....	83.76
Guests of friends,		4 persons or more .....	78.21
relatives .....	*60.76	Purpose of trip:	
Hotel/condo combination ..	90.86	Pleasure .....	93.91
Length of stay:		Business .....	123.34
1 to 6 days .....	99.55	Business/pleasure .....	117.62
7 to 12 days .....	96.38	Government/military .....	*109.10
13 to 18 days .....	92.06	Visiting relatives .....	*78.69
19 days or longer .....	77.24	School/college .....	*105.22
Residence: <sup>1/</sup>		Convention .....	*107.98
Pacific .....	89.21	Other .....	*120.64
Mountain .....	87.50	Time of year:	
W.N. Central .....	82.81	First quarter .....	97.04
W.S. Central .....	101.74	Second quarter .....	92.06
E.N. Central .....	99.22	Third quarter .....	100.11
E.S. Central .....	*102.06	Fourth quarter .....	92.35
New England .....	109.83	Children in party:	
Mid Atlantic .....	105.23	Yes .....	76.52
S. Atlantic .....	99.64	No .....	96.78
Canada .....	*80.14		
Other foreign .....	*117.76		

\* Sample under 25; subject to considerable sampling variation.

<sup>1/</sup> Census divisions; see source, p. 7.

Source: Hawaii Visitors Bureau, 1986 Visitor Expenditure Survey (1987), pp. 12-33.

Table 229.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1970 TO 1986

[Millions of dollars. Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with the City and County of Honolulu. Excludes expenditures by Hawaii residents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970 .....	595	442	153.0	53.4	45.1	54.5
1971 .....	705	507	198.0	67.7	56.1	74.2
1972 .....	840	609	231.0	77.0	61.9	92.1
1973 .....	1,020	777	243.0	81.9	63.2	97.9
1974 .....	1,225	928	297.5	99.3	73.9	124.3
1975 .....	1,360	1,004	355.9	114.6	87.2	154.1
1976 .....	1,640	1,213	427.2	126.8	101.8	198.6
1977 .....	1,845	1,377	468.5	131.2	109.9	227.4
1978 .....	2,146	1,569	577.0	152.9	137.9	286.9
1979 .....	2,537	1,867	669.8	162.0	159.1	348.7
1980 .....	2,875	2,097	777.5	187.6	189.3	400.6
1981 .....	3,200	2,394	805.9	179.2	197.3	429.4
1982 .....	3,700	2,748	951.8	200.9	210.6	540.3
1983 .....	3,974	2,653	1,320.9	277.2	250.8	792.9
1984 <u>1/</u> ...	4,582	2,895	1,686.6	248.9	359.4	1,078.3
1985 <u>1/</u> ...	4,884	3,084	1,799.5	285.9	407.9	1,105.7
1986 <u>1/</u> ...	5,500	3,444	2,056.2	343.8	516.9	1,195.5

1/ Preliminary estimate.

Source: Hawaii Visitors Bureau, "Neighbor Island Statistics," tabular release dated March 1987.

Table 230.-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES:  
1970 TO 1986

[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 .....	5,458.0	4,900	16.0	542.0
1986 .....	6,110.0	5,550	18.0	542.0

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 1981-1986 estimates based on the DBED Input-Output Model.

Table 231.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1986

Year	Visitor-related expenditures 1/ (million dollars)	Total sales or output 2/ (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs 2/ (1,000)
1970 ....	714.6	1,290.8	459.7	69.7	76.6
1971 ....	835.8	1,507.0	538.6	82.8	87.3
1972 ....	982.2	1,766.2	633.6	96.7	96.2
1973 ....	1,181.6	2,122.0	763.5	118.7	105.6
1974 ....	1,408.6	2,522.3	910.7	141.0	112.8
1975 ....	1,559.4	2,751.7	995.9	165.7	113.5
1976 ....	1,890.8	3,263.0	1,184.0	201.4	123.1
1977 ....	2,093.8	3,642.9	1,324.9	225.0	127.3
1978 ....	2,427.4	4,238.7	1,544.2	262.1	132.4
1979 ....	2,947.7	5,005.0	1,826.8	316.7	143.3
1980 ....	3,406.2	5,719.5	2,091.0	353.0	150.0
1981 ....	3,775.0	6,265.2	2,294.1	390.1	154.4
1982 ....	4,235.0	7,162.3	2,627.1	436.9	165.4
1983 ....	4,483.0	7,587.9	2,788.9	461.6	166.2
1984 ....	5,139.0	8,655.9	3,185.6	537.0	180.7
1985 ....	5,458.0	9,210.9	3,390.2	578.8	186.5
1986 ....	6,110.0	10,263.7	3,782.5	657.2	196.3

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

2/ Direct, indirect, and induced.

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 1970-1986 estimates based on the DBED Input-Output Model.



Table 232.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES,  
BY INDUSTRY: 1986

Year and industry	Direct visitor- related expend- itures 1/ (million dollars)	Total sales or out- put 2/ (million dollars)	Total house- hold income (million dollars)	Jobs (1,000)	
				Total 3/	Direct only
All industries .....	6,110.0	10,263.7	3,782.5	196.3	108.9
Agriculture .....	35.5	78.5	34.8	0.6	0.3
Textile and apparel mfg. ....	51.8	91.7	31.6	2.6	1.6
Other manufacturing .....	153.6	301.1	79.9	5.0	1.6
Air transportation .....	485.8	855.0	276.9	13.8	6.2
Other transportation .....	188.0	387.3	148.5	3.7	1.9
Wholesale trade 4/ .....	133.8	282.3	121.7	5.9	2.9
Eating and drinking places ...	1,163.9	2,269.6	686.7	47.7	27.7
Other retail trade 4/ .....	529.0	1,137.3	529.0	32.2	21.1
Hotel services and real estate	1,756.1	3,916.1	1,492.7	60.3	31.2
Other services .....	458.7	945.0	380.7	24.4	14.5
Imports .....	1,153.8	-	-	-	-

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

2/ Direct, indirect, and induced sales.

3/ Direct, indirect and induced jobs.

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

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

Table 233.-- VISITOR INDUSTRY PRICE INDEXES: 1967 TO 1986

[1967 = 100]

Year	Vacation price index <u>1/</u>	Hotel price index <u>1/</u>	Airfare index <u>2/</u>	Honolulu consumer price index <u>3/</u>		
				Eating out <u>4/</u>	Apparel, upkeep	All items
1967 ....	100.0	100.0	100.0	100.0	100.0	100.0
1968 ....	103.3	99.2	103.4	104.1	103.8	103.8
1969 ....	108.9	102.4	119.3	111.6	109.4	108.5
1970 ....	116.0	121.2	143.9	121.2	115.1	114.2
1971 ....	119.1	117.6	143.9	126.9	117.6	118.9
1972 ....	120.6	118.9	143.9	130.8	120.5	122.8
1973 ....	124.7	119.9	148.8	139.0	124.1	128.3
1974 ....	136.1	126.8	156.4	156.6	133.3	141.9
1975 ....	150.1	141.1	162.0	178.7	141.2	155.0
1976 ....	158.5	155.4	174.2	193.1	146.7	162.8
1977 ....	169.2	169.6	174.2	204.5	152.2	171.0
1978 ....	183.2	187.2	204.5	218.9	161.3	184.1
1979 ....	201.3	211.5	219.7	236.1	171.7	204.6
1980 ....	224.6	237.2	295.5	254.4	183.9	228.5
1981 ....	(NA)	(NA)	386.4	277.8	193.4	252.4
1982 ....	(NA)	(NA)	348.5	299.7	201.5	267.6
1983 ....	(NA)	(NA)	378.4	314.1	207.7	273.5
1984 ....	(NA)	(NA)	378.4	327.9	205.1	284.8
1985 ....	(NA)	(NA)	340.5	340.9	203.9	294.1
1986 ....	(NA)	(NA)	355.7	349.6	204.4	301.1

NA Not available.

1/ Annual averages. From Edwin Fujii, Mohammed Khaled, and James Mak, The Incidence and Exportability of Hotel Occupancy and Other Tourist Taxes in Hawaii (consultant report, July 1984), p. 47.

2/ July 1 data for one-way fares, including taxes, by Hawaiian Airlines jet aircraft (when available) between Honolulu and Kahului or Lihue. From DPED Statistical Report 103, table 2; Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey, table 18; and present report, table 562.

3/ Annual averages. Beginning 1978, refers to CPI-U. From U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and records.

4/ Food away from home.

Source: See above footnotes.

Table 234.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1981 TO 1986

[In dollars. Years ended June 30]

Year	Income				Expenditures
	Total	State appropriations <u>1/</u>	Private subscriptions	Other <u>2/</u>	
1981 .....	3,337,771	2,052,727	941,542	343,502	3,285,624
1982 .....	4,431,673	3,197,785	1,033,486	200,402	4,448,871
1983 .....	4,484,734	3,216,000	966,146	302,588	4,485,156
1984 .....	4,384,978	2,706,732	1,108,374	569,872	4,384,264
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

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 235.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1982 TO 1986

Category and first area destination	1982	1983	1984	1985	1986
By Honolulu Passport Agency <u>1/</u> .....	41,906	41,446	52,250	56,140	43,731
To Hawaii residents, total <u>2/</u> .....	38,690	30,040	(NA)	(NA)	(NA)
Europe .....	14,860	15,720	(NA)	(NA)	(NA)
Far East .....	13,830	7,250	(NA)	(NA)	(NA)
Australia and Oceania .....	8,660	5,580	(NA)	(NA)	(NA)
All other areas .....	1,340	1,490	(NA)	(NA)	(NA)

NA Not available.

1/ Includes passports issued to nonresidents of Hawaii.

2/ Includes passports issued to Hawaii residents by out of State offices. These tabulations were discontinued after 1983.

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

Table 236.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1981 TO 1986

Year	Number returning	Oahu residents <u>1/</u> (percent)	Median age (years)	Males per 100 females	Persons per party
1981 .....	230,728	83.8	37.3	101.6	1.44
1982 .....	290,040	84.8	36.7	100.9	1.45
1983 .....	236,725	84.7	36.5	102.2	1.45
1984 .....	333,640	82.8	38.2	100.4	1.43
1985 .....	403,450	82.1	39.2	100.5	1.43
1986 .....	411,440	79.9	39.7	98.8	1.45
	Party heads with high-status occupations <u>2/</u> as percent of--		Days absent		
Year	All party heads	Employed civilian party heads	Median	Mean	Average number absent <u>3/</u>
1981 .....	54.5	78.7	13.3	17.3	10,900
1982 .....	52.6	78.6	13.3	18.1	14,400
1983 .....	51.3	78.4	12.8	17.2	11,200
1984 .....	53.6	80.1	12.5	16.1	14,700
1985 .....	56.2	82.0	12.2	15.3	16,900
1986 .....	55.2	80.6	11.0	14.0	15,735

1/ Data for Oahu include persons specifying military bases rather than island of residence.

2/ Party heads reporting professional, technical, business, managerial, and official occupations.

3/ For persons absent 1 to 365 days.

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.

Table 237.-- NUMBER OF WESTBOUND RETURNING RESIDENTS AND  
AVERAGE ABSENCE-DAYS, BY PORT OF DEPARTURE: 1986

Port of departure	Number returning	Reporting absence of 1-90 days <u>1/</u>	
		Persons	Average absence (days)
All returning residents	411,440	398,613	13.8
Los Angeles .....	124,180	119,819	13.7
San Francisco .....	102,486	99,816	14.4
New York/Los Angeles .....	30,720	29,963	14.6
Other/Los Angeles <u>2/</u> .....	28,671	27,928	12.5
Chicago .....	26,220	25,767	15.6
Seattle .....	24,273	23,380	14.9
Las Vegas .....	22,829	21,816	4.8
Dallas .....	16,612	16,159	16.5
Other .....	35,449	33,965	14.7

1/ Excludes over 90 days or not reported.

2/ Includes other connecting flights through Los Angeles to Hawaii.

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 10.

Table 238.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:  
1984 TO 1986

[Calendar year data unless otherwise specified. Some 1984 and 1985  
data have been revised]

Island and cultural attraction	1984	1985	1986
State total .....	12,570,047	12,963,102	13,394,693
Oahu .....	11,106,734	11,078,363	11,456,215
Bernice P. Bishop Museum <u>1/</u> .....	224,482	257,760	278,083
Contemporary Arts Center .....	27,000	27,000	25,500
Damien Museum and Archives <u>2/</u> .....	3,508	-	10,618
Dole Cannery tours <u>3/</u> .....	127,229	138,860	154,964
Foster Botanic Garden .....	64,077	61,676	62,472
Fred Ohrt Museum .....	4,271	3,880	3,593
Hawaii Maritime Center <u>4/</u> .....	8,000	45,000	105,000
Honolulu Academy of Arts <u>5/</u> .....	235,615	274,950	280,842
Hoomaluhia Park .....	59,622	42,696	49,278
Iolani Palace State Monument <u>6/</u> .....	65,000	71,000	72,000
Kamehameha V Post Office <u>6/</u> .....	3,000	-	-
Kodak Hula Show .....	538,000	460,000	(NA)
Mission Houses Museum <u>7/</u> .....	18,504	14,100	16,000
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center) .....	319,113	240,065	216,995
National Memorial Cemetery of the Pacific	4,394,458	4,453,063	5,122,003
Pacific Submarine Museum <u>8/</u> .....	70,000	45,000	(NA)
Paradise Park .....	315,592	272,592	225,153
Polynesian Cultural Center .....	1,030,000	1,029,000	870,000
Puu o Mahuka Heiau State Monument <u>6/</u> ....	21,000	11,000	11,000
Queen Emma Summer Palace .....	18,152	16,732	26,298
Royal Mausoleum State Monument <u>6/</u> .....	79,000	74,000	76,000
Sea Life Park .....	617,500	655,000	684,530
Tennent Art Foundation Gallery .....	2,500	3,000	(NA)
Tropic Lightning Museum <u>9/</u> .....	6,000	8,700	9,100
Ulu Po Heiau State Monument <u>6/</u> .....	4,000	6,000	5,000
U.S. Army Museum, Ft. DeRussy .....	118,908	143,390	109,711
U.S.S. Arizona Memorial .....	1,715,047	1,629,660	1,809,080
Visiting either Memorial or Visitor Center .....	1,376,816	1,336,992	1,435,885
Aboard non-landing tour boats .....	338,231	292,668	373,195
U.S.S. Bowfin WWII Submarine Exhibit ....	224,684	254,053	284,202
Wahiawa Botanic Garden .....	20,225	18,711	17,245
Waikiki Aquarium <u>10/</u> .....	295,760	322,796	330,071
Waimea Falls Park .....	476,487	498,679	601,477

Continued on next page.

Table 238.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:  
1984 TO 1986 -- Con.

Island and cultural attraction	1984	1985	1986
Hawaii .....	563,305	561,328	626,747
Hawaii Tropical Botanical Gardens <u>11/</u> ...	4,000	20,000	32,000
Greenwell Store Museum <u>12/</u> .....	400	2,500	5,000
Hulihee Palace .....	23,501	21,469	21,350
Kamuela Museum .....	18,000	16,000	16,000
Kealahou Bay State Historical Park <u>13/</u>	-	26,000	36,000
Kilauea Visitor Center .....	433,144	381,346	425,198
Lapakahi State Historical Park <u>6/</u> .....	68,000	73,000	71,000
Lyman House Memorial Museum .....	16,260	21,013	20,199
Maui .....	354,502	807,670	808,498
Halekii-Pihana Heiaus State Monument <u>6/</u> .	53,000	57,000	50,000
Kula Botanical Gardens <u>14/</u> .....	24,800	21,995	22,540
Lahaina Restoration Foundation .....	119,327	162,988	167,724
Baldwin Home Museum .....	41,333	43,414	43,454
Brig <u>Carthaginian</u> .....	68,203	73,201	76,835
Hale Pa'i .....	7,691	8,461	7,615
Wo Hing Temple <u>15/</u> .....	2,100	37,912	39,820
Maui Historical Society Museum .....	7,711	15,687	18,234
Maui Plantation <u>16/</u> .....	149,664	550,000	550,000
Kauai .....	533,006	493,700	496,496
Grove Farm Homestead .....	4,420	4,664	4,901
Hanalei Museum <u>17/</u> .....	6,000	6,500	6,500
Kauai Museum <u>18/</u> .....	20,102	20,248	25,345
Kokee Natural History Museum .....	72,299	83,424	83,485
Olu Pua Gardens .....	(NA)	4,800	6,696
Pacific Tropical Botanical Garden .....	2,496	5,229	6,899
Russian Fort Elizabeth State Historical Park <u>19/</u> .....	425,000	375,000	359,000
Waioli Mission House .....	5,185	3,864	3,670
Molokai .....	10,004	12,012	6,737
Kalaupapa Settlement .....	10,004	12,012	6,737

NA Not available.

1/ Years ended June 30. Excludes Falls of Clyde Maritime Museum, operated by the Bishop Museum until November 1, 1983 but listed separately in this table.

2/ Closed part of 1984 and most of 1985; reopened February 11, 1986.

3/ 1984 and 1985 figures refer to year ended June 30.

4/ Includes Falls of Clyde (60,000 in 1986) and Aloha Tower Maritime Museum (45,000 in 1986).

5/ Includes Academy Theatre (52,458 in 1984, 81,617 in 1985, and 85,697 in 1986).

Continued on next page.

Table 238.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS:  
1984 TO 1986 -- Con.

- 6/ Years ended June 30.
- 7/ Years ended September 30.
- 8/ Scheduled to close June 30, 1987.
- 9/ Closed three months in 1984.
- 10/ Includes both adult (236,466 in 1986) and child (93,605) attendance.
- 11/ Opened August 1984.
- 12/ Opened September 10, 1984.
- 13/ Beginning October 1984.
- 14/ 1982, 23,600; 1983, 28,500.
- 15/ New site opened December 17, 1984, after one-year restoration.
- 16/ Opened (as Hawaii Tropical Plantation) August 4, 1984.
- 17/ Closed November 23, 1982 to June 1984.
- 18/ Years ended September 30, 1984 and December 31, 1985 and 1986.
- 19/ Years ended June 30. Attendance estimates reflect heavy use of restrooms by tour bus passengers.

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1986 (Statistical Memorandum 87-2, June 22, 1987), table 3.

Table 239.-- ATTENDANCE AT MUSEUMS AND OTHER ATTRACTIONS: 1976 TO 1986

Year	Number of attractions	Attendance (1,000)	Year	Number of attractions	Attendance (1,000)
1976 ..	32	7,480	1982 ..	46	12,520
1977 ..	33	8,794	1983 ..	47	12,474
1978 ..	32	9,504	1984 ..	51	12,570
1979 ..	37	10,539	1985 ..	51	12,963
1980 ..	40	10,314	1986 ..	49	13,395
1981 ..	45	10,237			

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1986 (Statistical Memorandum 87-2, June 22, 1987).



Table 240.-- HONOLULU SYMPHONY ORCHESTRA: 1976-1977 TO 1986-1987

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1976-1977 .....	80	136	200,000	1,654,050
1977-1978 .....	75	109	194,474	1,980,720
1978-1979 .....	75	118	192,413	2,398,020
1979-1980 .....	75	122	186,135	2,189,172
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 <u>1/</u> ..	80	85	139,703	2,394,804

1/ Reflects musicians' strike, Aug. 8-Nov. 26, 1986.

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1985-1986 (Statistical Memorandum 87-1, February 25, 1987), table 3, and Honolulu Symphony Society, records.

Table 241.-- PERFORMING ARTS STATISTICAL SUMMARY, FOR OAHU:  
1977-1978 TO 1985-1986 SEASONS

Season	Number of groups reporting	Productions	Performances	Attendance
1977-1978 .....	12	254	1,513	850,802
1978-1979 .....	12	219	1,024	766,018
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

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1985-1986 (Statistical Memorandum 87-1, February 25, 1987), table 1.

Table 242.-- PERFORMING ARTS, FOR OAHU: 1985-1986 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups .....	353	1,245	845,328
Brigham Young University - Hawaii Campus ....	15	20	6,987
Chaminade University of Honolulu .....	1	4	600
Hawaii Loa College .....	2	8	560
Hawaii Performing Arts Company .....	6	66	15,238
Honolulu Community Theatre .....	8	130	46,000
Honolulu Department of Auditoriums, total ...	125	210	397,403
Ballets .....	4	12	13,814
Concerts .....	89	112	213,309
Operas .....	3	9	15,282
Rock shows .....	7	8	46,180
Other dramatic and musical productions ....	22	69	108,818
Honolulu Theatre for Youth .....	6	293	130,502
Leeward Community College .....	60	164	53,869
U.S. Army Support Command, total .....	108	214	152,212
Plays, musicals and workshops .....	9	58	5,598
Showmobile activities .....	26	26	85,233
DOD/USO touring shows .....	10	37	6,063
Richardson Performing Arts Center .....	12	42	32,474
Soldier bands and jam sessions .....	43	43	1,600
Special events .....	8	8	21,244
University of Hawaii at Manoa .....	16	102	38,832
Windward Community College .....	2	4	125
Windward Theater Guild .....	4	30	3,000

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1985-1986 (Statistical Memorandum 87-1, February 25, 1987), table 2.

Table 243.-- RECREATIONAL FACILITIES AND RESOURCES, BY COUNTIES: 1985

Recreation area/facility	State total	Kauai	Honolulu	Maui	Hawaii
Recreation area:					
Total acreage .....	1,572,891	137,192	59,400	249,656	1,126,643
Unimproved acreage .....	1,563,753	136,274	53,527	248,898	1,125,055
Improved acreage .....	9,138	918	5,873	758	1,588
Passive .....	3,334	275	2,057	254	747
Active .....	5,033	611	3,259	437	726
Service .....	772	32	558	67	115
Aquatic:					
Boat launch lanes .....	79	10	37	10	22
Boat moorages .....	2,750	95	2,053	254	348
Swimming pools .....	77	6	58	6	7
Beach acreage .....	490	101	306	49	34
Beach length (in miles) .	56	11	34	6	5
Wild shoreline (in miles)	39	1	1	2	35
Nonstructured/land based:					
Camping sites .....	2,065	339	499	403	824
Public hunting (in acres)	1,282,458	102,517	26,032	192,804	961,105
Court, courses fields, and playgrounds:					
Golf courses (holes) ....	1,038	144	441	219	234
Tennis courts .....	638	100	360	75	103
Sport fields .....	453	51	324	46	32
Sport courts .....	683	38	551	43	51
Trails:					
Hiking/equestrian (in miles) .....	1,112	206	78	167	661
Bikeways (in miles) .....	66	1	38	27	0

Source: Hawaii State Department of Land and Natural Resources, State Recreation Functional Plan Technical Reference Document and State Comprehensive Outdoor Recreation Plan (SCORP) (December 1985), p. 27.

Table 244.-- PEAK-DAY RESIDENT AND VISITOR PARTICIPATION IN SPECIFIED RECREATION ACTIVITIES: 1980

[Based on a survey conducted in the late summer of 1978 and projections of resident population and average visitor census for 1980. The data refer to the day of the week on which the greatest combined participation by residents and visitors occurs for the specified activity]

Activity	Activity occasions <sup>1/</sup>		Percentage participation	
	State total	Oahu only	Residents	Visitors
All activities .....	986,430	737,417	--	--
Walking .....	240,434	191,201	23	31
Jogging .....	73,068	62,181	9	2
Hiking .....	15,709	10,413	2	2
Camping .....	20,809	16,130	3	1
Group camping .....	3,804	913	0	0
Picnicking .....	84,716	58,447	10	3
Hunting .....	1,502	234	0	0
Golf .....	15,681	11,714	2	2
Swim or sunbathing .....	171,525	123,616	16	26
Diving .....	20,875	13,483	2	3
Surfing .....	22,608	15,587	2	3
Boating .....	18,563	13,547	3	3
Canoe paddling .....	3,233	1,786	0	0
Fishing .....	24,875	17,322	3	1
Field games .....	32,404	27,065	4	0
Court games .....	19,070	15,891	2	0
Playground equipment ....	14,928	11,175	2	0
Tennis .....	18,106	12,749	2	2
Outdoor events .....	19,071	15,562	2	3
Bicycling .....	74,909	54,403	9	0
Motorcycling .....	8,722	6,719	1	1
Other activities .....	22,606	18,008	3	0
Sightseeing .....	59,212	39,271	3	18

<sup>1/</sup> An activity occasion is a peak-day participation in that activity by a member of a resident household or visitor party.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Functional Plan, Technical Reference Document and State Comprehensive Outdoor Recreation Plan (SCORP), (December 1985), pp. 32-34.

Table 245.-- NATIONAL PARKS: 1976 TO 1986

Year and area	Acreage, Dec. 31 <u>1/</u>			Visits <u>2/</u>
	Total	Federal	Non-federal	
1976 .....	235,274	235,208	66	2,895,840
1977 .....	235,274	235,208	66	2,932,555
1978 .....	236,574	235,208	1,366	3,572,504
1979 .....	236,574	235,208	1,366	3,384,343
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
AREAS: 1986				
Hawaii Volcanoes National Park ...	207,643	207,643	-	1,507,242
Haleakala National Park .....	27,350	27,350	-	1,304,330
Puuhonua o Honaunau National Historical Park .....	181	181	-	432,400
Kaloko-Honokohau National Historical Park .....	1,161	322	839	( <u>3/</u> )
Puukohola Heiau National Historic Site .....	100	34	66	56,424
U.S.S. Arizona Memorial <u>4/</u> .....	12	12	-	1,435,885
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. At the end of 1985, the NPS resurveyed vehicles at Hawaii Volcanoes, and found that what had in the past been a three to one ratio in the number of buses as compared to cars had reversed in favor of cars. Consequently, the multiplier factor used to count vehicles was adjusted downward from 5.7/vehicle to 2.39/vehicle for recreation visits and from 2.18/vehicle to 1.92/vehicle for non-recreation visits.

3/ Not yet open to the public.

4/ 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 246.-- STATE PARKS AND HISTORIC SITES: 1977 TO 1987

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1977 .....	58	20,151	681.8	18,864
1978 .....	64	20,295	706.8	15,966
1979 .....	65	20,625	880.0	17,911
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
ISLANDS: 1986				
Hawaii .....	18	1,364.8	280.4	4,894
Maui .....	12	318.2	56.3	3,771
Molokai .....	1	233.7	10.0	188
Oahu .....	32	9,164.6	392.5	4,491
Kauai .....	11	13,783.7	142.9	6,336
ISLANDS: 1987				
Hawaii .....	19	1,364.8	280.4	5,471
Maui .....	12	327.4	56.3	3,709
Molokai .....	1	233.7	10.0	184
Oahu .....	33	9,199.8	392.5	4,438
Kauai .....	11	13,783.7	142.9	6,266

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

Table 247.-- MAJOR STATE PARKS: 1986 AND 1987

[Parks having at least 800,000 recreation visits or 1,000 acres]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1986			
Wailua River State Park <sup>1/</sup> .....	1,125.9	50.4	3,114
Hapuna Beach State Recreation Area ...	61.1	20.0	1,270
Nuuanu Pali State Wayside .....	2.5	2.5	1,156
Old Kona Airport State Recreation Area	117.8	20.4	1,094
Waimea Canyon State Park .....	1,866.4	10.0	978
Kokee State Park .....	4,345.0	55.0	947
Iao Valley State Monument .....	6.2	5.9	800
Na Pali Coast State Park .....	6,175.0	4.0	51
Kahana Valley State Park .....	5,220.3	20.0	28
Sacred Falls State Park .....	1,374.2	10.0	25
1987			
Wailua River State Park <sup>1/</sup> .....	1,125.9	50.4	3,145
Hapuna Beach State Recreation Area ...	61.1	20.0	1,312
Nuuanu Pali State Wayside .....	2.5	2.5	1,172
Old Kona Airport State Recreation Area .....	117.8	20.4	1,020
Iao Valley State Monument .....	6.2	5.9	1,008
Waimea Canyon State Park .....	1,866.4	10.0	905
Kokee State Park .....	4,345.0	55.0	870
Wailuku River State Park .....	16.3	3.5	836
Sand Island State Recreation Area ....	140.0	83.0	832
Na Pali Coast State Park .....	6,175.0	4.0	62
Kahana Valley State Park .....	5,220.3	20.0	27
Sacred Falls State Park .....	1,374.2	10.0	21

<sup>1/</sup> Seven separate areas in both 1986 and 1987.

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

Table 248.-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS: 1985

Island	Total sites <u>1/</u>	Listed Hawaii Register only	Listed and recommended for National Register <u>2/</u>	Listed National Register only	Listed both Hawaii and National Register	Eligible for Nat'l Register <u>3/</u>
State total	376	90	40	92	119	37
Hawaii ....	87	36	2	18	23	9
Kauai .....	45	12	4	5	19	5
Kahoolawe .	1	-	-	1	-	-
Lanai .....	1	-	-	1	-	-
Maui .....	34	19	1	5	8	1
Molokai ...	55	14	14	2	24	2
Oahu .....	153	9	19	60	45	20

1/ Total sites listed in the source, as adjusted for appearance of some sites on more than one list.

2/ Sites placed on the Hawaii Register of Historic Places by the Historic Places Review Board but not yet approved by either the State Historical Preservation Officer or the National Historical Places Review Board.

3/ Sites declared eligible for National Register listing by the National Board.

Source: Hawaii State Department of Land and Natural Resources, State Parks, Outdoor Recreation, and Historic Sites Division, Hawaii Historic Places Review Board, Hawai'i/National Registers of Historic Places (February 1985).



Table 249.-- COUNTY PARKS, BY ISLANDS:  
1982 TO 1986

[As of December 31]

Subject	1982	1983	1984	1985	1986
Number, total .....	548	547	551	551	560
Hawaii .....	134	135	135	134	141
Maui .....	82	79	80	80	82
Lanai .....	2	3	3	3	3
Molokai .....	10	10	11	11	11
Oahu .....	264	264	266	266	266
Kauai .....	56	56	56	57	57
Acreage, total .....	8,177	8,238	8,248	8,222	8,227
Hawaii .....	1,445	1,460	1,463	1,434	1,424
Maui .....	921	899	899	899	905
Lanai .....	5	7	7	7	7
Molokai .....	51	51	54	54	54
Oahu .....	5,235	5,238	5,242	5,242	5,251
Kauai .....	520	583	583	586	586

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

Table 250.-- ZOOS: 1984 TO 1986

Subject and zoo	1984	1985	1986
Species: 1/			
Coco Palms (Kauai) .....	6	6	8
Honolulu Zoo .....	305	278	289
Maui Zoological & Botanical Gardens .	42	40	38
Molokai Ranch Wildlife Park .....	11	9	7
Panaewa Rainforest Zoo (Hilo) .....	52	53	53
Individuals: 1/			
Coco Palms (Kauai) .....	75	68	68
Honolulu Zoo .....	1,120	1,071	1,037
Maui Zoological & Botanical Gardens .	163	152	147
Molokai Ranch Wildlife Park .....	463	504	855
Panaewa Rainforest Zoo (Hilo) .....	173	182	160
Attendance:			
Coco Palms (Kauai) .....	3,331	5,423	6,142
Honolulu Zoo .....	703,535	782,866	801,418
Maui Zoological & Botanical Gardens .	87,000	80,000	80,000
Molokai Ranch Wildlife Park .....	3,000	4,500	8,029
Panaewa Rainforest Zoo (Hilo) .....	36,040	39,949	53,212

1/ Animal and bird inventory, December 31.

Source: Data obtained by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel, Molokai Ranch Wildlife Park, and the parks and recreation departments of the City and County of Honolulu and counties of Hawaii and Maui.

Table 251.-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS,  
FOR THE CITY AND COUNTY OF HONOLULU: 1986 AND 1987

[Years ended June 30]

Subject	1986	1987
Approximate attendance, total <u>1/</u> (1,000) .	14,801	16,975
Ala Moana .....	1,659	1,397
Waikiki .....	7,503	6,319
Hanauma Bay .....	2,038	3,564
Sandy Beach .....	491	741
Kailua .....	391	648
Waimea Bay .....	510	860
Makaha .....	462	742
Rescues .....	1,273	1,899
First aid: Minor .....	28,496	21,861
Major .....	823	1,173
Drownings .....	11	10

1/ Based on headcounts taken at approximately two-hour intervals by Water Safety Officers over an 8-hour work day. Data shown separately for beach areas over 500,000 in either 1986 or 1987.

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

Table 252.-- COUNTY TENNIS FACILITIES: 1983 TO 1986

[As of December 31]

Island	Locations				Courts			
	1983	1984	1985	1986	1983	1984	1985	1986
State total ...	86	88	89	89	259	265	271	274
Hawaii .....	21	21	21	20	45	45	45	44
Maui .....	12	12	12	12	32	32	34	34
Lanai .....	1	1	1	1	2	2	2	2
Molokai .....	1	1	1	1	2	2	2	2
Oahu .....	41	43	44	45	154	160	164	168
Kauai .....	10	10	10	10	24	24	24	24

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the county departments of parks and recreation.

Table 253.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU:  
1981 TO 1986

Calendar year	Public golf courses			Camping permits issued <u>1/</u>
	Courses	Holes	Rounds played	
1981 .....	4	63	461,543	5,989
1982 .....	4	63	447,782	6,412
1983 .....	4	63	494,610	7,462
1984 .....	4	63	484,691	8,062
1985 .....	4	63	484,594	6,937
1986 .....	4	63	536,204	8,049

1/ By the City and County of Honolulu.

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

Table 254.-- GOLF COURSES, BY ISLANDS: 1984

Island and type of operation	Number of courses				Number of holes
	Total	9-hole	18-hole	27-hole	
State total ..	57	12	44	1	927
Hawaii .....	11	2	9	-	180
Public 1/ .....	4	2	2	-	54
Municipal .....	1	-	1	-	18
Resort .....	6	-	6	-	108
Maui .....	10	2	8	-	162
Private .....	1	1	-	-	9
Public 1/ .....	1	1	-	-	9
Municipal .....	1	-	1	-	18
Resort .....	7	-	7	-	126
Lanai .....	1	1	-	-	9
Public 1/ .....	1	1	-	-	9
Molokai .....	2	1	1	-	27
Public 1/ .....	1	1	-	-	9
Resort .....	1	-	1	-	18
Oahu .....	28	5	23	-	459
Private .....	4	-	4	-	72
Public 1/ .....	8	1	7	-	135
Municipal .....	4	1	3	-	63
Military .....	9	3	6	-	135
Resort .....	3	-	3	-	54
Kauai .....	5	1	3	1	90
Public 1/ .....	1	1	-	-	9
Municipal .....	1	-	1	-	18
Resort .....	3	-	2	1	63

1/ Privately owned courses open to the public on daily-fee basis.

Source: Bill Gee, 1984 Hawaiian Golf Almanac (Hawaii Junior Golf Association), pp. 3 and 8.

Table 255.-- HAWAIIAN OPEN SCORES AND PURSES: 1982 TO 1987

[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	Winning score		Purse (dollars)	
	Total	Below par	Total	Winner
1982 .....	277	11	325,000	58,500
1983 .....	268	20	325,000	58,000
1984 .....	*271	17	500,000	90,000
1985 .....	267	21	500,000	90,000
1986 .....	272	16	500,000	90,000
1987 .....	*270	18	600,000	108,000

\* Sudden-death playoff.

Source: Sunday Star-Bulletin and Advertiser, February 1, 1987, p. D-13; Honolulu Advertiser, February 9, 1987, p. F-1.

Table 256.-- FISHING AND HUNTING LICENSES ISSUED: 1982 TO 1987

[Years ended June 30]

Type of license	1982	1983	1984	1985	1986	1987
Freshwater game fishing ..	8,526	8,720	9,866	7,131	8,200	8,669
Hunting .....	11,935	11,959	12,107	12,599	12,776	12,748

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

Table 257.-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES,  
BY ISLANDS: FEBRUARY 1986

Island	Public hunting areas		National Wildlife Refuges <u>1/</u>		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total .....	61	1,026.2	6	256.0	11	80.6
Hawaii .....	26	727.9	-	-	4	79.5
Maui .....	7	102.5	-	-	2	0.1
Lanai .....	1	35.6	-	-	-	-
Molokai .....	3	27.5	1	0.0	-	-
Oahu .....	13	26.0	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 258. -- FISHING AND HUNTING CHARACTERISTICS OF PERSONS 16 YEARS AND OVER, BY RESIDENT STATUS: 1980

Activity and characteristic	Resident in-State	Nonresident in-State	Resident out-of-State
FISHING			
Participants .....	153,200	90,700	15,100
Freshwater .....	16,400	13,100	8,600
Saltwater .....	149,400	90,000	7,500
Deep sea .....	25,900	37,400	500
Surf and shore .....	132,300	46,300	3,100
Sounds, bays, tidal inlets, streams ..	4,400	6,900	5,100
Participants as percent of population ....	21.7	(X)	2.1
Days of participation .....	3,017,900	257,700	242,700
Per fisherman .....	19.7	2.8	16.1
HUNTING			
Participants .....	17,300	11,100	3,300
Deer .....	2,400	-	900
Wild turkey .....	1,800	-	400
Feral goat .....	9,100	5,700	-
Feral sheep .....	3,900	-	-
Feral pigs .....	10,600	4,900	-
Quail .....	3,500	9,900	500
Pheasant .....	7,500	9,900	400
Partridge .....	2,700	-	400
Migratory birds .....	2,300	5,500	200
Participants as percent of population ....	2.4	(X)	0.5
Days of participation .....	301,800	40,100	34,700
Per hunter .....	17.4	3.6	10.6

X Not applicable.

Source: U.S. Fish and Wildlife Service and U.S. Bureau of the Census, 1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, Hawaii.



Table 259.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1986

Island	Small craft mooring facilities capacity <u>1/</u>		Miles of sandy shoreline <u>2/</u>		Number of surfing sites <u>3/</u>
	Catwalks and piers	Other mooring areas	Total	Primary <u>4/</u>	
Six major islands .	1,365	690	184.9	24.4	1,600
Hawaii .....	29	307	19.4	1.2	185
Maui .....	53	146	32.6	7.9	212
Lanai .....	28	-	18.2	-	99
Molokai .....	3	29	23.2	-	180
Oahu .....	1,198	167	50.3	12.5	594
Kauai .....	54	41	41.2	2.8	330

1/ As of December 31, 1986.

2/ Surveyed in 1962.

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."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (quarterly); 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 260.-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND WINNING TIMES: 1977 TO 1987

[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
1977 .....	66	8:11:01:45	8:11:29:24
1979 .....	80	11:18:01:04	11:14:42:51
1981 .....	70	8:11:02:31	7:21:44:48
1983 1/ ...	66	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

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

Source: Jack Smock, Transpac, A History of the Great Race to Honolulu ... (1980), pp. 470, 497-498, 521-522, 552, and 669; The Transpacific Yacht Club, 1982-83 Transpacific Yacht Club Year Book (1983); Honolulu Advertiser, July 12, 1983, p. B-1, July 4, 1985, p. E-3, and July 19, 1985, p. G-3; Honolulu Star-Bulletin, July 15, 1983, p. C-3; Sunday Star-Bulletin and Advertiser, July 10, 1983, p. F-1; Waikiki Yacht Club, records.

Table 261.-- YACHT RACING EXPENDITURES IN HAWAII, FOR  
MAJOR RACES: 1984 AND 1985

[\$1,000. All four races are sailed at biennial intervals]

Category	2-year total	Trans- pac: 1985 <u>1/</u>	Victoria- Maui: 1984 <u>2/</u>	Kenwood Cup: 1984 <u>3/</u>	Pacific Cup: 1984 <u>4/</u>
Total expenditures ....	10,909	2,365	2,237	13,264	1,043
Direct expenditures .....	10,867	1,359	1,286	7,623	599
Administrative costs .....	639	15	12	607	5
Yacht services <u>5/</u> .....	1,345	259	97	926	62
Miscellaneous expend. <u>6/</u> .	8,883	1,085	1,176	6,090	532
Indirect expenditures <u>7/</u> ...	8,042	1,006	951	5,641	444

1/ Transpacific Yacht Race, Los Angeles to Honolulu. First sailed 1906.

2/ Victoria, B.C., to Lahaina, Maui. First sailed 1965.

3/ Around the State. First sailed, as Royal Hawaiian Cup, in 1972; as Clipper Cup, 1978; as Hawaii International Ocean Racing Series (Kenwood Cup) after 1984.

4/ San Francisco to Nawiliwili, Kauai. First sailed 1980.

5/ Provisions, yacht delivery, etc.

6/ By crew members, family members, and associates.

7/ Secondary and tertiary effects that the races have on the State's economy.

Source: Mike Markrich, Yacht Racing Expenditures in Hawaii (University of Hawaii Sea Grant College Program and DPED Ocean Resources Branch, June 1986).

Table 262.-- TRIATHLON, OCEAN SWIM, AND BIATHLON EXPENDITURES,  
BY TYPE: 1985

Type of event	Events	Expenditures (\$1,000)			
		Direct and in-direct	Direct <u>1/</u>		Indirect <u>2/</u>
			Total	Race organization	
Total .....	35	9,522	5,566	1,015	3,956
Triathlons .....	13	9,264	5,324	960	3,940
Ironman <u>3/</u> .....	1	7,533	4,329	825	3,204
Others .....	12	1,731	995	135	736
Ocean swims .....	13	236	220	34	16
Biathlons .....	9	22	22	22	-

1/ Includes race organization expenditures, athletes' and dependents' living expenses, athletes' race-related expenditures, and media expenses.

2/ Secondary and tertiary expenditure effects on State's economy.

3/ Bud Light Ironman Triathlon World Championship.

Source: Mike Markrich, Triathlons, Ocean Swims, and Biathlons in Hawaii, Expenditures for 1985 (University of Hawaii Sea Grant College Program and Ocean Resources Branch, Hawaii State Department of Planning and Economic Development, September 1986).

Table 263.-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP REGISTRANTS,  
FINISHERS, AND WINNING TIMES: 1978 TO 1987

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1978 .....	15	12	11:46:58	--
1979 .....	15	12	11:15:56	12:55:38
1980 .....	108	94	9:24:33	11:21:24
1981 .....	326	299	9:38:29	12:00:32
1982 (Feb.) ..	580	541	9:19:41	11:09:40
1982 (Oct.) ..	850	775	9:08:23	10:54:08
1983 .....	964	838	9:05:57	10:43:36
1984 .....	1,036	903	8:54:20	10:25:13
1985 .....	1,018	965	8:50:54	10:25:22
1986 .....	1,039	951	8:28:37	9:49:14
1987 .....	1,381	1,286	8:34:13	9:35:25

Source: Bud Light Ironman Triathlon World Championship, February 19, 1987, and records.

Table 264.-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND  
WINNING TIMES: 1982 TO 1987

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1982 ....	12,275	10,023	2:15:30	2:41:10
1983 ....	10,847	8,434	2:20:18	2:41:25
1984 ....	10,653	8,166	2:16:25	2:42:49
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

Source: Honolulu Marathon Association, records.

Table 265.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1985 TO 1987

[The Hawaii Islanders were members of the Pacific Coast League for 27 seasons. They played their first league game April 20, 1961 and their final game September 1, 1987].

Season	Games						Home dates	
	Number played	Won	Lost	Tied	Percent won	Ahead or behind	Number	Attendance
1985:								
First half ....	71	42	29	-	.592	+4.5	32	50,885
Second half ...	72	42	30	-	.583	-1	30	83,979
Div. playoffs .	3	-	3	-	.000	-3	1	2,281
1986:								
First half ....	72	32	40	-	.444	-11.5	32	40,561
Second half ...	72	33	39	-	.458	-11	28	44,100
1987:								
First half ...	71	34	36	1	.486	-9	29	57,929
Second half ..	71	31	39	1	.443	-6	32	58,178

Source: Ferd Borsch, Hawaii Islanders scorer, records.

Table 266.-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:  
1982-1983 TO 1986-1987 SEASONS

Bowl	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987
Aloha Bowl .....	30,002	37,212	37,996	30,574	20,666
Hula Bowl .....	39,456	26,829	25,890	20,943	17,775
Pro Bowl .....	49,883	47,482	48,124	47,906	46,799

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

Table 267.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA:  
1980-1981 TO 1986-1987

[Data limited to games played against four-year collegiate teams]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball: 1/					
1980-1981 .....	50	16	-	38	40,972
1981-1982 .....	59	17	-	42	63,846
1982-1983 .....	47	20	-	36	51,133
1983-1984 .....	48	22	1	42	104,177
1984-1985 .....	56	31	-	61	106,526
1985-1986 .....	43	24	-	42	114,367
1986-1987 .....	45	19	-	42	105,646
Basketball: 2/					
1980-1981 .....	14	13	-	18	83,785
1981-1982 .....	17	10	-	19	73,869
1982-1983 .....	17	11	-	18	72,343
1983-1984 .....	12	16	-	16	59,239
1984-1985 .....	10	18	-	19	75,070
1985-1986 .....	4	24	-	18	51,484
1986-1987 .....	7	21	-	17	49,514
Football:					
1980-1981 .....	8	3	-	8	342,862
1981-1982 .....	9	2	-	8	340,261
1982-1983 .....	6	5	-	8	336,193
1983-1984 .....	5	5	1	8	339,138
1984-1985 .....	7	4	-	9	411,884
1985-1986 .....	4	6	2	8	359,042
1986-1987 .....	7	5	-	8	359,242

1/ Including the Rainbow Easter Tournament and post-season play.

2/ Including the Rainbow Classic.

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

Table 268.-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:  
1986-1987 SEASON

Sport	Players	Games <u>1/</u>	Attendance	Expenditure <u>2/</u> (dollars)
Baseball ..	Boys .....	356	65,435	192,435
Basketball	Boys and girls	872	128,212	412,869
Football ..	Boys .....	252	354,465	602,115

1/ Junior varsity and varsity games, based on published schedules of sports 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, Athletics Program, records.

Table 269.-- BOWLING ESTABLISHMENTS (SIC 7933): 1982

[Includes only establishments with payroll]

Subject	Number	Source of receipts from customers	Amount (\$1,000)
Establishments .....	18	Receipts, total .....	8,069
Lanes operated, Dec. 31 .....	389	Bowling .....	6,545
Per establishment .....	22	Sales of food, refreshments. and alcoholic beverages ..	788
Paid lines bowled (1,000) ....	6,052	Other sources .....	736

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), table 22.



Table 270.-- PROFESSIONAL BOXING: 1969 TO 1986

Year	Number of promoters	Number of shows	Paid attendance	Gross receipts (dollars)
1969 ...	2	35	160,539	810,287.75
1970 ...	1	23	89,342	429,647.50
1971 ...	1	22	107,940	589,369.75
1972 ...	3	30	109,835	766,117.50
1973 ...	3	27	86,549	727,970.25
1974 ...	2	22	70,050	468,019.00
1975 ...	2	21	63,684	358,960.75
1976 ...	3	15	36,530	260,971.50
1977 ...	1	12	49,975	270,345.75
1978 ...	1	8	38,374	280,661.00
1979 ...	3	20	69,956	504,699.50
1980 ...	3	21	57,672	419,460.00
1981 ...	4	20	54,476	422,790.50
1982 ...	2	8	9,713	86,128.00
1983 ...	3	12	22,178	200,148.50
1984 ...	1	9	14,937	156,260.00
1985 ...	1	9	18,278	201,852.00
1986 ...	2	6	7,181	67,105.00

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

Table 271.-- DOG LICENSES ISSUED, BY ISLANDS: 1981 TO 1986

[Dogs are licensed on a biennial basis]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1981 ....	46,706	5,532	4,349	140	393	35,081	1,211
1982 ....	25,617	1,682	1,500	32	62	20,845	1,496
1983 ....	41,566	3,397	3,454	98	203	33,597	817
1984 ....	19,661	1,974	1,372	38	119	15,832	326
1985 ....	33,598	2,809	2,171	35	111	27,654	818
1986 ....	18,713	2,078	1,204	12	39	15,151	229

Source: Compiled by the Hawaii State Department of Planning and Economic Development 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 420,000 persons were registered to vote in the general election of November 4, 1986, and more than 344,000 actually voted. The number voting amounted to 44 percent of the 782,000 Hawaii residents of voting age at that time. The latter figure included 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 1986 primary and general elections (other than for federal offices) exceeded \$12.8 million.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 9 Councilmanic districts. It also contains 15 Soil Conservation districts, 30 active Neighborhood Board districts, and 284 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 for all races is 18 years.

The 1987 State Legislature, with 76 members, included 60 males, 36 persons under 40 years of age, 28 persons of Japanese ancestry, 18 persons born in places other than Hawaii, and 60 Democrats.

In its 1987 session, the State Legislature considered 3,716 bills; 422 were passed and 384 became law. The Legislature also considered 1,171 resolutions, of which 490 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: 1987, Section 8.

Table 272.-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS:  
NOVEMBER 1984 AND 1986

Office	Election districts		Officials to be elected <u>1/</u>		Total elected officials, including holdover	
	1984	1986	1984	1986	1984	1986
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	13	12	25	25
State House of Representatives .....	51	51	51	51	51	51
Board of Education .....	2	2	13	6	13	13
Office of Hawaiian Affairs .....	...	...	4	5	9	9
Soil and water conservation dist. <u>2/</u>	15	15	...	...	45	45
County offices:						
Mayor .....	...	...	3	2	4	4
Council:						
Hawaii .....	...	...	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> .....	28	30	-	-	416	438
Precincts .....	276	284	-	-	-	-

1/ Including vacancies to be filled.

2/ Three seats are elected and two are appointed for each district.

Elections are an ongoing process.

3/ There are 28 active districts out of 33 areas. Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, November 12, 1986.

Table 273.-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1960 TO 1986

[As of November. Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii]

Year	Persons of voting age	Percent casting votes	
		For Presidential Electors	For U.S. Representatives
1960 .....	371,000	49.7	49.2
1962 .....	390,000	(X)	49.9
1964 .....	404,000	51.3	56.9
1966 .....	417,000	(X)	49.9
1968 .....	439,000	53.8	55.3
1970 .....	473,000	(X)	44.0
1972 .....	547,000	49.4	50.3
1974 .....	586,000	(X)	44.3
1976 .....	624,000	46.7	47.0
1978 .....	657,000	(X)	38.6
1980 .....	696,000	43.6	40.3
1982 .....	725,000	(X)	41.1
1984 <sup>1/</sup> .....	758,000	44.3	36.4
1986 .....	<sup>2/</sup> 782,000	(X)	42.3

X Not applicable.

<sup>1/</sup> Revised from Data Book 1985, table 239.

<sup>2/</sup> Of this number, approximately 148,000 were aliens or were military personnel and dependents with legal residence elsewhere. There were thus around 634,000 persons eligible to vote, of whom 66.2 percent were registered and 54.3 percent actually voted in November 1986.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States: November 1980," Current Population Reports, Series P-25, No. 879, March 1980; "Projections of the Population of Voting Age for States: November 1982," Current Population Reports, Series P-25, No. 916, July 1982; "Projections of the Population of Voting Age for States: November 1984," Current Population Reports, Series P-25, No. 948, April 1984; and "Census Bureau Projects Highest Voting-Age Population Total," Release CB86-65, April 25, 1986. Persons eligible to vote, registered, and casting votes in 1986 calculated by DPED.

Table 274.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING  
IN ELECTIONS, 1984 AND 1986, AND BY COUNTIES, 1986

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

Election	The State		Counties: 1986			
	1984	1986	Hawaii	Maui	Hono- lulu	Kauai
Registered:						
Primary .....	40.8	39.7	43.1	40.5	38.6	47.5
General .....	42.8	41.8	44.9	43.5	40.7	49.4
Voting:						
Primary .....	22.7	28.0	28.3	27.7	27.5	36.5
General .....	35.7	34.3	36.1	35.5	33.4	42.1

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election; Department of Business and Economic Development, unpublished estimates of civilian population by counties.

Table 275.-- REPORTED VOTING AND REGISTRATION, BY SEX: NOVEMBER 1986

[Number 18 and over in thousands. 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 .....	714	57.9	1.9	53.0	2.0
Male .....	347	56.5	2.8	52.6	2.8
Female .....	367	59.3	2.7	53.4	2.7
White .....	201	64.0	3.5	55.9	3.7

Source: U.S. Bureau of the Census, "Voting and Registration in the Election of November 1986," Current Population Reports, Population Characteristics, Series P-20, No. 414, September 1987, p. 25.

Table 276.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS: 1970 TO 1986

Type and date of election	Registered voters <u>1/</u>			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
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

NA Not available.

1/ Data by sex not available for primary elections before 1976.

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

Table 277.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY  
AND GENERAL ELECTIONS, BY COUNTIES: 1986

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

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total ..	398,197	189,655	208,542	281,352	70.7
Hawaii .....	48,166	23,128	25,038	31,636	65.7
Maui .....	35,454	16,925	18,529	24,221	68.3
Honolulu .....	292,653	138,867	153,786	208,638	71.3
Kauai .....	21,924	10,735	11,189	16,855	76.9
Overseas .....	-	-	-	2	...
GENERAL ELECTION					
State total ..	419,794	200,233	219,561	344,416	82.0
Hawaii .....	50,107	24,118	25,989	40,370	80.6
Maui .....	38,055	18,204	19,851	31,103	81.7
Honolulu .....	308,808	146,707	162,101	253,490	82.1
Kauai .....	22,824	11,204	11,620	19,449	85.2
Overseas .....	-	-	-	4	...

Source: Office of the Lieutenant Governor, records.

Table 278.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS:  
1976 TO 1986

Primary election	Total votes cast	Democratic	Republican	Other parties	Non-partisan	Invalidated
1976 .....	251,457	215,037	35,495	568	357	-
1978 <sup>1/</sup> ..	289,029	262,531	25,642	211	548	-
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

<sup>1/</sup> Party data add to 288,932 rather than reported total.

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

Table 279.-- PARTY OF VOTES CAST IN PRIMARY ELECTION, BY COUNTIES:  
SEPTEMBER 20, 1986

Party	State total	Hawaii County	Maui County	City and County of Honolulu	Kauai County
Total votes cast ....	281,352	31,636	24,221	208,640	16,855
Democratic .....	235,559	26,572	17,908	175,778	15,301
Libertarian <sup>1/</sup> .....	-	-	-	-	-
Republican .....	44,304	4,977	6,204	31,626	1,497
Nonpartisan .....	1,023	74	76	826	47
Invalidated .....	466	13	33	410	10

<sup>1/</sup> Not on primary ballot.

Source: Office of the Lieutenant Governor, printouts.



Table 280.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:  
PRIMARY AND SPECIAL ELECTIONS, SEPTEMBER 20, 1986

Office, party and candidate	Votes
PRIMARY ELECTION:	
U.S. SENATOR	
Democrat:	
Daniel K. Inouye .....	191,676
Republican:	
Marvin Franklin .....	9,714
Frank Hutchinson .....	20,375
Nonpartisan:	
Elizabeth A. P. Stone .....	614
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democrat:	
Neil Abercrombie .....	45,107
Louis Agard .....	898
Steve Cobb .....	22,779
Mufi Hannemann .....	46,269
Republican:	
Patricia Saiki .....	17,453
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Democrat:	
Daniel Akaka .....	93,729
Republican:	
Maria M. Hustace .....	14,404
GOVERNOR	
Democrat:	
Johnny Fritz .....	654
Cec Heftel .....	83,939
Tony Hodges .....	1,732
William K. Kuaiwa .....	918
Patsy T. Mink .....	37,998
Paul H. Snider .....	740
John Waihee .....	105,579
Republican:	
D.G. Anderson .....	38,790
Charles Y. Hirayasu .....	531
Jack J. Mahakian .....	403
Wayne C. Thiessen .....	1,277

Continued on next page.

Table 280.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:  
PRIMARY AND SPECIAL ELECTIONS, SEPTEMBER 20, 1986 -- Con.

Office, party, and candidate	Votes
PRIMARY ELECTION -- Con.:	
LIEUTENANT GOVERNOR	
Democrat:	
Eileen R. Anderson .....	87,317
Ben Cayetano .....	130,124
Frank DeCambra .....	3,259
Helen M. A. Lai .....	4,490
Republican:	
Vicky Bunye .....	8,799
John H. Felix .....	17,228
Richard I. Sutton .....	3,268
Cynthia Thielen .....	11,325
MAYOR COUNTY OF MAUI	
Democrat:	
Bill Eger .....	3,639
Marvin Miura .....	7,952
Republican:	
Joe Bulgo .....	1,759
Hannibal Tavares .....	4,251
MAYOR, COUNTY OF KAUAI	
Democratic:	
Raymond X. Aki .....	6,366
Tony T. Kunimura .....	7,739
Republican:	
John F. Barretto, Jr. ....	1,131
John Sousa .....	145
SPECIAL ELECTION:	
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Neil Abercrombie (Democrat) .....	42,031
Patricia Saiki (Republican) .....	41,067
Mufi Hannemann (Democrat) .....	39,800
Steve Cobb (Democrat) .....	16,721
Louis Agard (Democrat) .....	566
Blase Harris (Nonpartisan) .....	460

Source: Office of the Lieutenant Governor,  
printouts.

Table 281.-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES CAST,  
BY ISLANDS: NOVEMBER 4, 1986

Island	Number of precincts	Registered voters	Votes cast <u>1/</u>
State total .....	284	419,794	344,387
Hawaii .....	51	50,107	40,368
Maui .....	31	34,263	28,386
Lanai .....	1	865	753
Molokai: Molokai District .....	4	2,829	1,891
Kalawao District .....	1	98	71
Oahu <u>2/</u> .....	178	308,808	253,466
Kauai .....	17	22,699	19,371
Niihau .....	1	125	77

1/ Total includes 4 overseas voters.

2/ Including the Northwestern Hawaiian Islands, part of the 5th Precinct of the 20th Representative District, in Waimanalo, Oahu.

Source: Office of the Lieutenant Governor, 1986 General Elections - Statewide Results, and records.

Table 282.-- AGE AND SEX OF REGISTERED VOTERS:  
NOVEMBER 4, 1986

Age	Both sexes	Male	Female
All ages .....	419,794	200,233	219,561
18 or 19 years .....	7,721	3,393	4,328
20 to 29 years .....	71,539	31,840	39,699
30 to 39 years .....	97,117	45,017	52,100
40 to 49 years .....	74,691	35,827	38,864
50 to 64 years .....	98,874	47,483	51,391
65 years and over .....	69,809	36,662	33,147
Not reported .....	43	11	32

Source: Office of the Lieutenant Governor, records.

Table 283.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1976 TO 1986

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1976 .....	291,301	Carter .....	147,375	Ford .....	140,003	3,923
1980 .....	303,287	Carter .....	135,879	Reagan .....	130,112	37,296
1984 .....	335,846	Mondale .....	147,154	Reagan .....	185,050	3,642
U.S. SENATOR						
1976 .....	302,092	Matsunaga ...	162,305	Quinn .....	122,724	17,063
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	-
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1976 .....	137,602	Hefstel .....	60,050	Rohlfing ...	53,745	23,807
1978 .....	115,412	Hefstel .....	84,552	Spillane ...	24,470	6,390
1980 .....	123,181	Hefstel .....	98,256	Noble .....	19,819	5,106
1982 .....	149,907	Hefstel .....	134,779	None .....	-	15,128
1984 .....	138,865	Hefstel .....	114,884	Beard .....	20,608	3,373
1986 <u>1</u> / .....	168,377	Hannemann ...	63,061	Saiki .....	99,683	5,633
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1976 .....	156,099	Akaka .....	124,116	Inouye, H. .	23,917	8,066
1978 .....	137,957	Akaka .....	118,272	Isaak .....	15,697	3,988
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
GOVERNOR						
1978 .....	281,587	Ariyoshi ...	153,394	Leopold ....	124,610	3,583
1982 .....	315,853	Ariyoshi ...	141,043	Anderson, D.	81,507	89,303
1986 .....	334,115	Waihee .....	173,655	Anderson, D.	160,460	-

Continued on next page.

Table 283.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,  
1976 TO 1986 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1976 .....	224,665	Fasi .....	137,911	Clement ....	82,595	4,159
1980 .....	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013
1984 .....	253,853	Anderson, E.	117,841	Fasi .....	132,875	3,137

1/ For special election to fill unexpired term of Rep. Heftel, Sept. 20, 1986, see table 280.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1976-1984, 1986 General Elections - Statewide Results, and 1986 tabular addendum.

Table 284.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES  
OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 4, 1986

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total .....	59,895	26,354	33,541	47,420	79.2
Hawaii .....	8,526	3,754	4,772	6,794	79.7
Maui .....	6,350	2,827	3,523	5,188	81.7
Honolulu .....	41,592	18,183	23,409	32,632	78.5
Kauai .....	3,427	1,590	1,837	2,806	81.9

Source: Office of the Lieutenant Governor, 1986 General Elections - Statewide Results, and records.

Table 285.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:  
GENERAL ELECTION, 1986

Office, candidate and party	State total <sup>1/</sup>	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
U. S. SENATOR					
Inouye (D) .....	241,887	28,247	22,379	176,839	14,419
Hutchinson (R) .....	86,910	10,367	7,010	66,021	3,511
REPRESENTATIVE TO CON- GRESS, DISTRICT 1					
Saiki (R) .....	99,683	-	-	99,681	-
Hannemann (D) .....	63,061	-	-	63,060	-
Harris (L) .....	5,633	-	-	5,633	-
REPRESENTATIVE TO CON- GRESS, DISTRICT 2					
Akaka (D) .....	123,830	29,045	22,142	57,736	14,906
Hustace (R) .....	35,371	8,348	6,464	17,837	2,722
Schoolland (L) .....	3,618	852	590	1,910	266
GOVERNOR					
Waihee (D) .....	173,655	21,153	16,494	124,920	11,088
Anderson (R) .....	160,460	17,954	13,456	121,327	7,723
MAYOR, COUNTY OF MAUI					
Tavares (R) .....	15,921	-	15,921	-	-
Miura (D) .....	13,772	-	13,772	-	-
MAYOR, COUNTY OF KAUAI					
Kunimura (D) .....	10,025	-	-	-	10,025
Barretto (R) .....	8,352	-	-	-	8,352

<sup>1/</sup> Includes overseas voters, not shown separately.

Source: Office of the Lieutenant Governor, 1986 General Elections -  
Statewide Results and tabular addendum.

Table 286.-- CAMPAIGN EXPENDITURES: 1986 ELECTIONS

[Dollars. Jan. 1, 1986 through Dec. 31, 1986]

Election and office	All candidates	Democrats	Republicans	All others
<b>PRIMARY</b>				
All races reported .	8,830,427.80	6,507,152.74	2,323,025.06	250.00
Governor .....	4,953,649.12	3,931,507.86	1,022,141.26	0.00
Lt. Governor .....	1,159,330.70	474,746.76	684,583.94	0.00
State Senator .....	387,339.77	379,005.27	8,334.50	0.00
State Representative ....	1,210,854.60	936,676.12	274,178.48	0.00
Mayor <u>1/</u> .....	274,404.51	159,286.57	115,117.94	0.00
County Council <u>2/</u> .....	844,849.10	625,930.16	218,668.94	250.00
<b>GENERAL</b>				
All races reported .	4,040,134.33	2,251,025.65	1,699,757.38	89,351.30
Governor .....	2,063,683.51	1,048,660.25	1,015,023.26	0.00
Lt. Governor .....	148,803.83	112,960.72	35,843.11	0.00
State Senator .....	241,018.26	158,453.00	82,565.26	0.00
State Representative ....	631,779.49	396,017.84	235,761.65	0.00
Mayor <u>1/</u> .....	232,336.14	125,063.38	107,272.76	0.00
County Council <u>2/</u> .....	633,161.80	409,870.46	223,291.34	0.00
Board of Education .....	73,609.19	0.00	0.00	73,609.19
Office of Hawaiian Aff. .	15,742.11	0.00	0.00	15,742.11
<b>TOTAL</b>				
All races reported .	12,870,562.13	8,758,178.39	4,022,782.44	89,601.30
Governor .....	7,017,332.63	4,980,168.11	2,037,164.52	0.00
Lt. Governor .....	1,308,134.53	587,707.48	720,427.05	0.00
State Senator .....	628,358.03	537,458.27	90,899.76	0.00
State Representative ....	1,842,634.09	1,332,693.96	509,940.13	0.00
Mayor <u>1/</u> .....	506,740.65	284,349.95	222,390.70	0.00
County Council <u>2/</u> .....	1,478,010.90	1,035,800.62	441,960.28	250.00
Board of Education .....	73,609.19	0.00	0.00	73,609.19
Office of Hawaiian Aff. .	15,742.11	0.00	0.00	15,742.11

1/ Elections held in 2 counties.2/ Elections held in 3 counties.

Source: Hawaii State Campaign Spending Commission, August 4, 1987.

Table 287.-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU: 1981 TO 1987

Year	Number of boards		Board seats elected	Ballots mailed	Voters (ballots cast)
	In operation, Dec. 31	Holding elections			
1981 .....	28	28	416	294,735	48,745
1983 .....	28	28	416	231,622	62,573
1985 .....	30	30	438	261,222	76,674
1987 .....	30	30	438	260,155	83,072

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

Table 288.-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1985 AND 1987

[As of January]

County	Total seats	Democrats		Republicans		Other parties or vacant	
		1985	1987	1985	1987	1985	1987
		All counties ....	34	29	29	5	5
Hawaii .....	9	7	7	2	2	-	-
Maui .....	9	8	7	1	2	-	-
Honolulu <sup>1/</sup> .....	9	7	8	2	1	-	-
Kauai .....	7	7	7	-	-	-	-

<sup>1/</sup> In 1985, three Democrats switched to the Republican party. After a special recall election, all three were replaced by Democrats.

Source: The Chamber of Commerce of Hawaii, Who's Who in Government, State of Hawaii for 1985-1986, pp. 30-37, and Legislative Reference Bureau, Directory of State, County and Federal Officials for 1987, pp. 95, 101, 106, and 110.



Table 289.-- LENGTH OF LEGISLATIVE SESSIONS: 1982 TO 1987

Year	Regular sessions		Special sessions	
	Date convened	Length <u>1/</u>	Date convened	Length <u>1/</u>
1982 .....	Jan. 20	99	May 5	2
1983 .....	Jan. 19	94	Sept. 1	2
1984 .....	Jan. 18	93	July 9	5
1985 .....	Jan. 16	97	None	-
1986 .....	Jan. 15	99	July 24	7
1987 .....	Jan. 21	100	None	-

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

Source: Legislative Reference Bureau, records.

Table 290.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1977 TO 1987

Regular session	House of Representatives				Senate			
	Total	Demo- crats	Repub- licans	Other	Total	Demo- crats	Repub- licans	Other
1977 <u>1/</u>	51	41	10	-	25	18	7	-
1979 ..	51	42	9	-	25	18	7	-
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	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1975-1985; Office of the Lieutenant Governor, records.

Table 291.-- COMPOSITION OF THE 1987 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Demo- crats	Repub- licans	Total	Demo- crats	Repub- licans
All members .....	51	40	11	25	20	5
Island of residence:						
Hawaii .....	6	4	2	3	2	1
Maui .....	3	3	-	2	1	1
Lanai .....	-	-	-	-	-	-
Molokai .....	1	-	1	-	-	-
Oahu .....	39	31	8	19	16	3
Kauai .....	2	2	-	1	1	-
Niihau .....	-	-	-	-	-	-
Year born:						
1926 or earlier .....	3	3	-	3	2	1
1927 to 1936 .....	10	7	3	6	5	1
1937 to 1946 .....	11	7	4	7	5	2
1947 to 1956 .....	25	21	4	9	8	1
1957 or later .....	2	2	-	-	-	-
Sex:						
Male .....	42	33	9	18	16	2
Female .....	9	7	2	7	4	3
Ethnic stock:						
Caucasian, except						
Portuguese .....	10	6	4	6	3	3
Chinese .....	4	4	-	2	2	-
Filipino .....	4	3	1	1	1	-
Japanese .....	19	18	1	9	8	1
Portuguese .....	2	1	1	-	-	-
Other (unmixed) <sup>1/</sup> ..	-	-	-	-	-	-
Mixed: Part-Hawaiian	8	7	1	6	6	-
Mixed: Non-Hawaiian .	4	1	3	1	1	-
Place of birth:						
Hawaii .....	37	32	5	21	18	3
Mainland U.S. ....	12	6	6	4	2	2
U.S. terr. or poss. .	-	-	-	-	-	-
Foreign country .....	2	2	-	-	-	-

<sup>1/</sup> Black, Hawaiian, Korean, Puerto Rican, Samoan, or other ethnic stock.

Source: Office of the Lieutenant Governor, records.

Table 292.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:  
1985 TO 1987

Action	1985: Regular	1986		1987: Regular
		Regular	Special	
<b>House bills:</b>				
Carried over from previous year	-	1,512	-	-
Introduced .....	1,660	1,199	9	1,937
Enacted 1/ .....	148	259	-	185
Vetoed 2/ , 3/ .....	12	12	-	15
Became Law 2/ , 4/ .....	134	247	-	168
<b>Senate bills:</b>				
Carried over from previous year	-	1,303	-	-
Introduced .....	1,487	1,040	3	1,779
Enacted 1/ .....	184	108	2	237
Vetoed 2/ .....	12	7	-	19
Became Law 2/ .....	172	101	2	216
<b>House resolutions:</b>				
Offered .....	483	382	-	500
Adopted .....	210	212	-	285
<b>House concurrent resolutions:</b>				
Offered .....	154	216	-	282
Adopted .....	16	59	-	61
<b>Senate resolutions:</b>				
Offered .....	194	213	-	205
Adopted .....	88	136	-	107
<b>Senate concurrent resolutions:</b>				
Offered .....	140	165	-	184
Adopted .....	6	17	-	37

1/ Includes bills for constitution amendments: H.B. 1954 in the 1986 Regular session and H.B. 572, H.B. 1267, S.B. 107, and S.B. 1139 in 1987.

2/ Excludes bills which passed the Legislature, proposing amendments to the State Constitution: H.B. 29 and H.B. 355 in 1985. The 1987 figure also excludes H.B. 2, H.B. 1469, and S.B. 1735, which contain vetoed items.

3/ Figure for 1986 regular session excludes H.B. 1741 (Act 345, S.L.H. 1986), which contains a line item veto.

4/ Figure for 1986 regular session includes H.B. 107, which became Act 3 and Act 94, S.L.H. 1986.

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 1986 reached \$4.3 billion, more than twice the level reported ten years earlier. The 1986 total included \$2.3 billion in U.S. taxes, \$1.6 billion in State taxes, and \$397 million in county taxes, licenses and fees. Individual income taxes accounted for 87 percent of Federal collections and 30 percent of State collections in Hawaii in 1986. State revenue receipts totaled \$2.6 billion, chiefly from the general excise and use tax (\$747 million), individual income tax (\$468 million) and Federal grants-in-aid (\$394 million). The largest expenditure item in the State accounts for 1986 was education, with \$773 million (out of \$2.46 billion) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (which until mid-1981 was assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State tripled between 1977 and 1987, reaching \$55 billion by the end of the period; of this total, \$8 billion was exempt from taxation. Public bonded debt outstanding at the end of 1986 exceeded \$3.3 billion.

Total government employment in 1986 averaged 94,000, about 5 percent over the 1980 average. The 1986 total included 32,100 Federal workers, 48,600 persons employed by the State, and 13,100 persons on county payrolls. State civil service employees as of mid-1986 numbered 18,400.

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: 1987, Sections 9 and 10.

Table 293.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:  
1970 TO 1986

[Thousands of dollars]

Year	All levels	Federal <u>1/</u>	State and counties <u>2/</u>		
			Total	State	Counties
1970 ....	1,061,376	602,998	458,378	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 <u>3/</u> .	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 ....	2,228,779	1,208,480	1,020,299	986,182	34,117
1979 ....	2,620,194	1,455,225	1,164,969	1,127,677	37,292
1980 ....	2,966,218	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 ....	3,314,107	1,876,628	1,437,479	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 ....	3,922,943	2,116,774	1,806,169	1,440,553	365,616
1986 ....	4,296,655	2,337,030	1,959,625	1,562,195	397,429

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.

3/ Revised from Data Book 1985, table 258.

Source: Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics (annual).

Table 294.-- TAX COLLECTIONS RELATIVE TO POPULATION AND PERSONAL INCOME, BY LEVEL OF GOVERNMENT: 1970 TO 1986

[Data include taxes collected in Hawaii from visitors and other nonresidents. Revised from Data Book 1986, table 282]

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 ..	1,376	781	594	28.1	16.0	12.2
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	15.4	12.9
1978 ..	2,329	1,297	1,095	27.7	15.0	12.7
1979 ..	2,749	1,527	1,222	29.0	16.1	12.9
1980 ..	3,061	1,724	1,337	28.9	16.3	12.6
1981 ..	3,311	1,863	1,448	29.4	16.5	12.8
1982 ..	3,321	1,881	1,441	28.2	16.0	12.2
1983 ..	3,389	1,863	1,525	26.9	14.8	12.1
1984 ..	3,528	1,912	1,617	26.8	14.5	12.3
1985 ..	3,731	2,013	1,718	26.5	14.3	12.2
1986 ..	4,054	2,200	1,845	27.2	14.8	12.4

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 DBED Statistical Report 201 and income estimates in U.S. Bureau of Economic Analysis printout dated August 1987.

Table 295.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES:  
1976, 1985, AND 1986

[In thousands of dollars]

Source	1976 <u>1/</u>	1985 <u>2/</u>	1986 <u>2/</u>
Total, all levels .....	1,821,934	3,922,943	4,296,654
Federal collections .....	945,899	2,116,774	2,337,030
Indiv. income and employment <u>3/</u> ..	783,504	1,861,697	2,025,180
Corp. income and excess profits ..	130,719	166,475	227,174
Excise .....	15,181	33,576	36,978
Estate .....	11,449	39,406	29,316
Gift .....	1,709	451	2,684
Unemployment insurance .....	3,338	15,169	15,698
State collections .....	850,639	1,440,553	1,562,195
General excise and use .....	309,903	684,028	747,102
Fuel .....	41,547	58,539	67,559
Liquor .....	15,010	20,635	29,852
Tobacco .....	9,574	19,717	19,741
Insurance .....	16,082	28,705	34,609
Public service companies .....	28,583	62,305	70,265
Corporate income <u>4/</u> .....	32,862	44,837	39,589
Indiv. income, net income <u>5/</u> .....	184,916	429,256	467,206
Inheritance and estate .....	3,254	12,260	5,971
Unemployment compensation .....	48,967	68,701	66,951
Other sources .....	159,941	11,570	13,349
County collections .....	25,396	365,616	397,429
Real property .....	-	308,156	333,670
Utility franchise .....	5,614	18,779	18,049
Motor vehicle weight <u>6/</u> .....	12,447	26,253	32,504
Other sources .....	7,336	12,447	13,206

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for Federal collections and June 30 for others.

3/ Includes withholding, FICA, individual income, and railroad retirement taxes.

4/ Includes payments of estimated taxes less refunds.

5/ Includes withheld and estimated taxes less refunds, and delinquent compensation taxes (repealed January 1, 1958).

6/ Includes State motor vehicle weight tax for 1985 and 1986.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1987, tables 13 and 29.

Table 296.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1986

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii]

Tax category <sup>1/</sup>	Amount (dollars)
Total tax burden <sup>2/</sup> .....	18,828
Direct taxes <sup>3/</sup> .....	14,581
Real property .....	808
Automobile .....	352
General excise (sales) .....	876
State income .....	2,884
Federal income .....	6,404
Social Security .....	3,330
Indirect taxes (specific taxes) .....	188
Employment taxes paid by employer .....	7,979
Social Security .....	3,330
Unemployment Compensation .....	642
Workers' Compensation .....	3,780
Temporary Disability Insurance .....	224
Assumed gross family income .....	55,256
Net income .....	36,428

<sup>1/</sup> For underlying assumptions, see source.

<sup>2/</sup> Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

<sup>3/</sup> Excludes general excise tax on gasoline.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (July 1987).



Table 297.-- FAMILY TAX BURDEN, BY NUMBER OF WAGE EARNERS AND DEPENDENTS AND GROSS INCOME, FOR HONOLULU: 1988

Subject	2 incomes, no dependents			1 income, 3 dependents		
	\$15,000	\$35,000	\$75,000	\$15,000	\$35,000	\$75,000
Total tax liability ..	\$1,862	\$5,993	\$19,337	\$1,200	\$5,515	\$17,898
Percent of income ..	12.4	17.1	25.8	8.0	15.8	23.9
Federal taxes .....	915	3,003	11,767	330	2,708	10,809
State and local taxes ..	947	2,991	7,570	870	2,807	7,089
51-city index, total <u>1/</u>	0.91	1.02	1.04	0.84	1.01	1.03
Federal taxes .....	1.00	1.00	0.98	1.00	1.00	0.98
State and local taxes ..	0.84	1.05	1.16	0.80	1.02	1.12

1/ Honolulu relative to 51-city average (based on largest city in each State, plus D.C.).

Source: Government Finance Research Center of the Government Finance Officers Association, Comparative Tax Burdens: Largest City in Each State (1987), p. 43.

Table 298.-- STATE TAX CAPACITY, 1967 TO 1984, AND EFFORT, 1984

[U.S. average = 100]

Measure	1967	1975	1980	1983	1984
State tax capacity or wealth <u>1/</u> ..	99	109	107	114	118
State tax effort <u>2/</u> .....	...	...	...	...	99

1/ Tax capacity, as estimated under the Representative Tax System (RTS) methodology, is a hypothetical measure of how much revenue a state could raise if it levied national average tax rates and used tax bases representative of most other states.

2/ A measure of the extent to which a state uses the tax bases available to it, relative to the national average.

Source: U.S. Advisory Commission on Intergovernmental Relations, "1984 State Tax Wealth: Preview of the RTS Estimates," Intergovernmental Perspective, Summer 1986, pp. 24-28.

Table 299.-- STATE REVENUE RECEIPTS: 1985 AND 1986

[In thousands of dollars. Years ended June 30]

Source of revenues	1985: all funds <u>1/</u>	1986		
		All funds	General funds	Special funds
Total <u>2/</u> .....	2,388,967	2,571,665	1,564,971	1,006,694
Tax revenues .....	1,426,877	1,553,126	1,411,978	141,148
General excise .....	684,028	747,094	732,869	14,225
Specific excises <u>3/</u> .....	178,672	215,950	156,359	59,590
Individual income .....	428,722	467,644	467,644	-
Corporate income .....	44,837	38,726	38,726	-
Unemployment compensation .....	68,701	66,951	-	66,951
Other taxes, licenses, permits <u>4/</u>	21,917	16,761	16,379	381
Fines, forfeits, and escheats .....	11,366	13,229	11,882	1,347
Federal grants-in-aid .....	359,941	393,969	10,294	383,676
Revenues from other agencies .....	9,584	10,244	1,989	8,256
Rents, royalties, land income <u>5/</u> ..	23,121	24,590	4,802	19,788
Earnings: general departments .....	182,085	196,535	54,856	141,679
Earnings: auxiliary enterprises ..	29,579	30,133	-	30,133
Earnings: public service enterp. ..	113,598	122,777	-	122,777
Interest earned .....	115,104	114,331	49,723	64,608
Miscellaneous .....	117,714	112,730	19,447	93,283

1/ Revised from Data Book 1986, table 299.2/ Excludes transfers and repayments except as shown.3/ Includes public utilities, tobacco, liquor, insurance, and fuel taxes.4/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.5/ Includes investment and unallocable interest income.Source: Tax Foundation of Hawaii, Government in Hawaii, 1987, table 12.

Table 300.-- STATE OPERATING EXPENDITURES, BY FUNCTION:  
1976, 1985, AND 1986

[In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1976 data are not exactly comparable to later years. Data include general, special, and proprietary fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication]

Functions	1976	1985	1986
Total .....	1,283,471	2,330,678	2,456,119
General government: Control ....	19,050	51,787	56,203
Staff .....	58,545	92,995	138,475
Public safety: Police and fire .	184	2,066	2,260
Other protection	46,737	78,853	90,359
Highways .....	25,908	128,498	104,534
Natural resources .....	15,409	21,031	21,411
Health and sanitation .....	19,702	80,890	83,782
Hospitals and institutions .....	57,707	110,693	120,827
Public welfare .....	167,998	321,112	322,461
Education: Higher .....	147,613	272,478	299,429
Public schools .....	218,376	414,815	450,259
Libraries and other .	11,475	16,785	23,534
Recreation .....	7,987	14,256	16,751
Utilities and other enterprises	51,605	84,462	90,262
Debt service 1/ .....	92,486	232,801	262,385
Retirement and pension .....	47,898	142,354	141,454
Employees' health and hosp. insurance .....	7,672	32,644	659
Unemployment compensation .....	109,080	79,562	63,072
Grants-in-aid to counties .....	18,248	18,173	18,173
Urban redevelopment and housing	55,069	92,307	94,762
Miscellaneous .....	15,062	25,416	41,587
Cash capital improvements 2/ ...	89,661	16,700	13,480

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 \$76,991,321 in 1976, \$9,402,204 in 1985, and \$10,005,460 in 1986.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1987, table 35.

Table 301.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES,  
BY OBJECT, FOR COUNTIES: 1976, 1985, AND 1986

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

Subject	1976	1985 <u>1/</u>	1986
OPERATING REVENUES <u>2/</u>			
Total .....	333,075	586,445	640,539
Real property taxes .....	153,909	308,156	333,670
Other taxes .....	28,705	58,420	58,574
Fees, licenses, permits, and fines ...	9,159	15,392	16,479
Departmental earnings and charges ....	10,703	78,136	75,707
State grants .....	22,789	26,496	27,265
Federal grants .....	103,071	74,519	100,375
Other sources .....	4,739	25,324	28,469
OPERATING EXPENDITURES <u>3/</u>			
Total .....	327,750	592,618	610,933
General government: Control .....	5,493	8,812	8,150
Staff .....	28,815	57,376	59,322
Public safety: Police and fire .....	61,843	128,528	131,835
Other protection .....	10,840	21,971	22,682
Highways .....	17,308	27,194	29,843
Health and sanitation .....	19,975	50,107	53,069
Public welfare .....	827	6,859	7,481
Public schools .....	483	584	566
Recreation .....	20,927	40,529	41,668
Interest .....	11,011	24,054	30,324
Bond redemption .....	18,264	19,427	4,810
Pension and retirement .....	16,577	53,632	54,863
Economic and urban development .....	31,542	18,157	20,548
Mass transit .....	19,338	47,468	34,006
Miscellaneous .....	13,615	34,624	34,012
Cash capital improvements .....	50,892	53,295	77,755

Footnotes and source follow next table.

Table 302.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES,  
BY OBJECT, FOR COUNTIES: 1986

[In thousands of dollars. For year ended June 30, 1986]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES <u>2/</u>				
Total .....	480,653	58,087	68,409	33,390
Real property taxes .....	242,851	31,558	41,387	17,874
Other taxes .....	43,821	6,380	5,579	2,795
Fees, licenses, permits, and fines .....	11,534	2,378	1,848	719
Departmental earnings and charges .....	60,628	7,556	4,268	3,254
State grants .....	8,386	7,384	7,842	3,653
Federal grants .....	87,430	2,112	5,987	4,846
Other sources .....	26,003	720	1,498	249
OPERATING EXPENDITURES <u>3/</u>				
Total .....	452,113	61,494	66,183	31,143
General government: Control .....	4,628	1,007	1,620	895
Staff .....	40,505	6,746	7,200	4,871
Public safety: Police and fire ..	93,009	12,017	19,633	7,176
Other protection .	15,244	2,310	4,284	844
Highways .....	17,942	4,776	4,264	2,862
Health and sanitation .....	43,973	5,192	2,573	1,331
Public welfare .....	-	4,088	2,445	948
Public schools .....	-	179	270	117
Recreation .....	30,160	4,022	5,409	2,078
Interest .....	22,720	2,065	4,102	1,436
Bond redemption .....	76	1,858	1,643	1,233
Pension and retirement .....	38,915	3,425	9,232	3,291
Economic and urban development ...	20,548	-	-	-
Mass transit .....	33,351	-	655	-
Miscellaneous .....	27,736	3,879	1,672	3,364
Cash capital improvements .....	63,306	9,932	1,181	697

1/ Revised from Data Book 1986, table 301.

2/ Excludes loan, bond, revolving, improvement district, and certain trust funds, water revenues, Hilo Hospital, and Act 95, SLH 1965 special funds.

3/ Excludes certain revolving, bond, and Act 97 fund expenditures, loan repayments, Hilo Hospital special fund, and urban redevelopment land purchases. Interfund transfers omitted to avoid duplication.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1987, tables 24-27 and 36-39.

Table 303.-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1969 TO 1984

Year income was received	Number of returns	Number of exemptions <u>1/</u>	Adjusted gross income (less deficit)		
			Total (\$1,000)	Per return (dollars)	Per exemption <u>1/</u> (dollars)
1969 .....	290,251	716,153	2,407,048	8,293	3,361
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

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, and Winter 1985-86, p. 97; and records.

Table 304.-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 1984

Subject	Number of returns	Amount (\$1,000)
All returns and adjusted gross income (AGI) ...	461,424	9,322,406
Salaries and wages .....	400,452	7,765,670
Dividends after exclusion .....	68,520	193,874
Tax liability .....	392,619	1,224,322
Earned income credit .....	17,085	-4,464
Interest .....	336,810	722,525
Unemployment compensation in AGI .....	19,483	30,925
Itemized deductions .....	189,399	1,852,314

Source: U.S. Treasury Department, SOI Bulletin, Winter 1985-86, pp. 97-99.

Table 305.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1982 TO 1985

[By year in which income was received. Comparability from year to year is affected by changes in tax laws, changes in return forms, and other factors]

Size of adjusted gross income	1982	1983	1984	1985
All returns .....	445,953	450,097	461,424	470,745
Under \$10,000 .....	169,298	164,475	161,843	157,592
\$10,000 under \$15,000 .....	68,692	69,635	71,096	71,127
\$15,000 under \$50,000 .....	186,863	191,476	199,683	206,162
\$50,000 and over .....	21,100	24,511	28,802	35,864
Median income (dollars) ....	13,907	14,349	14,843	16,130

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, and Individual Master File for 1982, 1983, 1984, and 1985.

Table 306.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1984 AND 1985

Size of adjusted gross income	Number of returns	Adjusted gross income less deficit (\$1,000)	Total income tax	
			Number of returns	Amount (\$1,000)
1984				
All returns .....	461,424	9,322,406	392,619	1,224,322
Under \$10,000 .....	161,843	618,293	97,088	39,377
\$10,000 under \$15,000 ..	71,096	883,948	69,277	72,166
\$15,000 under \$50,000 ..	199,683	5,546,699	197,558	652,285
\$50,000 and over .....	28,802	2,273,465	28,696	460,495
1985				
All returns .....	470,745	9,965,599	401,174	1,303,224
Under \$10,000 .....	157,592	594,482	92,534	37,405
\$10,000 under \$15,000 ..	71,127	885,637	69,041	70,943
\$15,000 under \$50,000 ..	206,162	5,756,704	203,839	666,567
\$50,000 and over .....	35,864	2,728,775	35,760	528,309

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income--1984 and 1985, Individual Master File.



Table 307.-- INTERNAL REVENUE SERVICE OPERATIONS: 1984 TO 1986

Subject	1984	1985	1986
Internal revenue collections (\$1,000) .....	1,980,467	2,116,774	2,337,030
Individual income and employment taxes .....	1,744,863	1,876,866	2,040,878
Total returns filed .....	789,737	797,835	859,789
Individual income tax .....	448,974	459,491	472,022
Returns examined .....	7,019	8,197	7,326
Individual .....	6,217	7,359	6,545
Additional tax and penalties recommended after examination (\$1,000) .....	39,654	42,613	88,471
Individual .....	17,742	20,631	43,577
Costs incurred (\$1,000) .....	8,902	8,638	8,418

Source: Internal Revenue Service, Annual Report, 1984, 1985, and 1986.

Table 308.-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:  
TAX YEARS 1980 TO 1985

Year income was received	Number of resident returns	Adjusted gross income 1/ (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
1980 .....	423,858	6,506,757	4,275,817	321,738
1981 .....	448,320	6,884,575	4,479,808	336,497
1982 .....	422,535	6,912,014	4,469,031	339,108
1983 .....	424,194	7,088,769	4,695,499	360,551
1984 .....	422,245	7,604,199	4,980,484	387,300
1985 .....	427,572	8,060,406	5,284,942	415,544

1/ Exclusive of losses.

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

Table 309.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE  
INCOME TAX RETURNS, BY TYPE OF RETURN, 1968 TO 1985, AND BY  
COUNTIES, 1985

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Single <u>1/</u>	Joint	All returns	Single <u>1/</u>	Joint
1968 .....	6,180	2,595	10,618	7,474	3,815	11,235
1969 .....	6,534	2,623	11,581	7,915	3,839	12,156
1970 .....	7,018	2,969	12,358	8,348	3,981	13,072
1971 .....	7,366	2,962	12,685	8,936	4,263	13,497
1972 .....	7,462	3,284	13,515	9,218	4,553	14,358
1973 .....	7,680	3,262	14,114	9,666	4,650	15,189
1974 .....	7,844	3,774	15,319	9,945	5,193	16,667
1975 .....	8,140	3,890	16,350	10,448	5,406	17,706
1976 .....	(NA)	4,318	(NA)	10,608	5,790	18,705
1977 .....	8,726	4,236	17,716	11,057	5,838	19,718
1978 .....	9,302	4,538	20,276	12,279	6,274	22,335
1979 .....	8,738	4,757	20,073	11,804	6,875	22,636
1980 .....	9,676	5,294	21,510	13,464	7,639	24,980
1981 .....	10,220	5,794	23,321	14,737	8,455	26,881
1982 .....	11,178	6,080	23,737	15,466	9,636	27,285
1983 .....	11,297	6,432	25,047	15,937	10,009	29,076
1984 .....	12,035	6,858	25,290	16,565	10,540	28,935
1985 .....	12,488	7,087	25,838	17,124	10,710	29,870
COUNTIES: 1985						
Honolulu ...	12,768	7,343	27,279	17,461	10,787	31,060
Maui .....	13,136	8,588	23,880	16,269	11,568	27,980
Hawaii .....	9,816	4,671	19,831	15,945	9,353	24,890
Kauai .....	12,460	6,051	23,620	17,138	10,194	28,224

NA Not available.

1/ Including married filing separately and heads of households.

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

Table 310.-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1985, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (\$1,000)	Net taxable income 2/ (\$1,000)	Tax liability (\$1,000)
All resident returns ...	427,572	8,060,406	5,284,942	415,544
Taxable resident returns .....	336,152	7,876,842	5,284,942	415,544
\$1,000, under \$5,000 .....	41,637	141,353	56,215	2,075
\$5,000, under \$10,000 .....	55,508	415,203	253,313	14,315
\$10,000, under \$20,000 .....	89,964	1,298,553	885,168	60,150
\$20,000, under \$30,000 .....	58,342	1,433,778	971,408	72,833
\$30,000, under \$40,000 .....	38,295	1,326,153	881,315	68,954
\$40,000, under \$50,000 .....	23,065	1,032,328	707,037	57,651
\$50,000, under \$75,000 .....	21,778	1,297,294	874,794	75,284
\$75,000, under \$100,000 .....	4,472	378,993	263,541	24,345
\$100,000 and over .....	3,091	553,188	392,151	39,937
Nontaxable resident returns ..	91,420	183,564	...	...
Loss .....	4,049	(59,923)	...	...
Under \$5,000 .....	78,720	77,643	...	...
\$5,000, under \$10,000 .....	5,529	39,530	...	...
\$10,000 and over .....	3,122	66,391	...	...

1/ Total and subtotals exclude losses.

2/ Excludes zero bracket amount of \$297,796,400. Conforms to taxable income as defined prior to 1982.

Source: Hawaii State Department of Taxation, records.

Table 311.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:  
1985 AND 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Source of revenue	Tax base		Tax collections	
	1985	1986	1985	1986
All sources .....	24,323,273	26,290,777	707,381	777,961
Sources taxed at 4 percent .....	16,752,875	18,485,648	670,115	739,426
Retailing .....	8,499,254	9,239,373	339,970	369,575
Services .....	2,481,669	2,784,169	99,267	111,367
Contracting .....	1,367,733	1,808,024	54,709	72,321
Theater, amusement, radio .....	154,830	159,881	6,193	6,395
Interest .....	206,256	200,656	8,250	8,001
Commissions .....	318,902	365,485	12,756	14,645
Hotel rentals .....	1,122,268	1,212,782	44,891	48,511
All other rentals .....	1,914,986	2,065,668	76,599	82,627
Use (4 percent) .....	355,439	279,636	14,218	11,185
All others .....	331,538	369,974	13,261	14,799
Sources taxed at other rates <u>1/</u> ...	7,570,398	7,805,129	37,266	38,535
Insurance solicitors .....	167,438	140,120	251	210
Sugar processing .....	357,151	336,334	1,786	1,682
Pineapple canning <u>2/</u> .....	115,754	32,974	579	165
Producing .....	262,791	250,954	1,314	1,255
Manufacturing .....	527,673	568,532	2,638	2,843
Wholesaling .....	4,095,220	4,443,166	20,476	22,216
Services (intermediary) .....	116,300	127,992	582	640
Use (1/2 percent).....	1,928,071	1,905,057	9,640	9,525

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

2/ Most exported canned pineapple is now exempted from general excise taxes when major companies are granted foreign trade subzone status.

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 312.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS ON ALCOHOL BEVERAGES, BY TYPE OF BEVERAGE: 1985

[\$1,000]

Type of beverage	All levels	Federal <u>1/</u>	State and county		
			Total	State <u>2/</u>	County <u>3/</u>
All types .....	42,907	6,879	36,028	32,671	3,357
Distilled spirits ..	15,937	5,570	10,367	9,401	966
Wine .....	5,392	1,026	4,366	3,959	407
Beer .....	21,578	283	21,295	19,311	1,984

1/ Fiscal year data.

2/ Wholesale ad valorem liquor tax, penalties, interest, and license fees. Calendar year data. Data include \$13.9 million from 1985 previously held in escrow.

3/ Mostly license fees. Fiscal year data.

Source: 1985 Annual Report, Commissioner and Chief Counsel, Internal Revenue Service, p. 47; Distilled Spirits Council of the United States, Inc., letter dated August 5, 1987.

Table 313.-- REAL PROPERTY TAX VALUATIONS:  
ANNUALLY, 1977 TO 1987

[Thousands of dollars. As of January 1. Government parcels assessed at \$1 beginning in 1983; for estimated value of such parcels in 1987, see table 316]

Year	Assessment ratio <u>1/</u>	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641
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

1/ Percent of fair market value.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release, through 1980); 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 314.-- REAL PROPERTY TAX VALUATIONS: 1985 TO 1987

[In thousands of dollars]

Subject	1985	1986	1987
Assessor's gross valuation <u>1/</u> .....	51,231,020	52,814,463	54,655,038
Land .....	25,507,708	26,442,872	27,396,477
Improvement .....	25,723,312	26,371,591	27,258,561
Exemptions <u>1/</u> .....	6,986,720	7,070,511	7,665,004
Assessor's net taxable valuation ..	44,244,300	45,743,952	46,990,034
Half of valuation on appeal .....	662,879	521,067	360,075
Number of appeals .....	3,355	3,562	2,354
Valuation for tax rate purposes ...	43,581,421	45,222,885	46,629,959
Land .....	23,226,482	24,183,369	24,837,828
Improvement .....	20,354,939	21,039,516	21,792,131
Amount to be raised by taxation <u>2/</u>	324,090	334,281	344,518

1/ Government parcels assessed at \$1; see table 316 for estimated actual value.

2/ For fiscal years beginning July 1.

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

Table 315.-- REAL PROPERTY TAX VALUATIONS, BY COUNTIES: 1987

[In thousands of dollars]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation <u>1/</u> ....	39,994,368	6,635,888	5,356,740	2,668,042
Land .....	20,216,999	3,120,478	2,748,190	1,310,810
Improvement .....	19,777,369	3,515,410	2,608,550	1,357,232
Exemptions <u>1/</u> .....	6,054,141	557,154	764,848	288,861
Assessor's net taxable valuation .	33,940,227	6,078,734	4,591,892	2,379,181
Half of valuation on appeal .....	291,905	25,227	28,553	14,390
Number of appeals .....	1,101	376	667	210
Valuation for tax rate purposes ..	33,648,322	6,053,507	4,563,339	2,364,791
Land .....	18,113,213	2,952,571	2,556,110	1,215,934
Improvement .....	15,535,109	3,100,936	2,007,229	1,148,857
Amount to be raised by taxation <u>2/</u>	251,645	33,739	41,420	17,714

1/ Government parcels assessed at \$1; see table 316 for statewide data on estimated actual value.

2/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1987-1988 Tax Year, State of Hawaii (July 1987), pp. 2-5.



Table 316.-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 1987

Type of exemption	Number	Amount 1/ (\$1,000)
All exemptions .....	183,374	17,706,559
Federal government .....	457	2,350,059
State government .....	5,970	6,166,291
County government .....	3,286	1,464,676
Hawaiian Homes Commission .....	894	61,751
Homes--fee .....	121,019	3,527,883
Homes--leasehold .....	35,959	907,492
Churches .....	1,371	577,794
Government leases .....	486	622,149
Hospitals .....	75	283,419
Low-moderate income housing .....	162	302,481
Charitable organizations .....	549	368,086
Public utilities .....	787	325,884
Schools .....	129	325,380
All others .....	12,230	423,214

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, 1987-1988 Tax Year, State of Hawaii (July 1987), p. 6.

Table 317.-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES: 1987

[In thousands of dollars]

Land use class	Gross valuation, Jan. 1, 1987 <sup>1/</sup>			Amounts to be raised by taxation, fiscal 1987-88
	Total	Land	Improvement	
All classes .....	54,655,038	27,396,477	27,258,561	344,518
Improved residential ...	26,881,572	15,025,039	11,856,533	143,507
Apartment .....	8,335,028	2,480,800	5,854,228	49,796
Commercial .....	6,491,728	2,986,989	3,504,739	51,075
Industrial .....	3,870,733	2,459,495	1,411,238	31,155
Agricultural .....	2,962,862	1,970,039	992,823	21,217
Conservation .....	275,203	217,157	58,046	1,991
Hotel/resort .....	4,627,424	1,288,301	3,339,123	40,196
Unimproved residential .	1,210,488	968,657	241,831	5,582

<sup>1/</sup> Government parcels assessed at \$1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, and Exemptions, 1987-1988 Tax Year, State of Hawaii (July 1987).

Table 318.-- REAL PROPERTY TAX RATES, BY COUNTIES:  
FISCAL YEAR 1987-1988

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

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential .....	6.56	4.75	8.50	6.45
Unimproved residential ....	6.56	4.75	10.00	6.45
Apartment .....	6.56	4.75	10.00	8.70
Hotel/resort .....	10.71	7.00	10.00	8.70
Commercial .....	9.45	6.00	10.00	8.70
Industrial .....	9.45	6.00	10.00	8.70
Agricultural .....	9.00	4.75	10.00	8.70
Conservation .....	9.00	4.75	10.00	8.70
Improvement:				
Improved residential .....	6.56	4.75	8.50	5.81
Unimproved residential ....	6.56	4.75	8.50	5.81
Apartment .....	6.56	4.75	8.50	8.25
Hotel/resort .....	10.71	7.00	8.50	8.25
Commercial .....	9.45	6.00	8.50	8.25
Industrial .....	9.45	6.00	8.50	8.25
Agricultural .....	9.00	4.75	8.50	8.25
Conservation .....	9.00	4.75	8.50	8.25

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1987-1988 Tax Year, State of Hawaii (July 1987), p. 8.

Table 319.-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1980

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

Fiscal year	Amount	Fiscal year	Amount
1968 .....	848,383	1975 .....	2,060,344
1969 .....	987,814	1976 .....	2,162,221
1970 .....	963,668	1977 .....	2,065,800
1971 .....	1,075,111	1978 .....	2,507,095
1972 .....	1,173,340	1979 .....	2,659,230
1973 .....	1,435,341	1980 .....	3,151,277
1974 .....	1,643,890		

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).

Table 320.-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES:  
FISCAL YEARS 1981 TO 1986

[Millions of dollars]

Type of expenditure	1981	1982	1983	1984	1985	1986
All categories .....	3,811	3,506	4,055	4,232	4,568	4,643
Grants to State and local governments .....	443	408	457	459	436	473
Salaries and wages .....	1,487	1,615	1,736	1,809	1,942	1,961
Direct payments for individuals .....	1,008	1,106	1,253	1,321	1,444	1,517
Procurement .....	857	358	535	577	672	619
Other programs .....	17	19	74	66	73	73
Department of Defense .....	2,223	1,932	2,198	2,324	2,553	2,486
Other federal agencies .....	1,588	1,573	1,857	1,908	2,015	2,158

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1986 (March 1987), pp. 1, 37, and 38-40, and letter dated April 29, 1986.

Table 321.-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII,  
BY COUNTIES: FISCAL YEAR 1985

[Thousands of dollars]

County	All agencies	Department of Defense	All other agencies
State total <sup>1/</sup> .....	4,575,478	2,551,638	2,023,840
City and County of Honolulu ..	3,989,585	2,499,695	1,489,890
Hawaii County .....	219,625	17,521	202,104
Kauai County .....	85,804	14,328	71,476
Maui County .....	175,646	20,094	155,552
State undistributed .....	104,817	-	104,817

<sup>1/</sup> Figures differ somewhat from those in preceding table, because of treatment of Federal grants to State and local governments. In preceding table, 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, p. viii).

Source: U.S. Bureau of the Census, Consolidated Federal Funds Report, Fiscal Year 1985, Vol. I: County Areas (March 1986), pp. 14-15.

Table 322.-- STATE GENERAL OBLIGATION BOND DEBT: 1981 TO 1986

[In dollars. As of June 30]

Year	Debt	Year	Debt
1981 .....	1,331,326,266	1984 .....	1,641,694,840
1982 .....	1,464,486,784	1985 .....	1,697,635,620
1983 .....	1,590,350,534	1986 .....	1,734,971,350

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

Table 323.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS:  
1960 TO 1986

[In millions of dollars. As of December 31]

Year	Total bonded debt <sup>1/</sup>	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1960 .....	285.6	143.1	120.8	10.0	3.2	8.6
1961 .....	306.8	145.4	138.1	12.1	3.0	8.2
1962 .....	312.7	149.1	141.4	11.6	2.8	7.8
1963 .....	386.5	194.6	168.2	13.8	2.6	7.4
1964 .....	423.6	220.0	177.6	13.0	3.9	9.1
1965 .....	454.1	244.5	184.1	12.3	3.6	9.6
1966 .....	412.3	205.6	182.8	11.4	3.4	9.0
1967 .....	472.9	262.4	188.2	10.6	3.2	8.4
1968 .....	533.8	317.9	191.6	9.7	2.9	11.7
1969 .....	631.3	423.1	185.8	11.0	8.8	2.7
1970 .....	742.0	536.1	172.5	10.4	17.9	5.1
1971 .....	925.5	679.3	198.9	25.4	17.1	4.9
1972 .....	1,080.4	804.1	215.8	24.6	26.3	9.6
1973 .....	1,219.4	944.1	212.1	23.9	25.0	14.3
1974 .....	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975 .....	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976 .....	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977 .....	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978 .....	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979 .....	1,971.9	1,677.6	224.3	16.8	38.3	14.9
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

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

Source: Tax Foundation of Hawaii, A Compendium of Government Finances in Hawaii, 1949-1968 (November 1969), p. 71, and Government in Hawaii (annual).

Table 324.-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1889 TO 1986

Year	Government workers <sup>1/</sup>			State civil service workers <sup>3/</sup>	State retirement system members <sup>4/</sup>
	All levels	Federal	State <sup>2/</sup>		
1889 .....	(NA)	(NA)	1,796	-	-
1926 .....	6,566	(NA)	(NA)	(NA)	2,028
1940 .....	22,136	11,139	6,245	4,752	8,352
1945 .....	78,846	66,248	7,231	5,367	12,662
1950 .....	33,140	18,891	7,955	6,294	16,120
1960 .....	49,510	27,010	14,620	7,880	24,092
1970 .....	73,640	33,380	30,600	9,660	38,912
1980 .....	89,050	30,000	45,150	13,900	48,868
1985 .....	93,300	32,400	47,400	13,500	51,767
1986 .....	93,850	32,100	48,600	13,150	47,662

NA Not available.

<sup>1/</sup> As of August 31, 1889, Spring 1926, and annual averages thereafter.

<sup>2/</sup> Kingdom of Hawaii for 1889, Territory of Hawaii for 1926-1950, and State of Hawaii, thereafter.

<sup>3/</sup> 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 for much of this period. Coverage was granted to Territorial Board of Health and Honolulu Fire Department and Police Department employees in 1913 and was extended to most Territorial and county employees in 1939.

<sup>4/</sup> 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. Pension plans were established for teachers in 1915 and police, fire, and band employees in 1917. The present Employees' Retirement System, open to all Territorial and county workers, was established in 1926.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1978), pp. 202-203 and 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 1980-1986; Employees' Retirement System of the State of Hawaii, 58th Annual Report, June 30, 1984, p. 17, as updated; Robert M. C. Littler, The Governance of Hawaii (Stanford University Press, 1929), pp. 74 and 118.

Table 325.-- STATE CIVIL SERVICE: 1984 TO 1986

[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	1984	1985	1986
Civil service employees, June 30 .....	18,202	18,472	18,411
Department of Education .....	3,875	4,024	3,998
Department of Health .....	4,729	4,747	4,636
Department of Social Services and Housing .....	2,472	2,551	2,705
Department of Transportation .....	1,913	1,895	1,864
University of Hawaii .....	1,562	1,563	1,539
All others .....	3,651	3,692	3,669
Separations .....	2,079	1,751	1,919
Promotions <sup>1/</sup> .....	760	613	685
Transfers, demotions, and returns after promotions <sup>1/</sup> .....	688	765	788
Classification actions processed .....	2,414	3,107	3,144
Applications received .....	27,084	24,681	24,521
Applicants screened .....	27,209	25,484	22,357
Applicants placed on eligible list .....	10,741	12,323	15,373
Vacancies filled by competitive and noncompetitive actions .....	2,269	2,034	2,160

<sup>1/</sup> 1984 data revised from Data Book 1985, table 290.

Source: Hawaii State Department of Personnel Services, Annual Report, 1986, pp. 4, 6, 8, and 9.



Table 326.-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT,  
SEX, AND RACE: 1980

Level of government	Total	Sex		Race		
		Male	Female	White	Asian, Pacific Islander	Other races
All levels ....	90,401	48,400	42,001	23,366	64,456	2,579
Federal .....	32,244	21,441	10,803	9,943	20,957	1,344
State .....	43,814	17,046	26,768	10,285	32,736	793
Local .....	14,343	9,913	4,430	3,138	10,763	442

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 220.

Table 327.-- STATE SALARY SCHEDULES FOR SELECTED LEVELS:  
1985 TO 1987

[In dollars per month. As of July 1. Data refer to lowest and highest rates among six bargaining units and excluded managerial compensation plan employees classified under the salary range schedules]

Salary range	Lowest			Highest		
	July 1985	July 1986	Oct. 1987	July 1985	July 1986	Oct. 1987
SR-4 .....	933	933	988	1,360	1,520	1,596
SR-11 .....	1,151	1,151	1,206	1,816	1,985	2,084
SR-21 .....	1,668	1,668	1,723	2,859	3,002	3,152
SR-31 .....	2,596	2,620	2,675	4,596	4,799	5,039

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

Table 328.-- SALARIES OF SELECTED GOVERNMENT OFFICIALS: 1926,  
1976, 1986, AND 1987

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

Government official	1926	1976	1986 <u>1/</u>	1987
Governor .....	10,000	50,000	80,000	80,000
Lieutenant Governor <u>2/</u> .....	5,400	45,000	76,000	76,000
Mayor, Honolulu .....	6,000	44,903	75,000	77,175
Mayor, Hawaii <u>3/</u> .....	4,200	43,644	49,992	63,792
Mayor, Maui <u>3/</u> .....	4,200	36,070	62,000	62,000
Mayor, Kauai <u>3/</u> .....	3,600	34,000	49,920	52,416
Chief Justice, Supreme Court .....	10,500	47,500	80,000	80,000
Associate Justice, Supreme Court ...	10,000	45,000	78,500	78,500
President, University of Hawaii ....	10,000	45,000	95,000	95,000

1/ Includes retroactive raises approved May 12, 1986.

2/ Secretary in 1926.

3/ Chairman, Board of Supervisors, in 1926.

Source: Robert M. C. Littler, The Governance of Hawaii (1929), pp. 114, 117, 118, 189, and 204; Hawaii Revised Statutes; SLH 1986, Act 128; Salary Commission of the City and County of Honolulu, Final Report and Salary Schedule; Hawaii, Maui, and Kauai County ordinances; DBED telephone survey.

## 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, 6, 12, 13, 14, and 23.

There were approximately 60,300 officers and enlisted men (including 4,000 aboard ships homeported in Hawaii) and 64,800 military dependents in the Islands as of July 1, 1987. 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 alone accounts for one-third of the current total. Almost 11,000 Hawaii residents were in the armed forces worldwide in 1987. The importance of national defense in Hawaii can be further measured by total expenditures (\$1.8 billion), military prime contract awards (\$563 million), civilian employment (20,400), veterans in civil life (101,000), military personnel receiving retired pay (10,600, receiving \$12.3 million monthly), military-connected pupils in public schools (19,900), military housing (19,200 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 and Economic Development has issued periodic reports on Military Personnel and Dependents in Hawaii 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-1982, for example, the number of armed forces in Hawaii was reported as 53,915 by DOD, 54,879 by the Bureau of the Census, and 61,107 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: 1987 presents data on national defense and veterans affairs for other states and the entire nation.

Table 329.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE  
ARMED FORCES WORLDWIDE: 1970 TO 1987

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

Year	Number	Year	Number	Year	Number
1970 .....	15,331	1982 ....	11,926	1985 ....	10,827
1975 .....	10,640	1983 ....	11,641	1986 ....	10,882
1980 .....	11,851	1984 ....	11,466	1987 ....	10,896

Source: U.S. Department of Defense, Defense Manpower Data Center, records.

Table 330.-- DEPARTMENT OF DEFENSE PERSONNEL AND  
DEPENDENTS: 1980 TO 1986

[As of September 30]

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>
1980 .....	43,313	53,533	18,186
1981 .....	44,141	50,324	18,814
1982 .....	44,470	56,497	19,497
1983 .....	44,651	51,119	20,005
1984 .....	47,648	54,190	20,539
1985 .....	46,875	55,552	20,762
1986 .....	46,122	53,428	20,536

1/ Excludes those performing civilian functions, Navy personnel afloat unless temporarily shorebased, and all Coast Guard personnel.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Military functions only.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, Department of Defense Selected Manpower Statistics (annual).

Table 331.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1987

[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 <sup>1/</sup>			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

<sup>1/</sup> Beginning in 1982, ship crews living ashore are included with the ashore total.

Source: Hawaii State Department of Business and Economic Development, Military Personnel and Dependents in Hawaii, 1987 (Statistical Report 207, November 30, 1987), table 1.

Table 332.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1987

[See headnote to preceding table]

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Living ashore		Living aboard ship		
		In hsg. units	In barracks			
State total ..	60,277	37,452	18,870	3,955	64,850	32,038
By island:						
Oahu .....	59,916	37,174	18,791	3,951	64,581	31,939
Hawaii .....	169	157	10	2	63	11
Maui .....	27	25	-	2	49	16
Kauai .....	141	96	45	-	157	72
Kure Atoll .....	24	-	24	-	-	-
By service:						
Air Force <sup>1/</sup> .....	6,088	4,716	1,372	-	9,053	4,151
Army .....	18,790	12,045	6,745	-	23,756	11,888
Coast Guard .....	1,135	722	109	304	935	432
Marine Corps .....	10,489	5,364	5,125	-	8,265	4,866
Navy .....	23,775	14,605	5,519	3,651	22,841	10,701

1/ As of September 30, 1987.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, 1987 (Statistical Report 207, November 30, 1987), table 2.

Table 333.-- NATIONAL GUARD STRENGTH: 1983 TO 1987

[Actual strength as of late June]

Service	1983	1984	1985	1986	1987
Total .....	5,799	5,866	6,096	5,882	5,814
Air National Guard ...	2,031	2,073	2,227	2,197	2,190
Army National Guard ..	3,768	3,793	3,869	3,685	3,624

Source: Hawaii State Department of Defense, Annual Report for years specified, and records.

Table 334.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,  
BY SERVICE: SEPTEMBER 30, 1986

Category	All services	Army	Navy	Air Force	Other DoD
Total .....	64,921	23,674	32,077	9,035	135
Military personnel $\frac{1}{2}$ .	44,168	18,248	19,411	6,509	-
Civilian personnel $\frac{2}{2}$ .	20,753	5,426	12,666	2,526	135

Footnotes and source follow next table.

Table 335.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN,  
BY LOCATION: SEPTEMBER 30, 1986

Installation or geographic area	Total DoD	Military personnel <u>1/</u>	Civilian personnel <u>2/</u>
State total .....	64,921	44,168	20,753
Aiea .....	976	706	270
Barbers Point NAS .....	2,278	1,888	390
Ford Island .....	437	400	37
Fort Shafter .....	2,013	-	2,013
Halawa Heights .....	189	155	34
Hickam AFB .....	8,680	6,463	2,217
Honolulu .....	2,466	2,077	389
Kaneohe .....	8,336	7,642	694
Kapalama .....	273	30	243
Kauai .....	220	130	90
Kunia .....	1,454	1,417	37
Lualualei .....	480	221	259
Pearl Harbor .....	18,059	7,294	10,765
Schofield Barracks .....	14,421	13,267	1,154
Tripler Army Medical Center .....	1,139	10	1,129
Wahiawa .....	814	612	202
Waialua .....	557	521	36
Wheeler AFB .....	1,633	1,143	490
Other .....	496	192	304

1/ Active duty. Navy figure is limited to shore-based personnel and excludes personnel afloat and temporary shore-based.

2/ Direct hire.

Source: U.S. Department 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, 1986, p. 28.



Table 336.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY:  
ANNUAL AVERAGES, 1981 TO 1986

Year	Total	Air Force	Army	Navy
1981 .....	19,400	2,600	4,300	12,500
1982 .....	20,400	2,650	4,650	13,100
1983 .....	20,850	2,650	4,850	13,350
1984 .....	20,600	2,650	5,000	12,950
1985 .....	20,750	2,650	5,400	12,700
1986 .....	20,400	2,650	5,600	12,150

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987.

Table 337.-- MILITARY PRIME CONTRACT AWARDS, BY SERVICE: 1983 TO 1986

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

Fiscal year	Total	Army	Navy & Marine Corps	Air Force	Other defense activities
1983 .....	638,975	117,573	187,355	36,806	297,241
1984 .....	536,735	185,074	158,068	52,719	140,874
1985 .....	626,153	255,236	152,782	59,939	158,196
1986 .....	562,843	147,587	160,701	46,484	208,071

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Atlas/Data Abstract for the United States and Selected Areas, Fiscal Year 1986, p. 33.

Table 338.-- DEFENSE EXPENDITURES: 1976 TO 1986

[In thousands of dollars. Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts]

Year	All categories	Military payroll	Civilian payroll	Supplies, equipment, services
1976 .....	1,034,226	420,051	301,347	312,828
1977 .....	1,086,561	432,754	325,778	328,029
1978 .....	1,155,517	465,449	354,530	335,538
1979 .....	1,221,784	497,840	372,596	351,348
1980 .....	1,317,402	533,691	418,759	364,952
1981 .....	1,449,328	612,761	450,684	385,883
1982 .....	1,693,410	716,841	508,569	468,000
1983 .....	1,848,175	793,782	558,220	496,175
1984 .....	1,867,189	828,787	582,531	455,872
1985 <u>1/</u> .....	1,965,430	839,851	611,437	514,138
1986 <u>I/</u> .....	1,784,868	822,954	601,476	360,437
SERVICE: 1985				
Air Force .....	201,026	109,391	36,927	54,707
Army .....	780,389	389,132	142,664	248,591
Coast Guard ....	28,743	21,804	4,009	2,929
Navy and Marine Corps <u>1/</u> .....	955,272	319,524	427,837	207,911
SERVICE: 1986				
Air Force .....	202,407	106,788	38,708	56,912
Army .....	658,609	385,013	149,253	124,343
Coast Guard ....	31,855	25,170	3,765	2,919
Navy and Marine Corps <u>1/</u> .....	891,996	305,983	409,750	176,263

1/ Military payroll partly estimated due to change in reporting method.

Source: Quarterly reports submitted to DPED by armed forces.

Table 339.-- 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	-	-
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: Data submitted to the Hawaii State Department of Business and Economic Development by the armed forces.

Table 340.-- HOUSING UNITS OWNED BY THE ARMED FORCES:  
1986 AND 1987

[As of April 1]

Year	All services	Air Force	Army	Coast Guard	Navy and Marines
1986 .....	19,210	2,953	7,122	315	8,820
1987 .....	19,211	2,953	7,129	315	8,814

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), tables 1 and 8, and underlying data.

Table 341.-- VETERANS IN CIVIL LIFE: 1977 AND 1987

Period of service	March 31, 1977	March 31, 1987
Total veterans <u>1/</u> .....	94,000	101,000
Wartime veterans <u>1/</u> .....	81,000	80,000
Vietnam era .....	33,000	37,000
Korean conflict .....	21,000	21,000
World War II .....	32,000	32,000
World War I .....	1,000	(Z)
Peacetime veterans .....	13,000	21,000
Post-Vietnam era only <u>2/</u> .....	1,000	9,000
Between Korea and Vietnam only .....	12,000	11,000
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 (semi-annual report).

Table 342.-- VETERAN STATUS BY COUNTIES: 1980

Subject	State total	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
Male veterans .....	98,633	10,117	77,356	12	4,133	7,015
Percent of civilian males, 16 years and over .....	31.1	29.9	32.0	13.6	28.4	26.4
Female veterans .....	5,141	359	4,381	-	129	272
Percent of civilian females, 16 years and over .....	1.5	1.1	1.6	0	0.9	1.0

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70 and 179.

Table 343.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1986

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense .....	11,523	10,582	12,341	1,166
Army .....	4,721	4,230	4,605	1,089
Navy .....	3,180	2,949	3,464	1,175
Marine Corps .....	813	731	950	1,300
Air Force .....	2,809	2,672	3,322	1,243

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, Defense Manpower Data Center, FY 1986 DOD Statistical Report on the Military Retirement System (1987), p. 20.

Table 344.-- WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES:  
1914 TO 1976

[Data refer to U.S. military personnel whose home state or  
pre-service residence of record was Hawaii]

War	Personnel serving	Battle deaths	Nonbattle deaths	Wounded
World War I 1/ .....	9,800		102	(NA)
World War II .....	28,008	658	138	(NA)
Korean conflict .....	(NA)	403	(NA)	923
Vietnam conflict .....	12,970	221	51	(NA)

NA Not available.

1/ Data include nearly 200 Hawaii residents serving (and 22 dying) with the British armed forces, many prior to the U.S. entry into World War I. Of the 102 war casualties, only 14 occurred overseas prior to the armistice; 61 took place in Hawaii or North America or after the armistice, and the time or place of 27 is unknown.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1977 (Statistical Report 120, September 9, 1977), tables 6 and 7.

## 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 \$329 million in fiscal 1986, compared with \$168 million a decade earlier. About 55 percent of the 1986 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1986 was 56,000, or 5.3 percent of the resident population of the State. Over 56 percent of all public assistance payments and almost half of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was \$368, or 25 percent more than in 1976. Participation in the food stamp program included 36,000 households and 94,000 persons. Among workers receiving unemployment compensation in 1986, weekly benefits averaged \$140. About 134,000 Hawaii residents were receiving Social Security benefits in 1986, and about 97,000 were enrolled for Medicare. There were also 17,000 State and county government pensioners in 1986, with annual benefits of \$168 million. Child adoptions in 1986 numbered 544. Sixty-eight foundations reported assets of \$165 million when most recently surveyed. The United Way reported agency allocations of \$8.6 million on Oahu and \$1.7 million on the Neighbor Islands in 1985. A recent comparative study of the "quality of life" in 300 American metropolitan areas ranked Honolulu fifty-eighth.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Human Services (formerly Social Services and Housing), the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 12 of the Statistical Abstract of the United States: 1987 presents comparable Mainland data.

Table 345.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1976 TO 1986, MONTHLY AVERAGES

[Years ended June 30]

Year	Major programs <u>1/</u>		Service cases <u>2/</u>	Medical payments <u>3/</u>		Average money payments <u>4/</u> (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1976 ....	24,438	67,226	9,067	10,825	11,675	295.17	106.72
1977 ....	36,534	72,054	12,610	12,303	13,329	307.76	114.52
1978 ....	28,575	75,485	15,000	14,381	15,572	321.63	121.75
1979 ....	27,399	72,928	16,993	13,796	14,890	334.90	150.99
1980 ....	27,219	71,693	16,312	12,932	13,598	337.59	128.17
1981 ....	27,604	72,480	15,281	11,763	12,104	342.67	130.68
1982 ....	26,130	68,835	8,124	11,629	12,228	355.42	135.05
1983 ....	24,157	64,305	6,443	12,858	13,186	371.00	139.56
1984 ....	23,378	62,430	6,586	12,642	12,939	369.92	138.72
1985 ....	22,212	59,561	6,832	12,519	12,286	368.17	137.50
1986 ....	21,119	56,140	7,186	12,710	12,481	368.25	138.67
COUNTIES: 1986							
Hawaii ..	4,184	11,233	1,002	1,741	1,693	374.08	139.48
Maui ....	1,432	4,074	583	918	902	371.42	130.73
Honolulu	14,634	38,423	4,946	9,367	9,215	366.83	139.90
Kauai ...	869	2,410	653	684	671	356.42	128.76

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.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.



Table 346.-- PUBLIC WELFARE CASELOAD, BY COUNTIES AND CENSUS TRACTS: AUGUST 1987

County and tract <u>1/</u>	Individuals served	Rate <u>2/</u>	County and tract <u>1/</u>	Individuals served	Rate <u>2/</u>
State .....	46,674	43.9	Honolulu, con.:		
Honolulu .....	31,593	38.7	38 .....	13	36.6
1 .....	114	4.2	39 .....	61	291.9
2 .....	74	13.7	40 .....	7	5.7
3 .....	33	6.0	41 .....	166	38.8
4 .....	12	1.8	42 .....	30	11.4
5 .....	9	1.9	43 .....	224	42.2
6 .....	9	5.3	44 .....	140	26.5
7 .....	29	8.7	45 .....	38	7.1
8 .....	57	13.7	46 .....	64	16.3
9 .....	78	8.2	47 .....	48	9.6
10 .....	35	10.7	48 .....	246	39.7
11 .....	695	169.3	49 .....	61	19.5
12 .....	161	23.3	50 .....	97	22.8
13 .....	66	14.5	51 .....	128	62.2
14 .....	47	16.6	52 .....	67	50.6
15 .....	51	13.1	53 .....	71	15.7
16 .....	74	16.1	54 .....	402	234.0
17 .....	18	6.9	55 .....	132	62.9
18 .....	333	74.2	56 .....	197	32.3
19 .....	217	24.1	57 .....	168	82.3
20 .....	362	41.6	58 .....	280	80.3
21 .....	155	42.0	59 .....	213	58.0
22 .....	316	44.2	60 .....	275	50.1
23 .....	192	38.3	61 .....	97	28.3
24 .....	249	40.7	62 .....	1,348	183.2
25 .....	104	27.8	63 .....	740	117.4
26 .....	76	15.8	64 .....	254	34.4
27 .....	136	12.8	65 .....	156	38.5
28 .....	33	8.1	66 .....	4	1.5
29 .....	9	5.5	67 .....	97	9.4
30 .....	24	5.2	68 .....	546	19.2
31 .....	29	3.7	69 .....	2	0.6
32 .....	23	20.0	70 .....	6	1.4
33 .....	4	3.6	71 .....	3	1.2
34 .....	610	32.0	72 .....	2	1.1
35 .....	118	26.9	73 .....	1	0.2
36 .....	212	27.7	74 .....	1	0.1
37 .....	42	17.3	75 .....	373	28.8
			76 .....	145	89.8

Continued on next page.

Table 346.-- PUBLIC WELFARE CASELOAD, BY COUNTIES AND CENSUS TRACTS: AUGUST 1987 -- Con.

County and tract <u>1/</u>	Individuals served	Rate <u>2/</u>	County and tract <u>1/</u>	Individuals served	Rate <u>2/</u>
Honolulu, con.:			Hawaii, con.:		
77 .....	137	14.4	203 .....	640	149.1
78 .....	411	14.9	204 .....	784	195.9
80 .....	523	16.8	205 .....	792	139.0
81 .....	1	0.4	206 .....	502	135.6
83 .....	232	18.7	207 .....	375	48.8
84 .....	715	93.3	208 .....	388	55.3
85 .....	2	0.7	209 .....	192	66.9
86 .....	411	29.5	210 .....	1,095	155.2
87 .....	1,958	134.1	211 .....	2,090	445.1
88 .....	88	17.9	212 .....	341	92.2
89 .....	1,455	28.2	213 .....	305	85.7
90 .....	10	4.1	214 .....	245	104.1
91 .....	100	26.9	215 .....	295	38.8
92 .....	258	33.9	216 .....	474	77.2
93 .....	490	109.3	217 .....	257	55.8
94 .....	627	123.3	218 .....	142	43.7
95 .....	41	2.2	219 .....	242	73.6
96 .....	3,585	225.5	220 .....	34	18.5
97 .....	1,778	154.6	221 .....	48	28.6
98 .....	1,358	225.7	Unknown .....	43	...
99 .....	662	76.6			
100 .....	91	48.0	Mauai .....	3,216	36.7
101 .....	355	63.2	301 .....	104	73.1
102 .....	969	97.5	302 .....	284	29.2
103 .....	755	42.0	303 .....	94	55.9
105 .....	797	49.5	304 .....	271	10.9
106 .....	212	26.1	305 .....	67	158.5
107 .....	96	12.2	306 .....	1	304.5
108 .....	8	0.7	307 .....	225	0.2
109 .....	434	31.8	308 .....	35	142.0
110 .....	28	6.6	309 .....	302	5.4
111 .....	273	15.3	310 .....	85	73.1
112 .....	92	13.9	311 .....	372	8.2
113 .....	776	83.5	312 .....	63	143.0
Unknown .....	156	...	313 .....	12	110.1
			314 .....	99	1.8
Hawaii .....	10,174	91.0	315 .....	17	27.3
201 .....	380	72.2	316 .....	37	8.0
202 .....	510	291.8	317 .....	731	10.4

Continued on next page.

Table 346.-- PUBLIC WELFARE CASELOAD, BY COUNTIES AND CENSUS TRACTS: AUGUST 1987 -- Con.

County and tract <u>1/</u>	Individuals served	Rate <u>2/</u>	County and tract <u>1/</u>	Individuals served	Rate <u>2/</u>
Maui, con.:			Kauai, con.:		
318 .....	401	313.6	404 .....	227	49.5
Unknown .....	16	...	405 .....	3	0.8
			406 .....	60	15.5
			407 .....	217	44.7
Kauai .....	1,691	36.5	408 .....	90	28.9
401 .....	114	42.7	409 .....	241	45.9
402 .....	176	29.2	410 .....	23	101.8
403 .....	535	119.8	Unknown .....	5	...

1/ See maps, pp. 24-26.

2/ Cases per 1,000 population. Census tract rates based on 1984 census tract estimates for the City and County of Honolulu and 1980 census tract counts for the Neighbor Islands. County and State rates based on 1986 resident population estimates.

Source: Hawaii State Department of Human Services, records.

Table 347.-- PERCENT OF RESIDENT POPULATION SERVED BY MAJOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING, BY COUNTIES: 1985 AND 1986

[Based on fiscal year program data and July population estimates]

Year	State	Hawaii	Maui	Honolulu	Kauai
1985 .....	5.7	9.9	5.2	5.2	5.3
1986 .....	5.3	10.0	4.7	4.7	5.2

Source: Hawaii State Department of Social Services and Housing, records; DBED, Statistical Report 201, table 5.

Table 348.-- SOCIAL WELFARE COSTS: 1976 TO 1986

[Thousands of dollars. Years ended June 30]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Admin- istra- tion	Medical payments	Money payments	Social service costs
1976 .....	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977 .....	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978 .....	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979 .....	244,898	101,411	143,487	15,250	104,694	113,854	11,100
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

Source: Hawaii State Department of Social Services and Housing, records.

Table 349.-- HOUSEHOLD INCOME IN 1979 FROM SOCIAL SECURITY AND PUBLIC ASSISTANCE: 1980

Subject	Social security income	Public assistance income
Households with income of specified type ....	61,473	25,926
Mean income from specified type .....	\$4,016	\$3,161
Mean total income .....	\$22,703	\$15,534

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 243.

Table 350.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1985 AND 1986

[Years ended June 30]

Program	Total payments (\$1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1985	1986	1985	1986	1985	1986
All programs .....	130,022	132,950	33,409	33,756	324	328
Old age assistance 1/ .	11,235	11,813	4,751	4,820	197	204
Aid to the blind 1/ ...	569	550	185	181	255	254
Aid to disabled 1/ ....	18,720	20,583	5,892	6,286	265	273
Aid to families with dependent children 2/	79,483	74,915	16,410	15,429	403	404
Child welfare foster care .....	1,564	1,907	631	702	207	225
General assistance ....	18,451	18,152	5,540	5,439	277	278

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 Social Services and Housing, records.

Table 351.-- PARTICIPATION IN FOOD STAMP PROGRAM: 1985 AND 1986

[Years ended June 30]

Subject	1985	1986
Households, total participating 1/ .....	37,283	35,652
Public assistance recipients .....	18,377	17,558
Other participants 2/ .....	18,906	18,094
Persons, total participating 1/ .....	99,395	93,862
Public assistance recipients .....	53,364	50,602
Other participants 2/ .....	46,031	43,260
Value of food stamps given to recipients (\$1,000) .....	89,904	90,431

1/ Monthly averages.

2/ Not receiving public assistance (food stamps only).

Source: Hawaii State Department of Social Services and Housing, records.

Table 352.-- MEDICARE ENROLLMENT, 1985 AND 1986, AND BENEFIT PAYMENTS, 1986

[1986 data estimated]

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments 1986 (\$1,000)
	1985	1986	1985	1986	
Hospital and/or medical insurance .....	102,269	104,520	94,459	96,640	210,450
Hospital insurance .....	99,341	101,530	91,531	93,640	123,690
Supplementary medical insurance .....	98,255	100,330	91,059	93,110	86,760
Hospital and medical insurance (both) .....	95,327	97,340	88,131	90,110	...

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, records.

Table 353.-- MEDICARE ENROLLMENT OF PERSONS 65 YEARS OLD AND OVER, BY COUNTIES: JULY 1, 1986

County	Hospital and/or medical insurance	Hospital insurance	Medical insurance
State total .....	99,447	96,225	95,598
City and County of Honolulu ..	72,107	69,358	68,804
Other counties .....	27,217	26,746	26,672
Hawaii .....	12,554	12,367	12,300
Kalawao .....	88	87	80
Kauai .....	5,496	5,377	5,420
Maui .....	9,079	8,915	8,872
County not reported .....	123	121	122

Source: U.S. Bureau of the Census, Population Division, Population Estimates Branch, memorandum dated October 20, 1987.

Table 354.-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI)  
 BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT AND COUNTY:  
 DECEMBER 1986

Type of benefit and county	Number of OASDI benefits	Amount of monthly benefits (\$1,000)
Total .....	133,520	57,629
TYPE OF BENEFIT		
Retirement program:		
Retired workers <sup>1/</sup> .....	88,640	43,052
Wives or husbands <sup>1/</sup> .....	10,390	2,389
Children .....	4,900	901
Survivor program:		
Widows, widowers, or parents .....	13,040	5,398
Children .....	6,440	2,156
Disability program:		
Disabled workers .....	7,070	3,334
Wives or husbands .....	660	85
Children .....	2,380	314
Age 65 and over:		
Men .....	45,980	25,026
Women .....	46,850	18,733
COUNTY		
Hawaii .....	17,800	7,560
Honolulu .....	94,680	41,004
Kalawao .....	90	34
Kauai .....	7,660	3,267
Maui .....	13,290	5,764

<sup>1/</sup> Includes special age 72 beneficiaries.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 355.-- SOCIAL SECURITY POPULATION AGE 65 AND OVER,  
BY SEX, AGE, AND COUNTY: 1984 AND 1985

[As of June. Persons covered by retirement and survivor  
insurance, including those in non-payment status]

Subject	1984	1985
Total .....	85,398	89,964
Sex:		
Male .....	42,606	44,528
Female .....	42,792	45,436
Age:		
65 to 69 years .....	30,881	32,513
70 to 74 years .....	23,289	24,480
75 to 79 years .....	15,144	16,081
80 to 84 years .....	9,255	9,648
85 to 89 years .....	4,498	4,796
90 to 94 years .....	1,729	1,820
95 years and over .....	602	626
County:		
Hawaii .....	11,206	11,649
Honolulu .....	61,341	64,885
Kalawao .....	98	89
Kauai .....	4,782	5,032
Maui .....	7,971	8,309

Source: U.S. Department of Health and Human Services,  
Social Security Administration, Office of Research and  
Statistics, records.



Table 356.-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS: 1981 TO 1986

Year	Number of beneficiaries, December	Monthly payments, December (\$1,000)	Annual payments (\$1,000)
1981 .....	115,670	38,155	435,126
1982 .....	118,690	43,029	498,496
1983 .....	121,061	46,523	536,000
1984 .....	125,012	50,529	578,000
1985 .....	129,475	54,612	626,000
1986 .....	133,520	57,629	667,000

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 357.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1981 TO 1986

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)
1981 ..	49,426	13,012	1,474,543	94,345	416	1,069,419
1982 ..	49,806	13,787	1,668,028	104,935	437	1,373,452
1983 ..	51,578	14,755	1,935,832	124,784	466	1,272,181
1984 ..	51,602	15,264	2,235,686	135,632	491	1,250,890
1985 4/	51,767	16,438	2,326,594	378,087	521	2,292,754
1986 ..	47,662	17,326	2,713,753	168,398	552	1,519,707

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 pensioners' bonus and social security.

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, 59th Annual Report, June 30, 1984, pp. 17 and 36, and records.

Table 358.-- UNEMPLOYMENT INSURANCE: 1976 TO 1986

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1976 ...	352,550	92	21,480	55	198.21
1977 ...	362,413	92	16,438	55	209.10
1978 ...	384,214	92	11,287	36	223.21
1979 ...	400,311	92	10,381	42	238.91
1980 ...	413,095	93	11,291	56	259.63
1981 ...	417,018	94	12,224	51	276.79
1982 ...	409,511	93	13,657	44	295.25
1983 ...	413,289	93	13,452	45	310.31
1984 ...	422,950	95	11,567	43	321.58
1985 ...	434,637	96	10,091	37	332.90
1986 ...	(NA)	(NA)	8,901	37	(NA)

Calendar year	Gross benefits <sup>1/</sup> (\$1,000)	Weekly benefits <sup>1/</sup>		Average benefit duration <sup>1/</sup> (weeks)	Exhaustion rate <sup>1/</sup> (percent)
		Maximum (dollars)	Average (dollars)		
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	49,222	144	102.91	13.7	22.0
1981 ...	66,194	157	113.59	14.2	24.9
1982 ...	77,788	169	124.34	14.8	29.6
1983 ...	70,392	178	123.22	15.8	34.0
1984 ...	70,914	188	135.72	14.8	29.0
1985 ...	62,123	194	134.03	14.6	28.8
1986 ...	56,391	200	140.16	14.3	26.2

NA Not available.

<sup>1/</sup> Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book, 1970 to the Present (March 1987), pp. 8, 11, 18, 19, 21, 22, and records.

Table 359.-- CHILD ADOPTIONS: 1982 TO 1986

Type of adoption	1982	1983	1984	1985	1986
Total .....	603	582	548	550	544
By relatives .....	388	384	362	382	339
By nonrelatives .....	215	198	186	168	205
Placed by social agencies ...	127	149	145	121	160

Source: Hawaii State Department of Human Services, tabulations from SRS-NCSS-280 Adoption Card.

Table 360.-- FOUNDATIONS: 1980-1985

[For definition and coverage, see Data Book 1984, table 306, headnote]

Asset level and name of foundation	Fiscal year ended	Assets (\$1,000)	Grants made (\$1,000)
All non-restricted foundations <u>1/</u> .....	Mar. 31, 1980- June 30, 1985	653,275	35,890
Foundations with assets of \$10,000,000 or more:			
Irwin Charity Foundation .....	Dec. 31, 1984	32,389	1,555
Castle (Harold K. L.) Foundation .....	Dec. 31, 1981	30,364	952
Atherton Family Foundation .....	Dec. 31, 1984	29,174	1,432
Anthony (Barbara Cox) Foundation .....	Dec. 31, 1981	21,690	107
McInerny Foundation .....	Sept. 30, 1982	15,782	825
Castle (Samuel N. and Mary) Foundation	Dec. 31, 1984	11,164	900

1/ Data limited to the 76 foundations open to grant seekers. Excludes 62 restricted foundations.

Source: Alu Like, A Guide to Charitable Trusts and Foundations in the State of Hawaii: 1984 Edition, (Honolulu, Alu Like, 1984), pp. 195-261, and August 19, 1987 printout of entries in the Foundation Directory-Fall 1986 Edition and National Foundations-1987 Edition.

Table 361.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS:  
1984 TO 1986

[Dollars]

Year	Five-island total	Aloha United Way (Oahu)	Hawaii Island United Way	United Way of Kauai	Maui United Way	Friendly Isle United Fund
<b>TOTAL REVENUES</b>						
1984 ....	11,651,300	9,560,841	755,285	352,388	927,832	54,954
1985 ....	11,868,630	9,764,131	774,077	349,709	933,932	46,781
1986 <u>1/</u> .	12,806,549	10,327,358	797,468	359,809	1,264,914	57,000
<b>CONTRIBUTIONS</b>						
1984 ....	11,271,049	9,364,482	729,460	348,720	773,433	54,954
1985 ....	11,517,052	9,574,380	754,473	336,281	805,137	46,781
1986 <u>1/</u> .	12,257,586	9,836,646	780,422	354,452	1,229,066	57,000
<b>TOTAL OUTLAYS</b>						
1984 ....	11,294,455	9,382,437	766,213	359,515	732,509	53,781
1985 ....	11,602,876	9,586,156	785,509	359,227	825,552	46,432
1986 <u>1/</u> .	12,454,369	9,984,523	823,840	331,996	1,262,010	52,000
<b>AGENCY ALLOCATIONS</b>						
1984 ....	10,059,227	8,440,574	645,668	318,000	601,204	53,781
1985 ....	10,306,787	8,628,763	658,529	317,250	655,813	46,432
1986 <u>1/</u> .	10,920,265	8,832,259	688,282	286,440	1,061,284	52,000

1/ Data for Maui United Way cover 18-month period ending June 30, 1987.

Source: Aloha United Way, Annual Report (annual); Hawaii Island United Way, Inc., and Maui United Way, Financial Statements (annual), and records; United Way of Kauai and Friendly Isle United Fund, records.

Table 362.-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE, HONOLULU,  
AND MAUI: 1970 TO 1987

Area ranked and authority	No. of areas ranked	Local rank
State:		
Linsky and Straus <u>1/</u> .....	50	17
Honolulu:		
Louis <u>2/</u> .....	50	5
Midwest Research Institute <u>3/</u> .....	65	31
University of Nebraska <u>4/</u> .....	100	7
Boyer and Savageau <u>5/</u> .....	277	28
Pierce <u>6/</u> .....	277	47
Boyer and Savageau <u>7/</u> .....	329	61
ZPG <u>8/</u> .....	184	106-118 (tie)
Eisenberg and Englander <u>10/</u> .....	300	58
Maui:		
Boyer and Savageau <u>9/</u> .....	107	99

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/ Arthur M. Louis, "The Worst American City," Harper's Magazine, January 1975, pp. 67-71. Based on 1969-1974 data for the 50 largest U.S. cities (not SMSAs).

3/ Ben-Chieh Liu, Quality of Life Indicators in the U.S. Metropolitan Areas, 1970 (Summary) (Midwest Research Institute, May 1975), p. 53. Based on data for large SMSAs.

4/ Ralph H. Todd, "A City Index: Measurement of a City's Attractiveness," Review of Applied Urban Research (University of Nebraska at Omaha, Center for Applied Urban Research), Vol. 5, No. 7, July 1977, pp. 1-19. Based on data for cities rather than SMSAs.

5/ Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally and Co., 1981), pp. 370 and 374. Based on SMSA data for late 1970s through 1980.

6/ Paper presented by Robert Pierce to Association of American Geographers in Washington, D.C., April 24, 1984; cited in Rick Carroll, "Most Livable? Honolulu rated 47th best city, based on 9 factors," Honolulu Advertiser, April 25, 1984, p. A-3. Based on data for SMSAs.

7/ Richard Boyer and David Savageau, Places Rated Almanac, 2nd ed. (Rand McNally and Co., 1985), p. 424. Based on SMSA data for late 1970s through 1984.

8/ Zero Population Growth, Inc., ZPG's 1985 Urban Stress Test (1985). Based on 1979-1985 data for large cities rather than SMSAs.

9/ Richard Boyer and David Savageau, Places Rated Retirement Guide (Rand McNally and Co., 1983), p. 173. Ratings based on suitability for retired persons.

10/ Richard Eisenberg and Debra Wishik Englander, "The Best Places to Live in America," Money, August 1987, pp. 34-44. Based on SMSA data.

## 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, wage rates, payrolls, hours, industrial safety, work disability, unionization, and strikes. Related series appear in Sections 3, 9, 10, and 19 through 23.

The civilian labor force averaged 489,000 in 1986; of this total, 465,000 persons were employed and 24,000 were unemployed and seeking work. The civilian jobcount rose from 387,000 in 1976 to 485,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) 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 4.9 percent in 1986, with individual island levels ranging from 4.4 to 13.5 percent. By occupation, one out of four civilian workers is classified as professional or managerial. Activities with especially large numbers of employees include services (119,000 in 1986), retail trade (97,000), and government (94,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached \$18,100 in 1986, or 5.6 percent less than the 1976 average after adjustment for inflation. Average weekly hours in 1986 ranged from 31.0 (for retail trade) to 42.4 (for communication and utilities). Labor union membership was estimated at 157,000 in 1985. Work stoppages in 1986 involved 1,300 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: 1987.

Table 363.-- LABOR FORCE STATUS, BY SEX: 1950 TO 1980

Sex and labor force status	1950 <sup>1/</sup>	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

<sup>1/</sup> 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 364.-- LABOR FORCE STATUS, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
Persons 16 years and over ..	723,479	67,205	574,903	144	28,629	52,598
Labor force .....	494,223	41,214	397,889	82	18,998	36,040
Percent of persons 16 years and over .....	68.3	61.3	69.2	56.9	66.4	68.5
Civilian labor force .....	435,780	41,006	339,863	82	18,789	36,040
Employed .....	415,181	38,150	324,113	82	18,223	34,613
Unemployed .....	20,599	2,856	15,750	-	566	1,427
Percent of civilian labor force .....	4.7	7.0	4.6	-	3.0	4.0
Not in labor force .....	229,256	25,991	177,014	62	9,631	16,558
Female, 16 years and over ..	352,796	33,160	279,711	56	13,871	25,998
Labor force .....	203,803	17,013	162,998	35	8,077	15,680
Percent of female, 16 years and over .....	57.8	51.3	58.3	62.5	58.2	60.3
Civilian labor force .....	199,392	17,007	158,618	35	8,052	15,680
Employed .....	189,850	15,875	151,089	35	7,756	15,095
Unemployed .....	9,542	1,132	7,529	-	296	585
Percent of civilian labor force .....	4.8	6.7	4.7	-	3.7	3.7
Not in labor force .....	148,993	16,147	116,713	21	5,794	10,318
Female, 16 years and over ..	352,796	33,160	279,711	56	13,871	25,998
With own children under 6 years .	62,606	6,679	48,648	-	2,632	4,647
In labor force .....	32,215	3,244	24,828	-	1,467	2,676
With own children 6 to 17 years only .....	65,359	5,661	52,415	-	2,681	4,602
In labor force .....	45,523	3,864	36,248	-	1,992	3,419

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC 80-1-C13 (June 1983), tables 67 and 176.



Table 365.-- LABOR FORCE STATUS, BY AGE AND SEX: 1980

Sex and age	Total	Armed forces	Civilian labor force			Not in labor force
			Total	Em- ployed	Unem- ployed	
Persons 16 years and over	723,479	58,443	435,780	415,181	20,599	229,256
Male .....	370,683	54,032	236,388	225,331	11,057	80,263
16 to 19 years .....	37,481	5,598	14,441	12,658	1,783	17,442
20 to 24 years .....	59,293	21,970	30,569	28,079	2,490	6,754
25 to 54 years .....	192,705	26,207	153,456	147,844	5,612	13,042
55 to 64 years .....	43,030	248	30,282	29,346	936	12,500
65 years and over .....	38,174	9	7,640	7,404	236	30,525
Female .....	352,796	4,411	199,392	189,850	9,542	148,993
16 to 19 years .....	32,403	411	13,288	11,734	1,554	18,704
20 to 24 years .....	46,694	1,937	29,581	27,514	2,067	15,176
25 to 54 years .....	192,675	2,033	132,002	126,889	5,113	58,640
55 to 64 years .....	43,233	30	21,109	20,483	626	22,094
65 years and over .....	37,791	-	3,412	3,230	182	34,379
	Percent of total population in labor force		Percent of civilian population in civilian labor force		Percent of civilian labor force unemployed	
Age	Male	Female	Male	Female	Male	Female
Persons 16 years and over .	78.3	57.8	74.7	57.2	4.7	4.8
16 to 19 years .....	53.5	42.3	45.3	41.5	12.3	11.7
20 to 24 years .....	88.6	67.5	81.9	66.1	8.1	7.0
25 to 54 years .....	93.2	69.6	92.2	69.2	3.7	3.9
55 to 64 years .....	71.0	48.9	70.8	48.9	3.1	3.0
65 years and over .....	20.0	9.0	20.0	9.0	3.1	5.3

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 67.

Table 366.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:  
ANNUAL AVERAGES, 1970 TO 1986

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 1/ .	472,000	442,000	30,000	6.4
1984 I/ .	472,000	445,000	27,000	5.7
1985 I/ .	478,000	451,000	27,000	5.6
1986 ....	489,000	465,000	24,000	4.9

1/ Revised from Data Book 1986, table 353.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987.

Table 367.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,  
FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1976 TO 1986

[Data for 1980 and later years are not directly comparable to estimates for earlier years. 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
<b>CIVILIAN LABOR FORCE</b>							
1976 .....	324,800	37,050	17,750	30,400	1,700	25,600	3,100
1977 .....	330,550	37,800	18,500	32,100	1,700	27,150	3,200
1978 .....	330,650	37,600	18,450	33,300	1,800	27,850	3,600
1979 .....	331,100	37,250	18,500	34,150	1,750	28,650	3,700
1980 .....	338,350	43,550	19,550	37,550	1,300	33,900	2,350
1981 .....	345,700	45,450	20,100	39,800	1,300	36,000	2,500
1982 .....	350,100	47,200	20,850	42,900	1,350	38,950	2,600
1983 .....	357,150	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 <u>1/</u> ...	358,850	50,300	22,000	46,850	1,050	43,450	2,300
1986 .....	366,750	50,850	23,100	48,300	1,100	44,800	2,450
<b>CIVILIAN EMPLOYMENT</b>							
1976 .....	293,750	32,900	16,100	27,250	1,450	23,100	2,650
1977 .....	306,500	34,350	17,350	29,800	1,600	25,300	2,900
1978 .....	305,950	33,950	17,200	30,900	1,650	26,000	3,250
1979 .....	311,050	34,350	17,500	32,100	1,650	27,100	3,300
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 <u>1/</u> ...	343,400	46,050	20,500	44,050	850	41,200	2,000
1986 .....	350,550	47,000	21,700	45,750	950	42,700	2,100

Continued on next page.

Table 367.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,  
FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1976 TO 1986 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
<b>UNEMPLOYED</b>							
1976 .....	31,000	4,150	1,650	3,150	200	2,500	450
1977 .....	24,050	3,450	1,200	2,350	150	1,900	300
1978 .....	24,700	3,650	1,200	2,400	200	1,850	400
1979 .....	20,050	2,900	1,000	2,050	100	1,550	400
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	4,300	1,650	3,400	100	2,800	550
1984 .....	19,100	3,750	1,500	2,700	150	2,200	350
1985 <sup>1/</sup> ..	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
<b>PERCENT UNEMPLOYED</b>							
1976 .....	9.6	11.2	9.3	10.4	13.0	9.8	14.4
1977 .....	7.3	9.1	6.4	7.3	8.0	6.9	10.0
1978 .....	7.5	9.8	6.5	7.3	10.4	6.6	10.5
1979 .....	6.1	7.8	5.3	6.0	5.4	5.5	10.7
1980 .....	4.6	6.2	4.3	5.1	8.1	4.4	14.2
1981 .....	5.0	7.3	5.8	5.9	10.6	5.2	12.9
1982 .....	6.1	9.5	8.2	7.7	18.0	6.9	15.2
1983 .....	5.8	8.9	7.7	7.6	9.0	6.8	19.4
1984 .....	5.3	7.7	7.0	6.0	11.3	5.4	13.8
1985 <sup>1/</sup> ..	5.1	8.5	6.8	5.9	20.2	5.2	12.9
1986 .....	4.4	7.6	6.0	5.3	11.4	4.7	13.5

<sup>1/</sup> Revised from Data Book 1986, table 354.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 2-8, as revised annually through April 1987.

Table 368.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: 1986

[Includes all eligible claimants who filed new claims for unemployment insurance benefits during the calendar year. Includes both intrastate and interstate claimants, with Hawaii as the liable state]

Subject	Number	Subject	Number
Total .....	36,951	Industry:	
Age:		Agriculture .....	1,997
Under 20 years .....	722	Construction, mining ....	5,817
20 to 29 years .....	12,466	Manufacturing .....	3,704
30 to 39 years .....	11,214	Transportation .....	3,145
40 to 49 years .....	6,305	Communication, utilities	332
50 to 59 years .....	4,132	Wholesale trade .....	1,333
60 years and over .....	1,869	Eating, drinking places .	2,825
Unknown .....	243	Other retail trade .....	3,230
Sex:		Finance and related .....	1,602
Male .....	21,203	Hotel and related .....	2,464
Female .....	15,748	Other services .....	5,906
Education:		Government .....	3,909
8 years or less .....	2,881	Unknown .....	687
9 to 12 years .....	19,990	Occupation:	
13 to 16 years .....	9,059	Prof., tech., mgr. ....	4,388
17 years or more .....	1,336	Clerical .....	5,175
Unknown .....	3,685	Sales .....	1,447
Race:		Service .....	4,294
Black .....	815	Farming .....	989
Chinese .....	1,390	Processing .....	306
Filipino .....	7,508	Machine trades .....	675
Hawaiian .....	3,718	Benchwork .....	310
Japanese .....	4,866	Struct. work .....	2,153
Spanish .....	224	Miscellaneous .....	2,326
White .....	10,700	Unknown .....	14,888
Other .....	7,267	Weeks compensated:	
Unknown .....	463	0 .....	9,878
		1 to 5 .....	10,853
		6 to 10 .....	5,200
		11 to 25 .....	7,762
		26 or more .....	3,258

Continued on next page.

Table 368.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: 1986 - Con.

Subject	Number	Subject	Number
Amount of benefits:		Annual wages:	
Less than \$500 .....	18,032	Less than \$5,000 .....	6,263
\$500 to \$999 .....	4,755	\$5,000 to \$9,999 .....	10,305
\$1,000 to \$1,999 .....	5,818	\$10,000 to \$14,999 .....	8,310
\$2,000 to \$2,999 .....	3,579	\$15,000 to \$19,999 .....	5,564
\$3,000 or more .....	4,767	\$20,000 and more .....	6,489
		Unknown .....	20

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 369.--LABOR FORCE STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGES, 1986

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
Civilian noninstitutional population .	739	352	387	60
Civilian labor force .....	488	260	228	29
Percent of population .....	66.1	73.8	59.0	47.9
Employment .....	465	247	217	24
Percent of population .....	62.9	70.2	56.1	39.5
Unemployment .....	24	13	11	5
Rate <sup>1/</sup> .....	4.8	4.9	4.8	17.5
Not in civilian labor force .....	251	92	159	31

<sup>1/</sup> Percent of civilian labor force. The error ranges for these rates, at the 90-percent confidence interval, are: both sexes, 4.2-5.5; men, 4.0-5.7; women, 3.9-5.7; 16-19, 13.3-21.7.

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1986 (Bull. 2279, May 1987), p. 38.

Table 370.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1970 TO 1986

[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]

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 <sup>1/</sup> .	473,150	369,800	42,400	19,900	41,100
1986 ....	485,350	378,950	43,100	20,900	42,400

<sup>1/</sup> Revised from Data Book 1986, table 357.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987; Labor Force Statistics, Bull. No. 70-F and 72-F.

Table 371.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1977 TO 1986

Industry	1977	1978	1979	1980	1981
Nonagriculture, wage and salary	359,400	377,300	394,000	404,100	404,800
Contract construction .....	19,750	20,650	23,400	23,950	21,900
Manufacturing .....	23,200	23,700	23,900	23,350	23,000
Durable goods .....	4,600	4,700	4,800	4,700	4,250
Nondurable goods .....	18,600	19,000	19,100	18,650	18,750
Food processing .....	11,250	11,700	11,600	11,150	11,150
Pineapple .....	3,050	3,200	3,200	2,900	2,800
Sugar .....	3,950	4,150	3,950	3,900	3,950
Other .....	4,250	4,300	4,400	4,350	4,350
Textile, apparel .....	3,250	3,250	3,300	3,050	2,950
Printing, publishing .....	2,750	2,850	2,950	3,100	3,150
Other nondurables .....	1,350	1,200	1,250	1,350	1,500
Transp., commun., utilities ..	28,200	28,800	30,500	31,200	31,900
Transportation .....	19,200	19,950	21,200	21,500	21,900
Communication .....	6,500	6,350	6,750	7,150	7,400
Utilities .....	2,500	2,500	2,500	2,550	2,600
Trade .....	92,200	97,900	102,900	105,250	105,450
Wholesale .....	16,600	17,200	18,300	18,600	18,700
Retail .....	75,550	80,700	84,650	86,700	86,750
Finance, insur., real estate .	25,650	28,850	31,500	32,850	31,700
Services and miscellaneous ...	84,750	90,300	95,350	98,450	101,900
Hotels .....	22,100	22,850	24,100	24,900	24,800
Other services, misc. ....	62,650	67,450	71,250	73,550	77,100
Government .....	85,700	87,050	86,500	89,050	89,000
Federal .....	29,300	29,350	29,700	30,000	30,350
Air Force .....	3,050	2,850	2,750	2,650	2,600
Army .....	4,750	4,500	4,250	4,100	4,300
Navy .....	11,200	11,750	11,850	11,950	12,500
Other .....	10,250	10,250	10,800	11,250	10,900
State .....	42,650	43,350	43,300	45,150	45,250
Local .....	13,800	14,350	13,500	13,900	13,350
Agriculture, wage and salary ...	11,300	11,550	10,850	10,650	11,550
Sugar .....	5,000	4,900	5,000	4,950	5,200
Pineapple .....	2,400	2,550	2,550	2,500	2,450
Other .....	3,900	4,100	3,300	3,200	3,950
Nonagric., self-employed <sup>2/</sup> ....	23,000	23,800	24,350	28,300	29,150
Agric., self-employed <sup>3/</sup> .....	4,400	4,700	4,550	4,600	4,350
Labor disputes .....	500	150	700	500	50

Continued on next page.



Table 371.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1977 TO 1986 -- Con.

Industry	1982	1983	1984	1985 <u>1/</u>	1986
Nonagriculture, wage and salary	399,400	406,200	412,650	425,750	437,200
Contract construction .....	17,850	17,800	15,800	17,150	18,950
Manufacturing .....	22,400	22,350	21,900	21,900	22,050
Durable goods .....	3,900	3,600	3,350	3,700	3,850
Nondurable goods .....	18,550	18,750	18,550	18,250	18,250
Food processing .....	11,150	11,250	10,750	10,050	10,150
Pineapple .....	2,750	2,550	2,150	1,900	2,000
Sugar .....	3,850	3,750	3,700	3,450	3,300
Other .....	4,550	4,900	4,900	4,700	4,850
Textile, apparel .....	2,850	2,900	2,950	3,300	3,300
Printing, publishing .....	3,150	3,150	3,350	3,450	3,400
Other nondurables .....	1,400	1,450	1,450	1,400	1,350
Transp., commun., utilities ..	31,200	31,100	31,950	33,200	33,950
Transportation .....	21,150	21,100	22,100	23,400	24,300
Communication .....	7,500	7,550	7,500	7,350	7,100
Utilities .....	2,550	2,450	2,400	2,450	2,550
Trade .....	104,850	106,850	111,400	115,650	116,700
Wholesale .....	18,500	18,400	18,900	19,550	19,300
Retail .....	86,300	88,450	92,450	96,100	97,350
Finance, insur., real estate .	31,500	31,900	31,850	31,950	32,900
Services and miscellaneous ...	101,200	104,950	107,950	112,650	118,750
Hotels .....	26,500	27,000	28,250	29,000	29,250
Other services, misc. ....	74,700	77,900	79,700	83,650	89,500
Government .....	90,300	91,300	91,850	93,300	93,850
Federal .....	31,500	32,100	32,100	32,400	32,100
Air Force .....	2,650	2,650	2,650	2,650	2,650
Army .....	4,650	4,850	5,000	5,400	5,600
Navy .....	13,100	13,350	12,950	12,700	12,150
Other .....	11,100	11,250	11,550	11,600	11,750
State .....	45,650	45,900	46,550	47,400	48,600
Local .....	13,150	13,300	13,200	13,500	13,150
Agriculture, wage and salary ...	11,300	11,200	10,800	10,400	10,150
Sugar .....	4,700	4,500	4,300	4,100	4,000
Pineapple .....	2,450	2,300	2,100	1,950	2,050
Other .....	4,150	4,400	4,400	4,350	4,100
Nonagric., self-employed <u>2/</u> ...	31,300	32,300	33,450	33,400	34,600
Agric., self-employed <u>3/</u> .....	3,950	3,900	3,650	3,500	3,200
Labor disputes .....	100	150	450	100	200

Footnotes and source follow next table.

Table 372.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1986

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	437,200	350,650	32,950	17,650	35,950
Contract construction .....	18,950	15,550	1,250	650	1,500
Manufacturing .....	22,050	16,250	2,650	1,200	1,950
Durable goods .....	3,850	3,450	100	(Z)	200
Nondurable goods .....	18,250	12,750	2,550	1,150	1,750
Food processing .....	10,150	5,450	2,150	1,050	1,500
Textile, apparel .....	3,300	3,150	(NS)	(NS)	(NS)
Printing, publishing .....	3,400	3,000	(NS)	(NS)	(NS)
Other nondurables .....	1,350	1,200	(NS)	(NS)	(NS)
Transp., commun., utilities ..	33,950	27,750	2,000	1,950	2,250
Transportation .....	24,300	20,400	(NS)	(NS)	(NS)
Communication .....	7,100	5,500	(NS)	(NS)	(NS)
Utilities .....	2,550	1,800	(NS)	(NS)	(NS)
Trade .....	116,700	91,750	9,250	5,050	10,650
Wholesale .....	19,300	16,500	1,500	400	950
Retail .....	97,350	75,250	7,750	4,650	9,700
Finance, insur., real estate .	32,900	27,850	1,550	1,000	2,500
Services and miscellaneous ...	118,750	92,350	9,100	5,000	12,300
Hotels .....	29,250	16,350	3,950	2,500	6,450
Other services, misc. ....	89,500	76,000	5,150	2,550	5,850
Government .....	93,850	79,200	7,100	2,800	4,750
Federal .....	32,100	30,900	650	250	300
Air Force .....	2,650	2,550	(NS)	(NS)	(NS)
Army .....	5,600	5,500	(NS)	(NS)	(NS)
Navy .....	12,150	12,100	(NS)	(NS)	(NS)
Other .....	11,750	10,800	(NS)	(NS)	(NS)
State .....	48,600	39,100	4,650	1,750	3,150
Local .....	13,150	9,200	1,800	850	1,300
Agriculture, wage and salary ...	10,150	2,600	3,400	1,250	2,900
Sugar .....	4,000	550	1,250	1,050	1,100
Pineapple .....	2,050	850	-	-	1,200
Other .....	4,100	1,200	2,100	200	600
Nonagric., self-employed <u>2</u> / ....	34,600	24,900	4,650	1,800	3,250
Agric., self-employed <u>3</u> / .....	3,200	600	2,100	200	300
Labor disputes .....	200	200	-	-	(Z)

Z Fewer than 50.

NS Not shown separately.

1/ Revised from Data Book 1986, tables 358-359.

2/ Includes unpaid family workers and domestics.

3/ Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987.

Table 373.-- LABOR FORCE AND JOB ESTIMATES AND PROJECTIONS: 1985 TO 2005

[Thousands. Annual averages. Series M-F projections, recommended by DBED  
for State planning purposes]

Subject	Estimates		Projections			
	1985	1986	1990	1995	2000	2005
Civilian labor force 1/ (1,000) ....	478.0	489.0	533.4	575.6	607.9	627.7
Persons employed 1/.....	451.0	465.0	503.9	544.2	574.7	593.7
Total jobs (1,000) .....	531.1	543.8	572.3	613.4	644.5	663.9
Armed forces .....	58.0	58.6	58.4	58.4	58.4	58.4
Civilian jobs 1/ .....	473.1	485.2	513.8	554.9	586.1	605.4
Self-employed .....	36.9	37.8	34.9	37.7	39.8	41.1
Wage and salary jobs by sector .	436.2	447.4	478.9	517.3	546.3	564.3
Agriculture .....	10.4	10.2	11.1	10.6	10.2	9.8
Food processing .....	10.0	10.2	11.0	10.8	10.5	10.3
Miscellaneous manufacturing ..	11.8	11.9	12.1	12.6	12.9	13.1
Construction .....	17.2	19.0	23.4	25.8	27.7	28.9
Transportation, communication, and utilities .....	33.2	34.0	35.5	38.3	40.2	40.6
Trade (exc. eating & drinking)	75.5	75.2	85.6	94.9	102.1	108.2
Eating and drinking places ...	40.2	41.5	43.6	47.8	50.6	51.9
Finance, insurance, and real estate .....	31.9	32.9	36.8	39.7	41.9	43.5
Hotels .....	29.0	29.2	31.8	35.0	36.9	37.1
Other services .....	83.6	89.5	88.4	96.8	103.5	108.0
State and local government ...	60.9	61.8	66.6	71.1	74.6	77.4
Federal government 1/ .....	32.4	32.1	33.1	33.9	34.7	35.4

1/ Includes civilian employees of the armed forces.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1987, and Employment Series 202 quarterly reports; Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 14, and Military Personnel and Dependents in Hawaii, 1986 (Statistical Report 192, September 29, 1986).

Table 374.-- 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 375.-- 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 376.-- 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 377.-- CLASS OF WORKER AND INDUSTRY, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
CLASS OF WORKER						
Employed persons 16 years and over .....	415,181	38,150	324,113	82	18,223	34,613
Private wage and salary workers .	300,315	27,226	231,719	24	13,885	27,461
Federal Government workers .....	32,244	909	30,207	3	508	617
State Government workers .....	43,814	4,945	34,268	48	1,715	2,838
Local Government workers .....	14,343	1,481	10,583	-	1,002	1,277
Self-employed workers .....	22,965	3,310	16,312	7	1,035	2,301
Unpaid family workers .....	1,500	279	1,024	-	78	119
INDUSTRY						
Employed persons 16 years and over .....	415,181	38,150	324,113	82	18,223	34,613
Agriculture, forestry, fisheries, and mining .....	14,793	4,272	5,662	1	1,762	3,096
Construction .....	29,888	3,477	21,423	-	1,621	3,367
Manufacturing .....	32,914	3,177	24,982	8	1,548	3,199
Nondurable goods .....	21,234	2,539	14,713	3	1,354	2,625
Durable goods .....	11,680	638	10,269	5	194	574
Transportation .....	25,392	1,524	21,174	2	1,015	1,677
Communications and other public utilities .....	11,086	812	8,771	-	668	835
Wholesale trade .....	16,089	1,477	13,286	7	462	857
Retail trade .....	82,453	6,683	66,358	4	3,089	6,319
Finance, insurance, and real estate .....	31,648	2,174	26,145	-	1,074	2,255
Business and repair services ....	17,832	1,251	14,726	-	527	1,328
Personal, entertainment, and recreation services .....	38,150	4,154	26,252	7	2,317	5,420
Professional and related services	73,363	6,378	59,927	6	2,713	4,339
Health services .....	22,390	1,700	18,429	4	873	1,384
Educational services .....	31,989	3,090	26,113	-	1,099	1,687
Other professional and related services .....	18,984	1,588	15,385	2	741	1,268
Public administration .....	41,573	2,771	35,407	47	1,427	1,921

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), tables 67, 69, 176, and 178.

Table 378.-- OCCUPATION, BY COUNTIES: 1980

Occupation	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
Employed persons 16 years and over .....	415,181	38,150	324,113	82	18,223	34,613
Managerial and professional specialty occupations .....	97,606	7,648	79,934	15	3,499	6,510
Executive, administrative, and managerial occupations .....	48,671	3,518	39,971	7	1,545	3,630
Professional specialty occupations .....	48,935	4,130	39,963	8	1,954	2,880
Technical, sales, and administrative support occupations .....	132,651	9,956	109,521	15	4,554	8,605
Technicians and related support occupations .....	11,982	864	9,915	-	614	589
Sales occupations .....	47,475	3,996	38,367	1	1,683	3,428
Administrative support occupations, including clerical ...	73,194	5,096	61,239	14	2,257	4,588
Service occupations .....	74,149	6,283	56,939	17	3,742	7,168
Private household occupations .	1,547	134	1,116	-	135	162
Protective service occupations	7,578	609	6,010	2	388	569
Service occupations, except protective and household ....	65,024	5,540	49,813	15	3,219	6,437
Farming, forestry, and fishing occupations .....	14,154	3,927	5,838	8	1,509	2,872
Precision production, craft, and repair occupations .....	48,198	4,848	36,546	20	2,345	4,439
Operators, fabricators, and laborers .....	48,423	5,488	35,335	7	2,574	5,019
Machine operators, assemblers, and inspectors .....	14,000	1,308	10,887	5	518	1,282
Transportation and material moving occupations .....	16,430	2,123	11,274	-	1,054	1,979
Handlers, equipment cleaners, helpers, and laborers .....	17,993	2,057	13,174	2	1,002	1,758

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), tables 68 and 177.

Table 379.-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX:  
ANNUAL AVERAGES, 1986

Occupation	Both sexes	Men	Women
All occupations (number in thousands) .....	465	247	217
Percent .....	100.0	100.0	100.0
Managerial and professional specialty:			
Executive, administrative, and managerial .....	12.1	13.5	10.5
Professional specialty .....	12.9	11.3	14.6
Technical, sales, and administrative support:			
Technicians and related support .....	3.2	3.4	3.0
Sales .....	12.7	11.3	14.4
Administrative support, including clerical .....	17.1	6.7	28.9
Service occupations .....	17.9	15.2	21.1
Precision production, craft, and repair .....	9.8	17.1	1.5
Operators, fabricators, and laborers:			
Machine operators, assemblers, and inspectors ..	2.8	3.3	2.3
Transportation and material moving .....	3.5	6.1	.6
Handlers, equipment cleaners, helpers, and laborers .....	4.0	6.2	1.5
Farming, forestry, and fishing .....	3.9	5.7	1.8

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1986 (Bull. 2279, May 1987), pp. 58-59.



Table 380.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980

[Residence and labor force status as of April 1; place of work as of preceding week. Includes armed forces. For census tract maps, see pp. 24-25]

Census tract	Workers by place of --		Census tract	Workers by place of --	
	Residence	Work <u>1</u> /		Residence	Work <u>1</u> /
County total	369,523	356,692	Honolulu, con.:		
Honolulu CDP .....	183,677	246,969	26 .....	2,663	3,635
1.02 .....	962	250	27.01 .....	2,707	6,633
1.03 .....	5,482	532	27.02 .....	3,110	1,507
1.04 .....	3,515	110	28 .....	2,127	95
1.05 .....	2,860	1,117	29 .....	904	667
2 .....	2,579	455	30 .....	2,468	294
3 .....	2,841	561	31.01 .....	2,205	145
4.01 .....	1,391	174	31.02 .....	1,905	225
4.02 .....	2,077	201	32 .....	655	100
5 .....	2,320	3,594	33 .....	541	235
6 .....	945	750	34.03 .....	3,170	189
7 .....	1,829	439	34.04 .....	2,819	413
8 .....	2,175	911	34.05 .....	1,964	235
9.01 .....	1,423	418	34.06 .....	3,255	261
9.02 .....	2,087	218	34.07 .....	453	192
9.03 .....	1,469	557	35 .....	2,583	7,698
10 .....	1,792	128	36.01 .....	2,334	7,227
11 .....	1,552	256	36.02 .....	1,578	2,858
12.01 .....	1,575	1,152	37 .....	1,326	18,578
12.02 .....	1,828	59	38 .....	263	13,499
13 .....	2,300	1,735	38.99 .....	-	279
14 .....	1,428	146	39 .....	54	12,918
15 .....	1,986	422	39.99 .....	90	-
16 .....	2,298	577	40 .....	548	28,465
17 .....	1,263	1,644	41 .....	2,559	8,411
18.01 .....	571	4,570	42 .....	1,709	1,391
18.02 .....	1,725	1,009	43 .....	2,616	883
19.01 .....	571	11,832	44 .....	2,492	153
19.02 .....	3,014	2,596	45 .....	2,800	583
20.01 .....	1,318	8,457	46 .....	2,032	777
20.02 .....	1,895	1,547	47 .....	2,525	1,271
21 .....	2,057	2,220	48 .....	2,705	1,134
22 .....	4,004	586	49 .....	1,459	595
23 .....	3,123	638	50 .....	1,855	2,402
24.01 .....	1,517	64	51 .....	578	845
24.02 .....	1,737	730	52 .....	358	2,777
25 .....	2,145	1,416	53 .....	1,877	890
			54 .....	389	55

Continued on next page.

Table 380.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980 -- Con.

Census tract	Workers by place of --		Census tract	Workers by place of --	
	Residence	Work <u>1/</u>		Residence	Work <u>1/</u>
Honolulu, con.:			Rest of Oahu, con.:		
55 .....	821	509	80.01 .....	648	424
56 .....	2,527	1,399	80.02 .....	1,507	1,000
57 .....	748	9,295	80.03 .....	1,321	251
57.99 .....	540	12	80.05 .....	3,433	146
58 .....	1,349	2,354	80.06 .....	3,002	226
59 .....	1,414	6,348	80.07 .....	3,168	251
59.99 .....	...	28	81 .....	1,179	2,603
60 .....	2,391	3,534	81.99 .....	-	-
61 .....	1,408	203	82 .....	-	-
62.01 .....	1,990	336	83 .....	4,400	619
62.02 .....	494	221	84 .....	3,020	1,686
63.01 .....	1,502	290	85 .....	1,608	3,865
63.02 .....	711	141	86.01 .....	4,008	260
64.01 .....	910	-	86.02 .....	1,749	3,185
64.02 .....	2,282	177	86.99 .....	...	-
65 .....	1,665	78	87.01 .....	3,120	383
66 .....	1,177	3,032	87.02 .....	1,573	1,324
67.01 .....	3,933	4,104	87.03 .....	1,207	1,880
67.02 .....	1,075	135	88 .....	2,103	932
68.01 .....	10,152	302	89.01 .....	3,314	1,361
68.02 .....	2,154	72	89.02 .....	12,709	2,472
68.03 .....	-	6,990	89.03 .....	3,226	947
69 .....	1,280	100	90 .....	1,174	9
70 .....	1,771	163	91 .....	1,476	223
71 .....	939	11,805	92 .....	3,412	1,682
72 .....	1,071	14,656	93 .....	1,702	11,323
114 .....	...	-	94 .....	2,320	(NA)
			95.01 .....	1,044	229
Rest of Oahu .....	185,846	109,723	95.02 .....	1,828	349
73 .....	2,632	1,707	95.03 .....	6,120	7,125
73.99 .....	-	-	95.04 .....	330	(NA)
74 .....	2,098	9,538	95.05 .....	1,069	(NA)
74.99 .....	7,614	30	96.01 .....	1,550	
75.01 .....	3,164	110	96.03 .....	1,578	1,222
75.02 .....	323	66	96.04 .....	1,179	
75.03 .....	2,695	191	97 .....	3,415	3,105
76 .....	493	193	98 .....	1,889	
77.01 .....	2,142	1,018	99.01 .....	2,396	864
77.02 .....	2,470	159	99.02 .....	942	
78.01 .....	6,730	(NA)	100 .....	1,067	1,167
78.02 .....	6,567	5,217	101 .....	1,912	(NA)

Continued on next page.

Table 380.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980 -- Con.

Census tract	Workers by place of --		Census tract	Workers by place of --	
	Residence	Work <u>1/</u>		Residence	Work <u>1/</u>
Rest of Oahu, con.:			Rest of Oahu, con.:		
102.01 .....	1,526	(NA)	108.99 .....	34	-
102.02 .....	2,273	2,214	109.01 .....	1,571	424
103.02 .....	1,637	43	109.03 .....	1,763	660
103.03 .....	1,402	(NA)	109.04 .....	1,636	390
103.04 .....	4,678	(NA)	109.05 .....	1,111	1,321
105.01 .....	4,122	1,151	110 .....	1,952	513
105.03 .....	874	451	111.01 .....	3,874	2,112
105.04 .....	1,997	417	111.03 .....	1,774	108
106.01 .....	1,330	204	111.04 .....	2,550	479
106.02 .....	2,405	726	112.01 .....	2,262	597
107.01 .....	1,761	302	112.02 .....	802	388
107.02 .....	1,758	216	113 .....	3,545	1,121
108 .....	7,571	7,714	Unknown <u>2/</u> .....	-	19,769

NA Not available.

1/ Tract data exclude residents who worked away from the City and County of Honolulu and nonresidents who worked within the area. Totals and subtotals (but not tract data) include imputed values for persons not reporting exact tract locations.

2/ Included in subtotals (see preceding footnote).

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 381.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1976 TO 1986

Year	Number of employers, December <u>1</u> / <sup>1/</sup>	Average employment	Wages and salaries	
			Total (\$1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1976 .....	17,130	356,217	3,685,818	10,347
1977 .....	17,831	366,555	3,996,746	10,903
1978 .....	18,847	383,451	4,459,594	11,630
1979 .....	19,639	400,963	4,983,844	12,429
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
EXCLUDING GOVERNMENT				
1981 .....	20,184	325,897	4,423,850	13,574
1982 .....	20,253	320,885	4,563,866	14,223
1983 .....	20,931	325,650	4,848,497	14,889
1984 .....	21,282	332,227	5,150,338	15,502
1985 .....	21,939	343,400	5,518,268	16,070
1986 .....	24,498	355,192	5,997,767	16,886
PRIVATE NON-AGRICULTURAL				
1981 .....	19,799	314,016	4,261,467	13,571
1982 .....	19,876	309,531	4,412,058	14,254
1983 .....	20,515	314,142	4,679,895	14,897
1984 .....	20,856	320,902	4,973,005	15,497
1985 .....	21,510	332,092	5,344,772	16,094
1986 .....	23,992	343,555	5,817,270	16,933

<sup>1/</sup> 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 382.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1986

County or island	Number of employers, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total .....	24,510	446,756	8,072,318	18,069
City and Co. of Honolulu .	18,387	351,481	6,553,767	18,646
Hawaii County .....	2,574	36,081	566,272	15,694
Kauai County .....	1,157	19,909	322,720	16,210
Maui County .....	2,392	39,285	629,559	16,025
EXCLUDING GOVERNMENT				
State total .....	24,498	355,192	5,997,767	16,886
City and Co. of Honolulu .	18,384	274,753	4,794,295	17,449
Hawaii County .....	2,571	28,910	415,289	14,365
Kauai County .....	1,154	17,063	261,187	15,307
Maui County .....	2,389	34,465	526,997	15,291

Source: Hawaii State Department of Labor and Industrial Relations, 1986 Employment and Payrolls in Hawaii (September 1987).

Table 383.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1986

Industry	Number of employers, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
All industries .....	24,510	446,756	8,072,318	18,069
Government .....	6	91,564	2,074,551	22,657
Federal .....	1	33,790	893,991	26,457
State .....	1	44,587	893,149	20,032
County .....	4	13,187	287,411	21,795
Private .....	24,498	355,192	5,997,767	16,886
Agriculture, forestry, fisheries ...	506	11,637	180,497	15,511
Sugar .....	14	4,052	72,460	17,882
Pineapple .....	5	2,163	37,225	17,210
Other .....	487	5,422	70,812	13,060
Mining and contract construction ...	2,083	18,792	533,647	28,398
Manufacturing .....	978	21,894	414,195	18,918
Sugar mills .....	12	2,898	60,070	20,728
Pineapple canning .....	2	2,129	34,412	16,164
Other food processing .....	216	4,852	83,218	17,151
Other manufacturing .....	748	12,015	236,495	19,683
Transportation .....	1,050	24,540	499,577	20,358
Communications .....	102	7,094	210,836	29,720
Utilities .....	46	2,595	94,202	36,301
Wholesale trade .....	2,121	19,572	405,949	20,741
Retail trade .....	5,357	98,346	1,067,620	10,856
Eating and drinking places .....	1,800	41,587	323,550	7,780
Other retail trade .....	3,557	56,759	744,069	13,109
Finance, insurance, real estate ....	3,224	33,672	662,358	19,671
Services .....	8,849	116,732	1,923,843	16,481
Hotels, rooming houses, etc. ....	192	29,300	424,684	14,494
Medical and other health services	1,910	22,510	514,727	22,867
Other services .....	6,747	64,922	984,432	15,163
Nonclassifiable establishments .....	182	318	5,043	15,859

Source: Hawaii State Department of Labor and Industrial Relations, 1986 Employment and Payrolls in Hawaii (September 1987), pp. 2-3.

Table 384.-- 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: 1976 AND 1986

Class of worker	1976: current dollars	1986		Percent change, 1976-1986	
		Current dollars	1976 dollars <u>1/</u>	Current dollars	1976 dollars <u>1/</u>
All classes ..	10,347	18,069	9,767	74.6	-5.6
Federal .....	15,405	26,457	14,301	71.7	-7.2
State <u>2/</u> .....	11,351	20,032	10,828	76.5	-4.6
County .....	11,380	21,795	11,781	91.5	+3.5
Private .....	9,586	16,886	9,128	76.2	-4.8

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu. The all-items index increased 85.0 percent during this period.

2/ Average for 1976 is understated because of erroneous inclusion of uncovered student workers, omitted in 1986 data.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 385.-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1986

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 ..	24,498	14,004	4,487	2,884	1,857	683	583
Employment .....	367,009	23,090	29,556	38,958	55,888	46,587	172,930

Source: Hawaii State Department of Labor and Industrial Relations, 1986 Employment and Payrolls in Hawaii (September 1987), p. 16.

Table 386.-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE:  
1975 TO 1985

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
1975 .....	9,751	9,110	97.5	92.7	20	27
1976 .....	10,309	9,586	96.2	91.0	24	29
1977 .....	10,873	10,029	95.1	89.1	26	33
1978 .....	11,607	10,809	95.8	89.7	29	33
1979 .....	12,335	11,700	94.1	89.4	27	34
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

1/ Among 50 States and D.C.

Source: U.S. Bureau of Labor Statistics, Employment and Wages, Annual Averages (annual report). Percentages and rankings by the Hawaii State Department of Business and Economic Development.

Table 387.--MINIMUM WAGE CHRONOLOGY: 1942 TO 1988

[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	1958 .....	1.00	1975 .....	2.40
1943 .....	0.30	0.25	1962 .....	1.15	1978 .....	2.65
1945 .....	0.40	0.40	1964 <u>2/</u> ..	1.25	1979 .....	2.90
1953 .....	0.65	0.55	1969 .....	1.40	1980 .....	3.10
1955 .....	0.75	0.65	1970 .....	1.60	1981 .....	3.35
1957 .....	0.90	0.85	1974 .....	2.00	1988 <u>2/</u> ..	3.85

1/ At inception of minimum wage law, April 1, 1942.

2/ January 1.

Source: Hawaii State Department of Labor and Industrial Relations, records.



Table 388.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES,  
1981 TO 1986

Subject	1981	1982	1983	1984	1985	1986
Average weekly earnings (dollars)						
Contract construction .....	475.31	519.10	587.76	607.37	627.32	642.80
Manufacturing .....	289.90	301.68	317.68	318.14	323.51	344.65
Food and kindred products ..	274.31	281.86	291.65	292.98	303.32	321.40
Communication and utilities ..	433.70	486.41	486.22	512.09	542.15	582.15
Trade 1/ .....	198.99	214.14	225.12	225.72	228.72	231.62
Wholesale trade .....	275.88	290.67	302.13	309.75	311.04	326.10
Retail trade 1/ .....	174.27	189.95	199.69	198.13	200.95	200.26
Banking & credit agencies ....	212.64	222.49	237.73	237.78	267.80	291.78
Hotels .....	193.64	208.98	222.95	234.57	243.42	259.38
Average weekly hours						
Contract construction .....	36.2	35.8	37.2	36.9	36.6	36.9
Manufacturing .....	38.5	37.9	38.6	38.1	37.4	38.9
Food and kindred products ..	39.3	38.4	39.2	38.0	36.9	39.1
Communication and utilities ..	43.5	43.9	41.7	41.0	41.8	42.4
Trade 1/ .....	33.0	33.2	33.4	33.0	33.1	32.9
Wholesale trade .....	38.0	37.7	38.1	38.1	38.4	38.5
Retail trade 1/ .....	31.4	31.8	31.9	31.3	31.3	31.0
Banking & credit agencies ....	...	...	...	38.6	38.7	38.8
Hotels .....	32.6	32.5	32.5	33.8	33.3	34.4
Average hourly earnings (dollars)						
Contract construction .....	13.13	14.50	15.80	16.46	17.14	17.42
Manufacturing .....	7.53	7.96	8.23	8.35	8.65	8.86
Food and kindred products ..	6.98	7.34	7.44	7.71	8.22	8.22
Communication and utilities ..	9.97	11.08	11.66	12.49	12.97	13.73
Trade 1/ .....	6.03	6.45	6.74	6.84	6.91	7.04
Wholesale trade .....	7.26	7.71	7.93	8.13	8.10	8.47
Retail trade 1/ .....	5.55	5.97	6.26	6.33	6.42	6.46
Banking & credit agencies ....	...	...	...	6.16	6.92	7.52
Hotels .....	5.94	6.43	6.86	6.94	7.31	7.54

1/ Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations,  
Labor Force Data Book (March 1978), as revised April 1987.

Table 389.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS  
IN PRIVATE INDUSTRY: 1982 TO 1987

Job classification	1982	1983	1984	1985	1986	1987
MONTHLY RATES						
Junior typist .....	903	975	1,013	1,036	1,084	1,103
Clerk-stenographer .....	1,194	1,250	1,296	1,384	1,485	1,583
Secretary .....	1,199	1,256	1,341	1,407	1,461	1,516
Data entry operator .....	1,004	1,072	1,134	1,139	1,194	1,218
Bookkeeper, full-charge .....	1,453	1,580	1,647	1,707	1,794	1,865
Engineering drafting technician .....	1,648	1,804	1,898	1,952	1,891	2,049
Hospital attendant .....	939	1,018	1,057	1,101	1,135	1,171
Staff nurse .....	1,669	1,875	1,978	2,081	2,159	2,287
HOURLY RATES						
Housekeeper .....	5.193	5.580	5.806	6.078	6.412	6.714
Cook, general .....	7.505	8.048	8.308	8.626	8.950	8.747
Waiter/waitress .....	3.377	3.483	3.586	3.676	3.846	3.866
Laborer (light) .....	6.360	6.506	6.688	6.959	7.187	7.399
Carpenter (maintenance) .....	9.075	9.362	9.769	10.139	10.405	10.768
Electrician (maintenance) ...	10.327	10.745	11.243	11.529	12.191	12.486
Automotive mechanic .....	9.543	9.697	10.152	10.191	10.753	11.154
Truck driver (1.5-5 tons) ...	7.708	8.288	8.576	8.853	8.734	9.783

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 390.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1987

[In dollars]

Job classification and year	State average	Kauai	Oahu	Maui County	Hawaii County
MONTHLY RATES					
Junior typist .....	1,103	...	1,106	...	...
Clerk-stenographer .....	1,583	...	1,561	...	...
Secretary .....	1,516	1,488	1,512	1,651	1,448
Data entry operator .....	1,218	1,321	1,213	...	1,272
Bookkeeper, full-charge ....	1,865	...	1,830	...	...
Engineering drafting technician .....	2,049	...	2,080	...	2,044
Hospital attendant .....	1,171	1,161	1,174	1,152	...
Staff nurse .....	2,287	2,263	2,289	2,201	...
HOURLY RATES					
Housekeeper .....	6.714	6.722	6.723	6.643	6.710
Cook, general .....	8.747	9.289	8.559	8.974	9.953
Waiter/waitress .....	3.866	4.161	3.808	3.991	4.237
Laborer (light) .....	7.399	7.373	7.496	7.434	6.182
Carpenter (maintenance) ....	10.768	10.379	11.202	10.532	9.805
Electrician (maintenance) ..	12.486	11.030	13.311	11.085	13.021
Automotive mechanic .....	11.154	10.149	12.204	10.580	10.415
Truck driver (1.5-5 tons) ..	9.783	...	10.477	8.609	7.705

Source: Hawaii Employers Council, Pay Rates in Hawaii (Special Publication No. 175, September 1987).

Table 391.-- ANNUAL BASE SALARIES FOR SELECTED EXECUTIVE POSITIONS  
IN HOTELS AND RESORT CONDOMINIUMS: 1986

[\$1,000]

Position	Hotels			Resort condominiums		
	Low	Median	High	Low	Median	High
General manager .....	20	54	100	18	34	76
Food and beverage manager .	18	34	62	...	...	...
Executive chef .....	20	34	54	...	...	...
Front office manager .....	16	22	36	12	19	30
Reservations manager .....	16	22	48	16	19	24
Executive housekeeper .....	14	22	56	16	21	45
Controller .....	20	33	68	...	...	...
Chief engineer .....	16	36	54	16	22	40

Source: Pannell Kerr Forster, 1986 Hawaii Hotel and Resort Condominium Executive Compensation Survey Report (January 1987).

Table 392.-- MEDIAN AND MEAN ANNUAL EARNINGS IN 1979, BY SEX AND  
LABOR FORCE STATUS: 1980

[Dollars]

Labor force status	Median earnings		Mean earnings	
	Males	Females	Males	Females
Persons 15 years and over ....	11,905	7,234	14,650	8,117
Worked in 1979 .....	11,963	7,264	14,672	8,141
50 to 52 weeks .....	14,510	9,693	17,187	10,640
Usually worked 35 or more hours per week .....	15,208	10,535	17,843	11,594

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 236.

Table 393.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1976 TO 1986

Calendar year	Island workers on the Mainland <u>1/</u>		Mainland workers in Hawaii <u>2/</u>		Ratio <u>3/</u>
	Total <u>4/</u>	Regular only	Total <u>4/</u>	Regular only	
1976 .....	9,934	7,458	8,994	8,334	112
1977 .....	7,090	5,846	8,846	8,154	139
1978 .....	4,495	4,313	6,533	6,261	145
1979 <u>5/</u> .....	4,272	4,272	5,285	5,250	123
1980 .....	5,633	5,211	5,196	4,956	95
1981 .....	5,619	5,485	4,552	4,396	80
1982 .....	5,372	5,372	5,259	4,848	90
1983 .....	4,414	4,414	4,891	4,659	106
1984 <u>6/</u> .....	4,123	4,123	4,237	4,219	102
1985 .....	4,039	4,039	4,034	3,993	99
1986 .....	3,664	3,664	4,000	3,932	107

1/ Interstate liable initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland. Since July 1980, data have included Federal civilian employees and ex-servicemen.

2/ Interstate agent initial claims (UI and Supp.), excluding UCFE and Supp. 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 (regular only) as a percent of inter-state liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims.

5/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 and later years are accordingly not directly comparable with figures for earlier years.

6/ Revised from Data Book 1986, table 378.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (annual), and records.

Table 394.-- WORK DISABILITY STATUS OF CIVILIANS 18 TO 64 YEARS OLD, BY  
SELECTED CHARACTERISTICS AND SEX: 1980

[Noninstitutional population only]

Characteristic	With no work disability		With a work disability			
	Male	Female	Not prevented from working		Prevented from working	
			Male	Female	Male	Female
Total .....	240,362	276,721	11,422	8,167	7,796	8,460
Age:						
18 to 34 years old .	119,684	141,698	4,316	3,058	1,739	1,677
35 to 54 years old .	84,246	97,609	4,554	3,165	2,523	3,165
55 to 64 years old .	36,432	37,414	2,552	1,944	3,534	3,618
High school graduates	196,201	224,021	8,404	5,770	3,967	4,099
Labor force status:						
Civilian labor force	213,904	186,044	9,764	5,091	-	-
Employed .....	205,090	177,834	8,588	4,635	-	-
Unemployed .....	8,814	8,210	1,176	456	-	-
Not in labor force .	26,458	90,677	1,658	3,076	7,796	8,460
Income in 1979:						
With income .....	230,470	221,878	10,915	6,637	7,036	5,711
Median income ....	\$14,541	\$7,571	\$10,927	\$5,394	\$5,813	\$3,391
Below poverty level ..	14,617	24,682	1,407	1,233	1,700	2,119

Source: U.S. Bureau of the Census, 1980 Census of Population, Selected Characteristics of Persons With a Work Disability by State: 1980, PC80-S1-20 (November 1985), pp. 58-59.

Table 395.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF  
 NONGOVERNMENTAL WORKERS: 1984 AND 1985

[Data exclude agricultural employers with fewer than 11 employees]

Subject	1984: total	1985		
		Total	Injuries	Illnesses
Recordable cases .....	25,999	26,026	25,546	480
Lost workday cases .....	14,058	13,801	13,570	231
Lost workdays .....	220,294	202,260	197,210	5,050
Per lost workday case .....	16	15	15	22
Nonfatal cases without lost workdays.	11,930	12,205	11,960	245
Number of recordable cases:				
Agriculture .....	1,588	1,740	1,701	39
Mining .....	11	15	15	-
Construction .....	2,703	3,177	3,161	16
Manufacturing .....	2,711	2,550	2,525	25
Transportation, public utilities ..	2,907	2,923	2,868	55
Wholesale and retail trade .....	7,391	7,689	7,586	103
Finance, insurance, real estate ...	1,197	921	908	13
Services .....	7,491	7,011	6,782	229
Incidence per 100 full-time workers .				
Agriculture .....	10.0	9.6	9.5	0.2
Mining .....	18.3	21.0	20.5	0.5
Construction .....	3.6	4.1	4.1	-
Manufacturing .....	21.5	22.7	22.6	0.1
Transportation, public utilities ..	13.5	13.0	12.9	0.1
Wholesale and retail trade .....	11.1	10.6	10.4	0.2
Finance, insurance, real estate ...	9.0	8.9	8.8	0.1
Services .....	4.3	3.4	3.4	(Z)
	9.1	8.0	7.8	0.3

Z Less than 0.05.

Source: Hawaii State Department of Labor and Industrial Relations, 1985 Occupational Injuries and Illnesses Survey, State of Hawaii, p. 5.

Table 396.-- WORK INJURIES, DEATHS, TIME LOST, AND  
COMPENSATION COSTS: 1981 TO 1986

Year	Accidents	Deaths	Time lost (compensated days)	Compensation costs (\$1,000)
1981 ...	44,320	36	894,058	66,950
1982 ...	40,521	47	1,057,504	90,778
1983 ...	39,013	48	1,141,746	103,338
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

Source: Hawaii State Department of Labor and  
Industrial Relations, Work Injury Statistics (annual).

Table 397.-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1985

Subject	Total	AFL-CIO affiliated	Independent
Unions and associations ...	82	56	26
Membership <u>1/</u> .....	157,000	104,000	53,000

1/ Data exclude 12 unions and associations not reporting  
membership.

Source: Hawaii State Department of Labor and Industrial  
Relations, Labor Organizations & Affiliates, 1986 (December  
1985).



Table 398.-- UNION MEMBERSHIP: 1975 TO 1982

[Data represent annual average, dues-paying full-time equivalent membership derived from financial records. Excludes unemployed members]

Subject	1975	1980	1982
Union membership (in thousands) .....	117	129	126
Percent of nonagricultural employment ...	34.3	31.8	31.5

Source: Industrial Relations Data and Information Services, cited in Statistical Abstract of the United States: 1987, p. 408.

Table 399.-- COLLECTIVE BARGAINING AGREEMENTS: 1982 TO 1987

[Covers collective bargaining agreements subject to wage negotiations]

Year	Number of agreements	Workers covered		Duration over 2 years (percent)	
		Total	Per agreement	Agreements	Workers
1982 .....	379	27,400	72	84.4	65.9
1983 .....	1,019	68,000	67	90.3	20.4
1984 .....	901	26,200	29	93.7	76.7
1985 .....	350	58,450	167	74.3	11.7
1986 .....	138	13,550	98	60.2	44.1
1987 <u>1/</u> ..	1,375	80,400	58	96.4	42.9

1/ Scheduled.

Source: Helene S. Tanimoto, Duration of Collective Bargaining Agreements in Hawaii, 1987 (University of Hawaii at Manoa, Industrial Relations Center, Occasional Publication No. 157, January 1987).

Table 400.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS:  
1984 TO 1986

[As of December 31]

Jurisdiction or unit	1984	1985	1986
Total .....	42,171	42,525	42,907
Employing jurisdiction:			
State of Hawaii .....	18,597	18,820	18,952
City and County of Honolulu .....	7,471	7,366	7,418
County of Hawaii .....	1,319	1,338	1,346
County of Maui .....	994	988	1,028
County of Kauai .....	682	674	674
Dept. of Education .....	9,582	9,738	9,787
University of Hawaii .....	3,526	3,601	3,702
Bargaining unit:			
1 Nonsupervisory blue collar .....	7,683	7,681	7,703
2 Supervisory blue collar .....	764	745	745
3 Nonsupervisory white collar .....	9,500	9,395	9,529
4 Supervisory white collar .....	521	506	505
5 Teachers, Dept. of Education .....	9,044	9,185	9,221
6 Educational officers, DOE .....	538	553	566
7 University faculty .....	2,719	2,768	2,818
8 University personnel, exc. faculty .	807	833	884
9 Registered nurses .....	777	739	732
10 Nonprofessional hospital workers ...	1,956	1,997	1,965
11 Firefighters .....	1,509	1,505	1,521
12 Police officers .....	2,143	2,123	2,153
13 Professional and scientific .....	4,210	4,495	4,565

Source: Hawaii Labor Relations Board (formerly Hawaii Public Employment Relations Board), HLRB Information Bulletin, No. 24, April 30, 1987, and earlier issues.

Table 401.-- WORK STOPPAGES: 1982 TO 1986

[Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers, and moreover are limited to stoppages begun or in progress during the week containing the 12th of each month during the year]

Year	Number of stoppages <u>1/</u>	Workers involved <u>1/</u>	Man-days lost <u>2/</u>
1982 .....	7	911	14,480
1983 .....	7	2,838	44,411
1984 .....	6	2,063	123,486
1985 <u>3/</u> .....	9	1,990	32,257
1986 .....	6	1,266	49,533

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

3/ Revised from Data Book 1986, table 385.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 402.-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS:  
1982 TO 1986

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 .....	-	-	-	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 1985 was about \$17 billion. The major sources of outside income to Hawaii in 1986 were defense expenditures (\$1.8 billion), pineapple production (\$242 million), sugar production (\$362 million), and visitor expenditures (\$5.55 billion). Personal income in 1986 was \$15.8 billion, compared with \$6.7 billion only ten years earlier, and per capita personal income was \$14,900, almost twice the 1976 level. The per capita figure for Hawaii was slightly above the national average, but not high enough to compensate for the Islands' much higher cost of living. The median annual income of families, based on data for 1986, was \$34,700; for unrelated individuals, the median was \$14,900. The official poverty threshold for a 4-person family in Hawaii was set in February 1987 at \$12,880. The most recent family expenditure survey, taken in 1982 and 1983, reported that the largest items in the family budget on Oahu were housing (accounting for 27.5 percent of total spending), food (18.4 percent) and transportation (18.2 percent). Top wealthholders in 1982 included 14,000 persons with assets of \$300,000 or more and 800 millionaires.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service, Hawaii Agricultural Statistics Service, Hawaii State Department of Business and Economic Development, 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: 1987, Section 14.

Table 403.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1960 TO 1986

[In millions of dollars]

Year	Total for four major industries	Value of production		Defense expenditures <u>2/</u>	Visitor expenditures <u>3/</u>
		Raw sugar and molasses <u>1/</u>	Fresh and processed pineapple		
1960 ...	720	118.4	119.4	351.4	131
1961 ...	771	136.5	117.5	379.9	137
1962 ...	766	149.3	115.0	348.0	154
1963 ...	839	181.7	123.7	347.5	186
1964 ...	879	154.6	126.9	392.6	205
1965 ...	948	165.7	126.7	430.2	225
1966 ...	1,076	179.6	127.7	488.4	280
1967 ...	1,255	180.3	133.3	561.4	380
1968 ...	1,331	189.1	127.5	574.6	440
1969 ...	1,480	179.0	125.4	625.9	550
1970 ...	1,561	187.8	138.6	639.4	595
1971 ...	1,758	202.9	141.4	708.8	705
1972 ...	1,914	184.7	145.4	744.2	840
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,750	285.2	162.8	1,155.5	2,146
1979 ...	4,311	345.7	206.4	1,221.8	2,537
1980 ...	5,013	594.1	226.5	1,317.4	2,875
1981 ...	5,195	327.9	217.6	1,449.3	3,200
1982 ...	5,951	351.5	206.0	1,693.4	3,700
1983 ...	6,451	410.2	219.0	1,848.2	3,974
1984 ...	7,092	393.0	249.6	1,867.2	4,582
1985 ...	7,429	340.8	222.5	1,965.4	4,900
1986 ...	7,939	361.9	242.0	1,784.9	5,550

1/ Excludes government sugar support payments.

2/ Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts.

3/ Direct visitor expenditures in Hawaii, exclusive of trans-pacific transportation and expenditures of carriers and crews.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, 1986 Annual Research Report, table 1.

Table 404.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE  
PRODUCT: 1958 TO 1986

[For projections to 1991, see table 411]

Year	Gross state product (thousands of dollars)		Per capita gross state product (dollars)	
	Current dollars	1982 dollars	Current dollars	1982 dollars
1958 .....	1,414,964	4,115,775	2,337	6,799
1959 .....	1,572,503	4,607,658	2,528	7,407
1960 .....	1,805,090	5,224,929	2,814	8,145
1961 .....	1,886,511	5,229,222	2,864	7,939
1962 .....	1,965,769	5,459,636	2,876	7,988
1963 .....	2,101,812	5,593,061	3,081	8,198
1964 .....	2,301,335	6,145,383	3,288	8,781
1965 .....	2,350,438	6,677,279	3,340	9,487
1966 .....	2,771,409	7,055,855	3,902	9,933
1967 .....	2,990,024	7,312,564	4,138	10,121
1968 .....	3,344,500	7,913,222	4,554	10,774
1969 .....	3,952,266	8,884,798	5,268	11,843
1970 .....	4,414,039	9,309,703	5,720	12,065
1971 .....	4,773,823	9,797,100	5,955	12,221
1972 .....	5,305,387	10,455,311	6,405	12,622
1973 .....	6,009,311	10,975,563	7,057	12,888
1974 .....	6,901,698	10,953,462	7,951	12,620
1975 .....	7,411,268	11,601,888	8,363	13,092
1976 .....	7,933,371	11,747,134	8,774	12,992
1977 .....	8,597,376	12,105,930	9,363	13,184
1978 .....	9,627,637	12,491,630	10,335	13,409
1979 .....	10,906,430	12,985,191	11,441	13,621
1980 .....	12,225,729	13,700,639	12,619	14,141
1981 .....	13,078,262	14,028,215	13,343	14,312
1982 .....	13,691,047	13,691,047	13,725	13,725
1983 .....	14,811,784	14,207,807	14,541	13,948
1984 .....	15,826,526	14,635,599	15,276	14,127
1985 .....	16,813,829	15,047,567	15,991	14,311
1986 <u>1/</u> .....	18,054,800	15,754,600	16,996	14,831

1/ Preliminary.

Source: Hawaii State Department of Business and Economic Development, Hawaii's Income and Product Accounts: 1958 to 1985 (forthcoming), and unpublished preliminary 1986 estimates.

Table 405.-- EXPENDITURES ON GROSS STATE PRODUCT: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Gross state product .....	14,811.8	15,826.5	16,813.8
Personal consumption expenditures 1/ .....	9,356.5	10,052.7	10,606.6
Food, alcoholic beverages and tobacco .....	3,156.5	3,353.4	3,630.5
Clothing, accessories and jewelry .....	966.9	1,003.2	1,123.9
Personal care .....	132.9	143.5	152.1
Housing .....	2,901.3	3,209.2	3,403.1
Household operation .....	1,172.0	1,371.5	1,366.8
Medical care .....	1,028.3	1,114.1	1,192.9
Personal business .....	755.0	826.1	965.4
Transportation .....	1,523.6	1,744.7	1,731.6
Recreation .....	1,212.5	1,346.2	1,371.5
Private education and research .....	110.9	116.4	125.4
Religious and welfare activities .....	113.2	136.9	145.6
Foreign travel and other, net .....	-3,716.7	-4,312.7	-4,602.0
Gross private domestic investment .....	3,988.0	4,600.0	4,904.0
Fixed investment .....	1,633.8	1,424.4	1,608.5
Change in business inventories .....	-43.8	-	61.3
Government purchases of goods and services (f) .....	5,158.2	5,324.7	5,620.5
State and local .....	2,456.5	2,523.5	2,538.6
Compensation of employees .....	1,291.9	1,352.7	1,402.0
Other current expenditures .....	778.4	786.8	791.5
Equipment .....	49.2	53.1	56.4
Construction .....	336.9	330.9	288.6
Federal .....	2,701.7	2,801.2	3,082.0
Defense .....	2,556.5	2,653.0	2,810.1
Non-defense .....	145.2	148.2	271.9
Net exports .....	-1,725.7	-978.7	-1,262.8
Exports .....	7,347.5	8,142.0	8,449.0
Commodities .....	1,440.7	1,419.8	1,336.3
Services .....	1,918.8	2,122.1	2,208.7
Visitor and crew expenditures .....	3,988.0	4,600.0	4,904.0
Less: Imports .....	9,073.2	9,120.7	9,711.8
Commodities .....	6,461.9	6,568.0	6,981.2
Services .....	2,340.0	2,265.3	2,428.6
Out-of-state expenditures of Hawaii residents ..	271.3	287.3	302.0
Discrepancy and omissions .....	432.9	3.4	179.7

Footnotes and source follow table 410.

Table 406.-- EXPENDITURES ON GROSS STATE PRODUCT (1982 DOLLARS): 1983 TO 1985

[In millions of 1982 dollars]

Item	1983	1984	1985
Gross state product .....	14,210.1	14,637.3	15,046.4
Personal consumption expenditures 1/ .....	8,996.8	9,319.5	9,506.5
Food, alcoholic beverages and tobacco .....	3,046.1	3,109.1	3,268.7
Clothing, accessories and jewelry .....	949.8	980.8	1,027.9
Personal care .....	126.0	131.2	134.1
Housing .....	2,752.2	2,840.8	2,742.0
Household operation .....	1,148.9	1,310.7	1,292.7
Medical care .....	956.1	966.1	966.9
Personal business .....	679.1	706.6	790.4
Transportation .....	1,496.2	1,706.2	1,687.7
Recreation .....	1,184.6	1,291.3	1,291.3
Private education and research .....	106.2	106.7	110.6
Religious and welfare activities .....	109.7	127.9	133.3
Foreign travel and other, net .....	-3,558.3	-3,958.0	3,939.1
Gross private domestic investment .....	1,588.3	1,410.9	1,628.6
Fixed investment .....	1,631.2	1,410.9	1,572.9
Change in business inventories .....	-42.9	-	55.8
Government purchases of goods and services (f) ..	5,057.7	5,015.4	5,115.9
State and local .....	2,411.8	2,380.9	2,312.7
Compensation of employees .....	1,264.1	1,271.4	1,275.7
Other current expenditures .....	761.7	739.5	720.2
Equipment .....	49.4	53.8	57.5
Construction .....	336.6	316.3	259.3
Federal .....	2,645.9	2,634.4	2,803.2
Defense .....	2,503.7	2,495.0	2,555.9
Non-defense .....	142.2	139.4	247.3
Net exports .....	-1,856.3	-1,111.7	-1,368.1
Exports .....	7,183.9	7,814.1	7,903.7
Commodities .....	1,392.7	1,410.3	1,378.4
Services .....	1,970.0	2,178.8	2,315.2
Visitor and crew expenditures .....	3,821.2	4,225.0	4,210.2
Less: Imports .....	9,040.1	8,925.8	9,271.9
Commodities .....	6,575.9	6,559.3	6,790.9
Services .....	2,201.3	2,099.5	2,209.9
Out-of-state expenditures of Hawaii residents	262.9	267.0	271.1
Discrepancy and omissions .....	423.5	3.2	163.5

Footnotes and source follow table 410.



Table 407.-- CHARGES AGAINST GROSS STATE PRODUCT: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Compensation of employees .....	9,768.6	10,365.1	11,094.2
Wage and salary disbursements .....	8,142.0	8,620.3	9,208.9
Supplements to wages and salaries .....	1,626.6	1,744.8	1,885.3
Employer contributions for social insurance .	925.8	987.6	1,068.5
State and local government programs .....	158.4	172.9	188.9
Federal government programs .....	767.4	814.6	879.6
Other labor income .....	700.7	757.2	816.9
Proprietors' income .....	910.3	947.6	1,003.1
Rental income of persons .....	104.8	84.8	84.6
Corporate profits before tax .....	583.7	702.4	661.0
Profits tax .....	85.1	178.4	189.0
State and local tax .....	29.5	42.8	48.7
Federal tax .....	55.6	135.5	140.3
Profits after tax .....	498.6	524.0	472.0
Dividends .....	272.3	298.4	303.5
Undistributed profits .....	226.3	225.6	168.5
Net interest .....	1,207.1	1,363.2	1,471.3
Personal interest income .....	-118.9	-130.8	-148.5
Less: Government interest, net .....	-128.9	-143.1	-162.2
State and local (incl. state retirement fund)			
Federal .....	10.0	12.3	13.7
Less: Interest paid by consumers to business .	372.3	447.0	450.4
Net state income .....	12,574.4	13,463.1	14,314.2
Business transfer payments .....	72.0	80.9	92.1
Indirect business tax and non-tax, state			
and local .....	1,148.9	1,219.4	1,279.6
Less: Subsidies less current surplus of state			
and local government enterprises .....	-16.8	-16.0	-12.7
Indirect business tax and non-tax, Federal .....	69.0	79.8	75.3
Less: Subsidies less current surplus of Federal			
government enterprises .....	-65.9	-62.3	-86.7
Net state product .....	13,947.1	14,921.5	15,860.6
Capital consumption allowances .....	864.7	905.0	953.2
Gross state product .....	14,811.8	15,826.5	16,813.8

Footnotes and source follow table 410.

Table 408.-- TOTAL PERSONAL CONSUMPTION EXPENDITURES: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Personal consumption expenditures <u>1/</u> .....	9,356.5	10,052.7	10,606.6
Food, alcoholic beverages and tobacco .....	3,156.5	3,353.4	3,630.5
Food and alcohol, at home .....	1,452.0	1,523.8	1,638.2
Food and alcohol, away from home .....	1,600.1	1,725.3	1,890.3
Tobacco .....	104.4	104.3	101.9
Clothing, accessories and jewelry .....	966.9	1,003.2	1,123.9
Clothing and accessories .....	570.0	594.0	675.1
Footwear and upkeep .....	135.7	141.6	158.0
Jewelry .....	261.2	267.6	290.8
Personal care .....	132.9	143.5	152.1
Housing .....	2,901.3	3,209.2	3,403.1
Owner-occupied .....	766.9	820.0	874.4
Tenant-occupied .....	793.3	844.3	890.5
Rental value of farm dwellings .....	19.0	20.2	21.1
Hotels and other group quarters .....	1,322.1	1,524.7	1,617.2
Household operation .....	1,172.0	1,371.5	1,366.8
Furnishings .....	650.7	760.6	757.8
Utilities, telephone, and other services ....	521.4	611.0	609.0
Medical care .....	1,028.3	1,114.1	1,192.9
Drugs and orthopedic appliances .....	225.8	246.6	261.4
Hospitals and other professional services ...	688.9	754.7	818.7
Health insurance .....	113.6	112.8	112.8
Personal business .....	755.0	826.1	965.4
Transportation .....	1,523.6	1,744.7	1,731.6
Private (user-operated) .....	1,204.7	1,414.5	1,389.5
Public .....	318.8	330.2	342.1
Recreation .....	1,212.5	1,346.2	1,371.5
Books, radios, TV and other durables .....	448.8	503.7	472.4
Sport supplies, flowers & other non-durables	180.7	190.6	201.5
Movies, spectator sports and other services .	583.0	651.9	697.6
Private education and research .....	110.9	116.4	125.4
Religious and welfare activities .....	113.2	136.9	145.6
Foreign travel and other, net .....	-3,716.7	-4,312.7	-4,602.0
Out-of-State expenditures of residents .....	271.3	287.3	302.0
Less: Visitor expenditures .....	3,988.0	4,600.0	4,904.0
Addenda:			
Total durables .....	1,955.2	2,263.8	2,189.6
Total nondurables .....	4,731.4	5,028.6	5,451.4
Total services .....	2,669.9	2,760.3	2,965.6

Footnotes and source follow table 410.

Table 409.-- HAWAII'S EXPORTS AND IMPORTS OF GOODS AND SERVICES:  
1983 TO 1985

[In millions of dollars]

Classification	1983	1984	1985
Hawaii's exports of goods and services .....	7,347.5	8,142.0	8,449.0
Merchandise exports .....	1,440.7	1,419.8	1,336.3
Primary .....	592.3	571.2	480.4
Sugar and molasses .....	385.9	351.5	302.3
Pineapple .....	206.4	219.7	178.2
Secondary .....	139.9	142.2	149.0
Garments .....	29.5	30.5	33.6
Canned tuna .....	28.9	25.0	21.1
Flowers .....	22.0	21.6	24.3
Papaya .....	10.9	9.0	6.1
Macadamia nuts and coffee .....	24.3	30.1	36.0
All other .....	24.3	26.0	27.9
Miscellaneous .....	708.5	706.4	706.9
Other processed foods and feeds .....	23.2	23.0	23.0
Fuels and petroleum products .....	161.7	158.3	155.1
All other .....	523.6	525.3	528.8
Services and income from investments .....	1,918.8	2,122.1	2,208.7
Visitors and crew expenditures .....	3,988.0	4,600.0	4,904.0
Hawaii's imports of goods and services .....	9,073.2	9,120.7	9,711.8
Merchandise imports .....	6,461.9	6,568.0	6,981.2
Domestic waterborne .....	4,856.6	5,047.9	5,290.2
Farm products .....	56.1	52.6	55.1p
Processed foods and feed .....	523.9	587.5	615.7p
Fuels and petroleum products .....	1,436.2	1,550.0	1,624.4p
Metallic ores and metal .....	195.6	197.5	207.0p
Pulp, paper and paper products .....	190.7	221.9	232.6p
Non-metal products and mineral .....	158.1	149.0	156.1p
Lumber, forest and wood .....	74.2	94.3	98.8p
Chemicals and products .....	163.1	181.9	190.7p
Machinery .....	129.0	144.7	151.6p
Transportation equipment .....	346.5	393.6	412.5p
Manufactured goods .....	405.9	385.8	404.4p
Misc. and containerized cargo .....	1,177.4	1,089.3	1,141.5p
Domestic airborne .....	239.7	261.5	274.0
Foreign, total .....	1,365.5	1,258.6	1,417.0
Fuels and petroleum products .....	778.2	519.5	581.7
Transportation equipment .....	171.4	217.3	253.9
Manufactured goods .....	142.1	167.1	173.3
All other .....	273.8	354.7	408.1
Services and income from investments .....	2,340.0	2,265.3	2,428.6
Out-of-State expenditures by Hawaii residents	271.3	287.3	302.0

Footnotes and source follow table 410.

Table 410.-- SUMMARY OF GOVERNMENT ACCOUNTS, STATE AND LOCAL,  
AND FEDERAL: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985f
Total revenues, State and local (HIE) .....	2,659.9	2,842.4	2,957.7
State and local tax and non-tax .....	2,169.1	2,344.4	2,466.9
Personal tax and non-tax .....	747.1	821.0	856.4
Corporate profits tax .....	29.5	42.8	48.7
Indirect business tax and non-tax .....	1,148.9	1,219.4	1,279.6
Contributions to social insurance programs ...	243.6	261.1	282.3
Employers' .....	158.4	172.9	188.9
Personal .....	85.3	88.2	93.4
Federal grants-in-aid .....	490.7	498.0	490.8
Total expenditures, State and local (HIE) .	2,581.0	2,645.7	2,657.6
Purchases of goods and services .....	2,456.5	2,523.5	2,538.6
Compensation of employees .....	1,291.9	1,352.7	1,402.0
Purchases from business .....	1,164.6	1,170.8	1,136.5
Transfer payments to persons .....	270.3	281.2	294.0
Net interest paid .....	-128.9	-143.1	-162.2
Interest paid (by government) .....	185.9	203.8	210.3
Less: Interest received (by government) .....	314.8	346.9	372.5
Subsidies less current surplus of gov. ent. <u>2/</u> .	-16.8	-16.0	-12.7
Surplus or deficit (-), State & local (HIE)	78.8	196.7	300.1
Total revenues, Federal .....	4,668.2	4,837.2	5,195.7
Federal tax and non-tax revenues .....	1,937.5	2,113.4	2,240.6
Personal tax and non-tax .....	527.8	524.0	519.8
Corporate profits tax .....	55.6	135.5	140.3
Indirect business tax and non-tax .....	69.0	79.8	75.3
Contributions for social insurance programs ..	1,285.2	1,374.0	1,505.2
Employers .....	767.4	814.6	879.6
Personal .....	517.7	559.4	625.6
Transfers from Federal gov. in Washington, D.C.	2,730.6	2,723.9	2,955.1
Total expenditures, Federal .....	4,668.2	4,837.2	5,195.7
Purchases of goods and services, (GSP) .....	2,701.7	2,801.2	3,082.0
Transfer payments to persons .....	1,531.7	1,588.1	1,700.9
Grants-in-aid to State and local government ....	490.7	498.0	485.8
Net interest paid (to persons) (p) .....	10.0	12.3	13.7
Subsidies less current surplus of gov. ent. ....	-65.9	-62.3	-86.7

f Fiscal year data; p preliminary data.

1/ Refers to purchases in Hawaii.

2/ State and local governments paid no subsidies during this period.

Source: Hawaii State Department of Business and Economic Development,  
Hawaii's Income and Product Accounts: 1958 to 1985 (forthcoming).

Table 411.-- INCOME PROJECTIONS: 1980 TO 2005

[Constant 1980 dollars. Series M-F projections]

Year	Gross State product (millions)	Personal income (millions)	Disposable personal income (millions)	Per capita personal income (dollars)
1980 (revised) .	11,878.3	10,309.8	8,800.4	10,648
1985 (revised) .	(NA)	11,310.9	9,795.1	10,733
1990 .....	14,061.8	12,896.3	11,026.3	11,328
1995 .....	16,192.3	14,774.3	12,632.0	12,195
2000 .....	18,264.4	16,611.9	14,203.1	13,103
2005 .....	20,180.8	18,336.8	15,678.0	13,998

NA Not available.

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 15; U.S. Bureau of Economic Analysis microfiche dated August 1986, adjusted to 1980 constant dollars by DBED.

Table 412.-- PROJECTED PERSONAL INCOME, TOTAL AND PER CAPITA, FOR THE STATE AND OAHU: 1983 TO 2015

Subject	1983	1990	1995	2000	2005	2015
Total personal income: <u>1/</u>						
State total .....	5,804	7,212	8,109	9,006	9,922	11,566
Oahu .....	4,749	5,814	6,486	7,149	7,824	9,042
Per capita personal income: <u>2/</u>						
State total .....	5,701	6,517	7,018	7,461	7,884	8,587
Oahu .....	5,944	6,829	7,349	7,802	8,228	8,954

1/ Millions of 1972 dollars.

2/ 1972 dollars.

Source: U.S. Bureau of Economic Analysis, 1985 OBERS BEA Regional Projections (1985), Vol. 1, pp. 26-27, and Vol. 2, p. 146.

Table 413.-- TOTAL AND PER CAPITA PERSONAL INCOME AND  
DISPOSABLE PERSONAL INCOME: 1969 TO 1986

[Revised from Data Book 1986, table 397]

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1969 ...	3,277	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	10,616	9,064	107	108
1981 ...	11,052	9,419	11,276	9,609	103	104
1982 ...	11,756	10,217	11,765	10,242	102	105
1983 ...	12,843	11,068	12,608	10,866	104	105
1984 ...	13,636	11,894	13,161	11,480	100	102
1985 ...	14,805	12,824	14,080	12,196	101	103
1986 ...	15,814	13,696	14,886	12,893	102	103

Source: U.S. Department of Commerce, Bureau of Economic  
Analysis, printouts dated August 1987.

Table 414.-- PER CAPITA PERSONAL INCOME IN CURRENT AND CONSTANT DOLLARS: 1970 AND 1986

Subject	Value	Subject	Value
Per capita personal income: <u>1/</u>		Percent increase, 1970-86: <u>3/</u>	
1970 .....	4,944	Current dollars .....	201.1
1986 .....	14,886	Constant dollars .....	14.2
In 1970 dollars <u>2/</u> .....	5,646		
Percent of U.S. average:		Rank: <u>4/</u>	
1970 .....	122.0	1970 .....	4
1986 .....	101.7	1986 .....	17
		Percent increase .....	51

1/ In dollars. U.S. values were \$4,051 in 1970 and \$14,641 in 1986 (\$5,185 in 1970 dollars).

2/ Based on Honolulu CPI-W for 1970 (114.2) and CPI-U for 1986 (301.1).

3/ U.S. increases were 261.4 percent in current dollars and 28.0 percent in constant dollars).

4/ Among 50 States and D.C.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1987. Constant dollar values calculated by DBED.

Table 415.-- PERSONAL INCOME: QUARTERLY, 1982 TO 1987

[In millions of dollars. Seasonally adjusted at annual rates]

Quarter	1982	1983	1984	1985	1986	1987
First .....	11,487	12,541	13,409	14,232	15,267	16,158
Second .....	11,678	12,717	13,649	14,412	15,486	...
Third .....	11,914	12,812	13,800	14,627	15,774	...
Fourth .....	12,016	13,377	13,903	14,962	15,955	...

Source: U.S. Bureau of Economic Analysis, Survey of Current Business, July 1987, pp. 133-134.

Table 416.-- PERSONAL INCOME BY MAJOR SOURCES: 1981 TO 1986

[In millions of dollars. Revised from Data Book 1986, table 400]

Item	1981	1982	1983	1984	1985	1986
Labor and proprietors income						
By type:						
Wage and salary disbursements ..	7,176	7,647	8,117	8,584	9,169	9,757
Other labor income .....	566	641	701	752	773	827
Proprietors income .....	638	670	904	937	1,066	1,206
Farm .....	82	88	181	116	134	166
Nonfarm .....	556	582	723	822	932	1,040
By industry:						
Farm .....	220	246	333	268	285	318
Nonfarm .....	8,159	8,713	9,388	10,005	10,722	11,472
Private .....	5,592	5,841	6,345	6,780	7,299	7,949
Government and govt. enterprises .....	2,567	2,872	3,042	3,225	3,423	3,523
Federal, civilian .....	720	797	860	919	963	950
Federal military .....	910	1,041	1,094	1,175	1,267	1,298
State and local .....	938	1,034	1,088	1,131	1,193	1,276
Derivation of personal income						
Labor and proprietors income .....	8,380	8,959	9,721	10,273	11,008	11,790
Less: Personal contributions for social insurance .....	506	561	586	628	678	731
Net labor and proprietors income .	7,874	8,398	9,134	9,645	10,330	11,059
Plus: Dividends, interest, and rent .....	1,638	1,648	1,837	2,049	2,179	2,343
Plus: Transfer payments .....	1,540	1,691	1,872	1,942	2,296	2,412
Personal income .....	11,052	11,736	12,843	13,636	14,805	15,814

Source: U.S. Department of Commerce, Bureau of Economic Analysis, microfiche dated August 1987.



Table 417.-- TOTAL PERSONAL INCOME, BY COUNTIES: 1959 TO 1984

[Millions of dollars]

Year	State total <sup>1/</sup>	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959 .....	1,282.5	1,061.4	221.1	100.3	49.5	71.3
1962 .....	1,635.0	1,369.0	266.0	122.0	59.1	84.9
1965 .....	2,050.5	1,718.8	331.7	149.2	73.0	109.5
1966 .....	2,245.0	1,881.4	363.6	164.5	79.9	119.2
1967 .....	2,433.6	2,044.0	389.6	172.4	86.5	130.7
1968 .....	2,725.7	2,291.4	434.4	195.6	94.2	144.5
1969 .....	3,113.9	2,632.6	481.3	217.0	103.6	160.7
1970 .....	3,566.0	3,011.1	554.9	258.0	112.7	184.3
1971 .....	3,823.2	3,213.7	609.5	285.3	122.4	201.8
1972 .....	4,177.8	3,521.6	656.2	309.4	128.5	218.3
1973 .....	4,650.4	3,915.4	735.0	340.8	146.4	247.7
1974 .....	5,297.7	4,362.7	935.0	457.8	180.4	296.8
1975 .....	5,785.4	4,799.7	985.7	463.6	185.9	336.2
1976 .....	6,222.5	5,159.2	1,063.3	486.5	201.4	375.4
1977 .....	6,975.0	5,786.3	1,188.6	531.9	227.3	429.4
1978 .....	7,771.4	6,434.6	1,336.8	579.1	257.2	500.5
1979 .....	8,684.9	7,162.4	1,522.4	651.7	291.7	579.0
1980 .....	9,810.5	8,028.5	1,782.0	789.8	337.8	654.4
1981 .....	10,878.3	8,939.9	1,938.5	846.8	369.6	722.1
1982 .....	11,592.6	9,493.2	2,099.4	902.6	394.5	802.3
1983 .....	12,553.4	10,274.4	2,279.0	977.4	425.5	876.0
1984 .....	13,532.2	11,039.2	2,493.1	1,063.8	464.6	964.7

<sup>1/</sup> For subsequent revisions in State totals, see table 413.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1984, April 1985, and April 1986.

Table 418.-- PER CAPITA PERSONAL INCOME, BY COUNTIES: 1959 TO 1984

[Dollars]

Year	State total <u>1/</u>	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959 .....	2,103	2,201	1,731	1,695	1,821	1,725
1962 .....	2,504	2,618	2,045	2,044	2,105	2,007
1965 .....	2,938	3,052	2,460	2,419	2,531	2,470
1966 .....	3,221	3,337	2,730	2,712	2,810	2,703
1967 .....	3,437	3,558	2,917	2,853	3,022	2,936
1968 .....	3,791	3,922	3,224	3,201	3,232	3,253
1969 .....	4,191	4,363	3,449	3,440	3,448	3,462
1970 .....	4,674	4,827	3,988	4,059	3,803	4,007
1971 <u>2/</u> .....	4,769	4,909	4,146	4,258	3,961	4,110
1972 .....	5,107	5,297	4,281	4,425	4,034	4,240
1973 .....	5,524	5,726	4,650	4,678	4,501	4,702
1974 .....	6,174	6,250	5,841	6,196	5,545	5,531
1975 .....	6,612	6,781	5,896	6,005	5,581	5,933
1976 .....	6,973	7,196	6,061	6,045	5,791	6,239
1977 .....	7,617	7,873	6,575	6,439	6,417	6,842
1978 .....	8,367	8,689	7,099	6,761	7,007	7,589
1979 .....	9,141	9,506	7,743	7,317	7,674	8,326
1980 .....	10,129	10,498	8,746	8,510	8,583	9,141
1981 .....	11,090	11,596	9,232	8,838	9,168	9,778
1982 .....	11,642	12,204	9,633	9,018	9,419	10,562
1983 .....	12,328	12,965	10,093	9,501	9,883	10,968
1984 .....	13,028	13,709	10,679	9,998	10,564	11,611

1/ For subsequent revisions in State per capita estimates, see table 413.

2/ Recalculated by DPED, using population estimates in Data Book 1986, table 5. The original BEA values for 1971 were based on faulty estimates.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1984, April 1985, and April 1986.

Table 419.-- UNREPORTED OR ILLEGAL INCOME: 1981

[In millions of dollars. Data are rough estimates of income from the "underground economy," calculated in part by applying national ratios of unreported to reported income, developed by Carl Simon and Ann Witte, to the official personal income estimate (\$10.8 billion in 1981) published for Hawaii. For further details, see source and Data Book 1984, table 284]

Source	Amount
Total .....	1,160.3
Income hidden to avoid taxes .....	569.1
Legal wages and salaries .....	147.4
Legal self-employment earnings .....	316.8
Other hidden income .....	104.9
Income earned by avoiding cigarette, alcohol and sales taxes	2.3
Unreported income of illegal alien workers .....	6.7
Income from illegal transfers .....	56.0
Income from production and distribution of illegal goods ...	445.6
Drugs .....	440.2
Marijuana .....	361.6
Other drugs .....	78.4
Smuggling of goods other than drugs .....	1.2
Pornography .....	4.2
Income from illegal services .....	58.0
Takeout from illegal gambling .....	38.5
Loan sharking .....	1.1
Prostitution .....	18.4
Other illegal income (hijacking, forgery, protection and extortion, pirating of records and taxes) .....	22.6

Source: Linda Kephart, "Business booms 'off-the-books,'" Hawaii Business, March 1984, p. 69.

Table 420.-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1949 TO 1986

[In dollars. Based on surveys made in March or April of following year]

Year	Households	Families	Unrelated individuals <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	8,506	13,533	6,917
1981 .....	22,434	27,499	10,003	13,635	7,069
1982 .....	23,582	27,840	11,068	13,582	8,133
1983 .....	26,805	29,742	12,211	14,903	7,941
1984 .....	28,877	32,831	12,303	16,147	8,548
1985 .....	28,961	33,244	14,351	15,865	9,987
1986 .....	29,003	34,665	14,906	18,637	11,447

NA Not available.

1/ 14 years old and over through 1975, and 15 years old and over thereafter. Data for 1975 and 1980-1986 exclude persons in military group quarters.

Source: U.S. Bureau of the Census, Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (1962), tables 66 and 67 (for 1949 data); 1970 Census of Population, General and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 47 (for 1959 data); 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61 (for 1969 and 1979 data); "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145; "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177; Current Population Survey (March), annual, 1981 to 1987, machine-readable file, special tabulation by Hawaii State Data Center.

Table 421.-- INCOME OF HOUSEHOLDS, FAMILIES, AND PERSONS IN 1979: 1980

[Income received in 1979 by households, families, and persons surveyed in 1980]

Income	The State	Oahu	Other islands
Households .....	294,934	230,931	64,003
Less than \$5,000 .....	24,433	17,631	6,802
\$5,000 to \$7,499 .....	18,775	13,771	5,004
\$7,500 to \$9,999 .....	21,209	16,663	4,546
\$10,000 to \$14,999 .....	41,604	32,320	9,284
\$15,000 to \$19,999 .....	37,836	28,833	9,003
\$20,000 to \$24,999 .....	34,842	26,768	8,074
\$25,000 to \$34,999 .....	52,585	41,728	10,857
\$35,000 to \$49,999 .....	39,955	33,443	6,512
\$50,000 or more .....	23,695	19,774	3,921
Median .....	\$20,473	\$21,077	\$18,457
Mean .....	\$24,519	\$25,180	\$22,132
Families .....	227,974	178,516	49,458
Less than \$5,000 .....	11,533	8,603	2,930
\$5,000 to \$7,499 .....	12,195	8,920	3,275
\$7,500 to \$9,999 .....	15,068	11,817	3,251
\$10,000 to \$14,999 .....	29,796	22,815	6,981
\$15,000 to \$19,999 .....	28,957	21,572	7,385
\$20,000 to \$24,999 .....	28,013	21,234	6,779
\$25,000 to \$34,999 .....	45,089	35,482	9,607
\$35,000 to \$49,999 .....	36,236	30,450	5,786
\$50,000 or more .....	21,087	17,623	3,464
Median .....	\$22,750	\$23,554	\$20,600
Mean .....	\$26,629	\$27,318	\$24,139
Unrelated individuals 15 years and over .....	136,692	112,303	24,389
Less than \$2,000 .....	17,492	13,797	3,695
\$2,000 to \$2,999 .....	7,698	5,713	1,985
\$3,000 to \$4,999 .....	16,598	12,795	3,803
\$5,000 to \$7,999 .....	34,234	29,848	4,386
\$8,000 to \$9,999 .....	13,112	11,007	2,105
\$10,000 to \$14,999 .....	21,340	17,209	4,131
\$15,000 to \$24,999 .....	18,037	14,972	3,065
\$25,000 to \$49,999 .....	6,841	5,866	975
\$50,000 or more .....	1,340	1,096	244
Median .....	\$7,097	\$7,167	\$6,735
Mean .....	\$9,947	\$10,061	\$9,423

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 71.

Table 422.-- INCOME OF HOUSEHOLDS AND FAMILIES: ANNUAL AVERAGES,  
1981 TO 1983 AND 1984 TO 1986

[Data refer to income before taxes, as reported in March survey in following year. Based on a pooled sample of 1,772 households for 1981-1983 and 1,530 households for 1984-1986]

Income	Households		Families	
	1981-1983	1984-1986	1981-1983	1984-1986
Total .....	321,417	339,558	241,554	257,481
Under \$5,000 .....	25,765	17,409	11,729	6,319
\$5,000 to \$7,499 .....	15,193	15,834	9,131	8,108
\$7,500 to \$9,999 .....	19,446	14,341	10,409	7,665
\$10,000 to \$14,999 .....	39,960	30,908	28,659	20,464
\$15,000 to \$19,999 .....	32,759	39,603	19,620	25,726
\$20,000 to \$24,999 .....	30,434	29,889	22,944	23,906
\$25,000 to \$34,999 .....	64,242	53,526	55,693	44,107
\$35,000 to \$49,999 .....	57,267	62,575	51,510	53,894
\$50,000 to \$74,999 .....	31,489	51,678	27,649	46,227
\$75,000 and over .....	4,862	23,794	4,210	21,065
Median income (dollars)	24,540	28,948	28,307	33,274

Source: U.S. Bureau of the Census for U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1982 to 1987; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 423.-- INCOME AND POVERTY STATUS IN PREVIOUS YEAR: 1970 AND 1980

Subject	1970	1980	Percent	
			1970	1980
INCOME IN PREVIOUS YEAR				
Households .....	204,415	294,934	...	...
Median income (current dollars) .....	\$10,675	\$20,473	...	...
Median income (1979 dollars) .....	\$21,137	\$20,473	...	...
Families .....	170,729	227,974	...	...
Median income (current dollars) .....	\$11,664	\$22,750	...	...
Median income (1979 dollars) .....	\$23,095	\$22,750	...	...
Unrelated individuals 15 years and over .	83,093	136,692	...	...
Median income (current dollars) .....	\$2,981	\$7,097	...	...
Median income (1979 dollars) .....	\$5,902	\$7,097	...	...
Male, 15 years and over <u>1/</u> .....	289,165	378,942	100.0	100.0
Without income .....	29,578	29,106	10.2	7.7
With income .....	259,587	349,836	89.8	92.3
Median income (current dollars) .....	\$6,528	\$11,505	...	...
Median income (1979 dollars) .....	\$12,925	\$11,505	...	...
Female, 15 years and over <u>1/</u> .....	264,590	360,707	100.0	100.0
Without income .....	94,729	78,115	35.8	21.7
With income .....	169,861	282,592	64.2	78.3
Median income (current dollars) .....	\$3,222	\$6,581	...	...
Median income (1979 dollars) .....	\$6,380	\$6,681	...	...
INCOME IN PREVIOUS YEAR BELOW POVERTY LEVEL <u>2/</u>				
Persons .....	68,364	91,618	9.3	9.9
65 years and over .....	8,457	7,654	19.9	10.5
In families .....	51,530	66,843	7.6	8.2
Householder .....	13,063	17,700	7.7	7.8
Female householder, no husband present ...	5,180	7,985	32.4	28.0
Related child under 18 years .....	27,895	35,103	10.3	13.0
Related child under 6 years .....	10,129	14,725	11.9	16.3
Other relatives .....	10,572	14,040	4.5	4.4
Unrelated individuals .....	16,834	24,775	30.3	23.0
65 years and over .....	4,561	4,927	50.1	31.7

1/ 14 years and over in 1970.

2/ Percent columns show percent below poverty level for specified groups. 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.

Table 424.-- INCOME AND POVERTY STATUS IN 1979,  
BY COUNTIES AND ISLANDS: 1980

[Income and poverty status in 1979 of households, families and persons surveyed in 1980]

County and island	Median income in 1979 (dollars)		Per capita income in 1979 (dollars)	Income in 1979 below poverty level <u>1/</u>	
	Households	Families		Percent of persons for whom poverty status is determined	Percent of families
The State ..	20,473	22,750	7,740	9.9	7.8
Counties:					
Hawaii .....	16,975	19,132	6,554	13.2	10.3
Maui .....	20,237	22,579	7,818	9.6	7.6
Kalawao .....	5,750	11,667	6,838	31.9	13.3
Honolulu .....	21,077	23,554	7,912	9.5	7.5
Kauai .....	19,066	20,882	7,022	8.9	6.9
Islands:					
Hawaii .....	16,975	19,132	6,554	13.2	10.3
Maui .....	20,732	24,136	8,115	8.8	7.2
Lanai .....	18,597	21,667	6,472	10.6	2.3
Molokai .....	14,530	16,440	5,206	21.6	12.8
Oahu <u>2/</u> .....	21,077	23,554	7,912	9.5	7.5
Kauai .....	19,154	20,989	7,057	8.3	6.4
Niihau .....	4,922	4,922	1,081	81.2	84.2

1/ Based on Mainland poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the percent of persons and families below poverty level in Hawaii.

2/ Includes the Northwestern Hawaiian Islands.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 57, and 1980 Census of Population and Housing, Census Tracts, Hawaii, Selected Areas, PHC80-2-13 (June 1983), table P-11. Island data for Maui, Molokai, and Kauai calculated by Hawaii State Data Center.



Table 425.-- 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 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 426.-- POVERTY STATUS OF FAMILIES AND UNRELATED INDIVIDUALS:  
1969 TO 1986

[Based on censuses or surveys made in March or April of following year]

Year	Families			Unrelated individuals <u>2/</u>		
	Total	Below poverty level <u>1/</u>		Total	Below poverty level <u>1/</u>	
		Number	Percent		Number	Percent
1969 ..	170,729	13,046	7.6	55,588	16,833	30.3
1975 ..	201,000	13,000	6.4	66,000	14,000	21.6
1979 ..	227,974	17,700	7.8	107,787	24,775	23.0
1985 ..	253,914	18,776	7.4	117,639	27,243	23.2
1986 ..	264,689	23,419	8.8	122,419	31,828	26.0

1/ 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 families and unrelated individuals below poverty level in Hawaii.

2/ 14 years old and over through 1975, and 15 years old and over thereafter. Data for 1975, 1985, and 1986 exclude persons in military group quarters.

Source: U.S. Bureau of the Census, 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 58; "Money Income and Poverty Status in 1975 of Families and Persons in the United States and West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 179-180; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 72; Current Population Survey (March), 1986 and 1987, machine-readable file, special tabulation by Hawaii State Data Center.

Table 427.-- POVERTY INCOME GUIDELINES: 1980, 1986 AND 1987

[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. In earlier years, these guidelines were issued by the Community Services Administration]

Size of family unit	Effective April 21, 1980 <u>1/</u>	Effective Feb. 11, 1986 <u>2/</u>	Effective Feb. 20, 1987 <u>2/</u>
1 .....	4,370	6,170	6,310
2 .....	5,770	8,330	8,500
3 .....	7,170	10,490	10,690
4 .....	8,570	12,650	<u>3/</u> 12,880
5 .....	9,970	14,810	15,070
6 .....	11,370	16,970	17,260
7 .....	12,770	19,130	19,450
8 .....	14,170	21,290	<u>4/</u> 21,640

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 \$11,200 on the Mainland and \$14,000 in Alaska.

4/ For larger families, add \$2,190 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, "Poverty Income Guidelines; Annual Revision," Federal Register, Vol. 51, No. 28 (February 11, 1986), pp. 5105-5106, and "Annual Update of the Poverty Income Guidelines," Federal Register, Vol. 52, No. 34 (February 20, 1987), pp. 5340-5341.

Table 428.-- ANNUAL INCOME AND EXPENDITURES OF URBAN CONSUMER UNITS,  
FOR OAHU: 1980-81 AND 1982-83

[Data based on 792 sample interviews in 1980-81 and 928 in 1982-83.  
For detailed breakdowns, see source]

Item	Annual averages (dollars)	
	1980-81	1982-83
Total expenditures .....	18,584	22,247
Food at home .....	2,681	2,838
Food away from home .....	887	1,265
Alcoholic beverages .....	302	460
Housing .....	5,454	6,122
Shelter .....	3,523	3,948
Utilities, fuels, and public services .....	937	1,142
Household operations .....	369	280
Housefurnishings and equipment .....	626	751
Apparel .....	773	1,080
Transportation .....	3,729	4,051
Health care .....	731	770
Entertainment .....	804	1,101
Personal care .....	153	232
Reading .....	119	159
Education .....	265	380
Tobacco and smoking supplies .....	143	177
Miscellaneous .....	258	482
Cash contributions .....	504	923
Personal insurance and pensions .....	1,779	2,204
Money income before taxes .....	22,926	27,937
Personal taxes .....	2,915	3,595
Other money receipts .....	123	227
Mortgage principal paid on owned property .....	440	635
Gifts of goods and services .....	498	690

Source: U.S. Bureau of Labor Statistics, Consumer Expenditure Survey: Interview, 1984, Bulletin 2267 (August 1986), pp. 67-70 and 83-86.

Table 429.-- TOP WEALTHHOLDERS: 1962 TO 1982

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts, rising from \$60,000 in 1962 to \$300,000 in 1982. All figures are estimates based on estate tax return samples]

Group and year	Number of top wealthholders	Millions of dollars		
		Total assets	Debts and mortgages	Net worth
Gross estate over \$60,000:				
1962 .....	11,323	1,908	231	1,677
1969 .....	36,470	6,327	1,090	5,236
1972 .....	53,700	7,866	1,369	6,497
Gross estate over \$120,000:				
1976 .....	39,000	7,436	1,546	5,890
Gross estate over \$300,000:				
1982 .....	14,200	8,815	4,471	4,344
Gross estate over \$500,000:				
1982 .....	5,700	5,891	4,005	1,887

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, and Winter 1984-85, pp. 1-17.

Table 430.-- CHARACTERISTICS OF TOP WEALTHHOLDERS: 1982

[Top wealthholders are defined as persons with gross assets of \$300,000 or more. All figures in this table are estimates based on estate tax return samples]

Subject	Number of persons	Amount (millions of dollars)
GROSS ASSETS OF \$300,000 OR MORE		
Total assets, all persons in group .....	14,200	8,815
Debts and mortgages .....	13,100	4,471
Net worth .....	14,200	4,344
Men .....	11,200	2,421
Women .....	2,900	1,923
GROSS ASSETS OF \$500,000 OR MORE		
Total assets, all persons in group .....	5,700	5,891
Debts and mortgages .....	5,500	4,005
Net worth .....	5,700	1,887
Selected assets:		
Cash .....	5,700	313
Corporate stock .....	2,800	328
Bonds .....	1,100	138
Real estate .....	5,200	3,363
Noncorporate business assets .....	1,700	278
NET WORTH OF \$1,000,000 OR MORE		
Net worth, all persons in group (millionaires) .	800	1,663

Source: U.S. Internal Revenue Service, "Preliminary Estimates of Personal Wealth, 1982: Composition of Assets," SOI Bulletin, Winter 1984-85, pp. 1-17.

Table 431.-- WORTH OF RICHEST RESIDENTS: 1986 AND 1987

Name	Age (years)	Worth (million dollars)
1986		
Barbara Cox Anthony .....	63	1,100
Harry Weinberg <u>1/</u> .....	78	725
Campbell family .....	...	400
Kelley family .....	...	330
Richard Palmer Kaleioku Smart .....	73	225
Alfred Dreyfus Goldman <u>2/</u> .....	48	200
Monte Henry Goldman <u>2/</u> .....	51	200
1987		
Barbara Cox Anthony .....	64	1,800
Harry Weinberg <u>1/</u> .....	79	800
Campbell family .....	...	600
Goldman family <u>3/</u> .....	...	400
Kelley family .....	...	350
Richard Palmer Kaleioku Smart .....	74	275

1/ Also maintains residence in Baltimore.

2/ Also maintains residence in Oklahoma City.

3/ Also residents of Colorado.

Source: "The 400 Richest People in America," Forbes, October 27, 1986, pp. 106-312; "The 400 Richest People in America," Forbes, October 26, 1987, pp. 106-333.

## Section 14

# PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and comparisons of Honolulu living costs with those in other metropolitan areas. Other statistics on prices are reported in Sections 7, 16, 17, 18, 21, and 23.

During the first six months of 1987, the Honolulu all-items consumer price index for all urban consumers averaged 311.9, with the 1967 level equal to 100. The index had increased 4.1 percent over the first half of 1986, 16.6 percent since 1982, and 82.4 percent since 1977. Prices have risen most rapidly since 1967 for medical care (347.6 percent) and least rapidly for apparel commodities (97.2 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at \$31,893 as of the Autumn of 1981. This family budget was 26 percent higher than the corresponding urban United States average, and was first among the 25 American metropolitan areas surveyed. The "lower" budget was 33 percent above the national figure; the "higher" budget, 32 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An unofficial 1987 survey of 100 U.S. cities ranked Honolulu sixth in overall living costs, 14.5 percent above the median area.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in CPI Detailed Report, issued monthly by BLS.

Technical changes made in the consumer price index during the past decade have affected its coverage, treatment of specific expenditure categories, weights, base period, and frequency of publication. In 1978, the Bureau of Labor Statistics began calculation of a new index, the CPI-U, covering all urban consumers, in addition to the older index, the CPI-W, which was limited to urban wage earners and clerical workers and their families. 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 will be 1982-1984 instead of 1967.



Official comparisons of Honolulu and Mainland living costs are no longer being made. The annual four-person family budgets estimated by the Bureau of Labor Statistics for Honolulu and 39 (later 24) Mainland areas were discontinued after 1981. The annual comparison of prices in Hawaii and Washington, D.C., compiled by the U.S. Office of Personnel Management to provide a basis for cost of living adjustments for Federal employees, has not been published since 1983. The only current information on intercity differences is that provided by a private consultant firm, Runzheimer International. Annual surveys of food prices in Honolulu and other cities are regularly made by the Tampa Tribune.

No composite wholesale or producer price index, comparable to the all-items consumer 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 usually unavailable.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1987, Section 15. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 432.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1987

[1967 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 ...	284.8	282.3	287.3	291.3	287.8	294.7
1985 ...	294.1	292.6	295.7	301.4	300.0	302.8
1986 ...	301.1	299.7	302.5	308.2	306.9	309.4
1987 ...	...	311.9	...	...	319.2	...

Source: U.S. Bureau of Labor Statistics, printouts and press releases.

Table 433.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER,  
FOR HONOLULU: 1963 TO 1986

[1967 average = 100]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers: <sup>1/</sup>							
1978 .....	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979 .....	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980 .....	228.5	220.9	227.4	227.5	230.1	234.6	236.1
1981 .....	252.4	243.3	250.0	252.8	256.6	259.3	258.3
1982 .....	267.6	262.0	263.3	269.0	269.4	275.2	269.9
1983 .....	273.5	270.4	272.8	271.4	273.5	276.4	278.4
1984 .....	284.8	280.7	283.2	284.7	286.0	287.4	289.8
1985 .....	294.1	292.6	292.7	293.5	294.2	295.6	298.5
1986 .....	301.1	301.2	299.0	299.2	301.5	302.2	305.4
Urban wage earners and clerical workers:							
1963 .....	...		...	...			92.8
1964 .....	92.9	<sup>2/</sup> 93.2		92.4	<sup>3/</sup> 92.9	92.9	93.7
1965 .....	94.6	<sup>2/</sup> 94.2		94.1	<sup>3/</sup> 94.7	94.7	96.2
1966 .....	97.3	<sup>2/</sup> 96.6		96.8	<sup>3/</sup> 97.9	97.9	98.8
1967 .....	100.0	<sup>2/</sup> 98.9		99.7	<sup>3/</sup> 100.6	100.6	101.8
1968 .....	103.8	<sup>2/</sup> 102.8		103.4	<sup>3/</sup> 104.6	104.6	105.7
1969 .....	108.5	<sup>2/</sup> 107.2		108.2	<sup>3/</sup> 109.6	109.6	111.0
1970 .....	114.2	<sup>2/</sup> 113.2		114.4	<sup>3/</sup> 114.9	114.9	115.7
1971 .....	118.9	<sup>2/</sup> 116.7		118.5	<sup>3/</sup> 121.2	121.2	121.1
1972 .....	122.8	<sup>2/</sup> 122.4		122.2	<sup>3/</sup> 123.1	123.1	124.4
1973 .....	128.3	<sup>2/</sup> 126.0		127.5	<sup>3/</sup> 129.6	129.6	132.8
1974 .....	141.9	<sup>2/</sup> 137.7		141.2	<sup>3/</sup> 145.5	145.5	148.5
1975 .....	155.0	<sup>2/</sup> 151.9		154.3	<sup>3/</sup> 157.6	157.6	159.8
1976 .....	162.8	<sup>2/</sup> 161.1		162.3	<sup>3/</sup> 164.0	164.0	165.5
1977 .....	171.0	<sup>2/</sup> 168.3		170.5	<sup>3/</sup> 173.4	173.4	174.9
1978 .....	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979 .....	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980 .....	228.7	221.3	228.4	228.0	229.5	233.5	237.0
1981 .....	252.8	243.5	250.2	253.8	256.6	259.1	259.3
1982 .....	268.1	263.0	264.2	268.9	269.5	274.7	271.0
1983 .....	278.8	274.8	276.9	273.4	278.2	285.9	288.2
1984 .....	291.3	284.3	289.0	290.9	293.6	294.5	297.6
1985 .....	301.4	300.3	300.1	300.4	301.3	302.7	305.8
1986 .....	308.2	308.5	306.7	306.5	308.3	308.8	312.7

<sup>1/</sup> Not available before 1978.

<sup>2/</sup> March index.

<sup>3/</sup> September index.

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities and U.S. Average (monthly), as corrected.

Table 434.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1982 TO 1986

[Unless otherwise specified, 1967=100]

Group	1982	1983	1984	1985	1986
All items .....	267.6	273.5	284.8	294.1	301.1
Food and beverages .....	288.3	296.0	308.2	320.6	327.2
Food .....	298.8	306.7	319.7	332.2	339.0
Food at home .....	300.2	305.2	318.6	328.6	335.8
Cereals and bakery products .....	278.9	289.3	300.8	316.9	326.6
Meats, poultry, fish, and eggs ...	283.4	286.6	292.2	294.8	299.8
Meats, poultry, and fish .....	288.2	291.8	295.8	299.5	304.5
Dairy products .....	285.5	287.6	291.6	298.5	302.8
Fruits and vegetables .....	329.3	324.9	359.3	377.9	379.4
Other foods at home .....	344.5	358.4	376.6	392.0	407.4
Food away from home .....	299.7	314.1	327.9	340.9	349.6
Alcoholic beverages .....	200.0	206.0	210.5	222.7	228.3
Housing .....	255.0	257.5	268.2	275.8	282.2
Shelter .....	253.7	257.2	271.2	282.9	296.8
Renters' costs 1/ .....	(NA)	102.7	109.4	115.0	121.1
Rent, residential .....	240.7	253.0	269.0	281.9	297.3
Other renters' costs .....	338.5	382.9	414.4	446.5	463.7
Homeowners' costs 1/ .....	(NA)	100.6	105.9	110.4	115.7
Owners' equivalent rent 1/ .....	(NA)	100.6	105.8	110.4	115.8
Fuel and other utilities .....	352.3	339.9	347.0	337.9	303.4
Fuels .....	500.4	446.0	457.3	435.4	352.0
Gas (piped) and electricity .....	500.4	445.3	456.5	434.3	350.0
Electricity .....	(NA)	(NA)	452.4	428.2	340.3
Utility (piped) gas .....	(NA)	(NA)	451.4	448.2	400.9
Household furnishings and operation ..	210.4	216.7	219.0	221.9	225.6
Apparel and upkeep .....	201.5	207.7	205.1	203.9	204.4
Apparel commodities .....	195.5	200.9	197.1	195.1	194.8
Men's and boys' apparel .....	197.2	201.1	202.2	208.5	213.8
Women's and girls' apparel .....	183.7	186.9	185.8	190.6	189.2
Footwear .....	187.4	190.9	194.5	197.0	192.5
Transportation .....	255.6	253.7	265.7	270.9	271.7
Private transportation .....	260.1	258.7	272.3	277.6	277.9
Motor fuel 2/ .....	(NA)	(NA)	194.9	196.8	173.0
Gasoline 2/ .....	(NA)	(NA)	195.5	197.3	173.3
Public transportation .....	236.7	231.9	234.2	238.6	243.1
Medical care .....	324.3	357.6	379.7	400.6	432.8
Entertainment .....	246.7	257.6	268.9	288.4	291.8
Other goods and services .....	275.6	303.7	319.1	336.8	358.1
Personal care .....	276.4	284.9	283.5	292.2	302.2

Continued on next page.

Table 434.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1982 TO 1986 -- Con.

Group	1982	1983	1984	1985	1986
All items .....	267.6	273.5	284.8	294.1	301.1
Commodities .....	257.0	263.8	272.2	279.3	280.7
Food and beverages .....	288.3	296.0	308.2	320.6	327.2
Commodities less food and beverages ..	231.8	237.8	243.6	247.3	245.2
Nondurables less food and beverages	263.0	270.8	275.1	281.2	276.3
Durables .....	200.7	205.7	213.7	214.3	216.0
Services .....	284.9	289.5	304.2	316.0	329.0
Medical care services .....	338.7	375.1	398.2	418.8	452.7
Special indexes:					
All items less shelter .....	269.4	276.4	286.5	294.8	298.8
All items less medical care .....	263.9	268.5	279.2	288.0	293.7
All items less energy <u>3/</u> .....	148.7	153.2	159.9	166.0	172.5
Energy <u>2/</u> .....	207.8	192.3	196.5	193.1	163.7
Commodities less food .....	229.6	235.6	241.3	245.4	243.7
Nondurables less food .....	255.3	262.9	267.2	273.7	269.7
Nondurables .....	278.9	286.7	295.3	304.8	306.0
Services less rent of shelter <u>1/</u> .....	(NA)	101.3	105.8	109.2	112.6
Services less medical care .....	274.6	276.3	290.0	300.8	311.8

NA Not available.

1/ December 1982=100.

2/ June 1978=100.

3/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January issues, 1983 to 1987.

Table 435.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1982 TO 1986

[Unless otherwise specified, 1967=100]

Group	1982	1983	1984	1985	1986
All items .....	268.1	278.8	291.3	301.4	308.2
Food and beverages .....	292.4	300.3	313.2	326.9	334.6
Food .....	303.7	311.8	325.5	339.5	347.6
Food at home .....	306.6	312.4	326.6	338.5	346.9
Cereals and bakery products .....	273.7	281.7	292.5	307.4	315.7
Meats, poultry, fish, and eggs ...	298.5	302.7	311.6	320.1	327.5
Meats, poultry, and fish .....	304.4	309.1	316.7	326.5	334.2
Dairy products .....	285.6	287.8	291.6	298.3	302.5
Fruits and vegetables .....	330.2	327.5	360.8	377.3	381.2
Other foods at home .....	352.1	366.5	385.3	401.3	416.9
Food away from home .....	298.9	313.5	327.9	341.0	350.3
Alcoholic beverages .....	195.3	201.7	206.4	218.2	223.8
Housing .....	251.9	265.8	278.5	288.2	294.6
Shelter .....	246.8	266.1	282.9	297.8	312.3
Renters' costs <u>1</u> / .....	(NA)	(NA)	(NA)	102.8	108.2
Rent, residential .....	240.7	253.0	269.0	281.9	297.3
Other renters' costs .....	343.5	391.4	425.4	459.8	475.0
Homeowners' costs <u>1</u> / .....	(NA)	(NA)	(NA)	103.3	108.4
Owners' equivalent rent <u>1</u> / .....	(NA)	(NA)	(NA)	103.3	108.4
Fuel and other utilities .....	352.2	340.1	347.0	337.9	303.4
Fuels .....	499.0	445.5	456.4	434.8	351.8
Gas (piped) and electricity .....	498.8	444.9	455.7	433.9	350.4
Electricity .....	(NA)	(NA)	452.4	428.1	340.3
Utility (piped) gas .....	(NA)	(NA)	451.5	448.3	401.1
Household furnishings and operation ..	219.6	226.8	228.1	232.5	237.4
Apparel and upkeep .....	208.1	214.6	212.3	210.5	211.9
Apparel commodities .....	201.9	207.5	203.9	201.2	201.8
Men's and boys' apparel .....	198.0	201.4	203.1	210.7	216.1
Women's and girls' apparel .....	159.4	162.1	162.0	165.9	166.1
Footwear .....	172.8	175.8	179.0	181.1	177.3
Transportation .....	255.8	253.3	265.3	270.2	270.2
Private transportation .....	261.7	259.4	272.8	277.8	277.2
Motor fuel <u>2</u> / .....	(NA)	(NA)	194.0	195.9	172.2
Gasoline <u>2</u> / .....	(NA)	(NA)	194.6	196.4	172.5
Public transportation .....	237.5	232.7	234.9	239.3	243.6
Medical care .....	332.5	365.2	386.3	406.7	437.6
Entertainment .....	257.7	270.0	282.5	302.3	305.5
Other goods and services .....	269.7	299.4	313.8	331.0	350.5
Personal care .....	261.3	269.5	268.5	277.0	286.3

Continued on next page.

Table 435.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1982 TO 1986 -- Con.

Group	1982	1983	1984	1985	1986
All items .....	268.1	278.8	291.3	301.4	308.2
Commodities .....	259.5	267.0	276.4	284.7	286.4
Food and beverages .....	292.4	300.3	313.2	326.9	334.6
Commodities less food and beverages ..	233.3	240.3	247.6	253.4	251.1
Nondurables less food and beverages	269.8	277.3	282.3	288.4	282.6
Durables .....	197.9	204.3	212.8	217.7	220.1
Services .....	283.0	299.0	316.3	328.8	342.1
Medical care services .....	350.0	385.9	407.8	428.0	460.3
Special indexes:					
All items less shelter .....	273.7	280.5	290.8	299.4	303.5
All items less medical care .....	264.0	273.8	285.8	295.4	301.0
All items less energy <sup>3/</sup> .....	148.5	156.0	163.4	170.0	176.7
Energy <sup>2/</sup> .....	205.5	191.1	195.0	192.3	163.7
Commodities less food .....	230.8	237.8	245.0	251.1	249.1
Nondurables less food .....	260.9	268.3	273.2	279.7	275.0
Nondurables .....	284.1	291.9	301.2	311.5	313.1
Services less rent of shelter <sup>1/</sup> .....	(NA)	(NA)	(NA)	101.0	104.1
Services less medical care .....	271.5	285.3	301.8	313.4	324.7

NA Not available.

<sup>1/</sup> December 1984=100.

<sup>2/</sup> June 1978=100.

<sup>3/</sup> December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January issues, 1983 to 1987.

Table 436.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER  
PRICE INDEX FOR HONOLULU: DECEMBER 1986

[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 .....	21.261	22.576
Food .....	19.775	20.817
Food at home .....	12.579	12.804
Cereals and bakery products .....	1.605	1.841
Meats, poultry, fish, and eggs .....	4.089	4.424
Meats, poultry, and fish .....	3.822	4.086
Dairy products .....	1.091	1.030
Fruits and vegetables .....	2.788	2.681
Other foods at home .....	3.005	2.827
Food away from home .....	7.196	8.014
Alcoholic beverages .....	1.486	1.759
Housing .....	41.140	38.542
Shelter .....	30.070	27.814
Renters' costs .....	9.066	9.195
Rent, residential .....	7.830	8.343
Other renters' costs .....	1.236	.852
Homeowners' costs .....	20.777	18.413
Owners' equivalent rent .....	20.510	18.224
Fuel and other utilities .....	4.609	4.919
Fuels .....	2.130	2.257
Fuel oil, coal, and bottled gas .....	.020	.024
Fuel oil .....	.001	.004
Other fuels .....	.019	.021
Gas (piped) and electricity .....	2.110	2.232
Electricity .....	1.914	1.949
Utility (piped) gas .....	.196	.283
Household furnishings and operations .....	6.462	5.809
Apparel and upkeep .....	5.817	6.117
Apparel commodities .....	5.485	5.762
Men's and boys' .....	1.459	1.603
Women's and girls' .....	2.439	2.522
Footwear .....	.802	.888

Continued on next page.

Table 436.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER  
PRICE INDEX FOR HONOLULU: DECEMBER 1986 -- Con.

Group	CPI-U <u>1/</u>	CPI-W <u>2/</u>
EXPENDITURE CATEGORY -- Con.		
Transportation .....	16.379	18.400
Private .....	14.327	16.821
Motor fuel .....	2.779	3.390
Public .....	2.052	1.579
Medical care .....	4.819	4.226
Entertainment .....	4.628	4.468
Other goods and services .....	5.956	5.671
Personal care .....	1.280	1.404
COMMODITY AND SERVICE GROUP		
All items .....	100.000	100.000
Commodities .....	44.746	48.519
Food and beverages .....	21.261	22.576
Commodities less food and beverages .....	23.485	25.942
Nondurables less food and beverages ....	14.470	15.721
Durables .....	9.015	10.221
Services .....	55.254	51.481
Medical care services .....	3.872	3.239
Special indexes:		
All items less shelter .....	69.930	72.186
All items less medical care .....	95.181	95.774
All items less energy .....	95.091	94.353
Energy .....	4.909	5.647
Commodities less food .....	24.971	27.701
Nondurables less food .....	15.956	17.480
Nondurables .....	35.731	38.297
Services less rent of shelter .....	25.695	24.081
Services less medical care .....	51.382	48.242

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 437.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND U.S. CITIES:  
JUNE 19, 1986 AND JUNE 4, 1987

[See headnote to following table]

Item	Honolulu price (dollars)		Honolulu as percent of U.S. average	
	1986	1987	1986	1987
Milk, homogenized, 1/2 gal. ....	1.39*	3.35	116	160
Eggs, Grade A, large, 1 doz. ....	1.19	1.29*	165	179
Cheese, sharp, 10 oz. ....	2.69	2.50*	121	111
Margarine, 1 lb. ....	0.59	0.59	97	107
Bread, white, 24 oz. loaf ....	1.35	1.67	193	235
Flour, 5 lbs. ....	1.09*	1.29*	102	116
Cereal, Special K, 12 oz. ....	2.79	3.05	137	139
Sugar, 5 lbs. ....	1.85	1.59*	116	99
Instant coffee, 8 oz. jar ....	6.63	4.59	129	124
Beans, dry, 1 lb. ....	0.99	0.97	174	173
Rice, 2 lbs. ....	2.03	2.39	107	120
Mayonnaise, 1 qt. ....	1.69*	2.05	97	127
Peanut butter, 18 oz. jar ....	1.99*	2.19	114	102
Tuna, 6 1/2 oz. can ....	0.65*	0.69*	97	103
Evaporated milk, 13 fluid oz. ....	0.55	(NA)	98	(NA)
Cling peach halves, 29 oz. can ....	1.49	1.59	137	134
Pineapple, 20 oz. can ....	0.95	1.03	104	116
Ice cream, 1/2 gal. ....	2.19*	2.00	143	123
Applesauce, 25 oz. jar ....	(NA)	1.51	(NA)	148
Tomato soup, 10 3/4 oz. can ....	(NA)	0.50*	(NA)	143
Orange juice concentrate, 1/ ..	0.65	1.19*	123	137
Broccoli spears, 10 oz. pkg. ....	0.99	1.19	146	178
Roast, boneless, 1 lb. 2/ ..	2.39	2.89	115	116
Sirloin steak, 1 lb. 3/ ..	2.89	5.98	109	169
Ground beef, 1 lb. ....	1.69	1.69	146	129
Pork loin chops, 1 lb. ....	3.09	2.99	130	105
Ham, boneless, 1 lb. ....	1.69	1.15*	135	36
Bacon, regular slice, 1 lb. ....	1.99*	2.29*	94	105
Wieners, skinless, all meat, 1 lb. ..	1.49*	2.19*	84	127
Chicken, whole, Grade A, 1 lb. ....	0.79	0.75	118	110
Potatoes, 5 lbs. ....	1.89	1.80	167	113
Yellow summer squash, 1 lb. ....	(NA)	1.39	(NA)	193
Carrots, 1 lb. ....	0.49	0.49	120	126
Cabbage, 1 lb. ....	0.29	0.33*	104	110
Lettuce, 1 head ....	0.69	0.86	115	141
Bananas, 1 lb. ....	0.69	0.59*	177	144
Tomatoes, 1 lb. ....	0.69	0.69*	103	86
Oranges, 5 lbs. ....	2.85	(NA)	131	(NA)
Tax on above items ....	2.29	2.53	-	-

Footnotes and source on next page.

Table 437.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND U.S. CITIES: JUNE 19, 1986 AND JUNE 4, 1987 -- Con.

\* Special sale price.

1/ 6 oz. can in 1986; 12 oz. can in 1987.

2/ Rump roast in 1986; sirloin tip roast in 1987.

3/ Bone in 1986; boneless in 1987.

Source: Honolulu Advertiser, July 29, 1986, p. B-1; Sunday Star-Bulletin and Advertiser, June 28, 1987, p. A-13, as corrected. Percentages calculated by DPEID.

Table 438.-- RETAIL FOOD PRICES, FOR HONOLULU AND MAINLAND CITIES: 1979 TO 1987

[June data for a "market basket" of 35 or more common food items surveyed in Honolulu and other U.S. cities. Data include sales taxes. This survey, organized by the Tampa Tribune, has included Honolulu since 1979]

Date of survey	Honolulu			All cities	
	Amount (dollars)	Rank	Percent of U.S. average 1/	Number surveyed	Average amount 1/ (dollars)
1979: June 14 .....	46.91	2	120.3	22	38.98
1980: June 19 .....	49.60	2	121.0	22	40.98
1981: June 11 .....	57.18	1	131.1	21	43.63
1982: June 3 .....	56.72	1	126.2	21	44.93
1983: June 2 .....	56.33	1	128.0	21	44.01
1984: May 31 .....	59.10	1	127.0	21	46.52
1985: June 20 .....	61.45	1	131.4	21	46.77
1986: June 19 .....	59.64	1	125.3	21	47.58
1987: June 4 .....	65.83	1	126.6	17	51.98

1/ Average prior to 1985 excluded Honolulu and Anchorage, both included in number surveyed.

Source: Honolulu Advertiser, July 4, 1979, pp. A-1 and A-6; July 9, 1980, pp. A-1 and A-4; July 3, 1981, pp. A-1 and A-3; June 23, 1982, p. B-1; June 24, 1983, p. D-1; June 19, 1984, p. D-1; July 22, 1985, p. D-1; July 29, 1986, p. B-1; June 25, 1987, p. A-1, as corrected.

Table 439.-- RETAIL FOOD PRICE INDEXES, FOR KAUAI:  
1985 AND 1987

[Totals for a "market basket" of common food items priced in Kauai, Honolulu and 20 Mainland cities, comparable to survey reported in table 437]

Date	Kauai index	
	Honolulu = 100	Mainland = 100
June 1985 .....	111	145
June 1987 .....	119	147

Source: Data from Kauai Office of Economic Development, reported in Honolulu Advertiser, August 21, 1985, p. A-7, and Sunday Star-Bulletin and Advertiser, August 30, 1987, p. B-4.

Table 440.-- COMPARATIVE ANNUAL LIVING COSTS IN HONOLULU AND  
OTHER URBAN AREAS: 1987

[For a four-person family with a standard of living requiring an income of \$50,000 in the median urban area among the 100 areas studied. Shown separately for the six costliest areas]

Rank	Urban area	Cost (dollars)	Index
1	New York City .....	62,940	125.9
2	San Jose .....	59,924	119.8
3	Santa Barbara .....	58,195	116.4
4	Boston .....	57,383	114.8
5	San Francisco .....	57,324	114.6
6	Honolulu .....	57,257	114.5
...	"Standard City, U.S.A." .....	50,000	100.0

Source: Study by Runzheimer International, Rochester, Wis, cited in Pacific Business News, June 29, 1987, p. 19.

Table 441.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1981

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Inter-mediate budget	Higher budget	Lower budget	Inter-mediate budget	Higher budget
Total budget <u>1/</u> .....	20,319	31,893	50,317	133	126	132
Total consumption .....	15,240	21,530	29,952	126	118	120
Food .....	6,108	7,626	9,708	134	131	132
At home .....	5,501	6,649	7,972	141	137	138
Away from home .....	607	977	1,736	93	100	110
Housing <u>2/</u> .....	4,022	6,493	10,200	143	117	121
Shelter <u>2/</u> .....	3,171	5,098	7,355	150	117	126
Renter costs <u>2/</u> .....	3,171	3,991	5,836	150	146	136
Homeowner costs <u>2/</u> .....	...	5,467	7,623	...	112	124
Housefurnishings and operations .....	851	1,395	2,499	121	116	110
Transportation <u>2/</u> .....	1,288	2,421	3,220	98	102	105
Automobile owners .....	1,827	2,421	3,220	105	97	105
Clothing .....	1,042	1,432	2,010	111	107	103
Personal care .....	448	590	834	118	116	116
Medical care <u>2/</u> .....	1,583	1,590	1,657	110	110	110
Other family consumption <u>2/</u> ...	749	1,378	2,323	116	115	118
Other items <u>2/</u> .....	716	1,137	1,966	115	111	114
Social security and disability payments .....	1,424	2,049	2,049	137	120	103
Personal income taxes .....	2,939	7,177	16,350	184	162	175

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked first in total budget costs at the higher and intermediate levels and second at the lower level (where Anchorage ranked first). For 1972-1980 estimates, see Data Book 1984, table 406.

2/ For details, see either the Data Book 1984, table 407, footnotes, or the original source.

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, 1982).

Table 442.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981

[For a retired husband, age 65 years or over and wife. Excludes personal income taxes]

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	In-terme-diate budg-et	High-er budg-et	Low-er budg-et	In-terme-diate budg-et	High-er budg-et
Total budget <sup>1/</sup> .....	8,665	12,157	17,576	120	119	117
Total family consumption .....	8,292	11,426	16,284	120	119	117
Food .....	3,003	3,890	4,962	138	134	136
At home .....	2,836	3,531	4,245	141	137	139
Away from home .....	167	359	717	95	109	123
Housing .....	2,587	3,827	5,985	109	113	113
Shelter .....	1,860	2,356	3,423	103	107	110
Renter costs .....	2,383	3,293	4,520	147	155	140
Homeowner costs .....	1,512	1,851	2,953	79	83	97
Housefurnishings, operations .	727	1,471	2,396	126	123	118
Transportation .....	782	1,293	2,001	141	121	102
Clothing .....	260	428	615	107	105	98
Personal care .....	222	323	473	112	111	112
Medical care .....	1,111	1,120	1,129	102	103	103
Other family consumption .....	327	545	1,119	119	119	124
Other items .....	373	731	1,292	120	119	116

<sup>1/</sup> Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at all three levels (Anchorage ranked first at all three levels).

Source: U.S. Department of Labor, Bureau of Labor Statistics, Three Budgets for a Retired Couple, Autumn 1981 (release, USDL: 82-266, July 30, 1982).

Table 443.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR  
 FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.:  
 1983

Allowance category <u>1/</u>	Oahu	Kauai	Maui County	Hawaii
INDEXES <u>2/</u>				
Local retail:				
Private housing .....	121.7	114.6	120.9	113.1
Federal housing .....	105.0	106.7	113.4	104.6
Commissary, PX:				
Private housing .....	111.8	113.1	...	...
Federal housing .....	95.1	105.1	...	...
ALLOWANCE RATES <u>3/</u>				
Local retail:				
Private housing .....	22.5	15.0	20.0	12.5
Federal housing .....	5.0	7.5	12.5	0
Commissary, PX:				
Private housing .....	12.5	12.5	...	...
Federal housing .....	0	5.0	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "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. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1983.

3/ Authorized allowance rate, expressed as a percentage differential, effective October 2, 1983.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances for Guam and the State of Hawaii and Post Differentials for Certain Pacific Islands," Federal Personnel Manual System, FPM Letter 591-47 (1983).

Table 444.-- COST OF RAISING A CHILD FROM BIRTH TO AGE 18: 1986

[In dollars. Moderate-cost level. Estimated for Western States]

Residence	Annual average	18-year total
Urban .....	5,700	102,595
Rural nonfarm .....	5,954	107,173

Source: U.S. Department of Agriculture, Family Economics Review, 1987, No. 2, pp. 30-31.

## 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 181 branches, eight savings and loan associations with 163 branches, three trust companies with six branches, and 66 industrial loan or small loan licensees with 204 branch offices in Hawaii as of December 31, 1986. Deposits in Island banks reached \$8.0 billion at the end of 1985, compared with \$2.7 billion in 1975. Assets of savings and loan associations stood at \$4.9 billion in December 1984, almost three times their 1975 level. There were 136 credit unions with combined assets of \$1.9 billion at the end of 1986.

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 1985 amounted to \$30 billion, more than twice the figure reported ten years earlier. For all 739 insurance companies doing business in the Islands, Hawaii premiums amounted to \$1.13 billion in 1985 and losses, claims, and benefits paid came to \$593 million. Fire losses in fiscal 1987 amounted to \$14 million. Persons covered by the four major prepaid health insurance plans as of December 31, 1986, numbered 720,000, with annual membership dues of \$479 million.

By mid-1986, more than 40,600 corporations and partnerships were registered to do business in Hawaii: 27,200 local ("domestic") corporations, 4,500 out-of-State ("foreign") corporations, and 8,900 partnerships. Business establishments with one or more employees in 1985 numbered 25,742; over half had fewer than five employees. During fiscal 1986, 3,010 new local corporations were formed. Business receipts of corporations in 1983 exceeded \$21 billion; business receipts of partnerships and proprietorships in the same year amounted to respectively \$1.7 billion and \$1.2 billion. Hawaii's largest corporation, Amfac, Inc., reported annual sales of \$1.96 billion. Business failures numbered 246 in 1985.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs (specifically its Financial Institutions, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, 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: 1987.



Table 445.-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES: 1979 TO 1986

[Excludes out-of-State branches of Hawaii-based institutions. As of December 31]

Year	Banks		Savings and loans associations		Trust companies		Industrial loan licensees	
	Firms	Branch of-fices	Asso-cia-tions	Branch of-fices	Firms	Branch of-fices	Firms	Branch of-fices
1979 .....	9	159	9	136	4	7	77	247
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
ISLANDS: 1986								
Hawaii .....	5	19	7	18	2	2	11	20
Maui .....	7	21	7	16	1	1	12	19
Lanai .....	1	1	2	2	-	-	-	-
Molokai .....	1	1	2	2	-	-	1	1
Oahu .....	8	126	8	114	3	3	62	156
Kauai .....	4	13	6	11	-	-	6	8
Niihau .....	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

Table 446.-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS,  
BY TYPES: 1976 TO 1986

[Assets and deposits as of December 31]

Year	Banks			
	Assets (\$1,000)	Deposits 1/ (\$1,000)	Debits to demand deposits (million dollars)	Clearings (million dollars)
1976 ....	3,353,783	2,996,415	44,909	27,173
1977 ....	3,609,198	3,232,769	50,493	30,438
1978 ....	4,236,593	3,709,174	58,265	34,104
1979 ....	4,898,049	4,362,971	72,493	39,746
1980 ....	5,412,104	4,792,209	84,337	42,720
1981 ....	6,210,547	5,433,332	90,281	43,334
1982 ....	6,736,172	6,020,395	89,384	42,812
1983 ....	7,378,726	6,584,371	89,147	43,852
1984 ....	8,145,831	7,183,928	91,806	43,628
1985 ....	(NA)	(NA)	95,843	44,697
1986 ....	(NA)	(NA)	108,555	46,296
Year	Savings and loan associations 2/		Trust company assets (\$1,000)	Industrial loan licensee assets (\$1,000)
	Assets (\$1,000)	Withdrawable shares 3/ (\$1,000)		
1976 ....	2,141,259	1,683,972	58,546	733,055
1977 ....	2,535,006	2,030,848	58,003	762,108
1978 ....	3,188,821	2,368,868	61,346	817,645
1979 ....	3,775,671	2,557,345	53,418	980,495
1980 ....	4,263,188	3,025,368	84,658	1,002,058
1981 ....	4,528,178	3,098,834	106,149	1,100,895
1982 ....	4,709,228	3,332,030	134,985	1,350,942
1983 ....	4,713,164	3,613,952	43,853	1,043,626
1984 ....	4,865,454	3,862,419	41,350	1,154,653
1985 ....	(NA)	(NA)	40,715	1,286,792
1986 ....	(NA)	(NA)	62,234	1,481,514

NA Not available.

1/ Includes foreign deposits beginning in 1981.

2/ Hawaii offices only.

3/ Includes NOW accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs,  
Division of Financial Institutions, Comparative Statements of Condition  
(semi-annual), monthly releases, and records.

Table 447.-- SELECTED FINANCIAL INSTITUTIONS STATISTICAL SUMMARY:  
1983 TO 1985

Subject	1983	1984	1985
Domestic deposit market shares: <u>1/</u>			
Total deposits (mil. dol.) .....	10,866	11,899	13,241
Percent .....	100.0	100.0	100.0
FDIC-insured commercial banks .....	57.5	59.1	60.1
FSLIC-insured savings institutions .....	32.5	31.5	29.4
Credit unions .....	9.9	9.4	10.5
Commercial banks: <u>2/</u>			
Assets (mil. dol.) .....	7,251	8,210	9,207
Deposits (mil. dol.) .....	6,261	7,033	7,959
Insured commercial banks: <u>2/</u>			
Assets (mil. dol.) .....	7,210	7,358	8,259
Gross loans .....	4,001	4,656	5,134
Commercial and industrial .....	1,157	1,252	1,354
Real estate .....	1,873	2,156	2,426
Deposits (mil. dol.) .....	6,253	7,033	7,959
Time and savings .....	4,948	5,689	6,439
FSLIC-insured savings institutions: <u>2/</u>			
Number .....	6	(NA)	6
Assets (mil. dol.) .....	3,298	(NA)	3,584
Mortgage loans outstanding (mil. dol.) .....	2,481	(NA)	2,646
Deposits (mil. dol.) .....	2,498	(NA)	2,748

NA Not available.

1/ As of December 31, except FSLIC-insured savings institutions, as of June 30 beginning 1984.

2/ As of December 31.

Source: Statistical Abstract of the United States (annual).

Table 448.-- CREDIT UNIONS: 1981 TO 1986

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1981 ....	152	826,741,896	741,883,222	398,913
1982 ....	147	936,381,493	841,538,942	414,891
1983 ....	144	1,085,367,118	983,903,868	422,240
1984 ....	142	1,237,993,756	1,113,377,400	424,459
1985 ....	137	1,535,426,151	1,390,984,301	425,973
1986 ....	136	1,906,350,845	1,742,031,717	443,015

Source: Hawaii Credit Union League, records.

Table 449.-- 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 in America 1959 (p. 27), Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), Shareownership 1975 (p. 19), Shareownership 1980 (p. 19), Shareownership 1981 (p. 21), Shareownership 1983 (p. 24), and Shareownership 1985 (p. 24).

Table 450.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1985

[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)
1970 ....	469	246,986	114,011	977,535
1971 ....	485	276,707	119,880	1,168,952
1972 ....	502	303,954	124,502	1,282,566
1973 ....	517	316,897	132,102	1,354,145
1974 ....	534	331,146	155,272	1,487,228
1975 ....	537	380,480	170,561	1,634,549
1976 ....	542	421,545	192,547	1,771,556
1977 ....	546	488,437	225,675	1,944,507
1978 ....	556	555,392	240,320	2,076,291
1979 ....	579	617,571	280,598	2,234,252
1980 ....	594	682,306	352,515	2,561,217
1981 ....	640	755,298	352,523	2,565,525
1982 ....	699	795,786	436,094	2,731,165
1983 ....	720	872,156	605,722	2,725,453
1984 ....	730	967,105	530,200	2,704,084
1985 ....	739	1,132,282	592,550	2,680,318

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 451.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1985

Year	Number of companies, <sup>1/</sup> Dec. 31	Insurance written <sup>2/</sup> (\$1,000)	Insurance in force, Dec. 31 (\$1,000)	Premiums (\$1,000)	Losses, claims, and benefits paid (\$1,000)
1970 ....	223	1,376,907	7,441,077	98,360	40,267
1971 ....	233	1,565,272	8,127,837	106,524	45,301
1972 ....	239	1,484,039	8,788,361	115,491	44,661
1973 ....	262	1,935,643	9,433,897	120,229	47,980
1974 ....	270	2,614,259	11,383,173	130,102	54,009
1975 ....	279	2,046,479	12,650,488	138,597	53,291
1976 ....	283	2,269,602	13,560,838	148,977	65,312
1977 ....	285	2,432,658	14,680,847	161,725	63,040
1978 ....	291	2,814,838	15,803,154	172,999	64,391
1979 ....	311	2,999,500	17,122,778	186,487	74,627
1980 ....	318	3,694,867	19,131,180	197,394	82,333
1981 ....	346	4,995,919	21,287,888	204,049	98,942
1982 ....	379	4,928,880	23,138,362	214,728	120,827
1983 ....	390	6,230,150	26,133,708	227,848	141,096
1984 ....	401	6,294,746	28,060,450	257,611	168,487
1985 ....	410	6,965,896	30,478,068	302,554	199,101

1/ Authorized in Hawaii, including fraternal benefit societies.

2/ Face value of insurance policies; includes insurance revived, increased, or transferred.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 452.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE:  
1985

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes .....	1,132,281,896	592,550,416
Life <sup>1/</sup> .....	299,451,844	198,096,411
Fraternal .....	3,101,843	1,004,188
Fire, marine, casualty, and miscell.:		
Accident and health .....	92,014,536	46,571,988
Fire .....	15,339,310	2,280,237
Allied lines <sup>2/</sup> .....	6,107,493	8,933,902
Homeowners multiple peril .....	52,101,707	20,147,826
Commercial multiple peril .....	51,452,822	16,608,719
Private passenger auto no-fault .....	47,465,329	29,355,925
Other private passenger auto liability .....	105,964,899	68,454,796
Commercial auto no-fault .....	4,461,405	3,693,693
Other commercial auto liability .....	31,098,497	25,850,378
Private passenger auto physical damage .....	81,553,804	35,582,374
Commercial auto physical damage .....	10,396,344	5,547,534
Workers' compensation .....	192,884,093	89,741,668
Other liability .....	51,578,575	22,705,874
Medical malpractice .....	11,567,552	3,378,009
Glass .....	183,333	33,775
Burglary and theft .....	1,193,670	56,752
Boiler and machinery .....	1,746,198	621,449
Fidelity and surety .....	14,420,793	1,359,660
Ocean marine .....	4,638,479	2,671,309
Inland marine .....	13,647,124	2,949,341
Earthquake .....	145,452	-
All other <sup>3/</sup> .....	15,872,509	5,842,687
Surplus lines .....	23,894,285	1,061,921

<sup>1/</sup> Excludes annuities and \$1,234,407 in premiums for insurance on nonresidents.

<sup>2/</sup> 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.

<sup>3/</sup> Aircraft (all risks); title, credit, mortgage guaranty; livestock; service fees, excess of loss.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1986, p. 8.

Table 453.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION  
OF HOME OFFICE: 1985

[Money amounts in millions of dollars. For insurance companies authorized  
to do business in Hawaii]

Subject	All companies	Domestic com- panies <u>1/</u>	Foreign com- panies <u>2/</u>	Alien com- panies <u>3/</u> (U.S. business only)
Number of companies, Dec. 31 .....	739	20	699	20
Financial condition, Dec. 31:				
Assets .....	978,298.3	852.2	959,140.1	18,306.0
Liabilities exc. capital and surplus .....	875,288.2	698.1	857,370.3	17,219.8
Policyholder's surplus inc. capital .....	103,010.1	154.1	101,769.8	1,086.2
Capital .....	3,449.0	20.7	3,402.3	26.1
Net gain or loss .....	-10,763.3	-34.9	-10,283.3	-445.1
Hawaii business:				
Direct premiums written .....	1,271.5	384.8	854.3	32.3
Claims and benefits paid .....	680.0	197.4	454.8	27.8
Investments in Hawaii, Dec. 31 <u>4/</u> ...	2,680.3	204.6	2,444.5	31.2
Mortgage loans (principal indebtedness) .....	1,106.0	102.8	982.9	20.3
Collateral loans (amount lent) ....	2.0	2.0	-	-
State and county bonds <u>5/</u> .....	299.9	15.8	284.1	-
Utilities stocks and bonds <u>5/</u> .....	261.9	22.9	229.6	9.4
Industrial and misc. stocks and bonds <u>5/</u> .....	821.3	55.1	765.0	1.3
Real estate <u>5/</u> .....	189.2	6.0	183.0	0.2
Balances in Hawaii banks .....	18.8	16.4	2.4	(Z)

Z Less than \$50,000.

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, 1986, pp. 12, 14, 16, 17, 38, and 39.



Table 454.-- PREPAID HEALTH PLANS: 1983 TO 1986

Subject	1983	1984	1985	1986
BestCare: <u>1/</u>				
Members covered, Dec. 31 <u>2/</u> .....	...	...	...	203
Premium revenue <u>3/</u> .....	...	...	...	49
Hawaii Medical Service Association:				
Persons covered, Dec. 31 <u>2/</u> .....	535,303	548,015	567,210	567,287
Membership dues <u>3/</u> (\$1,000) .....	275,030	290,855	330,045	378,387
Island Care:				
Persons covered, Dec. 31 <u>2/</u> .....	7,610	9,418	13,526	14,924
Membership dues <u>3/</u> (\$1,000) .....	3,659	5,565	8,233	10,193
Kaiser Foundation Health Plan:				
Persons covered-- <u>2/</u>				
Annual average .....	127,359	135,077	137,359	136,608
Dec. 31 .....	131,304	137,683	138,051	137,146
Membership dues <u>3/</u> (\$1,000) .....	60,146	72,281	81,759	90,287
Commercial carrier premiums for accident and health insurance (\$1,000) .....	80,413	89,035	92,015	(NA)

NA Not available.

1/ Enrollment began August 1986.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Includes both employers' and employees' contributions.

Source: Data provided by BestCare, Hawaii Medical Service Association, Island Care, and Kaiser Foundation Health Plan, Inc.; Report of the Insurance Commissioner (annual).

Table 455.-- MAJOR FIRES, FOR OAHU: 1877 TO 1986

Fire	Date	Fire deaths	Property loss (\$1,000)
Esplanade .....	Dec. 18, 1877 .....	-	259
Chinatown .....	April 18, 1886 .....	-	1,455
Chinatown .....	Jan. 20, 1900 .....	-	<u>1/</u> 3,175
City of Honolulu, Pier 8 .....	May 25, 1930 .....	-	2,000
Pearl Harbor attack .....	Dec. 7, 1941 .....	(NA)	<u>2/</u> 500
Kalihi air crash .....	June 8, 1944 .....	<u>3/</u> 10	(NA)
Enchanted Lakes residence .....	July 24, 1961 .....	5	26
Chevron and Shell, Pier 30 ...	Aug. 15, 1980 .....	2	3,000

NA Not available.

1/ Claims total. Awards amounted to \$1,473,000.

2/ Private property only.

3/ On ground only. The air collision itself killed 4.

Source: Pacific Commercial Advertiser, December 22, 1877, p. 2; H. A. Smith, "The Honolulu Fire Department," Hawaiian Annual for 1932, pp. 49-55; Honolulu Star-Bulletin, May 26, 1930 (p. 1), June 23, 1930 (p. 1), and June 9, 1944 (p. 1); Gwenfread Allen, Hawaii's War Years 1941-1945 (1950), pp. 6-7; Honolulu Advertiser, July 25, 1961, p. A-2; Annual Report, 1980-1981, Fire Department, City & County of Honolulu, p. 5.

Table 456.-- FIRE ALARMS, DEATHS, AND LOSSES: 1983 TO 1987

[State totals for years ended June 30]

Subject	1983	1984	1985	1986	1987
Fire alarms .....	9,171	8,656	8,586	8,021	7,890
Fires .....	6,964	6,716	6,511	6,030	6,008
False alarms .....	994	946	1,128	1,016	884
Needless alarms <u>1/</u> .	1,213	994	947	975	998
Fire deaths .....	13	12	4	<u>2/</u> 8	5
Fire losses (\$1,000) .	14,519	16,856	16,509	(NA)	13,768

Footnotes and source follow next table.

Table 457.-- FIRE ALARMS, DEATHS, AND LOSSES, BY COUNTIES:  
1986 AND 1987

[Years ended June 30]

Subject	State total	Hono- lulu	Hawaii	Kauai	Maui
1986					
Fire alarms .....	8,021	5,885	883	601	652
Fires .....	6,030	4,367	630	519	514
False alarms .....	1,016	818	63	66	69
Needless alarms <u>1/</u> ..	975	700	190	16	69
Fire deaths .....	2/ 8	2/ 7	1	-	-
Fire losses (\$1,000) ..	(NA)	9,172	2,757	581	(NA)
1987					
Fire alarms .....	7,890	6,244	815	251	580
Fires .....	6,008	4,835	558	177	438
False alarms .....	884	701	66	41	76
Needless alarms <u>1/</u> ..	998	708	191	33	66
Fire deaths .....	5	0	1	0	4
Fire losses (\$1,000) ..	13,768	9,582	2,599	344	1,243

NA Not available.

1/ Non-fire incidents, such as smoke scares or overheated food.

2/ Includes 2 possible homicides.

Source: Data from National Fire Information Reporting System (NFIRS) supplied by Honolulu Fire Department, October 7, 1987.

Table 458.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1975 TO 1985

[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
1975 .....	252,254	543,590	2,274,957	17,095	9,041	3,317
1976 .....	252,252	577,390	2,412,122	17,271	9,135	3,359
1977 .....	263,079	630,090	2,637,726	18,660	9,942	3,741
1978 .....	282,256	699,638	2,966,228	19,222	9,849	3,991
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 .....	327,336	1,251,456	5,223,950	25,742	14,058	5,261
Number of establishments by employment-size class -- Con.						
Year	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
1975 .....	2,305	1,546	565	226	56	39
1976 .....	2,332	1,544	566	248	49	38
1977 .....	2,397	1,642	589	257	52	40
1978 .....	2,695	1,721	602	264	57	43
1979 .....	2,866	1,864	653	281	54	50
1980 .....	2,868	1,906	666	311	55	45
1981 .....	2,973	1,905	663	309	63	45
1982 .....	2,921	2,005	648	296	56	42
1983 .....	3,093	2,001	667	305	51	43
1984 .....	3,167	1,990	709	313	52	49
1985 .....	3,181	2,084	734	314	58	52

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 459.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES:  
1984 AND 1985

[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
1984				
State total .....	25,093	318,635	1,192,430	4,824,535
Hawaii .....	2,555	23,763	78,082	307,891
Honolulu .....	18,982	256,901	989,573	3,999,562
Kauai .....	1,146	11,631	38,136	157,264
Maui .....	2,406	26,324	86,518	359,493
Statewide .....	4	16	121	326
1985				
State total .....	25,742	327,336	1,251,456	5,223,950
Hawaii .....	2,657	24,023	79,366	324,379
Honolulu .....	19,340	262,794	1,035,488	4,312,605
Kauai .....	1,209	12,654	40,943	173,828
Maui .....	2,528	27,781	95,326	411,441
Statewide .....	8	84	333	1,697

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, 1985, Hawaii, CBP-85-13 (August 1987), p. 17.

Table 460.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS,  
BY MAJOR INDUSTRY GROUP: 1984 AND 1985

[Excludes government and self-employed workers]

Major industry group	Number of establishments <u>1/</u>	Number of employees <u>2/</u>	Annual payroll (\$1,000)
1984			
Total .....	25,093	318,635	4,824,535
Agricultural services, forestry, fisheries	231	1,857	21,041
Mining .....	16	192	4,902
Contract construction .....	1,674	17,438	402,872
Manufacturing <u>3/</u> .....	927	21,818	375,274
Food and kindred products .....	220	9,845	157,055
Apparel and other textile products .....	150	3,299	33,238
Transportation, other public utilities ...	1,058	29,993	653,615
Wholesale trade .....	1,766	18,002	346,545
Retail trade <u>3/</u> .....	6,473	87,167	909,357
Eating and drinking places .....	1,857	35,230	268,488
Finance, insurance, real estate .....	3,125	29,979	499,845
Services <u>3/</u> .....	7,869	106,179	1,541,103
Hotels and other lodging places .....	241	25,698	328,932
Health services .....	1,852	21,696	434,977
Nonclassifiable establishments .....	1,954	6,010	69,981
1985			
Total .....	25,742	327,336	5,223,950
Agricultural services, forestry, fisheries	225	1,697	20,521
Mining .....	14	186	5,317
Contract construction .....	1,703	17,022	451,539
Manufacturing <u>3/</u> .....	988	20,914	374,476
Food and kindred products .....	219	8,444	150,299
Apparel and other textile products .....	176	3,496	35,953
Transportation, other public utilities ...	1,088	30,447	676,649
Wholesale trade .....	1,827	18,281	364,839
Retail trade <u>3/</u> .....	6,704	92,080	1,024,922
Eating and drinking places .....	1,951	37,875	297,029
Finance, insurance, and real estate .....	3,152	29,939	539,699
Services <u>3/</u> .....	8,145	112,582	1,710,802
Hotels and other lodging places .....	250	28,765	370,342
Health services .....	1,921	21,361	465,064
Nonclassifiable establishments .....	1,896	4,188	55,185

Footnotes and source on next page.

Table 460.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS,  
BY MAJOR INDUSTRY GROUP: 1984 AND 1985 - Con.

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, 1985, Hawaii, CBP-85-13 (August 1987), pp. 1-2.

Table 461.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY  
EMPLOYMENT-SIZE CLASS: 1985

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments	Number of employees	Annual payroll (\$1,000)
Total .....	25,742	327,336	5,223,950
1 to 4 .....	14,058	24,951	488,767
5 to 9 .....	5,261	34,731	488,232
10 to 19 .....	3,181	42,931	589,283
20 to 49 .....	2,084	63,085	909,075
50 to 99 .....	734	49,864	779,104
100 to 249 .....	314	44,805	757,093
250 to 499 .....	58	19,930	297,431
500 to 999 .....	37	24,576	377,749
1,000 or more .....	1/ 15	22,463	537,197

1/ 1,000-1,499 employees, 11 establishments; 1,500-2,499, 3 establishments; 2,500-4,999, 1 establishment.

Source: U.S. Bureau of the Census, County Business Patterns, 1985, Hawaii, CBP-85-13 (August 1987), pp. 3, 11, and 16.

Table 462.-- REGISTERED CORPORATIONS AND PARTNERSHIPS:  
1984 TO 1987

[Excludes eleemosynary corporations]

Subject	1984	1985	1986	1987
Domestic (Hawaii) corporations:				
Formed <u>1/</u> .....	2,770	2,969	3,010	3,191
Dissolved or merged <u>2/</u> .....	4,103	2,617	2,183	2,221
On record, June 30 .....	26,010	26,362	27,189	28,159
Foreign (non-Hawaii) corporations:				
Qualified <u>1/</u> .....	495	581	596	626
Withdrawn, merged, or cancelled <u>2/</u> .	313	320	371	351
On record, June 30 .....	4,059	4,320	4,545	4,820
Partnerships:				
Registered <u>1/</u> .....	1,430	1,388	1,557	1,392
Dissolved or cancelled <u>2/</u> .....	1,249	1,565	1,505	1,297
On record, June 30 .....	9,001	8,824	8,876	8,971

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.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, November 20, 1987.



Table 463.-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS, AND PROPRIETORSHIPS: 1979, 1981, AND 1983

[Money amounts in millions of dollars]

Subject	1979	1981	1983
<u>CORPORATIONS</u> <sup>1/</sup>			
Number of corporations .....	13,285	16,585	18,420
Taxable .....	7,463	7,536	8,040
Nontaxable .....	5,822	9,049	10,380
Business receipts .....	13,442	17,878	21,072
Taxable corporations .....	9,538	10,941	12,368
Nontaxable corporations .....	3,904	6,937	8,704
Taxable income, excluding net losses <sup>2/</sup>	706.9	706.5	682.8
<u>PARTNERSHIPS</u> <sup>3/</sup>			
Number of partnerships .....	...	7,107	7,378
With net profit .....	...	3,331	3,453
With net loss .....	...	3,776	3,925
Number of partners .....	...	105,983	83,313
Business receipts .....	...	1,661.8	1,737.9
Businesses with net profit .....	...	1,018.0	1,065.8
Businesses with net loss .....	...	643.8	672.2
Net profit reported .....	...	311.8	358.1
Net loss reported .....	...	346.0	366.3
<u>PROPRIETORSHIPS</u>			
Number of proprietorships .....	46,029	54,473	54,182
With net profit .....	32,357	33,475	36,330
With net loss .....	13,672	20,998	17,852
Business receipts .....	1,051.0	868.5	1,236.2
Businesses with net profit .....	896.9	717.3	1,050.6
Businesses with net loss .....	154.1	151.2	185.7
Net profit reported .....	263.5	184.4	254.0
Net loss reported .....	35.0	58.4	63.9

<sup>1/</sup> Includes domestic, foreign, and small business corporations.

<sup>2/</sup> Includes taxable income reported by small business corporations, taxable to individual stockholders only.

<sup>3/</sup> Not available before 1981.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns for Corporations (1979), Proprietorships (1979), Corporation, Proprietorship, Partnership (1981 and 1983), and records.

Table 464.-- LARGEST PUBLIC AND PRIVATE CORPORATIONS:  
MOST RECENT AVAILABLE YEAR

[Data may include sales and employment on the Mainland or abroad]

Company	Year founded <u>1/</u>	Sales (million dollars) <u>2/</u>	Employees
Amfac .....	1849	1,962.2	20,000
Castle & Cooke .....	1851	1,737.9	35,000
Pacific Resources Inc. (PRI) .....	1904/1970	816.1	875
Hawaiian Electric Industries .....	1891/1983	558	2,148
Alexander & Baldwin .....	1870/1900	536.7	3,250
Chevron USA Inc. (Hawaii Division) .	1904	496	272
Bancorp Hawaii .....	1897/1971	485.5	3,281
Hawaiian Telephone Company .....	1883	440.2	4,330
Hawaii Medical Service Assn. (HMSA)	1938	378.4	850
First Hawaiian, Inc. ....	1858/1974	311.4	2,201

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, sold, or legally changed its name.

2/ Latest available data. May be fiscal year or calendar year.

Source: Diane Chang, "Top 250," Hawaii Business, August 1987, pp. 66 and 68.

Table 465.-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1985 AND 1986

[Based on 1986 data for reporting companies]

Company	Net income or loss (\$1,000)		Revenues (1,000,000)	
	1985	1986	1985	1986
Largest net incomes:				
Alexander & Baldwin .....	83,590	92,380	506.3	536.7
Hawaiian Telephone .....	49,025	53,001	398.4	440.2
Bancorp Hawaii .....	38,561	46,185	459.0	485.5
Largest net losses:				
Amfac .....	<u>1/</u> 17,912	66,599	2,405.0	1,962.2
Mid Pacific Air .....	9,225	8,700	39.1	64.3
Princeville Development <u>2/</u> ....	<u>1/</u> 1,513	2,806	10.4	15.0

1/ Net income.

2/ Fiscal year 1985 ending November 30.

Source: Diane Chang "Top 250," Hawaii Business, August 1987, p. 60.

Table 466.-- EMPLOYEES AND REVENUES FOR SELECTED COMPANIES:  
1986

Company	Employees	Revenues	
		Total (mil. dol.)	Per employee (\$1,000)
Highest revenues per employee:			
Waitec Development .....	4	32	8,000
Wailea Point Development .....	10	40.7	4,100
Nissan Motor Corp. in Hawaii .....	32	101.6	3,200
Lowest revenues per employee:			
MTL Inc. ....	1,150	19	16.5
Spencecliff Corporation .....	1,400	30.7	21.9
Gray-Line Hawaii .....	615	16	26.0

Source: Diane Chang, "Top 250," Hawaii Business, August 1987.

Table 467.-- MINORITY-OWNED BUSINESSES: 1982

[Includes partnerships in which at least half of the partners were members of a specified minority group, and corporations in which 50 percent or more of the shares were owned by such persons. For detail by industry divisions and counties, see source]

Minority <u>1/</u>	Number of firms		Sales and receipts (\$1,000)	
	Total	With paid employees	Total	With paid employees
All minorities <u>2/</u> .....	30,129	3,142	2,443,206	2,092,348
Black .....	330	23	5,857	3,209
Hispanic origin .....	759	58	17,913	11,634
Mexican .....	144	14	7,965	6,989
Puerto Rican .....	278	15	3,748	1,889
Cuban .....	14	-	346	-
Other Central or South American	47	2	996	(D)
European Spanish .....	195	21	3,121	1,777
Other Hispanic .....	81	5	1,737	(D)
Other minorities .....	29,040	3,061	2,419,436	2,077,505
Aleut or Eskimo .....	-	-	-	-
American Indian .....	43	3	1,189	696
Asian Indian .....	74	26	1,585	1,174
Chinese .....	4,369	556	538,131	477,987
Japanese .....	17,327	1,852	1,104,690	904,563
Korean .....	1,240	185	59,291	41,363
Vietnamese .....	126	5	1,677	485
Other Asian .....	155	43	220,528	218,452
Filipino .....	3,341	157	50,446	20,781
Hawaiian <u>3/</u> .....	2,077	167	44,113	23,337
Other Pacific Islander .....	169	60	395,418	387,272
Other minorities .....	119	6	2,368	1,396

D Withheld to avoid disclosing data for individual companies.

1/ Persons of mixed race were instructed to report the race with which they most closely identified. Whites (Caucasians), although only 34.4 percent of the 1980 population of Hawaii, were treated as the "majority" group for census purposes.

2/ Not corrected for double-counting. In this survey, it was possible for a minority-owned firm to be classified in more than one minority group.

3/ For the United States as a whole, Hawaiians owned 3,305 firms (291 with paid employees) with sales and receipts of \$85,579,000 (\$48,714,000 for those with paid employees). These totals included 1,228 Mainland firms owned by Hawaiians, with sales and receipts of \$41,466,000.

Source: U.S. Bureau of the Census, 1982 Survey of Minority-Owned Business Enterprises, MB82-1, Black (August 1985), p. 19; MB82-2, Hispanic (September 1986), p. 48; and MB82-3, Asian Americans, American Indians, and Other Minorities (October 1986), pp. 5 and 58.

Table 468.-- WOMEN-OWNED BUSINESSES: 1982

[Includes partnerships in which at least half of the partners were women, and corporations in which 50 percent or more of the shares were owned by women. For detail by industry divisions, counties, and selected urban places, see source]

Subject	State total	Oahu
All firms:		
Number .....	16,821	12,506
Sales and receipts (\$1,000) .....	356,498	264,298
Firms with paid employees:		
Number .....	1,248	928
Employees for pay period incl. March 12 .....	5,538	4,055
Annual payroll (\$1,000) .....	39,356	28,313
Sales and receipts (\$1,000) .....	206,581	153,445

Source: U.S. Bureau of the Census, 1982 Economic Censuses, WB82-1, Women-Owned Businesses (April 1986), pp. 13 and 33.

Table 469.-- BUSINESS CLIMATE INDEXES AND SUBINDEXES: 1987

Index and subindex	Rank	Grade	Index and subindex	Rank	Grade
Performance .....	10	A	Capacity .....	16	B
Employment .....	31	D	Human resources ...	19	B
Income .....	24	C	Financial capacity	24	C
Job quality .....	14	B	Infrastructure ....	10	A
Equity .....	5	A	Amenities .....	8	A
Quality of life ..	12	B	Policy <u>1/</u> .....	23	C
Business vitality ..	32	D			
Competitiveness ..	42	F			
Entrepreneurial energy .....	19	B			

1/ Based on effectiveness of governance and regulation; tax policy; commitment to enabling capital mobilization, improved education and research; and help for distressed communities.

Source: The Corporation for Enterprise Development, Making the Grade: The Development Report Card for the States. Executive Summary (1987).

Table 470.-- BUSINESS FAILURES: 1980 TO 1985

[Commercial and industrial failures only through 1983, excluding failures of banks, real estate, insurance, holding, and financial companies, steamship lines, travel agencies, etc. Data for 1984-85 based on expanded coverage and new methodology and are therefore not generally comparable with earlier data. Data include concerns discontinued following assignment, voluntary or involuntary petition in bankruptcy, attachment execution, foreclosure, etc.; voluntary withdrawals from business with known loss to creditors; also enterprises involved in court action, such as receivership and reorganization or arrangement which may or may not lead to discontinuance; and businesses making voluntary compromise with creditors out of court. Liabilities exclude low-term publicly held obligations; offsetting assets are not taken into account]

Subject	1980	1981	1982	1983	1984	1985
Number of failures ....	83	89	146	145	225	246
Current liabilities (million dollars) ...	21.6	23.5	58.3	34.2	148.8	280.6

Source: Data from Dun and Bradstreet Corporation, cited in Statistical Abstract of the United States for 1981-1987.

## **COMMUNICATIONS**

This section presents statistics on the usage, finances, and operations of the Postal Service and of various communications media: telephone, telegraph, radio, television, newspapers, periodicals, and books. Sections 12 and 15 contain employment and payrolls data for communications establishments.

Hawaii is served by all major communications media. In 1987 it had 144 post offices and stations handling 394 million pieces of mail and accounting for postal receipts in excess of \$102 million. There were 493,000 telephone access lines in service, 351,000 telephone homes, about 2.35 billion local calls originated, 12 million completed interisland calls (in 1981), and 32 million incoming and outgoing transpacific calls (in 1980). Telegraph messages to and from Hawaii in 1984 totaled 112,000. The 47 commercial, public and educational radio stations in the Islands in 1987 included 27 on the regular broadcast band and 20 FM stations. The State also had 16 television stations (14 commercial and 2 public), including satellites but excluding translators. Nine cable TV companies served 231,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in February 1987 numbered 200,000 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 188,000 in 1986-1987.

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, A. C. Nielsen Co., and Hawaii Media Guide. 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: 1987, Section 18.

Table 471.-- POSTAL SERVICE: 1970 TO 1987

[For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Number, end of fiscal year <u>1/</u>		Gross postal receipts (\$1,000)	Pieces of mail <u>2/</u> (millions)
	Post offices	Stations		
1970 .....	80	...	20,840	187
1971 .....	80	...	21,976	201
1972 .....	78	...	23,434	215
1973 .....	77	...	27,100	226
1974 .....	76	...	29,663	233
1975 .....	76	...	33,549	238
1976 .....	76	...	37,433	242
1977 .....	76	...	43,790	249
1978 .....	76	...	49,198	267
1979 .....	76	...	55,267	276
1980 .....	76	...	58,413	298
1981 .....	76	...	67,055	293
1982 .....	76	...	77,424	290
1983 .....	76	<u>3/</u> 50	80,943	305
1984 .....	76	<u>4/</u> 54	84,733	317
1985 .....	76	64	94,975	339
1986 .....	76	67	102,440	360
1987 .....	75	69	107,946	394

1/ Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices and both classified and contract stations (classified stations are those staffed by career postal employees; contract stations, those operated under a contractual agreement between the Postal Service and an individual contractor). Station counts not available before 1983.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

3/ April 15.

4/ June 30.

Source: U.S. Postal Service, Honolulu Field Division, records.



Table 472.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS:  
OCTOBER 26, 1987

Island	Total	Post offices <u>1/</u>			Stations	
		1st class	2nd class	3rd class	Classified <u>2/</u>	Contract <u>3/</u>
State total ..	144	33	27	15	30	39
Hawaii .....	35	9	11	7	2	6
Maui .....	17	7	3	-	1	6
Lanai .....	1	-	1	-	-	-
Molokai .....	5	1	-	4	-	-
Oahu .....	66	12	4	1	26	23
Kauai .....	20	4	8	3	1	4
Niihau .....	-	-	-	-	-	-

1/ There are no fourth-class post offices in the State.

2/ Staffed by career postal employees.

3/ Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu Field Division, data supplied October 26, 1987.

Table 473.-- RESIDENCES, POST OFFICE BOXES, AND BUSINESSES  
SERVED BY THE U.S. POSTAL SERVICE, BY ISLANDS: 1987

[As of September 15]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Residences ...	310,529	23,743	23,282	-	165	257,465	5,874
P. O. boxes ..	93,974	26,307	13,966	876	1,703	37,098	14,024
Businesses ...	27,049	2,843	2,948	-	-	20,309	949

Source: U.S. Postal Service, San Mateo Postal Data Center, records.

Table 474.-- TELEPHONE ACCESS LINES, BY ISLAND AND TYPE: 1981 TO 1986

[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

\* Revised from Data Book 1986, table 449.

Source: Hawaiian Telephone Company, data provided April 20, 1987.

Table 475.-- TELEPHONES IN SERVICE AND RESIDENCE AND BUSINESS MAIN STATIONS: 1976 TO 1981

[As of December 31. Because of deregulation of the telephone industry, these series became subject to disclosure rules that precluded their publication after 1981]

Year	Telephones in service			Residence main stations	Business main stations
	State total	Oahu	Other islands		
1976 .....	596,952	480,937	116,015	262,982	66,357
1977 .....	627,848	501,914	125,934	273,860	67,869
1978 .....	659,141	523,472	135,669	285,948	71,892
1979 .....	684,812	539,582	145,230	296,433	76,533
1980 .....	712,095	555,790	156,305	303,928	79,565
1981 .....	728,352	563,630	164,722	311,430	81,499

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 476.-- TELEPHONE CALLS: 1976 TO 1986

[In thousands]

Year	Local <u>1/</u>		Interisland <u>2/</u>		Transpacific (paid) <u>2/</u>	
	Originating	Completed	Paid <u>3/</u>	Completed	Outgoing	Incoming and outgoing <u>4/</u>
1976 ....	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977 ....	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978 ....	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979 ....	1,830,954	1,186,458	9,635	10,040	15,160	28,076
1980 ....	1,957,427	1,468,070	10,652	11,239	17,199	31,609
1981 ....	1,857,938	1,393,454	11,316	11,993	(NA)	(NA)
1982 ....	1,892,430	1,419,322	(NA)	(NA)	(NA)	(NA)
1983 ....	1,928,486	1,446,365	(NA)	(NA)	(NA)	(NA)
1984 ....	2,050,778	1,538,084	(NA)	(NA)	(NA)	(NA)
1985 ....	2,225,943	1,669,457	(NA)	(NA)	(NA)	(NA)
1986 ....	2,350,538	1,671,223	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The number of local calls is affected as central offices are being converted to Electronic Common Control (ECC). ECC records call attempts after the first digit is dialed. Non-ECC offices record the call attempts when the handset is lifted. Also significant in 1981 were an estimated 17 million fewer calls due to the implementation of Directory Assistance Charging. Because of these fundamental changes in data collection, more recent figures are not comparable to earlier years.

2/ As a result of deregulation of the telephone industry, these series became subject to disclosure rules after 1980 or 1981, and regular publication of annual data was discontinued.

3/ Excludes uncollectables.

4/ Includes calls paid in Hawaii and elsewhere.

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 477.-- TELEPHONE SERVICE, BY ISLANDS: 1981

[As a result of deregulation of the telephone industry, the series shown in this table became subject to disclosure rules after 1981, and regular publication of annual data was discontinued]

Island	Tele- phones in service, Dec. 31	Main stations, Dec. 31		Inter- island calls <u>1/</u>
		Residence	Business	
State total ..	728,352	311,430	81,499	11,992,843
Hawaii .....	70,183	30,735	8,440	2,698,799
Maui .....	58,875	24,225	6,524	2,384,111
Lanai .....	916	646	103	...
Molokai .....	3,652	1,759	440	...
Oahu .....	563,630	241,261	62,304	5,539,848
Kauai .....	31,096	12,804	3,688	1,370,085

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 478.-- TELEGRAPH MESSAGES: 1980 TO 1985

[After 1984, U.S. carriers were no longer required to report traffic for service between Hawaii and the Mainland, and statistics for later years are accordingly incomplete]

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1980 ..	222,410	120,785	43,543	77,242	101,625	46,564	55,061
1981 ..	196,350	106,248	34,432	71,816	90,102	37,924	52,178
1982 ..	168,501	88,325	27,951	60,374	80,176	31,227	48,949
1983 ..	145,990	71,428	21,739	49,689	74,562	21,777	52,785
1984 ..	112,440	47,765	15,061	32,704	64,675	16,024	48,651
1985 ..	(NA)	(NA)	6,208	(NA)	(NA)	6,265	(NA)

NA Not available.

Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 479.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1985 AND 1986

County	Number of companies Dec. 31 <sup>1/</sup>		Subscribers, Dec. 31		Basic service revenue (\$1,000)	
	1985	1986	1985	1986	1985	1986
State total	9	9	220,443	231,335	33,020	33,761
Hawaii .....	3	4	18,433	20,188	4,182	3,356
Maui .....	2	2	20,013	18,545	2,226	2,996
Honolulu .....	3	2	173,129	182,736	24,706	25,455
Kauai .....	2	2	8,868	9,866	1,906	1,954

<sup>1/</sup> State totals are unduplicated figures; one company provided service to both Hawaii and Maui Counties.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 480.-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION,  
1927 TO 1987, AND BY COUNTIES, 1987

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV <u>1/</u>	AM	FM	TV <u>1/</u>
1927: Jan. 1 .....	1	-	-	-	-	-
1942: Jan. 1 .....	4	-	-	-	-	-
1957: Jan. 1 .....	14	1	6	-	2	-
1972: Jan. 1 .....	25	5	10	-	1	2
1987: June 30 .....	27	18	14	-	2	2
COUNTIES: 1987						
Hawaii .....	4	4	4	-	-	-
Maui .....	3	6	3	-	-	1
Honolulu <u>2/</u> .....	18	7	7	-	2	1
Kauai .....	2	1	-	-	-	-

1/ Includes satellites but excludes translators and cable television.

2/ Includes one commercial AM station with studio on Oahu but transmitter on Molokai.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), p. 482; Federal Communications Commission, Field Operations Bureau, Honolulu, July 10, 1987.

Table 481.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA: 1986 AND 1987

Subject	January 1986			January 1987		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households ....	336,000	258,700	77,300	340,900	260,900	80,000
With television .	324,820	251,070	73,750	330,080	253,800	76,280
Percent .....	96.7	97.1	95.4	96.8	97.3	95.4

Source: *Nielsen Station Index, Honolulu, Hawaii*, February 1986 and February 1987, table 1.

Table 482.-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY:  
1980 TO 1987

[In thousands. Mean number of viewers, Sunday through Saturday.  
For 1974-1979, see Data Book 1985, table 436]

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>
1980: Feb. ....	78	105	169	258
May .....	74	101	156	240
Nov. ....	73	128	150	300
1981: Feb. ....	75	134	158	319
May .....	79	137	164	320
Nov. ....	85	146	165	327
1982: Feb. ....	81	139	166	327
May .....	75	129	148	293
Nov. ....	84	142	174	335
1983: Feb. ....	86	147	182	357
May .....	85	142	174	330
Nov. ....	88	147	176	334
1984: Feb. ....	86	149	182	354
May .....	82	139	163	317
Nov. ....	93	158	188	357
1985: Feb. ....	90	150	187	360
May .....	87	143	175	332
Nov. ....	92	156	190	361
1986: Feb. ....	91	158	194	377
May .....	88	144	179	331
Nov. ....	95	154	193	355
1987: Feb. ....	93	158	200	386
May .....	90	152	182	351

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, issued three times annually.

Table 483.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1983-84 TO 1986-87

[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	1983-84	1984-85	1985-86	1986-87
<b>Daily:</b>				
Honolulu Advertiser 1/ .....	85,593	86,998	84,782	88,551
Honolulu Star-Bulletin 2/ .....	111,825	110,045	102,734	99,724
Hawaii Tribune-Herald (Hilo) 3/ .....	19,438	19,868	19,946	20,290
West Hawaii Today (Kailua-Kona) 4/ ..	6,762	7,138	7,680	8,298
Maui News (Wailuku) 3/ .....	15,468	15,983	15,506	15,199
Garden Island (Lihue) 5/ .....	9,649	9,550	9,479	9,500
<b>Sunday morning:</b>				
Sunday Star-Bulletin and Advertiser .	197,793	198,184	195,344	199,684
Hawaii Tribune-Herald (Hilo) .....	21,892	22,605	22,663	22,944
West Hawaii Today (Kailua-Kona) 6/ ..	...	6,626	7,431	8,273
Maui News (Wailuku) 7/ .....	...	14,668	14,684	15,117
Garden Island (Lihue) 8/ .....	...	8,900	8,884	9,300

- 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, Tuesday, Wednesday, and Friday).
- 6/ Beginning April 29, 1984.
- 7/ Beginning September 1984.
- 8/ Beginning July 1, 1984.

Source: Audit Bureau of Circulations data provided to DBED by newspaper publishers.



Table 484.-- PERIODICALS PUBLISHED IN HAWAII: 1985

Frequency	Newspapers		Magazines and other periodicals <u>1/</u>
	English	Foreign language	
Daily, 5 to 7 times weekly ...	6	3	-
2 to 4 times weekly .....	-	-	1
Weekly .....	9	1	15
Semi-monthly or biweekly .....	3	3	18
Monthly .....	2	-	53
1 to 10 times annually .....	-	-	40

1/ Includes regularly published magazines, company and in-house publications, labor publications, educational publications, military and federal publications, and special interest publications. Does not include publications that are updated as required, or other irregular publications. Not comparable to previous years' data.

Source: Aloha United Way, Hawaii Media Guide, April 1985.

Table 485.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1985 TO 1987

Year	Published titles <u>1/</u>		New books and journals published <u>2/</u>		Volumes sold <u>2/</u>	Book sales revenues <u>2/</u> (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1985 .....	745	580	29	10	235,853	1,229,328
1986 .....	783	610	38	8	270,676	1,435,196
1987 .....	826	643	43	8	279,017	1,497,901

1/ As of June 30.

2/ Year ended June 30.

Source: The University of Hawaii Press, Annual Report (annual) and records.

Table 486.-- COMMUNICATION AND COMMUNICATION-RELATED ESTABLISHMENTS:  
1985

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
27	Printing and publishing	175	482	Telegraph communic. ...	3
271	Newspapers .....	22	483	Radio, TV broadcast. ..	37
272	Periodicals .....	19	489	Commun. services, n.e.c	30
273	Books .....	10	731	Advertising .....	60
274	Miscell. publishing .	7	7311	Advertising agencies	45
481	Telephone communic. ...	17			

Source: U.S. Bureau of the Census, County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987), pp. 4-9.

Table 487.-- ADVERTISING AGENCIES (SIC 7311), FOR OAHU: 1982

[Includes only establishments with payroll]

Subject	Amount	Subject	Amount (\$1,000)
Establishments .....	43	Gross sales of (billings for) advertising media .....	65,624
Receipts (\$1,000) .....	18,923	Gross billings for advertising materials and other outside production services	21,016
Commission on media sales ..	10,633		
Service fees .....	3,373		
Other sources .....	4,917		

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), table 6.

Table 488.-- POSTAGE RATES AND NEWSPAPER PRICES, FOR  
HONOLULU: 1977 TO 1987

[In cents. As of July 1]

Year	Domestic first-class postage rates			Newspaper price <sup>1/</sup>	
	Letters		Postal and post cards	Daily	Sunday
	First ounce	Each added ounce			
1977 .....	13	11	9	20	50
1978 .....	15	13	10	20	50
1979 .....	15	13	10	25	60
1980 .....	15	13	10	25	60
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

<sup>1/</sup> 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: 1987, p. 530, as updated.  
Newspaper rates from nameplates.

Table 489.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1977 TO 1987

[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>	
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
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

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 1987, the monthly rental charge for a standard dial desk-top telephone was \$2.15, and the federal subscriber line charge was \$2.00.

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 energy production and consumption, the electric and gas utility industries, research and development, and scientific resources. Related series are cited in Sections 12 (on utility employment), 14 (prices), and 18 (gasoline consumption).

Total energy consumption in 1985 amounted to 232 trillion British thermal units, compared with 217 trillion BTU a decade earlier. Transportation, including aviation fuels, accounted for 62 percent of the 1985 total. Total expenditures for fuels and electricity in 1986 totaled \$1.56 billion.

Electricity sales exceeded 7.0 billion kilowatt-hours in 1986, a total that has increased 25 percent since 1976. Manufactured gas sales reached 31 million therms in 1986, 12.5 percent below the figure ten years earlier. Residential rates in 1986 averaged 9.3 cents per kilowatt-hour and \$1.57 per therm, both almost double the corresponding rates a decade earlier. Average residential use (6,714 kWh and 194 therms in 1986) has declined significantly since the early 1970s. By 1986, almost 11 percent of the housing units in the State had solar heating devices.

The liquid fuel tax base for 1986 was approximately 1.06 billion gallons, compared with 850 million in 1976. The 1986 total included 337 million gallons of gasoline, 603 million of aviation fuel, and 115 million of diesel oil. The average price for automotive gasoline rose from 78 cents per gallon in June 1978 to \$1.58 three years later, then fell to \$1.07 by December 1986.

The State is well served with scientific resources. Especially noteworthy is the cluster of large telescopes used for astronomical observations at the summit of Mauna Kea -- nine major facilities, including those under construction. Federal research and development obligations in Hawaii reached \$71 million in 1983. Thirty-seven patents were granted to Hawaii residents in 1986.

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, Hawaii State Department of Business and Economic Development 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: 1987, Sections 19 and 20.

Table 490.-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS):  
1960 TO 1985

Year	Petroleum <sup>1/</sup> (1,000 barrels)	Hydro- electric power <sup>2/</sup> (million kWh)	Geothermal energy (million kWh)	Other <sup>3/</sup> (million kWh)
1960 ....	17,067	27	0	0
1961 ....	20,690	24	0	0
1962 ....	19,733	20	0	0
1963 ....	20,672	23	0	0
1964 ....	22,117	115	0	0
1965 ....	23,178	105	0	0
1966 ....	25,823	112	0	2
1967 ....	29,125	108	0	0
1968 ....	32,385	94	0	30
1969 ....	33,832	100	0	29
1970 ....	34,806	108	0	24
1971 ....	37,432	89	0	15
1972 ....	38,390	91	0	18
1973 ....	39,300	95	0	22
1974 ....	37,286	92	0	30
1975 ....	37,598	89	0	25
1976 ....	37,965	93	0	29
1977 ....	40,229	86	0	26
1978 ....	40,820	84	0	0
1979 ....	44,521	90	0	0
1980 ....	43,500	86	0	0
1981 ....	38,701	80	0	15
1982 ....	35,618	90	0	26
1983 ....	36,322	84	0	28
1984 ....	36,914	82	21	28
1985 ....	39,355	86	19	25

<sup>1/</sup> For data by type of petroleum, see source. 1981-1984 revised from Data Book 1986, table 465.

<sup>2/</sup> Includes industrial and electric utility production.

<sup>3/</sup> Wood, waste, wind, photovoltaic, and solar thermal energy sources consumed at electric utilities to produce electricity. Excludes coal, natural gas, and nuclear electric power.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1985 (April 1987), p. 79.

Table 491.-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU):  
1960 TO 1985

[Revised from Data Book 1986, table 466]

Year	Total energy consumed <u>1/</u>	Petroleum <u>2/</u>	Hydro-electric power <u>3/</u>	Geo-thermal energy	Coal, nuclear power, and natural gas <u>4/</u>	Other types <u>5/</u>
1960 ....	95.8	95.5	0.3	0.0	0.0	0.0
1961 ....	117.1	116.8	0.3	0.0	0.0	0.0
1962 ....	112.2	112.0	0.2	0.0	0.0	0.0
1963 ....	118.1	117.8	0.2	0.0	0.0	0.0
1964 ....	127.9	126.7	1.2	0.0	0.0	0.0
1965 ....	134.2	133.1	1.1	0.0	0.0	0.0
1966 ....	149.2	148.0	1.2	0.0	0.0	(Z)
1967 ....	168.4	167.2	1.1	0.0	0.0	0.0
1968 ....	187.4	186.1	1.0	0.0	0.0	0.3
1969 ....	194.9	193.6	1.0	0.0	0.0	0.3
1970 ....	200.6	199.2	1.1	0.0	0.0	0.3
1971 ....	215.2	214.1	0.9	0.0	0.0	0.2
1972 ....	221.1	220.0	0.9	0.0	0.0	0.2
1973 ....	226.5	225.3	1.0	0.0	0.0	0.2
1974 ....	214.7	213.5	1.0	0.0	0.0	0.3
1975 ....	216.8	215.6	0.9	0.0	0.0	0.3
1976 ....	219.2	217.9	1.0	0.0	0.0	0.3
1977 ....	232.5	231.3	0.9	0.0	0.0	0.3
1978 ....	235.9	235.0	0.9	0.0	0.0	0.0
1979 ....	255.4	254.5	0.9	0.0	0.0	0.0
1980 ....	253.1	249.2	0.9	0.0	3.0	0.0
1981 ....	226.3	222.5	0.8	0.0	2.8	0.2
1982 ....	207.2	203.2	0.9	0.0	2.8	0.3
1983 ....	209.4	205.5	0.9	0.0	2.7	0.3
1984 ....	217.7	213.7	0.8	0.4	2.4	0.3
1985 ....	232.2	227.9	0.9	0.4	2.7	0.3

Z Less than 0.05.

1/ Totals may not equal sum of components due to independent rounding.

2/ For data by type of petroleum, see source.

3/ Includes industrial and electric utility production.

4/ Data for 1980-1985 are apparently in error.

5/ 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, 1960-1985 (April 1987), p. 79.

Table 492.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1984

[Trillion Btu. Revised from Data Book 1986, table 444]

Year	Consumption <u>1/</u>				Electric utilities <u>2/</u>
	Residential	Commercial	Industrial	Transportation	
1960 .....	7.3	5.2	18.2	65.2	17.6
1961 .....	7.5	5.4	26.8	77.4	19.4
1962 .....	8.0	5.5	28.9	69.8	21.4
1963 .....	8.9	6.0	29.6	73.5	24.2
1964 .....	9.6	6.6	32.4	79.2	26.7
1965 .....	10.1	6.8	34.7	82.6	27.6
1966 .....	10.8	7.4	36.0	95.1	29.7
1967 .....	12.1	8.0	39.1	109.2	31.3
1968 .....	13.1	8.8	38.9	126.7	35.0
1969 .....	14.9	9.8	41.0	129.2	38.7
1970 .....	16.4	11.6	43.9	128.7	43.2
1971 .....	17.8	11.4	43.7	142.3	47.7
1972 .....	19.6	12.7	49.0	139.7	54.1
1973 .....	20.0	13.5	49.2	143.8	55.6
1974 .....	20.3	13.3	49.5	131.7	57.5
1975 .....	19.6	13.8	49.9	133.4	58.8
1976 .....	21.3	15.3	50.9	131.7	62.5
1977 .....	21.8	16.8	52.6	141.3	65.2
1978 .....	21.8	17.4	52.1	144.6	66.8
1979 .....	22.9	18.1	58.0	156.3	67.7
1980 .....	23.2	20.8	62.4	146.7	69.7
1981 .....	23.0	18.8	60.5	124.0	69.9
1982 .....	21.5	17.6	65.9	102.2	66.9
1983 .....	22.1	17.8	51.5	118.0	68.6
1984 .....	21.0	18.6	46.4	131.7	70.6
1985 .....	20.8	19.3	47.2	144.8	70.0

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. Includes power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

2/ Energy input at electric utilities. Distributed among the other four sectors.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1985 (April 1987), pp. 80-84.



Table 493.-- PRIMARY ENERGY USE, BY SOURCE: 1981 TO 1986

[Thousands of barrels of oil equivalent]

Year	All sources	Petroleum	Biomass	Hydro electricity	Coal	Geothermal	Wind
1981 .....	46,084	42,879	2,791	117	297	-	-
1982 .....	45,891	42,510	2,980	174	202	25	-
1983 .....	47,007	43,616	3,069	141	151	30	-
1984 .....	46,644	43,233	3,119	124	135	33	-
1985 .....	45,078	41,786	3,021	156	58	30	27
1986 <u>1/</u> .....	44,762	41,439	2,961	162	79	28	93

1/ Provisional.

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Business and Economic Development, records; Hawaiian Sugar Planters' Association, records.

Table 494.-- ELECTRICITY GENERATION BY SOURCE: 1981 TO 1986

[Millions of kWh generated]

Year	Total	Petroleum	Biomass	Hydro-electric	Geothermal	Wind	Coal
1981 .....	7,615	6,913	628	74	-	-	-
1982 .....	7,467	6,729	612	110	16	-	-
1983 .....	7,689	6,914	667	89	19	-	-
1984 .....	7,841	7,073	669	78	21	-	-
1985 .....	7,821	7,001	670	98	19	17	16
1986 <u>1/</u> .	8,196	7,360	643	102	18	58	15

1/ Provisional.

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Business and Economic Development, records; Hawaiian Sugar Planters' Association, records.

Table 495.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SOURCE:  
1970 TO 1986

[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 <u>1/</u> .	1,564.0	1,147.3	224.6	922.7	224.6	641.3

1/ Provisional.

Source: Hawaii State Department of Business and Economic Development, Division of Energy, unpublished estimates.

Table 496.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SECTORS:  
1970 TO 1986

[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	174.2	17.3
1971 .....	246.8	8.7	38.8	17.9	60	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	328.3	49.8
1975 .....	546.1	7.4	76.9	45.8	138.8	401	91.9
1976 .....	600	12.7	84	45.9	152	441	100.4
1977 .....	696.5	13.9	92.9	55	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
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 <sup>1/</sup> ..	1,586.6	20.6	213.5	100.8	459.1	1,127.6	337.6
1986 <sup>2/</sup> ..	1,147.3	13.8	195.8	65.8	445.6	843.1	224.6

<sup>1/</sup> Revised from Data Book 1986, table 471.

<sup>2/</sup> Preliminary.

Source: Hawaii State Department of Business and Economic Development, Division of Energy, unpublished estimates.

Table 497.-- ELECTRIC UTILITIES: 1976 TO 1986

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
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
Year	Average annual use (kWh) <sup>1/</sup>		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733
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

<sup>1/</sup> Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 498.-- ELECTRIC UTILITIES, BY ISLANDS: 1986

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
State total	337,563	291,222	46,341	1,553,580	7,025,739	1,959,447	5,066,292
Oahu .....	235,742	205,636	30,106	1,277,000	5,625,398	1,450,473	4,174,925
Hawaii .....	42,686	35,524	7,162	101,880	545,615	216,133	329,482
Kauai .....	20,195	17,086	3,109	59,800	252,511	90,660	161,851
Maui County .....	38,940	32,976	5,964	114,900	602,216	197,892	404,323
Lanai .....	884	760	124	-	5,654	3,464	2,191
Maui .....	35,493	30,121	5,372	103,700	571,290	188,531	382,759
Molokai .....	2,563	2,095	468	11,200	25,271	10,187	15,084
	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	6,728	109,326	0.09294	0.07505	562,345	182,110	380,234
Oahu .....	7,054	138,674	0.08328	0.06723	401,478	120,798	280,680
Hawaii .....	6,084	46,004	0.11879	0.10797	61,249	25,674	35,575
Kauai .....	5,306	52,059	0.12528	0.12470	31,541	11,358	20,183
Maui County .....	6,001	67,794	0.12270	0.10832	68,077	24,281	43,796
Lanai .....	4,558	17,666	0.18806	0.18811	1,063	651	412
Maui .....	6,259	71,251	0.11461	0.10542	61,959	21,608	40,351
Molokai .....	4,862	32,232	0.19845	0.20109	5,055	2,022	3,033

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 499.-- GAS UTILITIES: 1976 TO 1986

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937
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

Year	Average annual use (therms) <u>1/</u>		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925
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

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 500.-- GAS UTILITIES, BY ISLANDS: 1986

[Excludes bottled gas]

Island	Customers, Dec. 31			Gas sold (therms)			
	Total	Residen- tial	Other	Total	Residen- tial	Other	
State total	33,369	29,678	3,691	31,121,766	5,762,090	25,359,676	
Oahu .....	30,831	27,516	3,315	28,137,478	5,318,246	22,819,232	
Hawaii .....	1,890	1,579	311	2,106,560	332,768	1,773,792	
Kauai .....	275	275	-	55,749	55,749	-	
Maui .....	373	308	65	821,979	55,327	766,652	
Molokai .....	-	-	-	-	-	-	
Lanai .....	-	-	-	-	-	-	
Island	Average annual use (therms) <u>1/</u>		Average rate (dollars per (therm))		Revenues (\$1,000)		
	Resi- dential	Other	Resi- dential	Other	Total	Resi- dential	Other
State total	194	6,871	1.57151	1.12027	37,465	9,055	28,410
Oahu .....	193	6,884	1.58703	1.12941	34,212	8,440	25,772
Hawaii .....	211	5,704	1.37861	1.05523	2,331	459	1,872
Kauai .....	203	-	1.42512	-	79	79	-
Maui .....	180	11,795	1.38786	0.99884	843	77	766
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 501.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU:  
1981 TO 1986

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)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1981 ..	218,162	191,283	5,507,151	5,276,227	7,474	0.11364	1,275,160
1982 ..	222,636	194,468	5,441,941	5,164,332	7,068	0.12066	1,255,600
1983 ..	226,070	197,400	5,546,600	5,230,658	7,030	0.10631	1,200,000
1984 ..	228,606	199,722	5,633,940	5,330,931	6,960	0.11032	1,188,600
1985 ..	231,912	202,222	5,637,678	5,336,262	6,997	0.10417	1,188,600
1986 ..	235,742	205,636	5,933,569	5,625,398	7,113	0.08328	1,188,600

1/ Net generated plus purchased power.

2/ Based on average number of customers during the year.

3/ Maximum generator nameplate. 1984 and 1985 data are revisions.

Source: Hawaiian Electric Co., Inc., records.

Table 502.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1981 TO 1986

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1981 ...	30,019	26,201	29,543	5,893	225
1982 ...	30,221	26,665	29,307	5,765	216
1983 ...	30,305	26,674	28,795	5,849	219
1984 ...	30,041	26,636	28,190	5,389	202
1985 ...	30,442	27,085	28,255	5,436	201
1986 ...	30,831	27,516	28,137	5,318	193

1/ Includes liquefied petroleum gas.

Source: Gasco, Inc., records.



Table 503.-- LIQUID FUEL TAX BASE: 1976 TO 1986

[In thousands of gallons]

Year reported <u>1/</u>	All types	Gasoline	Diesel oil	
			Non-hwy.	Hwy. use
1976 .....	850,261	295,704	79,884	13,561
1977 .....	888,136	311,409	85,484	13,817
1978 .....	917,380	324,702	99,755	15,233
1979 .....	960,837	324,337	108,460	16,596
1980 .....	939,766	312,896	101,719	17,765
1981 .....	918,437	305,886	101,212	15,771
1982 .....	893,288	308,600	88,312	17,303
1983 .....	919,865	310,085	86,790	16,440
1984 .....	925,871	322,410	95,956	17,892
1985 .....	970,555	327,021	83,147	17,636
1986 .....	1,059,180	336,559	95,022	19,354

Year reported <u>1/</u>	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1976 .....	1,858	1,054	456,819	464	917
1977 .....	2,036	1,280	472,654	558	899
1978 .....	1,821	1,216	473,270	445	938
1979 .....	2,213	1,140	506,825	410	856
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

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 504.-- LIQUID FUEL TAX BASE, BY COUNTIES: 1986

[In thousands of gallons]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total .....	1,059,180	867,266	89,605	67,142	35,167
Gasoline .....	336,559	236,287	38,110	44,480	17,681
Diesel oil, non-hwy. ...	95,022	38,106	27,803	12,725	16,388
Diesel oil, hwy. use ...	19,354	14,424	1,532	3,018	379
Liq. pet. gas, off hwy.	2,969	2,023	390	424	132
Liq. pet. gas, hwy. use	1,031	857	38	98	38
Small boats, gasoline ..	163	77	-	86	-
Small boats, diesel oil	916	128	-	787	-
Aviation fuel .....	603,167	575,364	21,732	5,522	549

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution, Calendar Year Ending December 31, 1986" (annual release).

Table 505.-- GASOLINE SERVICE STATIONS (SIC 554)  
WITH PAYROLL, BY COUNTIES: 1981 TO 1985

Year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1981 .....	340	254	45	17	24
1982 .....	365	252	59	21	33
1983 .....	379	267	59	25	28
1984 .....	359	251	51	26	31
1985 .....	349	244	50	26	29

Source: U.S. Bureau of the Census, County Business Patterns, Hawaii (annual).

Table 506.-- GASOLINE SERVICE STATIONS: 1982

[Data are shown only for establishments with payroll]

Subject	State total	Oahu only
Number of establishments .....	366	251
Offering self-service sale of gasoline .....	64	53
Sales (\$1,000) .....	400,141	299,966
Gallon sales (1,000):		
Gasoline, total .....	228,151	172,809
Through self-service .....	51,926	48,879
Other automotive fuels .....	2,387	1,838
Pumps, Dec. 31:		
Gasoline, total .....	2,431	1,902
Self-service .....	478	412
Other automotive fuel .....	60	44
Total gallon storage capacity, all fuels (1,000)	6,300	(S)

S Withheld because estimates did not meet publication standards.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), tables 2, 3, 4, and 5.

Table 507.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU:  
1978 TO 1986

[Dollars. Average prices include all applicable federal, state, and county taxes. This survey was discontinued after December 1986. For earlier years, 1903-1978, see Data Book 1984, tables 497 and 498]

Date	All types <u>1/</u>	Leaded regular	Unleaded regular	Leaded premium
1978: June .....	.778	.761	.765	.793
Dec. ....	.804	.778	.791	.821
1979: June .....	.957	.922	.956	.970
Dec. ....	1.150	1.087	1.164	1.175
1980: June .....	1.352	1.310	1.350	1.383
Dec. ....	1.407	1.348	1.413	1.441
1981: June .....	1.580	1.508	1.588	1.619
Dec. ....	1.584	1.520	1.586	1.621
1982: June .....	1.512	1.454	1.511	1.556
Dec. ....	1.518	1.446	1.522	1.566
1983: June .....	1.455	1.391	1.450	1.506
Dec. ....	1.474	1.409	1.470	1.530
1984: June .....	1.497	1.425	1.490	(NA)
August ...	1.498	1.419	1.492	(NA)
Revised series <u>2/</u>				
1984: Sept. ....	1.409	1.310	1.406	(NA)
Dec. ....	1.384	1.285	1.372	(NA)
1985: June .....	1.386	1.269	1.387	(NA)
Dec. ....	1.406	1.295	1.421	(NA)
1986: June .....	1.212	1.063	1.227	<u>3/</u> 1.334
Dec. <u>4/</u> ..	1.075	0.961	1.096	<u>3/</u> 1.252

NA Not available.

1/ Includes types not shown separately.

2/ Because of revised sample design, data are not directly comparable to earlier figures.

3/ Unleaded premium.

4/ U.S. city averages in December 1986 were: all types, \$0.830; leaded regular, \$0.764; unleaded regular, \$0.823; unleaded premium, \$0.984.

Source: U.S. Bureau of Labor Statistics, Consumer Prices: Energy and Food (monthly, 1979-1985), CPI Detailed Report (monthly, 1985-1986), and printouts for 1978-1979.

Table 508.-- ENERGY GENERATED, PURCHASED, SOLD AND USED BY  
RAW SUGAR PLANTATIONS, BY ISLANDS: 1985

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated <u>1/</u> .....	778.21	211.41	208.03	249.06	109.71
Purchased .....	27.19	1.54	1.59	9.92	14.14
Sold .....	334.82	130.04	98.68	94.96	11.14
Used <u>2/</u> .....	470.58	82.91	110.94	164.02	112.71
Gross heat values of boiler fuels (billions of Btu's)					
All fuels .....	25,464	8,698	5,479	7,477	3,810
Bagasse .....	22,864	8,134	5,154	6,127	3,448
Fuel oil .....	2,321	564	265	1,277	215
Other fuels .....	279	-	60	72	147

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 - 1985 (Energy Report 23, December 23, 1986), pp. 6-9.

Table 509.-- BOILERS AND PRESSURE VESSELS: 1985 AND 1986

Date	Total	Power boilers	Heating boilers	Pressure vessels
1985: Dec. 31 ...	8,643	606	2,592	5,445
1986: Dec. 31 ...	8,561	588	2,533	5,440

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 510.-- TAX CREDITS FOR SOLAR DEVICES AND HEAT PUMPS:  
1977 TO 1985

[In 1976, the State Legislature approved a tax credit for solar energy devices installed after December 31, 1974. In 1981, the Legislature approved a tax credit for heat pumps installed after December 31, 1980]

Year in- stalled	Solar devices			Heat pumps	
	Number claiming	Average cost (dollars)	Total credit allowed 1/ (dollars)	Number claiming	Credit claimed 1/ (dollars)
1977 .....	1,101	2,135	229,729	...	...
1978 .....	4,061	2,907	1,119,870	...	...
1979 .....	4,375	3,031	1,249,971	...	...
1980 .....	4,704	3,346	1,492,602	...	...
1981 .....	6,445	3,500	2,107,293	2,013	164,155
1982 .....	4,407	3,659	1,511,796	3,122	154,173
1983 .....	3,148	3,601	1,076,222	665	39,921
1984 .....	4,464	3,519	1,482,095	257	12,935
1985 .....	6,740	3,897	2,616,357	12	900

1/ Credit limited to 10 percent of actual cost. Credits are prorated for condominium owners.

Source: Hawaii State Department of Taxation, Tax Credits Claimed by Hawaii Residents for 1977-1985.

Table 511.-- HOUSING UNITS WITH SOLAR WATER HEATING SYSTEMS:  
1983 TO 1986

Subject	1983	1984	1985	1986
Number with systems, Dec. 31 ...	26,800	31,800	39,000	39,500
Percent with systems 1/ .....	7.6	8.9	10.7	10.7

1/ Based on April 1 estimates of total housing stock in table 628.

Source: Hawaii State Department of Business and Economic Development, Energy Division, unpublished estimates.

Table 512.-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT  
IN HAWAII: 1979 TO 1983

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

Type of obligation	1979	1980	1981	1982	1983
Total obligations for R&D .....	40.8	42.6	49.9	44.5	71.4
Obligations for R&D plant .....	0.5	0.2	0.7	0.1	0.1

Source: National Science Foundation, Federal Funds for Research and Development: Fiscal Years 1981, 1982, and 1983, Vol. XXXI, Final Report NSF 83-320, pp. 188-189; and Federal Funds for Research and Development: Fiscal Years 1983, 1984, and 1985, Vol. XXXIII, Detailed Statistical Tables NSF 84-336, p. 141.

Table 513.-- RESEARCH AND DEVELOPMENT EXPENDITURES AT UNIVERSITIES  
AND COLLEGES: 1980 TO 1984

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

Type of expenditure	1980	1981	1982	1983	1984
Total R&D expenditures .....	40,593	42,997	43,439	45,401	51,051
Federally financed .....	25,833	25,153	26,616	27,633	32,701

Source: National Science Foundation, Academic Science/Engineering: R and D Funds, Fiscal Year 1984 (1986), pp. 41-42.

Table 514.-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING,  
FOR THE UNIVERSITY OF HAWAII: 1982-83 TO 1986-87

[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)
1982-83 ...	595	45,652,413	392	33,733,083	203	11,919,330
1983-84 ...	583	47,954,042	358	30,204,420	225	17,749,622
1984-85 ...	627	53,267,244	385	36,699,412	242	16,567,832
1985-86 ...	643	53,976,468	354	35,750,696	289	18,225,772
1986-87 ...	647	52,579,742	381	35,838,578	266	16,741,164

Source: Office of Research Administration, University of Hawaii,  
1986-1987 Extramural Awards (1987), p. 2.

Table 515.-- PATENTS ISSUED TO HAWAII  
RESIDENTS: 1979 TO 1986

[Fiscal years ended September 30. Data include  
design, plant, and reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1979 .....	32	1983 .....	30
1980 .....	32	1984 .....	43
1981 .....	49	1985 .....	33
1982 .....	31	1986 .....	37

Source: U.S. Department of Commerce, Patent and  
Trademark Office, Commissioner of Patents and  
Trademarks Annual Report, Fiscal Year '85, p. 50, and  
records.



Table 516.-- TELESCOPES AT THE SUMMITS OF MAUNA KEA AND  
HALEAKALA: 1987

Location and telescope (diameter in meters)	Year com- pleted	Capital costs (million dollars)	Operating costs, 1987 (million dollars)	Hawaii- based staff (persons)
Mauna Kea:				
UH .61-m .....	1969	0.1	} 0.1	13
UH .61-m .....	1969	0.1		
UH 2.24-m .....	1970	3.0		
Canada-France-Hawaii .....	1979	46.2	3.6	43
NASA 3.0-m IRTF .....	1979	15.4	1.8	10
UK 3.8-m .....	1979	15.4	1.5	29
James Clerk Maxwell (UK/NL) ..	1986	20.0	1.0	20
Caltech 10.4-m Submillimeter .	1986	10.0	1.5	11
W.M. Keck Observatory 10-m Optical/IR (under const.) ..	1990	100.0	2.3	35
Haleakala (on UH land):				
Mees Solar Observatory .....	1956	0.5	0.3	6
Lunar Ranging Facility .....	1976/84	3.25	0.7	9
Gamma Ray Facility .....	1985	2.0	0.2	1

Source: University of Hawaii at Manoa, Institute for Astronomy, data provided July 3, 1987.

## 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 535,000 in 1976 to 772,000 in 1986. Vehicle miles rose during the same period from 4.3 billion to 7.0 billion. Hawaii residents purchased 58,000 new passenger cars and 10,000 trucks in 1986. By the end of that year, 612,000 licensed drivers had access to 4,040 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 65 million in 1976 to 74 million in 1986. Registered bicycles numbered 94,000 in 1986.

Most scheduled interisland travel is by air. In 1986, airlines and air taxis reported 8.3 million interisland passengers, some 42 percent more than in 1976, and carried 57,000 tons of cargo. The State has 8 commercial airports, 13 general aviation, military or semi-private airports, 10 civilian heliports, 3,300 active pilots, and about 350 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 828 in 1986, air arrivals increased during the same 27-year span from 224,000 to 6.0 million. Overseas cargo received in the State in 1984 amounted to 77,000 tons by air and 9.0 million tons by ship.

Undocumented State-registered vessels as of December 31, 1986 numbered 14,052, compared with about 8,000 in 1970. Median length was 17.4 feet, and four-fifths were stored on land. There were 1,389 documented vessels in the State in 1987, more than double the 1970 total.

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: 1987, Sections 21 and 22.

Table 517.-- HIGHWAY DISTANCES: 1987

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lynnan Field .....	2.0	Kaunakakai-Kaluakoi Hotel .....	19.5
Hilo-Kalapana .....	26.1	Kaunakakai-Maunaloa .....	16.5
Hilo-Mauna Kea summit .....	39.3	Kaunakakai-Airport .....	7.0
Hilo-Mauna Loa summit .....	52.4	Kaunakakai-Halawa .....	27.6
Hilo-Volcano House .....	30.7	Airport-Sheraton Hotel .....	11.5
Hilo-Kailua, via Naalehu .....	125.2		
Hilo-Kailua, via Saddle Rd. ..	84.3	OAHU <u>1/</u>	
Hilo-Kailua, via Hamakua .....	91.2	Honolulu-Ala Moana Center .....	1.6
Hilo-Waimea, via Saddle Rd. ..	57.9	Honolulu-UH, via King Street ....	3.2
Hilo-Waimea, via Hamakua .....	55.3	Honolulu-Waikiki .....	3.2
Hilo-Upolu Pt., via Hamakua ..	83.7	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Kawaihae, via Hamakua ...	69.5	Honolulu-Waimanalo, via Nuuanu ..	13.3
Waimea-Hawi .....	21.4	Honolulu-Kailua, via Nuuanu .....	11.6
Waimea-Kawaihae .....	11.5	Honolulu-Kaneohe, via Kalihi ....	10.8
Kawaihae-Hawi .....	18.0	Honolulu-Kahuku, via Kahaluu ....	36.2
Kawaihae-Kailua .....	48.4	Honolulu-Kahuku, via Wahiawa ....	46.2
Kailua-Keahole Airport .....	6.8	Honolulu-Kaena Pt., via Wahiawa .	42.4
Kailua-Keauhou .....	6.9	Honolulu-Kaena Pt., via Waianae .	44.3
		Honolulu-Wahiawa .....	20.5
MAUI		Honolulu-Pearl Harbor Shipyard ..	6.5
Wailuku-Kahului .....	2.3	Honolulu-Honolulu Airport .....	4.8
Wailuku-Kahului Airport .....	4.2	Waikiki-UH, via Kapahulu .....	3.2
Wailuku-Hana, via Keanae .....	53.7	Waikiki-Honolulu Airport .....	8.0
Wailuku-Hana, via Kaupo .....	59.8	Waimanalo-Kahuku .....	33.0
Wailuku-Haleakala summit .....	38.2		
Wailuku-Makena .....	17.6	KAUAI	
Wailuku-Lahaina, via Kahakuloa	38.0	Lihue-Haena .....	38.0
Wailuku-Lahaina, via Olowalu .	20.9	Lihue-Wailua .....	5.9
Kahului-Kihei .....	7.9	Lihue-Lihue Airport .....	2.0
Lahaina-Wailea .....	32.4	Lihue-Poipu .....	11.9
Lahaina-Napili .....	8.9	Lihue-Mana .....	32.9
Lahaina-Kaanapali .....	3.7	Lihue-Kalalau Lookout .....	44.6
		Poipu-Kalalau Lookout .....	36.8
LANAI		Poipu-Princeville .....	40.7
Lanai City-Lanai Airport .....	2.7		
Lanai City-Hulopoe .....	8.0		

1/ Honolulu distances measured from King and Bishop Streets; Waikiki, from Kalakāua and Lewers.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 518.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:  
1923 TO 1986

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1923	1938	1958	1972	1986
Total mileage ...	1,479	2,040	2,967	3,611	4,040
Paved .....	565	1,367	2,393	3,117	3,829
Unpaved .....	914	673	575	494	211

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), p. 429; present report, table 519.

Table 519.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED,  
BY ISLANDS: DECEMBER 31, 1986

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
State total .....	4,040.11	94.44	3,734.42	211.25
Hawaii .....	1,456.23	7.04	1,376.57	72.62
Maui .....	584.22	3.21	524.31	56.70
Lanai .....	45.83	-	31.83	14.00
Molokai .....	125.63	-	113.63	12.00
Oahu .....	1,439.03	84.19	1,321.40	33.44
Kauai .....	389.17	-	366.68	22.49
Niihau .....	-	-	-	-

Source: Hawaii State Department of Transportation, records.

Table 520.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1986

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State .	1,109	Airport Viaduct .	14,890	Nanue .....	208
Hawaii .....	255	Hakalau .....	775	Nanue .....	208
Maui .....	151	Kalialinui .....	324	Uaoa .....	79
Lanai .....	-	None .....	...	None .....	...
Molokai ....	19	Manawainui .....	325	Manawainui .....	50
Oahu .....	609	Airport Viaduct .	14,890	Kipapa .....	156
Kauai .....	75	Kalihiwai .....	798	Wahiawa, Koloa ..	90

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 521.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1986

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 522.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES,  
BY ISLANDS: DECEMBER 31, 1985

Type of facility	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections .....	580	38	18	-	-	516	8
Metered on-street parking spaces .....	3,630	816	-	-	-	2,814	-
Metered off-street parking spaces <u>1/</u> .....	3,226	277	68	-	18	2,797	66

1/ Limited to spaces under State or county control. Excludes about 900 spaces on Oahu converted to contract operation.

Source: Compiled by Hawaii State Department of Planning and Economic Development from Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 523.-- VEHICLE DENSITIES: 1923 TO 1986

Measure	1923	1938	1958	1972	1986
Motor vehicles per --					
1,000 persons <u>1/</u> .....	65.6	151.2	330.9	513.2	654.9
Mile of street or highway .....	13.3	30.4	68.2	123.6	191.0
Persons per <u>1/</u> --					
Motor vehicle .....	15.2	6.6	3.0	1.9	1.5
Mile of street or highway .....	202.5	201.0	206.2	240.9	291.6

1/ Based on de facto population after 1938.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), tables 1.4 and 17.2; present report, tables 3, 518, and 524.

Table 524.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1976 TO 1986

[Taxable and non-taxable, including military  
non-resident exempt vehicles]

Year	All vehicles regis- tered	Motor vehicles			
		All motor vehicles	Pas- senger vehicles <u>1/</u>	Ambu- lances, hearses, patrol wagons	Buses
1976 .....	551,438	535,217	452,616	82	2,624
1977 .....	580,380	563,964	475,368	81	2,888
1978 .....	599,990	583,601	489,878	84	3,052
1979 .....	626,841	610,570	510,353	91	3,267
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
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
1976 .....	68,215	1,866	680	9,134	16,221
1977 .....	73,762	1,848	609	9,408	16,416
1978 .....	78,447	1,809	560	9,771	16,389
1979 .....	84,578	1,784	511	9,986	16,271
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

Footnotes and source on next page.

Table 524.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:  
1976 TO 1986 -- Con.

NA Not available.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. 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, unpublished tabulations, provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office; present report, table 527.

Table 525.-- MOTOR VEHICLES REGISTERED, BY COUNTIES:  
1976 TO 1986

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motor-cycles but excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1976 .....	535,217	406,149	57,151	25,300	46,617
1977 .....	563,964	424,892	60,374	26,920	51,778
1978 .....	583,601	436,347	63,025	27,614	56,615
1979 .....	610,570	452,449	67,718	29,492	60,911
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

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office; present report, table 527.



Table 526.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES:  
1976 TO 1986

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1976 .....	452,616	352,148	43,826	19,882	36,760
1977 .....	475,368	367,398	46,072	21,001	40,897
1978 .....	489,878	376,260	47,764	21,411	44,443
1979 <sup>1/</sup> ...	510,353	388,788	51,159	22,790	47,616
1980 .....	514,669	389,576	52,682	23,561	48,850
1981 .....	541,932	409,305	57,397	25,363	49,867
1982 .....	566,060	429,244	59,103	26,297	51,416
1983 .....	(NA)	(NA)	(NA)	(NA)	(NA)
1984 .....	599,845	447,872	63,182	27,376	61,415
1985 .....	625,823	460,906	68,602	29,890	66,425
1986 .....	642,636	466,938	73,356	32,853	69,489

NA Not available.

<sup>1/</sup> Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the 1979 and subsequent data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 527.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES:  
1986 AND 1983

[Taxable and non-taxable, including military non-resident exempt vehicles]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1986					
All vehicles .....	790,855	567,527	94,270	42,695	86,363
Motor vehicles .....	771,575	556,935	89,918	40,585	84,137
Passenger vehicles <u>1/</u> .....	642,636	466,938	73,356	32,853	69,489
Ambulances <u>2/</u> .....	60	46	10	1	3
Buses .....	4,158	3,281	230	142	505
Trucks <u>1/</u> .....	112,053	76,999	14,740	7,117	13,197
Truck tractors <u>3/</u> .....	1,290	660	308	124	198
Truck cranes <u>4/</u> .....	323	131	84	37	71
Motorcycles <u>5/</u> .....	11,055	8,880	1,190	311	674
Trailers and semi-trailers ..	19,280	10,592	4,352	2,110	2,226
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/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the trucks category.

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: 1987 from City and County of Honolulu, Department of Data Systems, unpublished tabulation provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office; 1983 from Applied Analysis, Inc., Estimating Annual Vehicle-miles Traveled (VMT) in the State of Hawaii (August 1987), and records.

Table 528.-- AUTOMOBILES, TRUCKS, AND VANS AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1980

Number of vehicles available	The State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units .....	294,052	29,237	230,214	71	12,020	22,510
None .....	30,509	2,463	25,628	8	788	1,622
1 .....	115,357	9,193	95,735	18	3,209	7,202
2 .....	94,699	10,775	71,456	25	4,440	8,003
3 or more .....	53,487	6,806	37,395	20	3,583	5,683

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), tables 61 and 94.

Table 529.-- TAXABLE VEHICLES, BY TYPE AND EMPTY WEIGHT: 1986

Empty weight	Passenger vehicles	Buses	Trucks <sup>1/</sup>	Truck tractors, tow trucks	Motorcycles	Trailer
All taxable vehicles	582,478	3,016	39,598	813	6,176	13,300
Under 2,000 lb. ....	48,856	1	19	-	6,169	10,219
2,000 to 2,999 lb. ....	311,412	50	9,286	7	4	449
3,000 to 3,999 lb. ....	174,084	86	11,379	9	1	159
4,000 to 4,999 lb. ....	44,473	795	9,196	10	2	170
5,000 to 5,999 lb. ....	3,099	961	2,370	12	-	204
6,000 to 9,999 lb. ....	345	341	3,455	126	-	927
10,000 lb. and over .....	209	782	3,893	649	-	1,172
Median weight (lb.) .....	2,778	5,599	3,922	14,233	<2,000	<2,000

<sup>1/</sup> Vans and other trucks under 6,500 lb. in personal use are classified as passenger vehicles.

Source: Hawaii State Department of Transportation, Highways Division, printouts from Honolulu Department of Data Systems; medians calculated by Hawaii State Department of Planning and Economic Development.

Table 530.-- TRUCK CHARACTERISTICS: 1972, 1977, AND 1982

[Percent]

Vehicular and operational characteristics	1972	1977	1982 <sup>1/</sup>
Major use: Personal transportation .....	37.6	50.0	54.3
Body type: Pickup, panel, multistop, or walk-in .	73.5	86.4	89.6
Vehicle size: Light .....	71.6	89.0	92.9
Annual miles: Less than 10,000 .....	59.8	54.1	59.7
Year model: Over 4 years old .....	59.3	68.1	75.8
Vehicle acquisition: Purchased new .....	55.9	54.6	47.3
Fleet size: 1 truck .....	53.4	64.0	72.3
Truck type: Single-unit, 2 axles .....	91.2	95.7	96.6
Range of operation: Local .....	84.6	87.3	78.2
Fuel type: Diesel and LPG .....	6.2	4.6	3.7

<sup>1/</sup> There were 120,000 trucks in Hawaii in 1982, which traveled 1,071,700,000 truck miles, or 8,900 per truck.

Source: U.S. Bureau of the Census, 1982 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC82-T-12 (June 1985), tables 1 and 2.

Table 531.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1981 TO 1986

Year	Total	Passenger cars	Motor trucks
1981 .....	46,995	39,188	7,807
1982 .....	44,489	37,137	7,352
1983 .....	52,927	42,772	10,155
1984 .....	63,625	48,791	14,834
1985 .....	67,875	51,330	16,545
1986 .....	68,060	49,680	18,380

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 532.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,  
BY COUNTIES: 1985 AND 1986

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

Source: Hawaii Automobile Dealers' Association, HADA  
Yearbook '87, p. 6.

Table 533.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,  
BY MAKE, 1986, AND RANK, 1984 TO 1986

Make	New registrations, 1986			Rank		
	Total	Passenger cars	Trucks	1984	1985	1986
All makes ..	68,379	58,336	10,043	...	...	...
Toyota .....	11,597	9,855	1,742	2	1	1
Nissan .....	10,053	9,035	1,018	1	2	2
Ford .....	7,110	5,019	2,091	3	4	3
Chevrolet .....	6,322	5,091	1,231	4	3	4
Honda .....	6,017	6,017	-	5	5	5
Mazda .....	3,525	2,643	882	6	6	6
Dodge .....	3,398	2,552	846	7	7	7
Oldsmobile .....	1,924	1,924	-	9	8	8
Buick .....	1,710	1,710	-	8	9	9
Suzuki .....	1,657	1,514	143	21	17	10
All others <u>1/</u> ...	15,066	12,976	2,090	...	...	...

1/ For details, see source.

Source: Hawaii Automobile Dealers Association, HADA  
Yearbook '87, p. 12.

Table 534.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1985 AND 1986

[Percent distributions]

Place of manufacture <u>1/</u>	All types		Passenger cars		Trucks	
	1985	1986	1985	1986	1985	1986
Total ...	100.0	100.0	100.0	100.0	100.0	100.0
Imports:						
Japanese ...	54.4	53.2	54.9	54.3	51.6	45.3
European ...	3.0	1.0	3.5	2.2	0.6	0.1
Domestics ....	41.5	45.6	40.8	42.7	45.7	51.3
Unclassified <u>2/</u>	1.1	0.2	0.8	0.8	2.2	3.3

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. Volkswagen is classified as domestic.

2/ AMC (except Jeep), Jaguar, Rolls-Royce, and other cars with small market share in Hawaii.

Source: Hawaii Automobile Dealers' Association, HADA Yearbook '87, p. 13, as corrected.

Table 535.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:  
1976 TO 1986

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1976 .....	541,180	429,559	49,184	22,662	39,775
1977 .....	541,353	424,242	51,773	23,557	41,781
1978 .....	541,263	420,005	53,504	24,381	43,373
1979 .....	543,202	418,751	53,735	25,606	45,110
1980 .....	541,842	411,102	57,780	26,333	46,627
1981 .....	541,279	407,062	60,171	27,261	46,785
1982 .....	561,345	419,468	63,610	28,446	49,821
1983 .....	574,533	428,897	64,560	29,169	51,907
1984 .....	582,218	434,053	65,778	28,801	53,586
1985 .....	593,952	441,278	68,177	29,188	55,309
1986 .....	612,101	453,220	70,493	30,374	58,014

Source: Tabulations by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 536.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE  
AND SEX: DECEMBER 31, 1986

Age	Both sexes	Male	Female
Total .....	612,101	334,433	277,668
15 to 19 years .....	36,567	21,215	15,352
20 to 24 years .....	65,275	35,112	30,163
25 to 34 years .....	161,316	84,169	77,147
35 to 44 years .....	138,312	72,997	65,315
45 to 54 years .....	80,478	43,116	37,362
55 to 64 years .....	74,649	41,472	33,177
65 to 74 years .....	42,999	27,205	15,794
75 to 84 years .....	11,772	8,573	3,199
85 years and over .....	733	574	159
Median age (years) .....	38.1	38.7	37.5

Source: Tabulation by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 537.-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU  
SURVEY SITES: 1983 TO 1986

Site	1983	1984	1985	1986
Pali Highway at tunnels .....	47,753	46,812	47,835	49,242
Likelike Highway at tunnels .....	44,644	43,840	48,501	47,452
H-1 Freeway at Manoa-Palolo Drainage Canal (includes ramps)	101,817	110,712	118,028	122,603
H-1 Freeway at Kapalama Drainage Canal Bridge .....	174,308	164,969	172,655	193,962
Nimitz Highway at Kapalama Drainage Canal Bridge .....	(NA)	55,312	62,410	63,626
Kalaniana'ole Highway east of Ainako Ave. ....	69,939	73,941	79,830	75,852

NA Not available.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.



Table 538.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES:  
1976 TO 1986

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>
1976 .....	308,151	574	4,314.1	8,041
1977 .....	324,449	578	4,542.3	8,088
1978 .....	338,440	583	4,738.2	8,164
1979 .....	339,989	560	4,759.9	7,834
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
COUNTIES: 1986				
Honolulu .....	252,138	456	4,882.9	8,825
Hawaii .....	46,815	513	892.7	9,776
Kauai .....	19,383	460	435.9	10,341
Maui .....	39,380	464	759.2	8,951

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, records.

Table 539.-- COMMUTING: 1980

Commuting characteristics	State total	Oahu	Other islands
MEANS OF TRANSPORTATION TO WORK			
Workers 16 years and over .....	457,717	369,523	88,194
Private vehicle .....	359,207	282,479	76,728
Drive alone: Car .....	225,767	179,823	45,944
Truck or van .....	27,401	15,904	11,497
Carpool: Car .....	93,203	78,997	14,206
Truck or van .....	12,836	7,755	5,081
Public transportation .....	38,100	37,042	1,058
Bus or streetcar .....	37,362	36,447	915
Subway, elevated train, or railroad .....	38	38	-
Taxicab .....	700	557	143
Bicycle .....	5,021	4,679	342
Motorcycle .....	2,979	2,740	239
Walked only .....	37,112	31,069	6,043
Other means .....	6,445	5,134	1,311
Worked at home .....	8,853	6,380	2,473
PRIVATE VEHICLE OCCUPANCY			
Workers 16 and over using private vehicles .....	359,207	282,479	76,728
Drive alone .....	253,168	195,727	57,441
In 2-person carpool .....	72,188	59,311	12,877
In 3-person carpool .....	19,417	16,642	2,775
In 4-person carpool .....	7,828	6,373	1,455
In 5-or-more-person carpool .....	6,606	4,426	2,180
Persons per private vehicle .....	1.20	1.21	1.17
TRAVEL TIME TO WORK			
Workers 16 and over who did not work at home ...	448,492	362,086	86,406
Less than 10 minutes .....	76,444	51,687	24,757
10 to 19 minutes .....	145,010	113,454	31,556
20 to 29 minutes .....	89,345	76,166	13,179
30 to 44 minutes .....	87,941	77,414	10,527
45 or more minutes .....	49,752	43,365	6,387
Mean .....	21.5	22.6	17.2

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 65.

Table 540.-- SELECTED POPULATION CHARACTERISTICS, BY MEANS OF TRANSPORTATION TO WORK: 1980

Means of transportation to work	Age (percent)		Females (percent)	High-school graduates <sup>1/</sup> (percent)	Median household income <sup>2/</sup> (dollars)	Owner occupants <sup>2/</sup> (percent)
	25 to 64 years	65 years and over				
Workers 16 and over .....	74.6	2.3	40.6	83.3	27,649	58.1
Private vehicle .....	79.0	2.0	39.9	84.9	28,830	62.0
Drive alone:						
Car .....	79.1	2.1	39.2	87.0	28,527	61.5
Truck or van .....	87.5	1.7	8.7	77.8	27,683	66.8
Carpool:						
Car .....	76.8	1.7	53.6	83.7	30,376	62.9
Truck or van .....	75.0	1.7	22.4	72.4	26,204	53.8
Public transportation	64.6	3.4	63.9	71.9	23,894	45.0
Bus .....	64.7	3.4	64.0	71.6	24,024	46.0
Taxi or other .....	60.8	3.9	62.7	81.8	20,000	21.7
Bicycle .....	64.2	-	10.2	93.5	16,939	20.4
Motorcycle .....	59.6	-	2.7	95.4	19,239	22.7
Walked only .....	49.5	3.0	32.1	73.3	19,748	32.6
Other means .....	61.5	2.8	25.0	83.6	20,987	39.8
Worked at home .....	66.5	9.7	40.8	80.2	26,719	56.8

<sup>1/</sup> Persons 25 years and over.

<sup>2/</sup> For persons in households.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980, Public Use Microdata Sample A -- 5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 541.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1981 TO 1986

[Years ended September 30]

Measurement and year	State-wide	Urban inter-state	Rural		
			Inter-state	Other arterials	Major collectors
AVERAGE SPEEDS (MILES PER HOUR)					
1981 .....	53.0	54.0	55.1	51.1	52.8
1982 .....	54.1	56.6	56.2	51.5	52.4
1983 .....	54.0	56.7	56.5	51.6	51.8
1984 .....	54.7	56.8	56.8	52.4	53.1
1985 .....	54.8	56.9	58.0	52.3	53.0
1986 .....	55.1	58.4	(NA)	51.4	52.6
1985					
Miles per hour:					
Median speed .....	55.1	57.3	58.7	52.7	53.1
85th percentile speed ..	61.8	63.8	65.2	59.4	60.8
Percent exceeding --					
55 miles per hour .....	43.4	58.4	67.4	29.0	19.1
60 miles per hour .....	18.8	26.3	34.9	10.5	8.5
65 miles per hour .....	6.5	8.5	11.5	3.8	5.3
1986					
Miles per hour:					
Median speed .....	55.4	58.9	(NA)	51.6	52.8
85th percentile speed ..	62.5	65.8	(NA)	59.1	59.0
Percent exceeding --					
55 miles per hour .....	49.5	67.9	(NA)	31.8	26.3
60 miles per hour .....	23.1	37.3	(NA)	8.7	7.8
65 miles per hour .....	8.6	14.1	(NA)	3.0	2.7

NA Not available.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 542.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1976 TO 1986

Year	Major traffic accidents <u>1/</u>		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1976 .....	14,860	137	11,667	149
1977 .....	16,188	139	12,245	154
1978 .....	18,545	175	13,327	195
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 .....	20,726	108	10,915	117
COUNTIES: 1986				
Honolulu .....	15,871	60	7,647	67
Hawaii .....	2,441	21	1,751	23
Kauai .....	895	11	523	11
Maui .....	1,519	16	994	16

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 543.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:  
1985 AND 1986

[As of December 31]

Island	Taxicabs		Bicycles	
	1985	1986	1985	1986
State total .....	<u>1/</u> 1,722	1,618	85,041	93,873
Hawaii .....	90	90	2,487	2,980
Maui .....	123	123	2,832	2,572
Lanai .....	2	2	149	215
Molokai .....	-	-	256	268
Oahu .....	<u>1/</u> 1,458	1,366	<u>2/</u> 75,400	<u>2/</u> 84,228
Kauai .....	49	37	3,917	3,610

1/ Revised from Data Book 1986, table 517.

2/ Excludes mopeds (10,144 in 1985 and 10,398 in 1986).

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 544.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: JUNE 1987

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 .....	1,031	4,843	131,417	2,779	16,343
Hawaii .....	74	527	20,456	509	2,911
Maui .....	142	802	21,718	370	1,914
Honolulu .....	756	3,138	77,934	1,710	10,483
Kauai .....	59	376	11,309	190	1,035

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 Regulatory Agencies, Public Utilities Commission.

Table 545.-- STEAM RAILROAD MILEAGE AND PASSENGERS:  
1979 TO 1986

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only passenger railroad in the State]

Calendar year	Miles of track	Passengers <u>1/</u>	Calendar year	Miles of track	Passengers <u>1/</u>
1979 ....	6	103,105	1983 ...	6	171,892
1980 ....	6	111,699	1984 ...	6	197,876
1981 ....	6	128,178	1985 ...	6	199,759
1982 ....	6	155,059	1986 ...	6	215,735

1/ Data for 1979-1984 revised from Data Book 1985, table 493.  
Source: Lahaina, Kaanapali and Pacific Rail Road, data submitted February 7, 1987.

Table 546.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU:  
1984 TO 1986

[Calendar year data for City and County of Honolulu bus system]

Fare category	1984	1985	1986
All passengers .....	76,260,187	74,816,485	74,410,104
Adults, full fare .....	41,846,716	41,997,746	42,296,391
Students .....	13,548,302	12,717,660	12,185,244
School subsidy .....	342,857	350,346	368,135
Stadium express .....	20,320	10,173	10,861
Senior citizens and handicapped .....	14,381,117	14,207,457	14,151,242
Chartered service .....	8,930	12,981	17,261
Free transfers .....	6,111,945	5,520,122	5,380,970

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 547.-- BUS SERVICE, FOR OAHU: 1970 TO 1986

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971]

Year	Number of buses, Dec. 31	Bus mileage <u>1/</u>	Total passengers <u>2/</u>	Revenues <u>3/</u> (dollars)
1970 <u>4/</u> .....	141	4,611,357	30,434,906	4,970,000
1971 <u>5/</u> .....	108	2,986,724	19,413,259	1,246,351
1972 .....	143	4,964,044	31,031,764	4,445,817
1973 .....	315	7,973,393	36,741,009	5,254,908
1974 .....	333	11,670,774	50,519,626	6,807,147
1975 .....	350	13,328,501	58,295,732	7,990,505
1976 .....	350	15,547,127	64,585,334	9,007,134
1977 .....	350	16,242,537	66,311,882	9,629,349
1978 .....	350	15,991,798	67,746,396	9,686,876
1979 .....	350	15,915,000	68,765,000	9,931,000
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

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens and handicapped) as estimated thereafter. Calendar year data.

3/ Calendar year 1970; 4-month period ended June 30, 1971; fiscal years ended June 30, 1972 to 1979; calendar years, 1980 forward. The fiscal year figure for 1980 was \$14,817,639.

4/ Passenger total excludes 2,277,502 zone fares.

5/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: HRT, Ltd., data provided by Hawaii State Department of Regulatory Agencies, Public Utilities Division; MFL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.



Table 548.-- BUS FARE CHRONOLOGY, FOR OAHU: 1961 TO 1987

[In dollars. Service was provided by Honolulu Rapid Transit, Ltd., from August 31, 1901 until December 31, 1970, and by the City and County of Honolulu beginning March 1, 1971. For earlier data, see The State of Hawaii Data Book 1978, table 305, pp. 273-274]

Effective date	Cash fares <u>1/</u>		Tickets		Monthly passes	
	Adult	School	Adult	School	Adult	School
May 29, 1961 .....	.25	.15	5/1.00	5/.50	...	...
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 (August 28, 1987).

Source: Honolulu Rapid Transit Co., Ltd., records; City and County of Honolulu, Department of Transportation Services, records.

Table 549.-- PASSENGER CAR RENTAL AND LEASING (SIC 7512) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1982 AND 1985

Year	State total	Hono- lulu	Hawaii	Kauai	Maui
1982 .....	79	39	14	10	16
1985 .....	88	37	19	10	22

Source: U.S. Bureau of the Census, County Business Patterns, Hawaii (annual).

Table 550.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:  
DECEMBER 31, 1987

Island	Airports <u>1/</u>				Heliports <u>2/</u>	
	State		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
State total	7	7	6	2	1	9
Hawaii <u>3/</u> .....	2	2	1	-	-	4
Maui <u>4/</u> .....	1	1	-	1	-	2
Kahoolawe .....	-	-	-	-	-	-
Lanai .....	1	-	-	-	-	-
Molokai .....	1	1	-	-	-	-
Oahu .....	1	2	3	-	1	-
Kauai .....	1	1	1	1	-	3
Niihau .....	-	-	-	-	-	-
Kure Atoll .....	-	-	1	-	-	-

1/ Excludes private airports (not available).

2/ Excludes military and private heliports (not available).

3/ Waimea-Kohala Airport reclassified from commercial to general aviation during 1987.

4/ West Maui Airport opened during 1987.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 551.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:  
1976 TO 1986

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	General Lyman Field, Hilo	Keahole Airport	Kahului Airport	Lihue Airport
1976 .....	320,565	52,982	58,425	90,455	58,865
1977 .....	329,926	60,377	83,616	100,655	65,636
1978 .....	379,106	52,677	91,033	125,291	74,583
1979 .....	412,739	51,703	92,235	127,477	71,033
1980 .....	375,408	49,969	66,944	111,573	62,829
1981 .....	339,359	53,274	57,488	102,760	59,404
1982 .....	308,728	47,964	51,889	112,428	65,305
1983 .....	333,038	54,470	66,581	124,288	71,739
1984 .....	343,818	62,543	83,320	142,311	100,992
1985 .....	357,511	61,225	93,879	157,231	131,755
1986 .....	368,049	61,514	81,467	174,560	143,905

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 552.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1986

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	368,049	191,890	69,918	78,985	27,256
Gen. Lyman .....	61,514	17,965	5,587	18,776	19,186
Kahului .....	174,560	78,820	56,361	30,338	9,041
Lihue .....	143,905	41,750	82,244	11,622	8,289
Keahole .....	81,467	30,265	20,679	17,360	13,163
Molokai .....	52,268	5,471	35,913	8,267	2,617

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 553.-- CIVIL FLYING: 1982 TO 1985

Item	1982	1983	1984	1985
Aircraft facilities, Dec. 31 .....	49	51	51	50
Airports .....	36	37	37	36
Heliports .....	13	14	14	14
Public aircraft facilities, Dec. 31 ...	18	14	14	16
Paved and lighted facilities, Dec. 31 .	11	12	12	12
Aircraft in operation, Dec. ....	28	32	38	49
Aloha Airlines, Inc. <u>1/</u> .....	8	8	9	8
Hawaiian Airlines, Inc. <u>1/</u> .....	12	13	18	21
Mid Pacific Airlines, Inc. ....	8	11	11	20
General aviation: <u>2/</u>				
Active civil aircraft, Dec. ....	426	381	463	348
Standard error .....	158	152	143	109
Hours flown (1,000) .....	86	97	206	137
Standard error (1,000) .....	34	34	95	56
Active personnel, Dec. 31:				
Pilots, except instructors .....	3,327	3,224	3,187	3,256
Flight instructors .....	291	260	303	267
Nonpilot airmen <u>3/</u> .....	3,118	3,099	3,191	2,498

1/ Large aircraft only.

2/ Aircraft based in Hawaii. Data based on samples with specified standard errors.

3/ Mechanics, parachute riggers, ground instructors, dispatchers, control tower operators, flight navigators, and flight engineers.

Source: U.S. Department of Transportation, Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual).

Table 554.-- HELICOPTER TOURS: 1977 TO 1987

Subject	1977	1982	1985	1987
Companies .....	9	14	25	36
Aircraft .....	15	26	48	71

Source: Hawaii Helicopter Operators Association, records.

Table 555.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING  
HAWAII: 1984 TO 1987

[As of June 30. Includes both scheduled and nonscheduled services]

Service	1984 <u>1/</u>	1985 <u>1/</u>	1986 <u>1/</u>	1987 <u>2/</u>
All air carriers <u>3/</u> .....	31	32	32	33
Transpacific .....	29	30	30	27
Domestic .....	16	17	18	14
Foreign .....	13	13	12	13
Interisland .....	4	4	4	8
Passenger carriers .....	3	3	3	8
Cargo and mail only .....	1	1	1	-

1/ Excludes commuter lines and other air taxi service.

2/ Includes commuter lines and other air taxi service (5 interisland carriers).

3/ Unduplicated totals. Two carriers provided both transpacific and interisland service in all four years.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 556.-- AIR CARGO AND AIRMAIL: 1981 TO 1986

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1981 .....	151,513	101,301	22,388	19,887	132,559	14,131
1982 .....	155,278	105,388	21,280	25,006	114,038	15,014
1983 .....	174,582	136,354	23,620	28,288	109,828	16,024
1984 .....	196,215	153,654	23,356	29,497	111,472	16,282
1985 .....	180,470	150,295	21,657	22,119	101,700	16,072
1986 .....	200,255	184,894	22,842	23,725	114,657	16,913

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 557.-- TRANSPACIFIC AND INTERISLAND AIR  
PASSENGER MOVEMENTS: 1970 TO 1986

[Calendar years. Data include both revenue and  
non-revenue passengers]

Year	Transpacific passengers			Inter- island passenger arrivals <u>1/</u>
	Arrivals	Departures	Through	
1970 ..	2,190,809	2,158,577	893,890	2,992,777
1971 ..	2,296,119	2,304,570	729,237	3,380,031
1972 ..	2,540,472	2,550,199	733,362	4,093,338
1973 ..	2,866,003	2,913,446	870,378	4,809,097
1974 ..	3,009,769	2,964,992	885,122	5,174,914
1975 ..	3,181,580	3,134,774	956,576	5,321,616
1976 ..	3,496,645	3,432,908	816,915	5,873,138
1977 ..	3,667,756	3,615,717	714,150	6,413,847
1978 ..	4,131,466	4,054,544	854,276	7,341,815
1979 ..	4,245,032	4,148,645	971,452	7,578,877
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

1/ Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 558.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1984 AND 1985

[Data for Aloha Airlines, Inc., Hawaiian Airlines, Inc., and Mid Pacific Airlines, Inc.]

Subject	1984	1985
Number of airlines .....	3	3
Aircraft revenue departures <sup>1/</sup> (1,000) .....	119.9	121.5
Aircraft revenue miles <sup>1/</sup> (1,000) .....	15,143	17,490
Average airborne speed <sup>1/</sup> (miles per hour) ..	261	284
Average available seats per aircraft mile flown <sup>1/</sup> .....	110.9	138.7
Revenue passengers: <sup>1/</sup>		
Enplanements (1,000) .....	6,706	6,876
Load factor (percent) .....	57.4	59.4
Revenue ton-miles (1,000): <sup>2/</sup>		
Freight .....	8,516	5,802
Mail .....	2,949	1,847
Number of employees <sup>3/</sup> .....	1,810	2,731
Operating revenues <sup>4/</sup> (\$1,000) .....	223,250	251,521
Operating profit or loss <sup>4/</sup> (\$1,000) .....	3,782	2,919
Average passenger revenues per revenue passenger-mile <sup>4/</sup> (cents) .....	22.5	14.8
Average freight revenues per revenue ton-mile <sup>4/</sup> (dollars) .....	2.64	1.66

<sup>1/</sup> Scheduled service only.

<sup>2/</sup> Scheduled service only; excludes Mid Pacific.

<sup>3/</sup> Weighted average for year; excludes Mid Pacific for 1984.

<sup>4/</sup> Excludes Mid Pacific.

Source: U.S. Department of Transportation, Research and Special Programs Administration, Office of Aviation Information Management. Aloha Airlines, Inc. and Hawaiian Airlines, Inc. from Department of Transportation (DOT) Form 41. Mid Pacific Airlines, Inc. traffic data from DOT Form 298C.

Table 559.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1986

Airport	Passengers <u>1/</u>		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total .....	6,083,508	6,041,078	100,128	92,447	11,421	11,863
Honolulu .....	5,490,360	5,384,490	98,053	87,748	11,248	11,862
General Lyman ...	10,610	10,304	517	137	103	-
Kahului .....	478,557	521,232	1,070	4,082	70	1
Keahole .....	73,410	85,686	455	417	-	-
Lihue .....	30,571	39,366	33	63	-	-
INTERISLAND						
Total .....	8,340,048	8,340,048	57,329	57,329	8,456	8,456
Honolulu .....	3,659,556	3,700,748	36,833	17,967	4,842	3,513
General Lyman ...	541,564	565,647	11,966	9,202	1,126	1,253
Upolu .....	438	436	-	-	-	-
Waimea-Kohala ...	9,585	9,649	4	13	-	-
Keahole .....	779,328	752,918	2,859	5,104	631	917
Kahului .....	1,876,065	1,853,476	3,046	16,423	1,187	1,836
Hana .....	8,769	8,469	-	-	-	-
Kaanapali <u>2/</u> ....	3,986	3,672	-	-	-	-
Molokai .....	164,262	165,913	219	250	50	8
Kalaupapa .....	3,568	3,497	1	40	-	-
Lanai .....	24,917	25,286	3	14	4	-
Lihue .....	1,244,608	1,226,544	2,398	8,315	616	929
Other airports <u>3/</u>	23,402	23,793	-	1	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (841,241, all through Honolulu International Airport).

2/ Closed January 1986.

3/ Princeville and Waikoloa.

Source: Hawaii State Department of Transportation, Airports Division, records.



Table 560.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1985

[Year ended December 31, 1985. Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Kahului .....	100	17	1,121	394	112,536
Honolulu-Los Angeles .....	2,568	24	966	3	2,487,530
Honolulu-Lihue .....	102	37	762	552	79,555
Honolulu-San Francisco .....	2,399	52	587	13	1,423,559
Honolulu-Kona .....	169	83	465	539	81,344
Honolulu-Chicago .....	4,251	129	309	30	791,997
Honolulu-New York .....	4,971	167	258	15	1,296,430
Honolulu-Seattle .....	2,678	294	155	65	443,976
Honolulu-Las Vegas .....	2,762	341	132	87	372,013
Honolulu-Boston .....	5,095	592	75	80	389,575
Honolulu-Washington .....	4,828	599	74	91	363,517

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: U.S. Department of Transportation, Research and Special Programs Administration, records.

Table 561.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS  
BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1987

[Updated to September 23, 1987]

Effective date of change in fare	Regular one-way fares, including taxes (dollars)			Flight time <sup>1/</sup> (hours, min.)
	First class	Coach, weekend	Coach weekday	
1980: Jan. 1 ....	302.12	209.08	199.08	5:02
June 1 ....	319.13	221.09	211.08	5:02
Aug. 1 ....	351.14	243.10	233.09	5:02
Oct. 1 ....	365.11	252.08	252.08	5:02
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

<sup>1/</sup> Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight time varies seasonally.

Source: United Airlines, records.

Table 562.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES, BY TYPE OF AIRCRAFT: 1982 TO 1987

[Updated to September 15, 1987]

Effective date of change in fare	Honolulu-Lihue		Honolulu-Kahului		Honolulu-Hilo	
	DC-9 <u>1/</u>	DASH-7	DC-9 <u>1/</u>	DASH-7	DC-9 <u>1/</u>	DASH-7
FARES <u>2/</u>						
1982: May 1 .....	46.00	46.00	46.00	46.00	56.00	56.00
June 1 .....	48.00	48.00	48.00	48.00	58.00	58.00
Aug. 1 .....	53.00	53.00	53.00	53.00	63.00	63.00
Sept. 1 .....	54.50	54.50	54.50	54.50	65.00	65.00
1983: Feb. 1 .....	45.00	45.00	45.00	45.00	45.00	45.00
July 1 .....	49.95	49.95	49.95	49.95	49.95	49.95
Oct. 30 .....	49.95	29.95	49.95	29.95	49.95	29.95
Dec. 16 .....	49.95	41.95	49.95	41.95	49.95	41.95
Dec. 22 .....	49.95	33.95	49.95	33.95	49.95	33.95
1984: Jan. 20 .....	49.95	41.95	49.95	41.95	49.95	41.95
May 28 .....	49.95	43.95	49.95	43.95	49.95	43.95
Nov. 15 .....	52.95	46.95	52.95	46.95	52.95	46.95
Dec. 16 .....	52.95	37.95	52.95	37.95	52.95	37.95
1985: Jan. 7 .....	52.95	34.95	52.95	34.95	52.95	34.95
Mar. 11 .....	52.95	36.95	52.95	36.95	52.95	36.95
Apr. 28 .....	52.95	38.95	52.95	38.95	52.95	38.95
July 1 .....	44.95	37.95	44.95	37.95	44.95	37.95
Aug. 1 .....	46.95	38.95	46.95	38.95	46.95	38.95
1987: Mar. 1 .....	48.95	46.95	48.95	46.95	48.95	46.95
FLIGHT TIMES <u>3/</u>						
1982-1984 .....	26	34	27	34	40	60
1985-1987 .....	25	33	26	33	40	58

1/ DC-9-50 and DC-9-80 from May 1981 through 1985; DC-9-15, DC-9-50, and DC-9-80 thereafter.

2/ Total regular one-way fare, including taxes and other charges, in dollars.

3/ Average non-stop scheduled flight time eastbound and westbound, in minutes.

Source: Hawaiian Airlines, records.

Table 563.-- STATE COMMERCIAL HARBORS: 1987

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	446
Kawaihae .....	40	35	1,500	1,450	1,012	23	166
Maui:							
Kahului .....	35	35	2,400	2,050	3,010	124	586
Molokai:							
Kaunakakai ....	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main .....	} 45	{ 40	3,300	1,520	} 28,007	} 1,779	} 7,596
Kapalama ....			3,400	1,000			
Barbers Point .	42	38	2,100	1,800	-	-	-
Kauai:							
Nawiliwili ....	40	35	1,950	1,540	1,216	66	247
Port Allen ....	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, December 16, 1987.

Table 564.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1986

Subject	Number	Subject	Number
Certificates outstanding .	14,052	Type of vessel:	
Length:		Cabin motorboat .....	2,017
Under 16 feet .....	5,641	Open motorboat .....	5,119
16 to less than 20 feet .....	4,062	Runabout .....	2,811
20 to less than 40 feet .....	4,119	Sail/inboard .....	637
Over 40 feet .....	205	Sail/outboard .....	661
Dealers, manufacturers .....	25	Sail only .....	1,158
Median (feet) .....	17.4	Motor vessel over 65 feet .	5
		Other .....	1,644
Hull material:		Uses:	
Wood .....	1,767	Pleasure .....	12,032
Fiberglass .....	10,674	Commercial fishing .....	1,201
Metal .....	497	Charter fishing .....	19
Inflatable .....	826	Commercial passenger .....	204
Other .....	263	Other commercial .....	60
Propulsion:		Livery .....	202
Inboard .....	976	Dealer or manufacturer ....	65
Outboard .....	8,136	Youth group .....	29
Inboard/outboard .....	2,093	Government .....	176
Sail/inboard .....	609	Other .....	64
Sail/outboard .....	617	Island kept:	
Sail only .....	1,169	Hawaii .....	2,038
Other .....	427	Kauai .....	1,169
Type of storage:		Lanai .....	48
On water .....	2,613	Mauai .....	1,272
On land .....	11,439	Molokai .....	189
		Oahu .....	9,336

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 565.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII:  
1982 TO 1987

Category	1982	1983	1984	1985	1986	1987
Documented 1/ .....	1,225	1,300	1,203	1,306	1,348	1,389
Numbered 2/.....	12,999	12,604	13,122	13,443	14,052	...

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. The data for 1982 and 1983 are Coast Guard estimates. All data 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. All data 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 566.-- BOATING ACCIDENTS: 1984 TO 1986

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured non-fatally		
1984 .....	42	6	8	9	52	304.8
1985 .....	41	2	5	10	50	417.3
1986 .....	54	3	3	14	69	293.0

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 567.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1985

[Excludes domestic fishing craft]

Harbor	Total inbound vessels	By type of vessel		
		Self propelled vessels		
		Passenger and dry cargo	Tanker	Towboat or tugboat
Hilo .....	748	64	1	274
Kawaihae .....	444	9	-	142
Kahului .....	1,085	58	5	388
Kaunakakai .....	685	-	-	293
Kalaupapa .....	5	-	-	1
Honolulu .....	8,604	4,472	34	1,743
Barbers Point .....	398	2	79	237
Nawiliwili .....	677	25	-	211
Port Allen .....	12	-	1	8

Harbor	By type of vessel -- con.		By draft	
	Non-self propelled vessels		18 feet and less	19 feet and more
	Dry cargo	Tanker		
Hilo .....	347	62	722	26
Kawaihae .....	287	6	431	13
Kahului .....	563	71	988	97
Kaunakakai .....	384	8	(1/)	(1/)
Kalaupapa .....	4	-	5	-
Honolulu .....	2,010	345	7,893	711
Barbers Point .....	35	45	319	79
Nawiliwili .....	409	32	670	7
Port Allen .....	2	1	(1/)	(1/)

1/ Not available. All vessels were 22 feet and less.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1985, Part 4 (1987), pp. 108-109.

Table 568.-- SHIP ARRIVALS AT THE PORT OF HONOLULU:  
1976 TO 1986

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1976 .....	1,386	11,700,000	2,733	2,064,320
1977 .....	1,589	12,568,896	2,700	2,249,446
1978 .....	1,651	12,676,469	1,981	1,947,893
1979 .....	1,757	12,101,936	2,875	2,838,609
1980 .....	1,963	10,483,989	2,338	2,572,778
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

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 569.-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND DEPARTURES, FOR HONOLULU HARBOR: 1982 TO 1987

[Fiscal years ended June 30]

Type of passenger	1982	1983	1984	1985	1986	1987
Overseas:						
In .....	7,150	9,559	9,492	5,337	6,537	8,681
Out .....	7,033	9,679	5,906	5,276	6,190	8,103
Interisland:						
In .....	26,553	35,529	58,571	72,665	84,943	71,049
Out .....	27,584	33,638	59,293	74,304	82,895	69,337

Source: Hawaii State Department of Transportation, Harbors Division, records.



Table 570.-- TRANSPACIFIC AND INTERISLAND SURFACE REVENUE PASSENGERS:  
1981 TO 1986

Year	Transpacific passengers <u>1/</u>			Inter-island passenger arrivals <u>2/</u>
	Disembarking	Embarking	Intransit	
1981 .....	614	510	9,847	33,108
1982 .....	542	461	6,785	39,057
1983 .....	741	740	8,419	56,073
1984 .....	726	361	6,692	78,443
1985 .....	1,360	1,479	3,249	69,864
1986 .....	828	370	6,189	80,127

1/ Data refer to years ended June 30 through 1983 and calendar years thereafter. Data limited to the Port of Honolulu.

2/ Calendar year statistics. Data exclude interisland travel by transpacific cruise ships.

Source: TheoDavies Marine Agencies, records, and American Hawaii Cruises, records.

Table 571.-- OVERSEAS AND INTERISLAND SHIPPING: 1979 TO 1984

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685
1980 ...	11,666,648	9,395,453	2,271,195	5,745,346	2,965,962	2,779,384
1981 ...	11,683,330	9,389,458	2,293,872	7,230,395	3,691,297	3,539,098
1982 ...	10,503,229	8,168,339	2,334,890	7,204,456	3,697,785	3,506,671
1983 ...	11,853,502	9,371,317	2,482,185	8,337,860	4,285,416	4,052,444
1984 ...	11,506,043	8,972,870	2,533,173	8,973,092	4,530,456	4,442,636

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 572.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS:  
1975 TO 1985

Subject and year	Hilo	Kawaihae	Kahului	Hono- lulu <u>1/</u>	Barbers Point	Nawiliwili
<b>FREIGHT TRAFFIC <u>2/</u> (SHORT TONS)</b>						
1975 .....	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976 .....	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977 .....	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978 .....	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
1979 .....	1,220,438	447,521	1,473,307	7,463,663	6,154,541	757,899
1980 .....	1,102,019	518,116	1,441,524	7,646,270	5,725,722	785,212
1981 .....	1,441,590	432,704	1,551,944	8,269,671	5,589,741	906,595
1982 .....	1,381,996	441,130	1,483,955	7,593,097	5,707,386	808,153
1983 .....	1,522,442	441,458	1,842,568	8,039,850	7,051,230	1,008,699
1984 .....	1,570,528	545,508	1,889,204	8,469,971	6,564,687	944,770
1985 .....	1,318,518	526,639	1,516,509	7,986,131	6,751,709	933,477
<b>PASSENGERS <u>3/</u></b>						
1975 .....	13,613	-	11,296	1,073,125	-	13,934
1976 .....	1,313	-	1,307	1,390,524	-	40,674
1977 .....	8,381	-	8,390	303,291	3,504	70,063
1978 .....	3,207	-	3,879	183,721	4,441	6,384
1979 .....	-	-	-	311,899	-	-
1980 .....	-	-	-	547,242	-	-
1981 .....	-	-	-	521,624	-	-
1982 .....	-	-	-	465,466	-	-
1983 .....	-	-	-	688,689	-	-
1984 .....	-	-	-	741,922	-	-
1985 .....	-	-	-	1,102,398	-	-

1/ For discussion of the accuracy of these data, see the Data Book 1982, table 441.

2/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

3/ 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 1985, Part 4 (1987), pp. 31-36.

Table 573.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1985

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Im-ports	Ex-ports	Re-ceipts	Ship-ments	Re-ceipts	Ship-ments
Hilo .....	1,318,518	44,993	15,016	19,012	178,230	682,401	378,866
Sugar .....	178,309	-	-	-	178,230	79	-
Fabricated metal products	328,461	-	-	-	-	158,374	170,087
Kawaihae .....	526,639	-	-	-	154,988	225,575	146,076
Sugar .....	154,988	-	-	-	154,988	-	-
Kahului .....	1,516,509	50,579	17,217	1,658	201,416	812,332	433,307
Sugar .....	203,106	-	4	-	201,416	-	1,686
Fabricated metal products	296,796	871	-	-	-	185,407	110,518
Motor vehicles, parts, equipment .....	166,603	1,148	-	-	-	114,837	50,618
Barbers Point .....	6,751,709	2,900,638	689,350	2,977,134	54,025	14,910	115,652
Crude petroleum .....	4,931,582	2,695,255	-	2,236,327	-	-	-
Residual fuel oil .....	1,507,685	130,281	641,601	645,837	37,888	14,910	37,168
Honolulu .....	7,986,133	721,505	130,162	2,364,983	871,978	1,464,204	2,313,332
Fresh fruits .....	261,901	1,272	227	15,008	78,420	165,409	1,565
Crude petroleum .....	520,650	260,498	-	260,152	-	-	-
Vegetables and prepara- tions, canned .....	180,006	3,366	137	86,167	5,850	60,338	24,148
Prep. fruit, veg. juice .	351,436	2,808	4,386	6,390	227,266	109,806	780
Sugar .....	160,982	-	613	871	157,772	1,664	62
Molasses .....	370,180	-	-	-	212,942	157,238	-
Alcoholic beverages .....	160,390	5,740	746	121,924	432	45	31,503
Misc. food products .....	252,909	4,791	2,948	31,999	3,292	107,695	102,184
Lumber .....	192,437	1,154	1,520	169,457	1,121	1,883	17,302
Gasoline .....	229,445	23,856	-	-	9,566	-	196,023

Continued on next page.

Table 573.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1985 - Con.

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total <u>1/</u>	Foreign		Interstate		Interisland	
		Im-ports	Ex-ports	Re-ceipts	Ship-ments	Re-ceipts	Ship-ments
Honolulu - Con.							
Residual fuel oil .....	192,889	-	-	-	-	28,508	44,412
Fabricated metal products	1,070,231	6,359	455	54,669	1,777	450,780	556,191
Motor vehicles, parts, equipment .....	631,053	49,521	185	76,511	31,078	118,328	355,430
Nawiliwili .....	933,477	10,016	2	8,176	218,453	444,579	252,251
Sugar .....	218,458	-	-	-	218,453	5	-
Fabricated metal products	243,702	-	-	-	-	125,697	118,005
Hana .....	-	-	-	-	-	-	-
Pearl .....	(NA)	(NA)	(NA)	-	17,490	1,444	41,976
Kalaupapa .....	1,590	-	-	-	-	1,263	327
Kaunakakai .....	154,325	-	-	-	-	97,149	57,176
Port Allen .....	18,580	(NA)	(NA)	-	-	11,454	-
Kaumalapau .....	(NA)	(NA)	(NA)	-	-	80,802	144,698

NA Not available.

1/ Includes internal receipts and local traffic, not separately shown. Internal receipts amounted to 49,753 tons, all residual fuel oil at Honolulu. Local traffic amounted to 70,216 tons, also all residual fuel oil at Honolulu.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1985, Part 4 (May 1987), pp. 31-38, and unpublished printouts.

## Section 19

# AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 2 (on nutrition), 6 (on land use), 12 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,600 farms in Hawaii in 1986, with a total area of 1.95 million acres. The value of crop sales in 1986 was \$481 million, or 81 percent higher than the total for 1976. Livestock sales amounted to \$83 million, or 34 percent more than the 1976 level. Combined crop and livestock sales in 1986 ranged from \$66 million in Kauai County to \$188 million on the Big Island. Major crops were sugar (\$234 million in sales, up 42 percent over the decade), pineapple (\$100 million, or 88 percent over the 1976 total), flowers and nursery products (\$49 million, or 315 percent more than in 1976), and macadamia nuts (\$35 million, up 402 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from \$48 million in 1976 to \$148 million in 1986, or approximately 209 percent. About 590 farms sold \$49 million of flowers and nursery products in 1986, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1986 included cattle (\$25 million in sales), milk (\$31 million), and eggs (\$13 million). In 1986, Hawaii produced 36 percent of the fresh market vegetables consumed locally, 28 percent of the fresh market fruits, 32 percent of the beef and veal, 19 percent of the chickens, and 86 percent of the eggs.

Aquaculture has been growing in importance in recent years, with an aggregate value rising from \$1,655,000 in 1980 to \$3.55 million in 1986. Freshwater prawn production amounted to 163,000 pounds in 1986, with a value of \$812,000.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Authorities confiscated \$1.05 billion worth of marijuana in 1986, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, most recently published for 1982, 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: 1987.



Table 575.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978

Subject	1982	1978
Farms by type of organization:		
Individual or family ..... number ....	3,852	3,614
acres .....	481,212	656,332
Partnership ..... number ....	351	326
acres .....	130,761	222,668
Corporation:		
Family held ..... number ....	272	233
acres .....	507,280	377,595
Other than family held ..... number ....	80	93
acres .....	492,941	595,644
Other -- cooperative, estate or trust, institutional, etc. number ....	40	44
acres .....	345,307	136,043
Tenure of operator:		
Full owners ..... farms .....	2,332	2,111
acres .....	328,728	281,019
Part owners ..... farms .....	794	713
acres .....	1,286,352	1,388,319
Owned land in farms ..... acres .....	537,945	603,654
Rented land in farms ..... acres .....	748,407	784,665
Tenants ..... farms .....	1,469	1,486
acres .....	342,421	318,944
Operators by principal occupation and residence:		
Farming <u>1</u> /.....	2,565	2,239
Residence on farm operated .....	1,629	1,287
Residence not on farm operated .....	657	516
Other than farming <u>1</u> /.....	2,030	2,071
Residence on farm operated .....	1,043	890
Residence not on farm operated .....	779	660
Average age of operators .....	52.7	52.7
Female operators:		
Farms ..... number ....	615	579
Land in farms ..... acres .....	129,674	132,173

Continued on next page.

Table 575.-- CHARACTERISTICS OF FARM OPERATORS:  
1982 AND 1978 -- Con.

Subject	1982	1978
Operators reporting days of work off farm:		
Any .....	2,534	2,495
100 days or more .....	2,024	1,878

1/ Components do not sum to category total because of non-reporting.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984), table 2, and 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 5 and 46.

Table 576.-- MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD, BY COUNTIES:  
1982 AND 1978

Year	State total	Hawaii	Honolulu	Kauai	Maui
Total sales (\$1,000):					
1982 .....	558,608	206,427	144,028	70,957	137,196
1978 .....	419,251	148,399	118,608	48,679	103,564
Sales per farm (dollars):					
1982 .....	121,569	81,302	147,570	173,066	204,771
1978 .....	97,274	65,490	112,639	131,920	166,502

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 2, table 3.



Table 577.-- FARMS, LAND IN FARMS, AND LAND USE, FOR COUNTIES: 1982

Subject	Hawaii	Hono- lulu	Kauai	Maui <u>1/</u>
Farms ..... number ..	2,539	976	410	670
Land in farms ..... acres ..	1,172,448	125,932	255,981	403,140
Average size of farm ..... acres ..	462	129	624	602
Value of land and buildings:				
Average per farm ..... dollars	639,822	389,732	1,833,704	1,225,224
Average per acre ..... dollars	1,385	3,017	2,930	2,036
Farms by size:				
1 to 9 acres .....	1,468	768	191	316
10 to 49 acres .....	746	141	136	238
50 to 179 acres .....	178	27	51	64
180 to 499 acres .....	68	17	16	25
500 to 999 acres .....	21	8	1	3
1,000 to 1,999 acres .....	13	8	7	5
2,000 acres or more .....	45	7	8	19
Land in farms according to use:				
Total cropland ..... farms ..	2,286	757	286	507
..... acres ..	135,796	50,614	51,868	107,835
Harvested cropland ..... farms ..	2,123	732	240	443
..... acres ..	59,629	(D)	24,039	(D)
Cropland used only for pasture or grazing .... farms ..	195	32	77	96
..... acres ..	17,438	(D)	2,670	(D)
Other cropland ..... farms ..	514	142	78	121
..... acres ..	58,729	22,696	25,159	50,012
Woodland, including woodland pastured ..... farms ..	80	22	13	33
..... acres ..	80,103	20,366	1,636	15,165
Pastureland and rangeland other than cropland and woodland pastured ..... farms ..	339	84	145	175
..... acres ..	788,077	27,873	108,759	208,140
Land in house lots, ponds, roads, wasteland, etc. .. farms ..	1,109	475	251	392
..... acres ..	168,472	27,079	93,718	72,000
Irrigated land ..... acres ..	11,870	36,131	34,414	63,567

D Withheld to avoid disclosing data for individual farms.

1/ Includes Kalawao (no farms in 1982).

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 2, tables 1, 2, and 4.

Table 578.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT:  
1970 TO 1986

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	1,960	2,500	1,500	13,000
1984 .....	4,600	1,950	2,200	1,300	11,800
1985 <u>4/</u> ....	4,400	1,950	2,200	1,200	10,600
1986 .....	4,200	1,950	2,050	1,200	9,700

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.

4/ Revised from Data Book 1986, table 552.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 579.-- VALUE OF CROP AND LIVESTOCK SALES: 1970 TO 1986

[\$1,000]

Year	All crops and livestock	Crops				Live-stock
		All crops	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	
1970 .....	213,667	172,019	110,600	39,500	21,919	41,648
1971 .....	221,692	178,639	115,800	40,300	22,539	43,053
1972 .....	232,497	186,255	117,300	43,900	25,055	46,242
1973 .....	265,771	210,502	141,900	39,600	29,002	55,269
1974 .....	575,432	517,523	442,300	40,259	34,964	57,909
1975 .....	377,575	319,304	237,000	41,616	40,688	58,271
1976 .....	327,820	265,498	164,700	52,983	47,815	62,322
1977 .....	325,182	260,164	144,200	62,249	53,715	65,018
1978 .....	380,655	308,098	182,700	63,090	62,308	72,557
1979 .....	441,253	362,789	217,600	69,409	75,780	78,464
1980 .....	634,101	552,877	385,100	76,596	91,181	81,224
1981 .....	489,502	401,348	207,500	89,745	104,103	88,154
1982 .....	507,268	428,860	230,800	94,364	103,696	78,408
1983 .....	568,422	481,934	266,900	100,376	114,658	86,488
1984 <sup>1/</sup> ...	550,517	463,502	256,200	89,928	117,374	87,015
1985 <sup>1/</sup> ...	528,349	445,526	222,400	90,530	132,596	82,823
1986 .....	564,683	481,254	233,800	99,720	147,734	83,429

<sup>1/</sup> Revised from Data Book 1986, table 553.Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 580.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1976, 1985, AND 1986

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:					
1976 .....	4,000	2,100	2,890	1,560	11,240
1985 <u>4/</u> .....	4,400	1,950	2,200	1,200	10,600
1986 .....	4,200	1,950	2,050	1,200	9,700
Hawaii County:					
1976 .....	2,300	1,255	1,590	740	3,400
1985 <u>4/</u> .....	2,550	1,140	1,400	800	3,500
1986 .....	2,425	1,140	1,350	800	3,100
Maui County:					
1976 .....	500	435	330	180	3,370
1985 .....	550	420	250	150	2,950
1986 .....	525	420	200	100	2,800
Oahu:					
1976 .....	900	130	700	530	2,830
1985 <u>4/</u> .....	925	120	450	250	2,750
1986 .....	900	120	350	250	2,500
Kauai County:					
1976 .....	300	280	260	110	1,630
1985 .....	375	275	150	50	1,300
1986 .....	350	275	150	50	1,250

1/ Based on farm definition of \$1,000 or more of agricultural sales.

2/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

3/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

4/ Revised from Data Book 1986, table 554.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 581.-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES  
OR ISLANDS: 1976, 1985, AND 1986

[\$1,000]

County and year	All crops and livestock	Crops				Live- stock
		All crops	Sugar (unpro- cessed cane)	Pine- apples (fresh equiv.)	Other crops	
State total:						
1976 .....	327,820	265,498	164,700	52,983	47,815	62,322
1985 <u>1/</u> ...	528,349	445,526	222,400	90,530	132,126	82,823
1986 .....	564,683	481,254	233,800	99,720	147,734	83,429
Hawaii County:						
1976 .....	102,386	86,561	60,800	-	25,761	15,825
1985 <u>1/</u> .....	171,582	149,460	69,800	-	79,155	22,122
1986 .....	188,017	165,931	74,100	-	91,831	22,086
Maui County:						
1976 .....	87,803	79,374	41,300	30,309	7,765	8,429
1985 .....	131,464	119,249	63,600	36,380	19,309	12,215
1986 .....	144,242	132,536	67,500	45,540	19,496	11,706
Oahu:						
1976 .....	98,457	63,372	28,700	22,674	11,998	35,085
1985 .....	160,678	117,263	35,700	54,150	27,363	43,415
1986 .....	166,689	122,256	38,200	54,180	29,876	44,433
Kauai County:						
1976 .....	39,174	36,191	33,900	-	2,291	2,983
1985 <u>1/</u> .....	64,625	59,554	53,300	( <u>2/</u> )	6,299	5,071
1986 .....	65,735	60,531	54,000	( <u>2/</u> )	6,531	5,204

1/ Revised from Data Book 1986, table 555.

2/ Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 582.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1976, 1985, AND 1986

Subject	1976	1985 <sup>1/</sup>	1986
Acreage in crop (1,000 acres):			
Sugarcane .....	221.6	187.9	184.3
Pineapples (land used for pineapple) .....	48.0	34.5	36.0
Vegetables and melons (harvested acreage) ..	3.6	5.4	5.4
Fruits, excluding pineapples .....	5.0	6.5	6.8
Coffee .....	2.4	2.1	2.3
Macadamia nuts .....	10.3	20.0	21.3
Miscellaneous crops .....	5.1	8.6	5.1
Number of crop farms:			
Sugar .....	520	155	120
Pineapples .....	16	18	18
Vegetables and melons .....	523	715	750
Fruits (excluding pineapples) .....	628	805	793
Coffee .....	780	620	620
Macadamia nuts .....	455	610	645
Taro .....	124	155	140
Flowers and nursery products .....	500	670	590
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons) .....	9,173	7,916	8,379
Pineapples, fresh equivalent (1,000 tons) ..	680	565	646
Vegetables and melons (1,000 lb.) .....	63,460	89,620	91,950
Fruits, excluding pineapples (1,000 lb.) ...	65,620	80,980	90,610
Coffee, parchment (1,000 lb.) .....	2,120	1,850	2,900
Macadamia nuts, in shell (1,000 lb.) .....	18,990	42,000	44,000
Taro (1,000 lb.) .....	7,350	6,860	6,330
Value of crop sales (\$1,000):			
Sugar (unprocessed cane) .....	164,700	222,400	233,800
Pineapples (fresh equivalent) .....	52,983	90,530	99,720
Vegetables and melons .....	12,230	30,034	29,877
Fruits (excluding pineapples) .....	7,966	12,794	16,606
Coffee (parchment) .....	3,922	5,180	8,700
Macadamia nuts (in shell) .....	7,007	30,450	35,200
Taro .....	889	1,578	1,462
Field crops (not estimated separately) .....	3,843	8,198	6,595
Flowers and nursery products .....	11,828	44,162	49,094
Forest products .....	130	(NA)	(NA)

NA Not available.

<sup>1/</sup> Revised from Data Book 1986, table 556.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 583.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1986

Subject	Hawaii County	Maui County	Oahu	Kauai County
<b>Acreege in crop (1,000 acres):</b>				
Sugarcane .....	69.1	46.1	25.9	43.2
Pineapples (land used for pineapple) .....	-	24.0	12.0	(1/)
Vegetables and melons (harvested acreage)	1.9	2.0	1.4	0.1
Fruits, excluding pineapples .....	5.2	0.1	0.7	0.8
Coffee .....	2.3	-	-	-
Macadamia nuts .....	19.4	(D)	(D)	(D)
Miscellaneous crops .....	2.6	1.3	0.7	0.5
<b>Number of crop farms:</b>				
Sugar .....	109	3	3	5
Pineapples .....	-	13	2	3
Vegetables and melons .....	400	85	217	48
Fruits (excluding pineapples) .....	531	47	137	78
Coffee .....	620	-	-	-
Macadamia nuts .....	630	7	3	5
Taro .....	65	20	5	50
Flowers and nursery products .....	275	75	215	25
<b>Volume of crop marketings:</b>				
Sugar, unprocessed cane (1,000 tons) .....	2,797	2,251	1,354	1,977
Pineapples, fresh equivalent (1,000 tons)	-	415	231	(2/)
Vegetables and melons (1,000 lb.) .....	33,350	40,580	16,370	1,650
Fruits, excluding pineapples (1,000 lb.) .	68,110	1,340	6,560	14,600
Coffee, parchment (1,000 lb.) .....	2,900	-	-	-
Macadamia nuts, in shell (1,000 lb.) .....	43,350	(D)	(D)	(D)
Taro (1,000 lb.) .....	840	(D)	(D)	4,490
<b>Value of crop sales (\$1,000):</b>				
Sugar (unprocessed cane) .....	74,100	67,500	38,200	54,000
Pineapples (fresh equivalent) .....	-	45,540	54,180	(3/)
Vegetables and melons .....	11,965	9,788	7,519	605
Fruits (excluding pineapples) .....	12,381	311	1,802	2,112
Coffee (parchment) .....	8,700	-	-	-
Macadamia nuts (in shell) .....	34,680	(D)	(D)	(D)
Taro .....	236	(D)	(D)	1,010
Field crops (not estimated separately) ...	909	3,539	499	1,648
Flowers and nursery products .....	22,775	5,191	19,994	1,134

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 1986, pp. 3, 4, 6, 8, and 9.

Table 584.-- VEGETABLES, MELONS, FRUITS, NUTS, COFFEE, AND TARO: 1986

[Data shown for crops with sales in excess of \$500,000]

Crop	Acreage harvested <sup>1/</sup>	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Vegetables and melons:					
Snap beans .....	130	7.5	980	77.2	757
Chinese cabbage .....	350	20.6	7,200	14.2	1,022
Mustard Cabbage .....	140	11.4	1,600	34.1	546
Head cabbage .....	490	28.6	14,000	15.5	2,170
Celery .....	100	26.8	2,680	21.5	576
Cucumbers .....	220	16.9	3,720	31.8	1,183
Daikon .....	260	15.0	3,900	17.6	686
Eggplant .....	55	23.6	1,300	49.7	646
Ginger root .....	145	40.7	5,900	81.0	4,779
Lettuce (head, semi-head)	620	14.0	8,700	27.2	2,366
Dry onions .....	140	10.6	1,480	73.9	1,094
Green peppers .....	190	10.8	2,050	43.6	894
Romaine .....	160	14.4	2,300	25.2	580
Sweet potatoes .....	210	10.0	2,100	27.1	569
Tomatoes .....	240	28.0	6,700	41.0	2,747
Watermelons .....	620	23.1	14,300	12.6	1,802
Green onions .....	190	7.6	1,440	81.3	1,171
Watercress .....	30	...	1,300	83.6	1,087
Fruits:					
Bananas .....	980	9.9	9,700	30.0	2,910
Guavas .....	690	...	16,560	10.5	1,739
Papayas .....	2,355	25.9	61,000	18.2	11,123
Macadamia nuts (1986-1987)	14,400	3.1	44,000	80.0	35,200
Coffee (1986-1987) .....	2,000	1.5	2,900	300.0	8,700
Taro .....	390	...	6,330	23.1	1,462

<sup>1/</sup> Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, pp. 29-68.



Table 585.-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:  
1972 TO 1986

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 .....	180,301	90,884	20,018	69,399

Source: Hawaiian Sugar Planters' Association, Hawaiian Sugar Manual 1985/86 (1986), pp. 10-11; Alexander & Baldwin, Inc., "Water to the Roots," Ampersand, Spring 1987, pp. 3-6.

Table 586.-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU,  
BY SOURCE: 1984 TO 1986

[1,000 pounds, net]

Source	1984	1985	1986
Total arrivals .....	265,998	275,623	291,212
From Hawaii .....	102,323	101,080	103,793
Oahu <u>1/</u> .....	47,331	44,260	44,582
Other islands <u>2/</u> .....	54,992	56,820	59,211
Hawaii <u>2/</u> .....	30,488	29,188	27,932
Maui <u>2/</u> .....	15,089	15,949	15,512
Molokai <u>2/</u> .....	6,268	8,654	13,295
Kauai <u>2/</u> .....	3,147	3,029	2,472
From U.S. Mainland <u>2/</u> .....	158,368	165,833	179,647
From foreign countries <u>2/</u> .....	5,307	8,710	7,772

1/ Wholesalers' truck receipts.

2/ Ship and plane arrivals.

Source: Hawaii State Department of Agriculture, Market News Service, Honolulu Arrivals, Fresh Fruits and Vegetables, 1986 (April 1987), table 1.

Table 587.--FEED INSHIPMENTS FROM ALL SOURCES: 1982 TO 1986

[1,000 tons]

Commodity	1982	1983	1984	1985	1986
Total feed .....	167.8	193.0	191.6	170.2	141.4
Feed grains .....	67.5	89.8	88.4	78.4	68.4
Mixed feeds .....	25.0	24.5	21.8	18.5	14.5
Alfalfa products .....	26.1	30.2	32.3	24.1	19.5
Protein foods .....	29.9	26.5	29.6	28.6	25.4
Other feed stuff .....	19.3	21.9	19.5	20.6	13.6

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, p. 92.

Table 588.-- LIVESTOCK INVENTORY, 1976, 1985, AND 1986, AND BY GEOGRAPHIC AREAS, 1986

[In thousands]

Year and geographic area	All cattle and calves <u>1/</u>	Milk cows <u>2/</u>	Hogs and pigs <u>3/</u>	Chickens (excluding broilers) <u>3/</u>	Bee colonies
1976 .....	245	13	60	1,254	7
1985 .....	209	11	55	1,210	9
1986 .....	195	12	50	1,185	9
GEOGRAPHIC AREAS: 1986					
Hawaii County .....	121.2	1.6	4.9	206	(NA)
Maui .....	28.5	1.0	9.2	(4/)	(NA)
Molokai and Lanai .....	-	-	0.7	(4/)	(NA)
Oahu .....	31.2	8.6	30.4	979	(NA)
Kauai County .....	14.1	0.5	4.8	(4/)	(NA)

NA Not available.

1/ As of following January 1.

2/ As of January 1.

3/ As of December 1.

4/ Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 589.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,  
AND VALUE OF LIVESTOCK SALES: 1976, 1985, AND 1986

Subject	1976	1985 <sup>1/</sup>	1986
Number of livestock operations, Dec. 31:			
Cattle <sup>2/</sup> .....	900	850	800
Hogs .....	640	650	600
Milk .....	80	90	90
Eggs .....	70	55	55
Broilers .....	11	7	8
Honey .....	22	22	20
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) <sup>3/</sup> .....	32,320	33,764	33,764
Pork (dressed weight; 1,000 lb.) .....	7,781	7,859	8,643
Milk (million lb.) .....	145.8	139.8	153.1
Eggs (million) .....	218	220.5	227.0
Broilers and chickens (1,000 lb.) <sup>4/</sup> .....	6,121	7,706	7,629
Honey (1,000 lb.) .....	714	1,184	1,323
Value of livestock sales (\$1,000):			
Cattle <sup>5/</sup> .....	18,511	26,632	24,645
Hogs <sup>5/</sup> .....	6,670	7,995	8,770
Milk .....	21,943	28,310	30,605
Eggs .....	11,808	14,020	13,450
Broilers and chickens .....	2,977	4,895	4,744
Other <sup>6/</sup> .....	413	971	1,215

<sup>1/</sup> Revised from Data Book 1986, table 562.

<sup>2/</sup> As of January 1; includes beef, dairy, and dairy replacement farms.

<sup>3/</sup> Includes slaughter cattle, but excludes calves shipped out-of-State.

<sup>4/</sup> Ready-to-cook weight.

<sup>5/</sup> Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

<sup>6/</sup> Includes sheep, wool, turkeys, horses, honey, and beeswax.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 590.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS,  
AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1986

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle <u>1/</u> .....	365	200	75	160
Hogs .....	80	100	310	110
Milk .....	41	16	20	13
Eggs .....	25	7	19	4
Broilers .....	-	-	7	1
Honey .....	6	4	3	7
Volume of livestock marketings:				
Beef <u>2/</u> (dressed weight; 1,000 lb.) .....	22,500	8,175	989	2,099
Pork (dressed weight; 1,000 lb.) .....	748	1,798	5,107	990
Milk (million lb.) .....	(D)	(D)	116.5	(D)
Eggs (million) .....	(D)	(D)	189.7	(D)
Broilers and chickens <u>3/</u> (1,000 lb.) .....	(D)	(D)	(D)	(D)
Honey (1,000 lb.) .....	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):				
Cattle <u>4/</u> .....	16,385	5,926	600	1,734
Hogs <u>4/</u> .....	778	1,918	5,005	1,069
Milk .....	(D)	(D)	23,358	(D)
Eggs .....	(D)	(D)	11,022	(D)
Broilers and chickens .....	(D)	(D)	(D)	(D)
Other <u>5/</u> .....	846	136	42	191

D Withheld to avoid disclosure of individual operations.

1/ As of January 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 1986, pp. 5, 7, and 10.

Table 591.-- FLOWERS AND NURSERY PRODUCTS, 1983 TO 1986, AND BY ISLANDS, 1986

Island and year	Number of farms	Area					Value of sales (\$1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1983 .....	680	1,786	2,327	26,329	106	1,022	36,165
1984 .....	670	1,715	2,414	26,817	92	959	38,905
1985 <u>1/</u> ....	670	1,761	2,836	29,643	91	924	44,162
1986 .....	590	(NA)	(NA)	(NA)	(NA)	(NA)	49,094
Islands, 1986: <u>2/</u>							
Hawaii .....	275	966	1,439	19,087	82	413	22,775
Kauai .....	25	37	12	244	5	26	1,134
Maui .....	75	296	307	1,286	-	259	5,191
Oahu .....	215	462	1,078	9,026	4	226	19,994

NA Not available.

1/ Revised from Data Book 1986, table 564.

2/ Area data are for 1985.

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (August 6, 1986 and July 24, 1987).

Table 592.-- VALUE OF SALES, TOTAL AND OUT-OF-STATE, FOR FLOWERS AND NURSERY PRODUCTS: 1982 TO 1986

[\$1,000]

Subject	1982	1983	1984	1985 <u>1/</u>	1986
Total sales .....	30,600	36,165	38,905	44,162	49,094
Anthuriums, cut .....	5,633	6,035	7,351	7,645	9,878
Out-of-State sales .....	17,909	22,000	21,610	24,284	28,136
Anthuriums, cut .....	6,370	7,005	7,050	7,581	8,653

1/ Revised from Data Book 1986, table 565.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, pp. 20 and 28.

Table 593.-- FLOWERS AND NURSERY PRODUCTS, BY COMMODITY: 1986

[Shown for commodities with value of sales over \$500,000]

Commodity	Number of farms	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums .....	175	1,000 dozens	2,335	9,878
Roses, tea .....	9	1,000 dozens	548	1,972
Protea .....	18	1,000 stems	983	656
Chrysanthemums, pompon .....	14	1,000 bunches	353	547
Orchids:				
Cut: Dendrobium sprays .....	60	1,000 dozens	314	2,115
Potted: Dendrobiums .....	52	1,000 pots	235	1,430
Lei flowers:				
Carnations .....	19	Million blooms	25.3	935
Vanda, Miss Joaquim .....	21	Million blooms	26.1	899
Tuberose .....	6	Million blooms	38.0	1,075
Ornamentals and trees .....	34	...	(NA)	628
Foliage:				
Potted, primarily for --				
Indoor or patio use .....	73	...	(NA)	12,931
Landscape use .....	35	...	(NA)	2,215
Unfinished stock (for further growing on) .....	25	...	(NA)	2,031
Potted flowering plants:				
Chrysanthemums .....	13	1,000 pots	289	835
Poinsettias .....	29		204	685

NA Not available.

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (July 24, 1987).

Table 594.-- MARKET SUPPLY OF SPECIFIED FOODS: 1976, 1985, AND 1986

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:					
1976 .....	69,533	49,779	19,754	71.7	28.4
1985 <u>3/</u> .....	94,513	68,083	26,430	82.2	28.0
1986 .....	100,253	72,253	28,000	85.1	27.9
Fresh market melons:					
1976 .....	10,801	9,221	1,580	11.1	14.6
1985 .....	21,964	13,164	8,800	19.1	40.1
1986 .....	27,170	12,855	14,315	23.1	52.7
Fresh market vegetables:					
1976 .....	145,178	85,173	60,005	149.6	41.3
1985 <u>3/</u> .....	201,122	121,602	79,520	174.9	39.5
1986 .....	210,249	134,084	76,165	178.5	36.2
Beef and veal: <u>4/</u>					
1976 .....	92,573	60,253	32,320	95.4	34.9
1985 <u>3/</u> .....	105,084	71,156	33,928	91.4	32.3
1986 .....	107,197	73,433	33,764	91.0	31.5
Pork: <u>4/</u>					
1976 .....	31,072	23,291	7,781	32.0	25.0
1985 <u>3/</u> .....	37,927	30,068	7,859	33.0	20.7
1986 .....	38,362	29,719	8,643	32.6	22.5
Chickens:					
1976 .....	27,137	21,016	6,121	28.0	22.6
1985 .....	39,011	31,305	7,706	33.9	19.8
1986 .....	39,982	32,353	7,629	33.9	19.1
Eggs:					
1976 .....	19,596	1,396	18,200	20.2	92.9
1985 .....	22,217	3,842	18,375	19.3	82.7
1986 .....	21,983	3,066	18,917	18.7	86.0

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population estimates in DBED Statistical Report 201.

3/ Revised from Data Book 1986, table 567.

4/ Carcass weight equivalent.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).



Table 595.-- 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 .....	-	-	-	-	-	-	-
CUMULATIVE							
90 or more ....	66	-	17	3	7	39	-
80 or more ....	203	17	56	14	23	72	20
70 or more ....	392	112	76	15	29	99	61
60 or more ....	604	237	112	16	38	121	80
50 or more ....	825	350	176	19	48	133	99
40 or more ....	1,134	577	216	25	58	151	106
30 or more ....	1,738	1,121	245	26	61	162	122
20 or more ....	2,230	1,402	300	75	112	192	149

Z Less than 500 acres.

Source: Land Evaluation and Site Assessment Commission, A Progress Report of the State of Hawaii Land Evaluation and Site Assessment System to the Thirteenth Legislature, State of Hawaii (March 1985), p. 29, and A Report on the State of Hawaii Land Evaluation and Site Assessment System (February 1986), Exhibit A.

Table 596. -- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER AND LIME:  
1982 AND 1978

Chemicals used	1982	1978
Any chemicals, fertilizer, or lime used .....	farms 3,532	3,568
Commercial fertilizer .....	farms 3,158	3,172
acres on which used	228,984	284,452
\$1,000	33,477	26,530
Lime .....	farms 525	525
acres on which used	9,547	12,488
tons	10,423	12,011
Other agricultural chemicals <u>1/</u> .....	farms 3,084	3,277
\$1,000	16,417	13,700
Sprays, dusts, granules, fumigants, etc., to control --		
Insects on hay and other crops .....	farms 1,702	1,204
acres on which used	45,671	28,787
Nematodes in crops .....	farms 654	441
acres on which used	9,638	9,806
Diseases in crops and orchards .....	farms 1,067	912
acres on which used	18,085	12,310
Weeds, grass, or brush in crops and pasture	farms 2,385	2,325
acres on which used	213,551	269,801
Chemicals used for defoliation or for growth control of crops or thinning of fruit .....	farms 165	160
acres on which used	50,455	57,280

1/ Data for 1978 include the cost of lime which was not collected in 1982.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chap. 1, table 16.

Table 597.-- FERTILIZER CONSUMPTION BY TYPE: 1982 TO 1985

[In tons. For years ended June 30. This survey was discontinued after 1985]

Year	Total	Mixtures <u>1/</u>	Direct application materials	
			Primary nutrient <u>2/</u>	Secondary and micro-nutrient
1982 .....	156,439	100,797	54,627	1,015
1983 .....	138,343	97,360	40,114	869
1984 .....	128,348	83,544	44,108	696
1985 .....	151,955	94,659	56,309	987

1/ Fertilizers having various combinations of primary nutrients.

2/ The primary nutrients are nitrogen, phosphate, and potash.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1986, p. 95.

Table 598.-- SALES OF AQUACULTURAL PRODUCTS, BY ISLANDS: 1982 AND 1986

Subject	State total		Oahu		Other islands	
	1982	1986	1982	1986	1982	1986
Number of farms .....	13	20	9	23	4	21
Water surface area (acres) ...	189	444	155	330	34	114
Sales (\$1,000) .....	884	3,549	755	2,798	129	752

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, AC82-A-11 (September 1984), Chapter 2, table 21; Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, October 26, 1987.

Table 599.-- NUMBER OF AQUACULTURE INDUSTRY OPERATIONS,  
BY COUNTIES: 1981 TO 1986

[As of December 31]

County	1981	1982	1983	1984	1985	1986
ALL AQUACULTURE IN- DUSTRY OPERATIONS						
State total .....	41	44	42	47	48	44
Hawaii .....	6	8	8	14	12	12
Maui .....	6	5	5	5	6	4
Honolulu .....	24	25	24	23	24	23
Kauai .....	5	6	5	5	6	5
PRAWN PRODUCERS						
State total .....	21	22	21	17	20	20
Hawaii .....	4	4	3	3	5	3
Maui .....	1	1	1	1	-	1
Honolulu .....	13	13	13	10	11	13
Kauai .....	3	4	4	3	4	3

Source: Hawaii State Department of Land and Natural Resources,  
Aquaculture Development Program, October 26, 1987.

Table 600.-- AQUACULTURE ACREAGE, PRODUCTION, AND VALUE, BY  
TYPE AND COUNTIES: 1983 TO 1986

Subject and year	State total	Type		County			
		Fresh-water prawns	Other species <u>1/</u>	Hawaii	Maui	Hono-lulu	Kauai
<b>Acreage: <u>2/</u></b>							
1983 .....	496	239	257	34	40	378	44
1984 .....	474	246	228	45	26	369	34
1985 .....	465	219	246	54	43	333	35
1986 .....	444	125	319	43	36	330	35
<b>Production: <u>3/</u></b>							
1983 .....	344.9	268.5	76.4	22.9	15.7	274.8	31.5
1984 .....	441.2	317.8	123.4	36.9	26.5	332.2	45.6
1985 .....	582.9	283.3	299.6	33.4	29.5	485.4	34.6
1986 .....	1,014.7	162.7	852.0	50.5	32.8	892.6	38.8
<b>Value: <u>4/</u></b>							
1983 .....	1,604.8	1,347.3	257.5	90.8	46.6	1,302.9	164.5
1984 .....	2,299.7	1,706.6	593.1	126.5	97.4	1,831.0	244.8
1985 .....	2,780.5	1,550.6	1,229.9	196.5	134.9	2,255.2	193.9
1986 .....	3,549.4	812.3	2,737.1	398.2	143.2	2,797.6	210.4

1/ Juvenile freshwater prawns, marine shrimp, oysters, brine shrimp, carp and Chinese catfish, catfish, koi, tilapia, tropical fish and aquarium plants, trout, abalone, ogo and microalgae.

2/ As of December 31.

3/ In thousands of pounds. Excludes items not sold by weight: post-larvae, brine shrimp, koi, tropical fish, and aquarium plants.

4/ In thousands of dollars.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, October 26, 1987.

## Section 20

# FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial timberland in the State, most of it on the Big Island. Over 46,000 acres had been planted in eucalyptus and other species of trees by mid-1986. Forest products harvested in 1977 had a value of \$3.5 million, including \$2.3 million from logs for fiber. Forest and brushland fires burned 40 square miles in fiscal 1986.

The commercial fish catch in fiscal year 1986 amounted to 9.5 million pounds and had a value of \$19 million. Ahi (yellowfin) and aku (skipjack) accounted for one-third of the total value. Other important species are lobster, opakapaka, mahimahi, and ono. Commercial fishermen numbered 2,880. The charter fishing fleet made 16,700 passenger trips in 1983, chiefly serving visitors. Their average catch per full-day trip was 0.6 fish per patron.

The value of mineral production reached \$68 million in 1986, most of it in cement (\$24 million) and stone (\$42 million). The 1986 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: 1987, Sections 24, 25 and 26.

Table 601.-- FOREST ACREAGE, BY ISLANDS: 1970-1986

Island	Conservation district forest land, 1986		Forest land, 1970		Planted forest, June 30, 1986	
	Forest reserve land <u>1/</u>	Private forest land <u>2/</u>	Commer- cial <u>3/</u>	Noncommer- cial <u>4/</u>	Planted in preced- ing year	Total standing
State total	840,540	327,845	947,800	1,038,600	463	46,700
Hawaii .....	585,000	106,745	569,400	583,100	404	18,099
Maui .....	93,320	53,180	67,500	172,300	52	11,682
Kahoolawe .....	-	-	-	15,800	-	-
Lanai .....	-	6,150	4,500	39,400	-	512
Molokai .....	44,290	-	34,000	44,100	-	3,205
Oahu .....	29,810	87,920	126,500	78,800	3	7,039
Kauai .....	88,120	73,850	145,900	74,000	4	6,163
Niihau .....	-	-	-	31,100	-	-
Other islands ..	-	-	-	-	-	-

1/ State owned and privately owned lands under surrender agreement in forest reserve system as of June 30, 1986.

2/ Private forest land within conservation district as of June 30, 1986. Majority of these lands were previously in the forest reserve system.

3/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

4/ Unproductive or productive-reserved.

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

Table 602.-- LAND AREA, BY VEGETATION TYPE AND FOREST RESERVE STATUS, FOR MOLOKAI, OAHU, AND KAUAI: 1986

[In acres. Excludes land in forest plantations]

Vegetation type	Molokai		Oahu		Kauai	
	Total	Forest reserve	Total	Forest reserve	Total	Forest reserve
Total, all types	163,214	44,288	370,002	34,931	347,088	88,127
Tree type:						
Ohia lehua .....	32,833	30,161	37,563	9,524	109,040	50,702
Koa .....	-	-	28,548	6,601	13,438	6,223
Kukui .....	4,773	4,009	2,775	617	7,634	2,029
Kiawe .....	33,215	-	17,354	241	10,358	116
Eucalyptus .....	1,527	954	1,131	411	3,157	1,288
Guava .....	5,918	4,200	10,287	1,421	12,143	3,099
Other trees .....	2,673	573	36,700	6,776	32,763	6,043
Shrub type .....	16,417	1,527	33,974	2,965	36,061	7,189
Forb type .....	191	-	11,338	2,718	4,120	2,043
Grassland .....	38,751	764	45,102	3,261	34,168	5,198
Cultivated land .....	18,325	-	55,770	-	64,741	387
No vegetation .....	3,819	-	822	-	6,709	3,810
Urban and other .....	4,772	2,100	88,638	396	12,756	-

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, multi-resource inventory reports.



Table 603.-- COMMERCIAL TIMBERLAND OWNERSHIP AND VOLUME OF  
SAWTIMBER AND GROWING STOCK: 1977

Subject	Amount
Commercial timberland (1,000 acres) .....	948
Federally owned or managed .....	12
State or county .....	442
Private .....	494
Sawtimber net volume (million board feet) .....	1,047
Softwood only .....	17
Growing stock, net volume (million cubic feet) .....	202
Softwood only .....	4

Source: U. S. Forest Service study cited in Statistical Abstract of the United States: 1987, p. 655.

Table 604.-- FOREST AND BRUSHLAND FIRES, BY COUNTIES: 1985 AND 1986  
[Years ended June 30]

Subject	State total	Counties			
		Hawaii	Maui	Hono- lulu	Kauai
Number of fires:					
1985 .....	218	75	98	32	13
1986 .....	140	73	32	22	13
Acres burned:					
1985 .....	3,657	280	3,073	195	109
1986 .....	25,329	25,246	17	58	8

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

Table 605.-- COMMERCIAL FISHING: 1963 TO 1986

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch <u>1/</u>		
		Pounds caught	Pounds sold	Value to primary producers (dollars)
1963 ....	808	10,685,604	10,629,701	2,539,189
1964 ....	805	12,013,869	11,970,398	2,732,125
1965 ....	717	17,105,515	17,053,925	3,340,651
1966 ....	715	15,985,626	15,924,854	3,318,803
1967 ....	801	12,344,555	12,274,531	3,146,177
1968 ....	760	12,828,387	12,740,307	3,253,538
1969 ....	1,028	10,065,623	9,974,455	2,798,424
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

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catch, but excludes coral harvests. Particularly for years since 1979, data may be incomplete due to unreported aku (skipjack tuna) boat and flagline 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 606.-- COMMERCIAL FISH CATCH, BY SPECIES: 1986

[Year ended June 30, 1986]

Species <u>1/</u>	Pounds caught	Pounds sold	Value (dollars)
Total catch .....	9,528,785	9,104,696	18,576,881
Sea catch, all species <u>2/</u> .....	9,503,294	9,079,945	18,531,701
Aku (Skipjack) .....	2,183,960	2,105,930	2,168,048
Ahi (Yellowfin) .....	2,895,654	2,766,727	4,017,853
Ahi (Bigeye) .....	265,980	263,372	565,567
Striped marlin .....	87,345	84,490	111,729
Pacific blue marlin .....	371,737	341,649	343,930
Mahimahi .....	400,197	376,504	1,105,089
Ono .....	415,571	392,074	1,001,127
Hapuupuu .....	93,201	92,450	154,651
Opakapaka .....	286,083	274,308	880,311
Uku .....	69,325	66,045	196,724
Ehu .....	71,744	68,054	194,058
Onaga .....	223,447	216,226	790,438
Akule .....	230,307	216,230	364,594
Opelu .....	244,515	232,088	399,951
Uu .....	44,729	42,497	101,652
Lobster .....	396,960	394,009	3,040,278
Slipper lobster .....	325,155	321,854	1,811,419
Pond catch, all species .....	25,491	24,751	45,180

1/ Shown separately for all species over 100,000 lb. or \$100,000.

2/ Including species not shown separately.

Source follows next table.

Table 607.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1986

[Year ended June 30, 1986]

Island	Pounds caught	Pounds sold	Value (dollars)
State total .....	9,528,785	9,104,696	18,576,881
Hawaii .....	2,644,335	2,550,256	3,830,814
Maui .....	937,785	856,889	1,531,354
Lanai .....	19,793	16,373	25,280
Molokai .....	49,677	42,375	103,086
Oahu .....	4,979,633	4,846,666	11,644,402
Kauai .....	897,312	791,907	1,441,423
Niihau .....	250	230	522

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year -- July, 1985 through June, 1986.

Table 608.-- CHARTER FISHING PATRONS, FOR OAHU: 1983

Subject	Amount
Passenger trips by charter fishing fleet .....	16,700
Residence (percent): Hawaii .....	17
U.S. Mainland .....	61
Foreign .....	22
Average number of Hawaii charter fishing trips in past 5 years:	
By residents .....	3.5
By visitors .....	1.2
Average expenditure per passenger trip (dollars):	
By residents .....	89
By visitors .....	128
Average catch per full-day trip:	
Per patron .....	0.6
Per boat .....	2.5

Source: Karl C. Samples and Donald M. Schug, Charter Fishing Patrons in Hawaii: A Study of Their Demographics, Motivations, Expenditures and Fishing Values. Final Report (National Marine Fisheries Service, Honolulu Laboratory, Administrative Report H-85-8C, May 1985).

Table 609.-- FISH POPULATIONS AROUND SELECTED SHORELINE AREAS:  
YEAR ENDED JUNE 30, 1986

Location	Species	Abundance (fish per acre)	Estimated standing crop (lb. per acre)
<b>Marine Life Conservation Districts:</b>			
Hanauma Bay, Oahu: Inshore .....	63	4,080	3,096
Offshore .....	87	3,220	561
Pupukea, Oahu .....	74	1,688	157
Molokini Shoal, Maui .....	90	2,031	824
Honolua-Mokuleia Bays, Maui .....	93	2,529	570
Manele-Hulopoe Bay .....	(NA)	2,644	658
<b>Artificial reef:</b>			
Maunalua Bay, Oahu (transect station) .....	51	1,410	130
<b>Shoreline Fisheries Management Areas:</b>			
Waikiki-Diamond Head, Oahu .....	(NA)	(NA)	180
<b>Others:</b>			
Barbers Point, Deep-Draft Harbor, Oahu .....	97	1,432	167
Puamana, Maui 1/ .....	15	270	28
Launiupoko, Maui 1/ .....	3	14	1

NA Not available.

1/ Candidate site for an artificial reef.

Source follows next table.

Table 610.--MOST ABUNDANT FISH SPECIES AT HANAUMA BAY  
AND MOLOKINI SHOAL: YEAR ENDED JUNE 30, 1986

[Three leading species in each area, based on  
individuals per acre]

Location and species	Abundance	
	Rank	Fish per acre
Hanauma Bay, inshore:		
Manini ( <u>Acanthurus triostegus</u> ) .....	1	743
Hinalea lau wili ( <u>Thalassoma duperrey</u> ) .....	2	379
Aholehole ( <u>Kuhlia sandvicensis</u> ) .....	3	306
Hanauma Bay, offshore:		
Hinalea lau wili ( <u>Thalassoma duperrey</u> ) .....	1	393
Maiii ( <u>Acanthurus nigrofuscus</u> ) .....	2	356
Kole ( <u>Ctenochaetus strigosus</u> ) .....	3	263
Molokini Shoal:		
Uhu ( <u>Scarus sp.</u> ) .....	1	281
Oiilepa ( <u>Pervagor spilosoma</u> ) .....	2	277
Kikakapu ( <u>Chaetodon miliaris</u> ) .....	3	208

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Job Progress Report, Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1985 to June 30, 1986.

Table 611.-- MINERAL INDUSTRIES: 1958 TO 1982

[Excluding mines at manufactures]

Subject	1958	1963	1967	1972	1977	1982
Number of establishments <sup>1/</sup> .....	20	44	12	15	7	12
With 20 employees or more .....	8	4	3	5	2	4
All employees:						
Number (1,000) .....	.4	.3	.2	.3	.1	.2
Payroll (million dollars) .....	1.7	1.7	1.6	2.4	1.9	3.8
Production, development, and ex- ploration workers:						
Number (1,000) .....	.4	.2	.2	.2	.1	.1
Hours (millions) .....	.7	.6	.4	.4	.2	.2
Wages (million dollars) .....	1.4	1.5	1.3	1.8	1.5	2.6
Value added in mining (million dollars) .....	4.6	4.9	5.0	9.0	8.1	9.7
Cost of supplies used, purchased machinery installed, etc. (million dollars) .....	2.0	2.1	2.3	4.1	2.9	5.9
Value of shipments and receipts (million dollars) .....	5.8	6.5	5.5	11.0	9.7	12.8
Capital expenditures (million dollars) .....	.7	.5	1.8	2.0	1.3	2.7

<sup>1/</sup> After 1963, data for single-unit establishments without paid employees were excluded from the census of mineral industries. Eight of the 12 establishments reported, including all 4 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.

Table 612.-- NONFUEL MINERAL PRODUCTION SUMMARY: 1976 TO 1986

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Year	Quantity (1,000 short tons)		Value (\$1,000)			
	Cement	Stone (crushed)	Total	Cement	Stone (crushed)	Other minerals
1976 .....	339	6,092	42,252	18,410	21,193	2,649
1977 .....	330	5,759	39,980	16,922	19,880	3,178
1978 .....	452	6,027	52,743	26,454	23,840	2,449
1979 .....	481	6,869	63,904	30,423	28,969	4,512
1980 .....	371	6,341	59,676	24,682	30,645	4,349
1981 .....	312	6,036	58,727	23,831	31,407	3,489
1982 .....	233	4,500	46,889	18,676	26,604	1,609
1983 .....	222	5,532	52,411	21,314	29,706	1,391
1984 .....	191	5,400	51,247	19,074	29,700	2,473
1985 <u>1/</u> ..	221	5,627	53,272	16,638	34,183	2,451
1986 <u>2/</u> ..	310	7,100	68,422	23,960	42,100	2,362

1/ Revised from Data Book 1986, table 585.

2/ Preliminary.

Source: U.S. Department of the Interior, Bureau of Mines,  
"The Mineral Industry of Hawaii," Mineral Industry Surveys (annual).



Table 613.-- NONFUEL MINERAL PRODUCTION: 1985 AND 1986

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Mineral	Quantity (1,000 short tons)		Value (\$1,000)	
	1985 <u>1/</u>	1986 <u>2/</u>	1985 <u>1/</u>	1986 <u>2/</u>
Total .....	(X)	(X)	53,272	68,422
Cement:				
Masonry .....	6	10	588	860
Portland .....	215	300	16,050	23,100
Sand and gravel (construction)	500	400	2,100	2,100
Stone (crushed) .....	5,627	7,100	34,183	42,100
Other minerals <u>3/</u> .....	(X)	(X)	351	262

X Not applicable.

1/ Revised from Data Book 1986, table 586.

2/ Preliminary.

3/ Gem stones and lime pumice.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1986," Mineral Industry Surveys (January 15, 1987).

## 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, sales, and residential financing. Related series are included in Sections 6 and 14.

There were 21,000 building permits issued in 1986, with an estimated value of \$1.6 billion. The total included \$455 million for private residential construction and \$266 million for private nonresidential structures. The value of government construction contracts awarded was \$425 million. Construction put in place, as indicated by the contracting tax base, totaled \$1.4 billion in 1985 and \$1.8 billion in 1986. The value of land transfers in 1986 was \$5.9 billion. Mortgage loans outstanding at the end of 1984 amounted to \$7.6 billion. The August 1987 construction cost index for Honolulu (1967=100) was 382 for single-family residences and 392 for high-rise buildings.

The number of housing units in the State increased from 307,000 in 1977 to 379,000 in 1987. Owner occupied units numbered 125,000 in 1977 and 157,000 in 1987; the latter total included 36,000 on leased land. Condominium units, first authorized in 1961, numbered 98,000 at the end of 1982. Government-owned housing, mostly military and public, accounted for 26,000 units as of 1987. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in May 1986, according to the Federal Home Loan Bank of Seattle, was only 2.3 percent. The average selling price of single-family homes on Oahu during 1986, based on Multiple Listing Service data, was \$209,000; for condominium units it was \$108,000. The median gross monthly rent for Oahu rose from \$141 in 1970 to \$413 in 1983, and the median value of owner occupied single-family units increased from \$38,400 to \$163,400.

The principal sources for these data are the 1970 and 1980 U.S. Censuses of Housing, the 1976, 1979, and 1983 Annual Housing Surveys, postal vacancy surveys issued 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 and Economic Development, 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 reports published by the Bank of Hawaii (particularly Construction in Hawaii, issued annually) and the First Hawaiian Bank. Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 27 of Statistical Abstract of the United States: 1987.

Table 614.-- NUMBER AND VALUE OF BUILDING PERMITS,  
BY COUNTIES: 1976 TO 1986

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
<b>NUMBER ISSUED</b>					
1976 .....	23,453	15,937	3,535	1,195	2,786
1977 .....	23,406	15,793	3,536	1,173	2,904
1978 .....	25,807	17,758	3,938	1,470	2,641
1979 .....	26,515	18,297	4,062	1,540	2,616
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
<b>ESTIMATED VALUE (\$1,000)</b>					
1976 .....	581,226	411,497	58,137	29,921	81,671
1977 .....	534,278	356,591	62,088	32,060	83,539
1978 .....	756,757	421,692	81,965	59,858	193,242
1979 .....	984,559	566,991	144,768	118,453	154,347
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

Source: City and County of Honolulu Department of Buildings, Summary of Building Permits (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 615.-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES: 1986

[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 .....	1,024,078	545,259	231,499	93,199	154,120
Residential .....	455,451	263,976	63,603	37,994	89,877
Hotel .....	82,442	6,611	44,000	31,831	-
Non-residential .....	183,868	91,009	52,351	12,561	27,945
Additions and alterations	302,318	183,663	71,544	10,813	36,298

Source: Calculated by Hawaii State Department of Planning and Economic Development from county "Monthly Cooperative Report of Local Construction" submitted to F.W. Dodge Division, McGraw-Hill Information Systems Company.

Table 616.-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1976 TO 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year <u>1/</u>	Amount	Year <u>1/</u>	Amount	Year <u>1/</u>	Amount
1976 ..	1,012,952	1980 ..	1,569,658	1984 ..	1,242,929
1977 ..	983,618	1981 ..	1,613,764	1985 ..	1,367,733
1978 ..	1,060,898	1982 ..	1,294,871	1986 ..	1,808,024
1979 ..	1,325,460	1983 ..	1,353,405		

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 617.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY AND LOCATION OF CONSTRUCTION: 1982 TO 1986

[In thousands of dollars. By date of publication]

Awarding agency and location	1982	1983	1984	1985	1986
Total .....	392,767	277,877	411,753	248,499	425,146
Awarding agency:					
Federal agencies .....	139,588	84,723	129,969	74,841	101,943
State agencies .....	181,989	126,766	196,674	93,785	205,443
City and County of Honolulu	32,520	49,531	64,715	47,784	90,413
Other counties .....	38,670	16,856	20,394	32,090	27,346
Location of construction:					
City and County of Honolulu	298,638	218,995	315,510	177,650	313,444
County of Hawaii .....	23,009	20,364	22,981	17,872	61,041
County of Kauai .....	25,431	7,994	43,147	15,264	33,765
County of Maui .....	45,688	30,524	30,114	37,713	16,895

Source: Compiled by Hawaii State Department of Planning and Economic Development from Trade Publishing Company, BID Service Weekly.

Table 618.-- ESTIMATED VALUE PER HOUSING UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1981 TO 1986

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1981	1982	1983	1984	1985	1986
One-family .....	72,044	59,719	68,819	70,230	67,783	80,119
Two-family .....	69,071	85,511	62,808	53,230	58,337	59,184
Multi-family .....	70,710	44,727	50,552	37,892	46,089	47,789

Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual tabular release).

Table 619.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1982 TO 1986

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
<b>New 1-family dwellings:</b>						
1982 .....	2,451	891	1,560	800	230	530
1983 .....	3,387	1,562	1,825	880	398	547
1984 .....	4,117	2,197	1,920	900	382	638
1985 .....	4,663	2,313	2,350	979	387	984
1986 .....	4,985	2,024	2,961	1,127	417	1,417
<b>New duplex units:</b>						
1982 .....	32	32	-	-	-	-
1983 .....	138	60	78	58	6	14
1984 .....	146	112	34	28	4	2
1985 .....	208	112	96	64	-	32
1986 .....	166	112	54	18	2	34
<b>New apartments:</b>						
1982 .....	3,038	2,553	485	245	118	122
1983 .....	1,341	1,220	121	38	73	10
1984 .....	1,134	942	192	153	35	4
1985 .....	2,388	1,744	644	129	84	431
1986 .....	3,813	2,076	1,737	1,265	-	472
<b>Units demolished:</b>						
1982 <u>1/</u> .....	568	443	125	34	1	90
1983 <u>2/</u> .....	505	385	120	54	4	62
1984 .....	528	429	99	50	5	44
1985 <u>3/</u> .....	555	455	100	38	12	50
1986 <u>4/</u> .....	690	534	156	43	60	53

1/ Data exclude housing units destroyed by Hurricane Iwa on November 23-24, 1982 (127 in the City and County of Honolulu and 543 in the County of Kauai).

2/ Excludes 16 structures destroyed by volcanic activity in Hawaii County.

3/ Excludes 11 homes in Hilo destroyed by high winds, February 16, 1986.

4/ Excludes 14 structures destroyed by volcanic activity and 1 by high winds, all in Hawaii County.

Source: Compiled from County building departments by the Hawaii State Department of Business and Economic Development.

Table 620.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING:  
1961 TO 1982

Year	Built during year	Standing, end of year	Year	Built during year	Standing, end of year
1961 .....	-	-	1972 .....	2,835	22,473
1962 .....	182	182	1973 .....	6,741	29,214
1963 .....	41	223	1974 .....	9,275	38,489
1964 .....	1,557	1,780	1975 .....	10,798	49,287
1965 .....	1,091	2,871	1976 .....	7,357	56,644
1966 .....	2,061	4,871	1977 .....	3,321	59,965
1967 .....	1,545	6,477	1978 .....	3,210	63,175
1968 .....	2,181	8,658	1979 .....	6,816	69,991
1969 .....	1,754	10,412	1980 .....	10,441	80,432
1970 .....	4,908	15,320	1981 .....	9,704	90,136
1971 .....	4,318	19,638	1982 .....	7,795	97,931

Source: Bank of Hawaii, Construction in Hawaii, 1983 (1983), p. 7.

Table 621.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO  
CONDOMINIUM UNITS: 1963 TO 1986

Subject	1963-1980	1981	1982	1983	1984	1985	1986
Projects .....	207	27	12	12	32	18	36
Housing units ....	9,886	661	227	596	607	117	151

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, records.

Table 622.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII:  
1982 TO 1986

Subject	1982	1983	1984	1985	1986
Projects .....	48	56	76	69	87
Residential units .....	1,500	3,024	2,662	1,477	1,346
Business or commercial units ....	472	410	149	269	405

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 623.-- TIME SHARE PROPERTIES AND UNITS,  
BY GEOGRAPHIC AREAS: DECEMBER 9, 1987

[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. Based on a total of 81 plans for the 1985-87 biennium]

Geographic area	Properties	Units
State total .....	70	2,958
Oahu .....	23	1,594
Waikiki .....	19	1,380
Rest of Oahu .....	4	214
Hawaii .....	5	62
Kauai .....	18	798
Maui .....	24	504

Source: State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Time Sharing Office, records.



Table 624.-- HONOLULU CONSTRUCTION COST INDEXES: 1982 TO 1987

[1967=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 .....	304.7	250.6	372.9	330.3	281.4	372.7
1983 .....	331.5	276.5	400.9	352.1	294.6	402.0
1984 .....	348.2	281.4	432.5	367.4	294.5	430.7
1985 .....	357.6	286.7	447.1	375.2	295.8	444.0
1986 .....	369.8	294.6	464.7	385.8	247.3	461.9
1987: July <u>2/</u>	374.2	291.1	479.1	389.3	291.4	474.1

1/ Wages and benefits.

2/ Preliminary.

Source: First Hawaiian Bank, Research Department, records.

Table 625.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1967 TO 1982

[Excludes establishments without payroll]

Subject	1967	1972	1977	1982
Number of establishments in business during year .....	1,220	1,570	1,732	1,861
Proprietors and working partners .....	718	590	530	396
All employees .....	17,171	25,012	20,792	18,665
Construction workers, average.....	14,430	20,163	15,784	13,953
Other employees, March .....	2,666	4,949	5,032	4,711
Payroll (\$1,000,000) .....	133.6	282.6	323.4	409.7
All business receipts (\$1,000,000) ...	543.3	1,085.5	1,435.2	1,853.3
Value added (\$1,000,000) .....	230.3	477.5	636.2	855.2

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 4.

Table 626.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND  
SUBDIVIDERS AND DEVELOPERS, BY INDUSTRY: 1977 AND 1982

[Includes establishments both with and without payroll]

SIC code	Industry	Number	Proprietors and working partners	All employees	All business receipts (\$1,000)
	1977				
	Construction industries and subdividers and developers .....	3,170	2,020	20,792	1,508,865
15-17	Construction industries <u>1/</u> ....	3,029	1,848	20,187	(D)
15	General building contractors and operative builders .....	843	459	7,944	779,765
16	Heavy construction, general contractors .....	114	50	2,319	(D)
17	Special trade contractors .....	2,072	1,340	9,924	469,029
6552	Subdividers and developers, n.e.c. <u>2/</u> .....	145	172	607	(D)
	1982				
	Construction industries and subdividers and developers .....	4,259	2,799	18,665	2,032,087
15-17	Construction industries <u>1/</u> ....	4,092	2,645	18,340	1,894,673
15	General building contractors and operative builders .....	1,020	564	6,290	944,585
16	Heavy construction, general contractors .....	133	67	1,768	179,221
17	Special trade contractors .....	2,939	2,014	10,282	770,867
6552	Subdividers and developers, n.e.c. <u>2/</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 construction establishments not classified to two-digit industry detail.

2/ For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 1.

Table 627.-- DETAILED STATISTICS FOR CONSTRUCTION INDUSTRIES  
AND SUBDIVIDERS AND DEVELOPERS: 1977 AND 1982

Item	1977	1982
Number of establishments in business during year ...	1,732	1,861
Proprietors and working partners .....	530	396
All employees .....	20,792	18,665
Construction workers:		
March .....	15,808	14,789
May .....	16,516	14,317
August .....	16,798	12,977
November .....	13,955	12,915
Average .....	15,784	13,953
Other employees:		
March .....	5,032	4,711
Construction worker hours (thousands):		
Total hours worked .....	(NA)	21,817
Payroll, all employees (\$1,000) .....	323,402	409,679
Payroll, construction workers .....	240,359	297,885
Payroll, other employees .....	83,043	111,794
All business receipts (\$1,000) .....	1,435,157	1,853,343
Total construction receipts .....	1,329,495	1,785,660
Receipts for work subcontracted in from others .	303,490	425,754
Land receipts .....	(NA)	18,509
Other business receipts .....	105,662	49,174
Net construction receipts (\$1,000) .....	962,065	1,261,905
Value added (\$1,000) .....	636,173	855,164
Selected payments (\$1,000) .....	744,283	979,670
Materials, components, and supplies .....	361,304	418,874
Construction work subcontracted to others .....	367,430	523,754
Selected power, fuels, and lubricants .....	15,549	37,041
Ownership of construction projects:		
Total construction receipts (\$1,000) .....	1,329,495	1,785,660
Government owned .....	439,607	499,385
Privately owned .....	889,888	1,286,274

NA Not available.

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 4.

Table 628.-- TENURE AND CONTROL OF HOUSING UNITS: 1970 TO 1987

[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>4/</u>	State and County <u>4/</u>
1970 ..	216,774	68,422	20,802	106,821	14,439	6,290
1971 ..	228,749	72,086	21,732	113,531	15,089	6,311
1972 ..	238,770	75,939	24,565	117,111	14,959	6,196
1973 ..	250,742	78,878	26,776	123,934	15,071	6,083
1974 ..	266,828	82,494	30,333	131,368	16,373	6,260
1975 ..	284,120	85,264	30,543	145,276	16,386	6,651
1976 ..	298,339	88,284	33,730	152,578	17,225	6,522
1977 ..	306,989	89,980	34,549	158,223	17,493	6,744
1978 ..	315,513	92,989	35,869	161,728	18,653	6,274
1979 ..	324,261	96,273	36,540	165,045	19,022	7,381
1980 ..	334,235	100,478	36,986	170,963	19,437	6,371
1981 ..	342,873	104,677	37,413	174,753	19,427	6,603
1982 ..	348,980	106,147	37,372	179,579	19,392	6,490
1983 ..	353,414	108,761	35,586	183,249	19,304	6,514
1984 ..	359,107	111,767	35,545	185,657	19,294	6,844
1985 ..	364,436	114,548	35,681	187,905	19,280	7,022
1986 <u>5/</u>	370,548	117,090	35,811	191,475	19,264	6,908
1987 ..	378,519	121,019	35,959	195,203	19,265	7,073

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. 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. Data for 1977-1986 refer to January 1; data for 1970-1976, to July 1.

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. Data include housing units leased from private owners.

5/ Revised.

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), table 1.

Table 629.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY,  
1970 TO 1987

[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
1970 ..	216,774	174,742	42,032	18,972	9,021	14,039
1971 ..	228,749	184,101	44,648	20,061	9,298	15,289
1972 ..	238,770	190,973	47,797	21,648	9,555	16,594
1973 ..	250,742	198,970	51,772	23,578	10,092	18,102
1974 ..	266,828	210,940	55,888	25,282	10,700	19,906
1975 ..	284,120	223,647	60,473	26,694	11,347	22,432
1976 ..	298,339	232,669	65,670	28,131	11,934	25,605
1977 ..	306,989	237,571	69,418	29,453	12,433	27,532
1978 ..	315,513	243,103	72,410	30,579	12,841	28,990
1979 ..	324,261	247,465	76,796	32,283	13,610	30,903
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	342,873	254,969	87,904	36,180	16,314	35,410
1982 ..	348,980	256,967	92,013	37,738	17,081	37,194
1983 ..	353,414	259,574	93,840	38,702	16,937	38,201
1984 ..	359,107	262,902	96,205	39,762	17,539	38,904
1985 ..	364,436	266,127	98,309	40,820	17,979	39,510
1986 <sup>1/</sup>	370,548	269,390	101,158	41,944	18,446	40,768
1987 ..	378,519	273,054	105,465	43,756	18,929	42,780

<sup>1/</sup> Revised.

Source: Hawaii State Department of Business and Economic  
Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical  
Report 204, October 23, 1987), table 2.

Table 630.-- TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1985 TO 1987

[As of April 1. Condominium units occupied or intended for occupancy by nonresidents are included in these estimates]

County	All housing units	Owner occupied units <sup>1/</sup>		Renter occupied and vacant units		
		Land owned	Land leased	Private	Federal	State and County
1985						
State total ..	364,436	114,548	35,681	187,905	19,280	7,022
City & Co. of Hon.	266,127	78,320	33,672	129,777	19,138	5,220
County of Hawaii ..	40,820	17,652	1,121	21,000	50	997
County of Kauai ...	17,979	6,617	224	10,747	64	327
County of Maui ....	39,510	11,959	664	26,381	28	478
1986 (revised)						
State total ..	370,548	117,090	35,811	191,475	19,264	6,908
City & Co. of Hon.	269,390	79,929	33,644	131,529	19,134	5,154
County of Hawaii ..	41,944	18,210	1,200	21,528	50	956
County of Kauai ...	18,446	6,809	248	10,995	65	329
County of Maui ....	40,768	12,142	719	27,423	15	469
1987						
State total ..	378,519	121,019	35,959	195,203	19,265	7,073
City & Co. of Hon.	273,054	82,728	33,656	132,213	19,135	5,322
County of Hawaii ..	43,756	18,704	1,241	22,795	50	966
County of Kauai ...	18,929	7,002	273	11,260	65	329
County of Maui ....	42,780	12,585	789	28,935	15	456

<sup>1/</sup> As indicated by the number of taxpayers claiming home exemptions, as of January 1.

Source: Hawaii State Department of Business and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), table 4.

Table 631.-- RESIDENT AND NONRESIDENT HOUSING UNITS, BY COUNTIES:  
1977 TO 1987

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
<u>RESIDENT 1/</u>						
1977 .....	301,904	237,059	64,845	29,123	11,843	23,879
1978 .....	308,444	241,573	66,871	30,008	12,062	24,801
1979 .....	315,728	245,101	70,627	31,548	12,623	26,456
1980 .....	322,598	247,152	75,446	33,594	13,395	28,457
1981 .....	328,679	249,330	79,349	34,921	14,458	29,970
1982 .....	334,580	251,280	83,300	36,254	15,402	31,644
1983 .....	340,001	254,827	85,174	36,933	15,931	32,310
1984 .....	341,505	256,015	85,490	37,860	15,941	31,689
1985 .....	342,632	257,111	85,521	38,541	15,903	31,077
1986 <u>2/</u> .....	347,549	259,552	87,997	39,892	15,872	32,233
1987 .....	356,623	263,818	92,805	41,654	16,298	34,853
<u>NONRESIDENT 3/</u>						
1977 .....	5,085	512	4,573	330	590	3,653
1978 .....	7,069	1,530	5,539	571	779	4,189
1979 .....	8,533	2,364	6,169	735	987	4,447
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

1/ Estimated as of April 1. Includes all housing units other than condominium units in rental pools and intended for transient occupancy.

2/ Revised.

3/ 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 and Economic Development, Housing Unit Estimates for Hawaii, 1970-1987 (Statistical Report 204, October 23, 1987), table 3.

Table 632.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU:  
1970, 1976, 1979, AND 1983

[Oahu was dropped from this survey after 1983]

Subject	1983	1979	1976	1970
All housing units .....	262,900	248,100	219,600	174,200
TENURE AND VACANCY STATUS				
All year-round housing units .....	262,800	247,900	219,300	174,100
Occupied .....	245,800	231,000	200,400	164,800
Owner occupied .....	120,600	117,200	96,100	74,200
Percent .....	49.0	50.7	47.9	45.0
Cooperatives and condominiums .....	21,500	20,700	13,900	(NA)
Renter occupied .....	125,200	113,800	104,300	90,600
Vacant year-round <u>1/</u> .....	17,000	16,900	18,900	9,300
For sale only .....	1,200	900	5,100	1,100
Homeowner vacancy rate .....	0.9	0.8	5.0	1.5
For rent .....	6,200	7,300	6,600	4,500
Rental vacancy rate .....	4.7	6.0	6.0	4.7
Other vacant <u>1/</u> .....	9,500	8,800	7,200	3,700
STRUCTURAL CHARACTERISTICS				
Units in structure: percent 1, detached ..	47.5	50.9	52.5	56.7
Year built: percent 1939 or earlier .....	9.8	11.1	12.6	15.7
Plumbing facilities: percent lacking some or all .....	0.8	1.5	1.6	3.0
Bathrooms: percent 2 or more .....	34.7	34.4	32.3	26.4
Kitchen facilities: percent incomplete or shared .....	2.1	2.1	2.7	2.9
Rooms: median .....	4.7	4.7	4.7	4.6
Bedrooms: percent 3 or more .....	50.4	51.8	53.5	50.9
Heating equipment: percent none .....	98.0	97.4	97.1	95.5
Air conditioning: percent none .....	82.0	81.3	81.8	86.7
Basement: percent none .....	89.3	91.4	92.1	(NA)
Public sewer: percent not linked .....	8.6	8.4	11.2	14.4
OCCUPANCY CHARACTERISTICS				
Persons per occupied unit .....	3.08	3.18	3.30	3.60
Percent 1.01 or more persons per room:				
Owner occupied .....	5.6	6.4	7.5	15.5
Renter occupied .....	10.9	11.2	12.1	22.0
Percent moved into unit past 12 months:				
Owner occupied .....	5.1	9.2	8.6	(NA)
Renter occupied .....	30.4	34.5	39.8	(NA)

Continued on next page.



Table 632.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU:  
1970, 1976, 1979 AND 1983 -- Con.

Subject	1983	1979	1976	1970
FINANCIAL CHARACTERISTICS				
Median income of families and primary individuals:				
Owner occupied .....	\$38,000	\$28,900	\$23,600	\$14,900
Renter occupied .....	\$16,000	\$12,800	\$11,000	\$8,000
Owner occupied 1-unit structures:				
Median value .....	\$163,400	\$125,600	\$79,600	\$38,400
Median value-income ratio .....	4.1	4.2	3.1	2.6
Median selected monthly housing costs --				
Units with a mortgage .....	\$617	\$474	\$381	(NA)
Units with no mortgage .....	\$157	\$102	\$81	(NA)
Renter occupied:				
Median gross rent .....	\$413	\$278	\$234	\$141
Nonsubsidized units .....	\$425	\$288	\$241	(NA)
Gross rent as percent of income .....	31	26	26	22
Nonsubsidized .....	31	26	27	(NA)
Median contract rent .....	\$372	\$254	\$216	\$132

NA Not available.

1/ Includes units rented or sold but not occupied, units held for occasional use, and units occupied entirely by persons with usual place of residence elsewhere.

Source: U.S. Bureau of the Census, Annual Housing Survey: 1983, Honolulu, Hawaii, SMSA (Current Housing Reports, H-170-83-48, June 1985), Part A, tables A-1 and A-2; Annual Housing Survey: 1979, Honolulu, Hawaii, SMSA (Current Housing Reports, H-170-79-48, August 1983), Part A, tables A-1 and A-2.

Table 633.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total <u>1/</u>	Honolulu	Hawaii	Kauai	Maui
Persons in occupied units .....	925,092	725,865	90,436	38,679	70,008
Per occupied unit .....	3.15	3.15	3.09	3.22	3.11
Total housing units .....	334,235	252,038	34,215	14,828	33,033
Year-round housing units:					
Number .....	332,213	250,866	33,954	14,544	32,728
Median rooms .....	4.4	4.3	4.7	4.6	3.9
One unit at address (percent) ..	59.5	56.6	76.1	81.1	54.9
Lacking complete plumbing for exclusive use (percent) .....	2.3	1.5	7.0	4.8	2.9
Occupied housing units:					
Number .....	294,052	230,214	29,237	12,020	22,510
With 1.01 or more persons per room (percent) .....	15.3	15.5	13.0	15.2	16.4
Owner-occupied units:					
Number .....	151,954	114,831	17,731	6,429	12,963
Percent of occupied units ....	51.7	49.9	60.6	53.5	57.6
Median value <u>2/</u> (\$1,000) .....	118.1	129.5	71.2	89.7	112.1
Renter-occupied units:					
Number .....	142,098	115,383	11,506	5,591	9,547
Median contract rent <u>3/</u> (dollars) .....	271	276	220	176	306
Vacant units, total <u>4/</u> .....					
For sale only .....	38,161	20,652	4,717	2,524	10,218
Homeowner vacancy rate .....	2,153	1,321	455	98	278
For rent .....	1.4	1.1	2.5	1.5	2.1
Rental vacancy rate .....	16,289	9,002	1,883	1,490	3,913
Rented or sold, awaiting occupancy .....	10.3	7.2	14.1	21.0	29.1
Held for occasional use .....	4,518	2,415	835	321	946
Other vacant .....	4,409	2,311	853	318	906
Condominium units, total .....	10,792	5,603	691	297	4,175
Owner-occupied .....	71,708	56,390	3,072	1,853	10,393
Renter-occupied .....	24,730	23,474	298	86	872
Vacant <u>4/</u> .....	22,053	19,812	726	154	1,361
	24,925	13,104	2,048	1,613	8,160

Footnotes and source on next page.

Table 633.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980 -- Con.

- 1/ Includes Kalawao County (121 housing units), not shown separately.  
 2/ Estimated market value of property (house and lot), for one-family houses on less than 10 acres. The median value of owner-occupied condominium units was \$98,600.  
 3/ Excluding no cash rent.  
 4/ Units temporarily occupied, or intended for occupancy, entirely by persons who have a usual residence elsewhere are classified as vacant. Shared ownership or time-sharing condominiums are classified as "vacant, held for occasional use."

Source: U.S. Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Hawaii, HC80-1-A13 (July 1982), tables 1, 5, 7, 46 and 48.

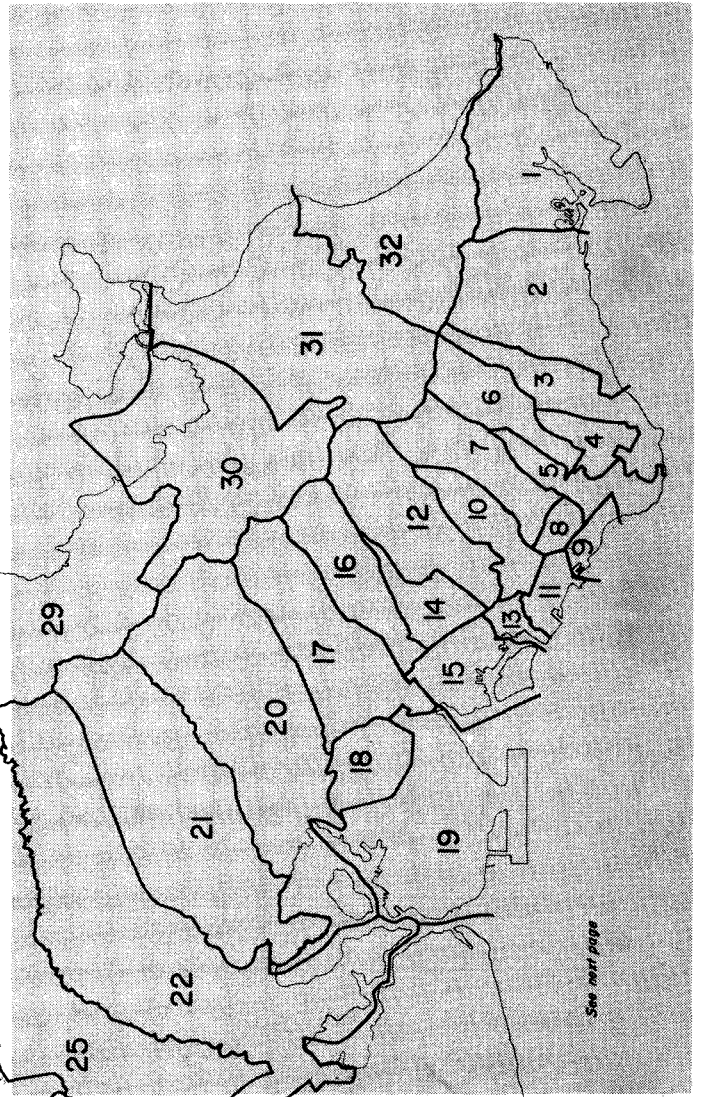
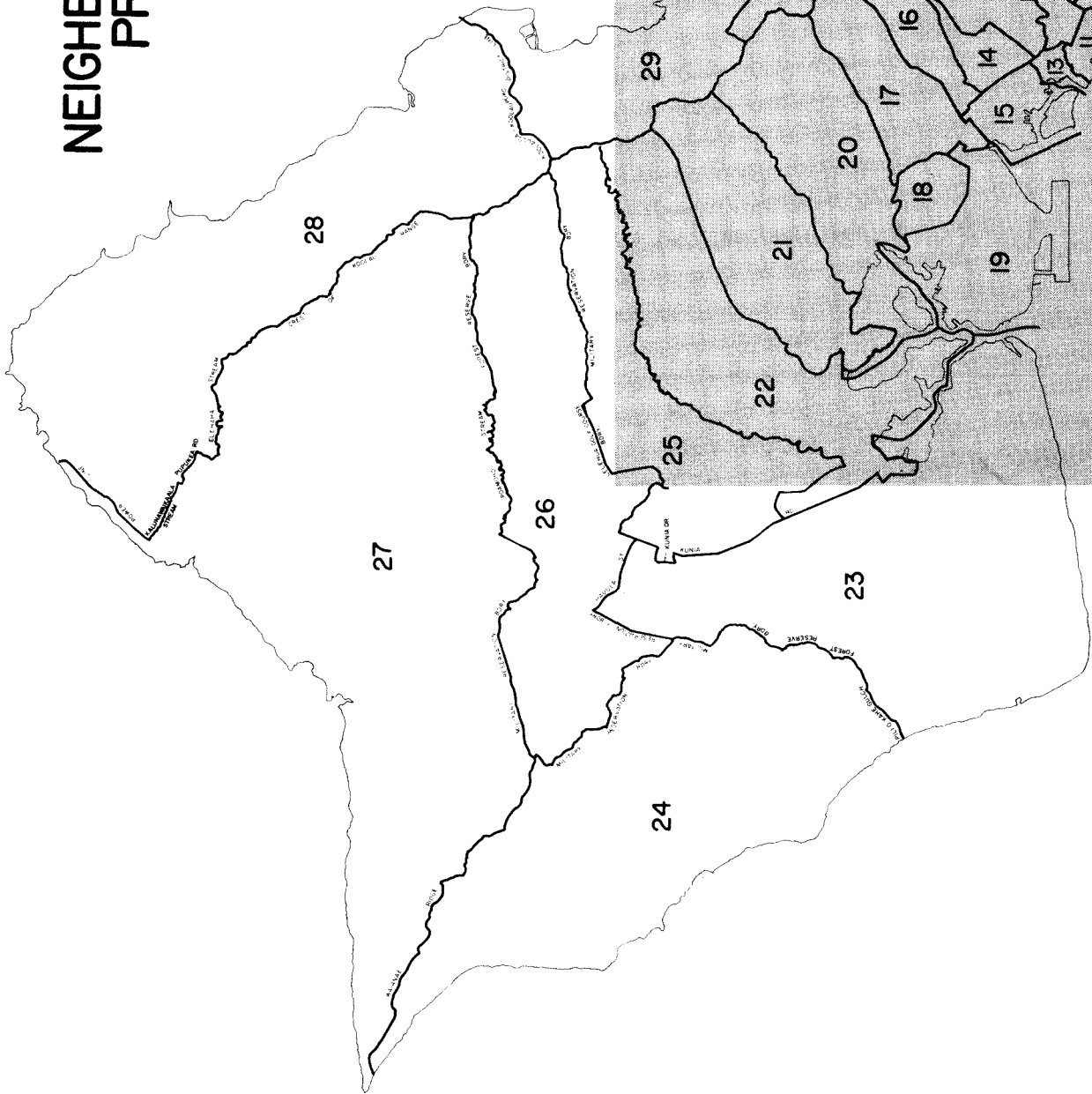
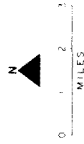
Table 634.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1984 TO 1986

Subject	1984	1985	1986
Total units owned by HHA, June 30 .....	5,742	5,735	<u>1/</u> 5,773
Occupied .....	5,671	5,682	5,702
Population in units, June 30 .....	18,257	18,237	18,147
Per occupied unit .....	3.2	3.2	3.2
Total assets, June 30 (\$1,000) .....	430,087	691,000	754,000
Operating revenues of HHA, fiscal year: <u>2/</u>			
Gross (\$1,000) .....	11,455	12,608	12,706
Net (\$1,000) .....	-977	620	948
Operating revenues per unit per month, fiscal year (dollars) <u>2/</u> .....	166.24	205.04	206.68
Rent charged per unit per month, fiscal year (dollars) <u>2/</u> .....	146.59	134.65	182.50

- 1/ Federal low-rent, 5,172; State-subsidized, 510; and other, 91.  
 2/ Federal projects only; revenue amounts include Federal subsidies.  
 Source: Hawaii Housing Authority, data provided January 26, 1987.

# NEIGHBORHOOD STATISTICS PROGRAM AREAS

ISLAND OF  
OAHU



See next page



Table 635.-- HOUSING CHARACTERISTICS OF NEIGHBORHOODS, FOR OAHU: 1980

Neighborhood (see maps on pp. 578-579)	Year-round housing units		Occupied housing units		Owner occupied units: <sup>1/</sup> median value (\$1,000)	Renter occupied units: median gross rent (dollars)
	Number	Percent in one- unit structures	Average house- hold size	Percent owner occu- pied		
Oahu total .....	250,864	47.1	3.15	49.9	130.4	315
1 Hawaii Kai .....	7,921	75.5	3.37	83.2	170.5	500+
2 Kuliouou .....	4,517	87.1	3.27	85.1	180.0	475
3 Waialae-Kahala ...	4,104	72.8	2.95	79.1	200+	500+
4 Kaimuki .....	6,406	73.3	3.05	62.3	138.7	330
5 Diamond Head/ Kapahulu .....	8,442	41.7	2.66	50.5	131.8	311
6 Palolo .....	4,176	63.6	3.41	55.2	110.3	285
7 Manoa .....	6,821	58.1	2.89	59.6	178.1	352
8 McCully/Moiliili .	13,310	7.7	2.17	27.5	111.2	285
9 Waikiki .....	18,150	1.2	1.76	29.8	59.6	360
10 Makiki/Tantalus ..	14,937	9.2	2.01	34.3	194.7	315
11 Ala Moana/Kakaako	6,273	3.1	1.80	31.3	110.4	310
12 Nuuanu/Punchbowl .	5,555	58.4	2.98	54.9	131.8	312
13 Downtown .....	4,770	1.5	1.85	20.8	90.0	286
14 Liliha/Kapalama ..	6,565	55.1	3.16	54.2	127.3	276
15 Kalihi/Palama ....	11,152	22.3	3.54	24.7	97.5	226
16 Kalihi Valley ....	3,981	54.0	4.44	56.2	109.5	272
17 Moanalua .....	3,454	52.9	3.63	43.6	152.3	233
18 Aliamanu/Salt Lake	9,757	33.5	3.35	40.6	152.5	355
19 Airport .....	5,739	44.7	3.48	0.5	73.6	275
20 Aiea .....	9,236	52.5	3.28	58.4	129.3	399
21 Pearl City .....	11,362	80.2	3.78	76.4	127.2	429
22 Waipahu .....	8,519	60.4	4.03	54.3	118.7	346
23 Ewa .....	9,322	73.3	3.87	51.0	110.0	282
24 Waianae Coast ....	9,524	53.8	3.93	51.4	77.0	313
25 Mililani/Waipio ..	7,989	62.6	3.35	76.6	136.3	404
26 Wahiawa .....	10,677	44.6	3.40	26.6	96.7	266
27 North Shore .....	4,415	67.9	3.25	40.5	91.1	324
28 Koolauloa .....	3,462	60.6	3.77	35.6	82.8	275
29 Kahaluu .....	3,613	68.2	3.50	66.2	139.1	390
30 Kaneohe .....	10,033	75.1	3.59	72.0	122.5	393
31 Kailua .....	12,562	80.2	3.38	72.3	138.2	426
32 Waimanalo .....	2,241	78.8	4.26	63.5	68.5	255
33 Mokapu .....	1,889	38.0	3.55	0.1	...	238

1/ Limited to owner occupied one-family houses on less than 10 acres.

Source: Bureau of the Census, 1980 Census of Population and Housing, Neighborhood Statistics Program, Hawaii, PHC80-SPI-13 (1983).

Table 636.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1986

[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, and 1987, and none is scheduled for 1988]

Year and month	Total units	Vacant units				Units under construction
		Used and new		Used	New	
		Number	Percent			
1977: April <sup>1/</sup> ...	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
TYPE OF UNIT: 1986						
Single-family units	141,938	1,489	1.0	1,166	323	438
Multi-family units	108,554	4,261	3.9	3,427	834	439
Mobile homes .....	8	-	0	0	...	...

<sup>1/</sup> 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 1982-1986 definitions.

Table 637.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: ANNUAL AVERAGES, 1970 TO 1986

[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 <sup>1/</sup> ..	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 <sup>2/</sup> ..	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 <sup>3/</sup> ..	7,238	3,827	3,411	4.5	3.1	6.5
1985 <sup>4/</sup> ..	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

<sup>1/</sup> Neighbor Island data based on last 9 months of 1970.

<sup>2/</sup> Survey suspended during the first 6 months of 1976.

<sup>3/</sup> Sample excluded housing units on military bases, included in other years.

<sup>4/</sup> Revised from Data Book 1986, table 612.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.



Table 638.-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN,  
CHANGING RESIDENCE IN PAST YEAR: 1976 TO 1986

[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:				
1976 .....	139,922	110,100	16.6	14.4
1977 .....	153,357	112,867	18.3	15.3
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 <u>4/</u> .....	133,466	101,840	13.6	11.5
1986 .....	130,796	99,990	13.1	11.1
Household heads:				
1976 .....	49,456	39,738	18.8	16.5
1977 .....	53,482	40,102	19.8	16.6
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 <u>4/</u> .....	42,923	31,778	14.4	11.8
1986 .....	42,552	31,949	13.7	11.4

1/ Based on number reporting place of residence one year earlier.

2/ Based on military status when surveyed. Excludes members of the armed forces and their dependents.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

4/ Revised from Data Book 1986, table 613.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 639.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1986

[Based on place of residence one year prior to survey date. Expanded from a sample of 5,661 households. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

Island and military status of household head <u>1/</u>	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent <u>2/</u>	
State total .....	314,376	268,092	42,552	13.7	3,732
Military .....	31,576	20,316	10,512	34.1	748
Civilian .....	282,685	247,776	31,949	11.4	2,960
Status not reported	115	-	91	100.0	24
Oahu .....	236,947	201,019	32,777	14.0	3,151
Military .....	31,471	20,295	10,428	33.9	748
Civilian .....	205,385	180,724	22,258	11.0	2,403
Status not reported ....	91	-	91	100.0	-
Other islands .....	77,429	67,073	9,775	12.7	581
Hawaii .....	35,407	31,132	3,978	11.3	297
Kauai .....	14,834	13,091	1,728	11.7	15
Maui, Molokai, and Lanai	27,188	22,850	4,069	15.1	269

1/ Military status of household head at the time of the survey.

2/ Based on number reporting.

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

Table 640.-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE OF LICENSE AND LOCATION: JUNE 1987

Type of license	Active	Inactive	Location	Active	Inactive
Total .....	12,736	7,495	Oahu .....	9,681	5,109
			Hawaii .....	1,030	620
Broker:			Maui .....	1,273	507
Individual ...	4,055	724	Kauai .....	471	242
Corporation or			Molokai .....	45	14
partnership	977	91	Lanai .....	2	-
Salesman .....	7,704	6,680	U.S. mainland ...	230	972
			Foreign .....	4	31

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 641.-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE SPACE AND RETAIL SPACE, FOR HONOLULU, BY LOCATION: 1984 TO 1987

[Rates are percent of space reported vacant in survey]

Type of space and location	May 1984	Oct. 1984	May 1985	Oct. 1985	May 1986	Oct. 1986	May 1987
Competitive office:							
Downtown .....	17.2	16.1	15.9	11.5	11.4	10.7	7.0
Downtown to Waikiki .....	12.7	12.6	9.1	9.1	6.4	6.1	6.9
Waikiki .....	2.7	2.8	1.5	3.5	5.1	4.2	1.5
Other .....	21.9	18.2	19.1	22.6	18.0	11.0	16.0
Retail:							
Downtown .....	4.9	5.4	1.1	7.5	6.5	4.4	6.0
Downtown to Waikiki .....	27.7	4.3	4.4	5.0	13.0	7.5	7.0
Waikiki .....	23.8	6.6	11.2	15.4	9.1	14.8	15.8
Other .....	0.0	31.8	0.0	(NA)	1.8	8.1	3.7

NA Not available.

Source: Semi-annual survey by Hastings, Martin, Conboy, Braig & Associates, Ltd., cited in Building Owners & Managers Association, Hawaii, Newsletter, May 1987.

Table 642.-- OFFICE AND INDUSTRIAL SPACE AND RENTAL RATES,  
FOR OAHU: 1986

Use and geographic area	Existing space (1,000 sq. ft.)	Vacant space		New construction (1,000 sq. ft.)		Rental rates (dollars per sq. ft. per mo.)	
		1,000 sq. ft.	Percent	1987	1986	Low	High
Office space .....	9,209	685	7.4	322	-	1.00	2.25
Downtown .....	5,148	444	8.6	95	-	1.40	2.25
King corridor ...	1,186	36	3.0	-	-	1.00	1.80
Kapiolani .....	1,182	50	4.2	-	-	1.30	2.00
Waikiki .....	507	14	2.8	-	-	1.90	2.00
Industrial space ..	28,159	608	2.2	513	139	0.25	0.98
Town .....	14,078	250	1.8	89	95	0.50	0.98
Airport .....	7,617	148	1.9	110	22	0.45	0.70
Leeward .....	3,788	74	2.0	14	-	0.25	0.60

Source: Grubb & Ellis, Honolulu Real Estate 1987, pp. 7 and 10.

Table 643.-- CHARACTERISTICS OF SINGLE-FAMILY AND MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1981 TO 1986

Year	Single-family developments				Multi-family developments <sup>1/</sup>		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1981 ..	1,389	5,698	354	157,026	1,215	278	103,310
1982 ..	1,232	5,037	308	137,267	1,198	134	114,669
1983 ..	1,173	4,380	772	135,357	740	500	85,064
1984 ..	1,261	4,613	1,176	140,700	720	504	81,373
1985 ..	1,263	5,360	1,139	147,093	773	316	93,737
1986 ..	1,191	4,887	1,392	156,189	858	727	108,656

<sup>1/</sup> Four stories or less.

Source: Bank of Hawaii, Construction in Hawaii, 1987 (1987), pp. 12 and 14.

Table 644.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES,  
FOR OAHU: 1957 TO 1986

[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	Sold		
		Number	Percent	Average selling price (dollars)
1957 .....	1,805	924	51.2	19,694
1958 .....	2,064	936	45.3	21,365
1959 .....	1,666	967	58.0	23,560
1960 .....	1,868	795	42.6	27,808
1961 .....	1,847	541	29.3	29,144
1962 .....	1,522	515	33.8	29,332
1963 .....	1,743	624	35.8	30,323
1964 .....	1,934	882	45.6	32,951
1965 .....	1,854	910	49.1	35,727
1966 .....	2,137	813	38.0	35,652
1967 .....	2,124	963	45.3	38,810
1968 .....	2,375	1,133	47.7	42,546
1969 .....	2,606	1,422	54.6	46,333
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

1/ Year ended February 28 or 29.

2/ Data cover period of March through December only.

3/ Data cover period of January 1 through December 3 only.

Source: Honolulu Board of Realtors, records.

Table 645.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE  
OF PROPERTY, FOR OAHU: 1984 TO 1986

Year and type of property	Number listed	Number sold	Percent sold	Average sales price (dollars)
1984 (JAN. 1-DEC. 3)				
Total .....	13,258	4,732	35.7	141,888
Residential 1/ .....	4,511	1,951	43.2	187,270
Condominium 2/ .....	7,654	2,542	33.2	101,448
Vacant land .....	428	101	23.6	143,480
Income .....	158	44	27.8	434,738
Commercial/industrial .....	98	19	19.4	327,901
Business opportunity .....	174	18	10.3	58,944
Cooperative .....	235	57	24.3	127,364
1985				
Total .....	13,558	5,261	38.8	137,650
Residential 1/ .....	4,717	2,146	45.5	188,900
Condominium/cooperative .....	8,065	2,901	36.0	98,800
Vacant land .....	402	143	35.6	114,300
Income/business opportunity .	252	55	21.8	206,300
Commerical/industrial .....	122	16	13.1	280,400
1986				
Total .....	16,047	6,467	40.3	151,985
Residential .....	5,481	2,595	47.3	209,400
Condominium .....	9,509	3,600	37.8	107,700
Vacant land .....	496	162	32.7	138,880
Income property .....	402	81	20.1	205,560
Commerical .....	159	29	18.2	434,880

1/ Single-family.

2/ Includes units in duplexes and townhouses.

Source: Honolulu Board of Realtors, records.

Table 646.-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1984 TO 1987

[Years ended June 30]

Subject	1984	1985	1986	1987
Number of deeds filed and recorded .....	26,938	20,490	28,518	58,598
Approximate value of land conveyed (\$1,000) ..	3,585,325	3,719,659	3,893,347	7,245,393

1/ Data include leases, agreement of sales assignments, subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 647.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1984 TO 1986

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1984	1985	1986
State total .....	3,764,562,638	3,778,077,861	5,911,972,676
Honolulu .....	2,549,352,254	2,581,678,154	4,182,294,133
Maui .....	610,384,923	562,563,099	782,651,702
Hawaii .....	467,051,984	359,835,183	620,157,231
Kauai .....	137,773,477	274,001,425	326,869,610

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 648.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE:  
1981 TO 1986

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)			
1981 ...	23,156	2,285,147	98,685	1,233	3,097	1,041,662
1982 ...	18,773	2,478,992	132,051	22,674	3,143	639,263
1983 ...	29,060	3,528,800	121,431	24,443	(NA)	406,327
1984 ...	28,200	3,136,606	111,227	47,844	4,291	345,120
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	65,878

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, 1987 (1987), p. 30.

Table 649.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE  
OF LENDING INSTITUTION: 1982 TO 1986

[Thousands of dollars. As of December 31]

Year	All institutions	Banks	Savings, building and loan associations	Trust compa- nies 1/	Industrial loan companies	Insurance companies
1982 ....	7,730,172	1,620,947	3,878,564	313	779,332	1,451,016
1983 ....	7,553,924	1,714,698	3,803,628	116	589,574	1,445,908
1984 ....	7,575,240	1,737,973	3,885,551	435	644,336	1,306,945
1985 ....	(NA)	(NA)	(NA)	298	809,507	1,106,031
1986 ....	(NA)	(NA)	(NA)	22	940,060	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records, and Insurance Division, Report of the Insurance Commissioner of Hawaii (annual).



Table 650.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA  
SECTIONS 203 AND 245: 1984

[Data for 1985 have been tabulated but suppressed, because of inadequate sample size]

Subject	Proposed homes		Existing homes	
	Sec. 203	Sec. 245 <u>1/</u>	Sec. 203	Sec. 245 <u>1/</u>
Volume of FHA-insured mortgages:				
Number .....	242	185	927	161
Amount (\$1,000) .....	26,471	20,643	93,755	17,971
Averages:				
Property value .....	\$136,569	\$137,519	\$133,712	\$126,149
Market price of site .....	\$60,913	\$61,580	\$65,794	\$57,250
Percent of value .....	45.0	45.0	48.9	45.3
Improved living area <u>2/</u> (square feet)	1,090	1,057	1,241	1,151
Age of structure <u>3/</u> (years) .....	...	...	15.1	10.7
Price of site per square foot .....	\$16.38	\$15.63	\$10.18	\$10.62
Lot size (square feet) .....	4,082	4,246	7,290	6,246
Mortgagor's total annual income <u>3/</u> ..	(NA)	\$40,625	(NA)	\$34,000
Monthly cost of heating and utilities	\$98.86	\$97.00	\$107.13	\$100.70
Sale price per square foot <u>2/</u> .....	\$94.33	(NA)	\$84.86	\$79.44
Construction cost per square foot ...	\$69.77	\$71.75	...	...

NA Not available.

1/ Graduated payment mortgage program.

2/ Data based on 1-story structures.

3/ Median rather than arithmetic mean.

Source: U.S. Department of Housing and Urban Development, FHA Homes.

Data for States and Selected Areas on Characteristics of FHA Operations under Section 203 (annual) and FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 245, Graduated Payment Mortgage Program (annual).

Table 651.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES:  
DECEMBER 31, 1986

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total .....	4,037	3,361	118	98	337	1	2	120
Elevators .....	3,445	2,844	89	91	308	-	1	112
Under 9 stories:								
Hydro .....	734	509	30	29	102	-	1	63
Roped .....	1,201	915	50	62	137	-	-	37
9 to 18 stories .....	903	818	9	-	64	-	-	12
19 to 28 stories .....	360	355	-	-	5	-	-	-
29 to 38 stories .....	174	174	-	-	-	-	-	-
39 stories or more .....	73	73	-	-	-	-	-	-
Escalators and moving walks	280	273	6	-	1	-	-	-
Inclined lifts .....	10	2	3	1	2	-	1	1
Manlifts .....	11	10	-	1	-	-	-	-
Dumbwaiters .....	275	225	20	2	21	1	-	6
Handicapped lift .....	1	1	-	-	-	-	-	-
Chair lift .....	7	6	-	-	-	-	-	1
Private industrial elevator	7	-	-	2	5	-	-	-
Material lift .....	1	-	-	1	-	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, January 12, 1987.

Table 652.-- TALLEST STRUCTURES, BY ISLANDS: 1987

Island and structure	Location	Year completed	Height	
			Stories	Feet
BUILDINGS <u>1/</u>				
Hawaii: Bayshore Towers .....	Hilo .....	1970	15	135
Maui: Kalana O Maui (County Bldg.) .....	Wailuku .....	1972	9	140
Royal Lahaina Hotel .....	Kaanapali .....	1970	12	132
Oahu: Ala Moana Hotel <u>2/</u> .....	410 Atkinson Drive ...	1970	38	396
Ala Wai Sunset .....	445 Seaside Ave. ....	1979	44	350
Kauai: Westin Kauai Hotel .....	Lihue .....	1959	10	107
OTHER STRUCTURES				
Hawaii: Coast Guard Loran Station	Upolu Point .....	1958	...	625
Maui: KMVI Radio Tower .....	Wailuku .....	1947	...	455
Lanai: Storage tanks .....	Manele Harbor .....	...	...	50
Molokai: KAIM Radio Tower .....	Kalua Koi .....	1981	...	410
Oahu: VLF Antenna .....	Lualualei .....	1972	...	1,503
Kauai: Communication Engineers Tower .....	Mana .....	1964	...	400
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/ Measured to top of elevator machine room; otherwise, 390 feet.

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.

Table 653.-- SEATING CAPACITIES OF SELECTED STADIUMS,  
THEATERS, CHURCHES, AND HOTELS: 1986-1987

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 <u>2/</u> .....	6,000
University of Hawaii Baseball Stadium .....	4,312
Theaters and auditoriums:	
Neal Blaisdell Center Arena <u>3/</u> .....	8,780
Neal Blaisdell Center Exhibition Hall <u>4/</u> .....	5,000
Francis Wong Stadium (Hoolulu Park Complex Multi-purpose Pavilion) <u>3/</u> .....	4,500
Lahaina Civic Center Convention Hall <u>3/</u> .....	4,050
Andrews Amphitheater .....	4,000
Hilo Civic Auditorium <u>3/</u> .....	3,550
Waikiki Shell <u>2/</u> , <u>5/</u> .....	3,257
Neal Blaisdell Center Concert Hall .....	2,158
Waikiki 3 Theater <u>2/</u> .....	1,262
Hilton Hawaiian Village Dome <u>2/</u> .....	1,120
Kauai War Memorial Concert Theater .....	1,100
Waikiki 1 and 2 Theaters (each) <u>2/</u> .....	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 653.-- SEATING CAPACITIES OF SELECTED STADIUMS,  
THEATERS, CHURCHES, AND HOTELS: 1986-1987 -- Con.

Facility type and name	Seating capacity
Hotels (capacity in reception or theater configuration, whichever is greater):	
Hilton Hawaiian Village Coral Ballroom .....	5,000
Westin Ilikai Pacific Ballroom .....	5,000
Sheraton Waikiki Hawaii Ballroom .....	3,700
Hilton Hawaiian Village Tapa Room .....	3,400
Hilton Hawaiian Village Palace Lounge .....	3,200
Royal Hawaiian Monarch Room and Lanai .....	3,000
Westin Kauai Palace Ballroom .....	2,143
Hilton Hawaiian Village Coral Lounge .....	2,000
Pacific Beach Grand Ballroom .....	2,000
Maui Marriott Kaanapali Ballroom .....	1,700
Ala Moana Hibiscus Ballroom .....	1,500
Hilo Hawaiian Banquet Room .....	1,500
Hyatt Regency Maui Grand Ballroom .....	1,500
Turtle Bay Hilton & Country Club Kahuku meeting rooms <u>2/</u>	1,300
Westin Ilikai Polynesia .....	1,500
Kona Lagoon Polynesian Longhouse .....	1,300
Hilton Hawaiian Village Iolani Suite .....	1,200
Hyatt Regency Waikiki Regency Ballroom .....	1,200
Kona Surf Milo and Koa Rooms .....	1,200
Outrigger Prince Kuhio Grand Ballroom .....	1,200
Westin Maui Valley Isle Ballroom .....	1,102
Ala Moana Americana Garden Lanai .....	1,000
Hawaiian Regent Hawaiian Ballroom .....	1,000
Hilton Hawaiian Village South Pacific Ballroom .....	1,000
Kauai Hilton Jasmine Ballroom <u>2/</u> .....	1,000
Kona Surf Nalu Terrace .....	1,000
Princess Kaiulani Ainahau Ballroom .....	1,000
Waiohai Plantation Ballroom <u>2/</u> .....	1,000

1/ Capacity in boxing configuration.

2/ Revised from Data Book 1986, table 629.

3/ Capacity in concert configuration.

4/ Capacity in reception configuration.

5/ Includes 1,299 temporary seating.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the Honolulu Fire Department, Fire Prevention Bureau; Honolulu Building Department; officials of the facilities listed; and Hawaii Business Publishing Corporation, Discover Hawaii Meeting Planner 1987.

## 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 966 in 1982. The value added by manufacture rose from \$326 million in 1967 to \$786 million in 1977 and \$1,195 million in 1985. More than three-fourths of all manufacturing activity in the State in 1982 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for 46 percent of the value added by manufacture in 1985. In 1986, the general excise and use tax base was \$336 million for sugar processing, \$33 million for pineapple canning, and \$569 million for all other manufacturing. There were two pineapple canneries and 12 sugar mills in Hawaii in 1986. The production of canned pineapple fruit and juices in 1981 (the most recent year available) was 18 million actual cases, well below the levels of earlier years. Sugar production in 1986 amounted to 1,042,000 short tons. The value of sugar production (including commercial molasses) was \$362 million, compared with the record of \$677 million set in 1974. Important manufactures other than food processing include apparel, printing and publishing, stone, clay, and glass products, and chemicals and allied products.

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1982, 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, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 28 of the Statistical Abstract of the United States: 1987.

Table 654.-- STATISTICAL SUMMARY OF MANUFACTURES: 1963 TO 1982

Subject	1963	1967	1972	1977	1982
All establishments:					
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 1/ (million dollars) .....	261.1	326.2	410.0	785.5	1,119.6
Cost of materials 2/ (million dollars) .....	(NA)	399.6	548.3	1,176.1	2,357.5
Value of shipments 2/ (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

NA Not available.

1/ Data for 1982 not directly comparable to data for earlier years; see source for discussion.

2/ Aggregate 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, 1985 Annual Survey of Manufactures, Geographic Area Statistics, M85(AS)-5 (March 1987), table 1, and 1977 Census of Manufactures, Hawaii, MC77-A-12 (October 1980), table 2a.

Table 655.-- STATISTICAL SUMMARY OF MANUFACTURES: 1982 TO 1985

[For intercensal data, 1971-1981, see Data Book 1983, table 564]

Subject	1982	1983	1984	1985
All establishments:				
Total .....	966	(NA)	(NA)	(NA)
With 20 employees or more	237	(NA)	(NA)	(NA)
All employees:				
Number (1,000) .....	23.6	22.6	22.5	23.0
Payroll (million dollars)	360.3	375.9	383.3	400.7
Production workers:				
Number (1,000) .....	16.0	14.9	15.6	15.8
Hours (millions) .....	29.9	29.0	29.3	28.0
Wages (million dollars) .	217.5	223.8	223.3	228.5
Value added by manu- facture (million dollars)	1,119.6	1,045.9	1,046.4	1,195.3
Cost of materials <sup>1/</sup> (million dollars) .....	2,357.5	2,382.2	2,330.4	2,280.2
Value of shipments <sup>1/</sup> (million dollars) .....	3,443.0	3,414.5	3,409.6	3,477.3
New capital expenditures (million dollars) .....	89.4	60.6	69.4	76.1

NA Not available.

<sup>1/</sup> Aggregate 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, 1985 Annual Survey of Manufactures, Geographic Area Statistics, M85(AS)-5 (March 1987), table 1.



Table 656.-- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES: 1982

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All establishments <u>1/</u> (number) ...	967	780	99	25	63
With 20 employees or more .....	237	200	18	7	12
All employees:					
Number (1,000) .....	23.6	17.9	2.4	0.7	2.6
Payroll (million dollars) .....	360.4	279.4	37.9	12.1	30.9
Production workers:					
Number (1,000) .....	16.0	11.9	1.9	0.5	1.7
Hours (millions) .....	29.9	21.6	3.9	1.0	3.4
Wages (million dollars) .....	217.5	158.3	29.0	8.3	21.8
Value added by manufacture (million dollars) .....	1,119.6	901.5	100.6	26.6	90.8
Cost of materials <u>2/</u> (million dollars) .....	2,357.5	2,078.5	130.1	58.3	90.7
Value of shipments <u>2/</u> (million dollars) .....	3,443.0	2,947.3	229.6	84.9	181.1
New capital expenditures (million dollars) .....	89.4	58.4	7.5	5.9	17.6

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 4.

Table 657.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1982

SIC code	Industry group and industry	Number of establishments	Number of employees (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments (million dollars)
	All industries .....	967	23.6	360.4	1,119.6	3,443.0
20	Food and kindred products ...	221	11.1	161.2	398.6	1,079.5
202	Dairy products .....	10	.5	10.4	20.3	68.8
203	Preserved fruits and vegetables .....	34	3.3	36.1	96.7	234.0
2033	Canned fruits and vegetables .....	9	3.1	33.6	89.3	214.5
205	Bakery products .....	33	1.2	18.9	41.6	70.7
206	Sugar and confectionery products .....	29	3.6	61.6	159.7	428.1
2061	Raw cane sugar .....	13	2.9	52.9	136.1	350.3
208	Beverages .....	12	.5	8.6	26.9	72.3
23	Apparel and other textile products .....	145	3.4	31.1	56.5	106.6
232	Men's and boy's furnishings .....	22	.8	7.5	13.1	22.9
233	Women's and misses' outerwear .....	78	1.7	15.7	26.3	44.6
2335	Women's and misses' dresses .....	62	1.4	12.8	21.1	37.3
27	Printing and publishing .....	177	2.5	(D)	(D)	(D)
275	Commercial printing .....	93	.9	14.3	27.0	44.5
28	Chemicals and allied products	21	.3	6.3	24.8	64.4
32	Stone, clay, and glass products .....	53	.9	19.2	38.9	80.0
327	Concrete, gypsum, and plaster products .....	29	.7	16.0	30.4	64.1
34	Fabricated metal products ...	42	.7	11.8	22.9	76.4

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 5.

Table 658.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1985

[Includes operating manufacturing establishments and auxiliaries. Includes major groups with 150 employees or more]

SIC code	Major group	All employees		Production workers		
		Number (1,000)	Payroll (million dollars)	Number (1,000)	Hours (millions)	Wages (million dollars)
	All groups .....	23.0	400.7	15.8	28.0	228.5
20	Food and kindred products .....	9.8	177.6	7.0	13.0	106.1
23	Apparel and other textile products .....	4.1	37.5	3.3	5.9	26.6
24	Lumber and wood products .....	.4	5.7	.3	.5	4.1
25	Furniture and fixtures .....	.4	4.6	.3	.6	3.3
26	Paper and allied products .....	.3	5.9	.2	.4	3.6
27	Printing and publishing .....	(D)	(D)	(D)	(D)	(D)
28	Chemicals and allied products .....	.4	8.1	.2	.3	3.6
29	Petroleum and coal products .....	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products ....	(S)	(S)	(S)	(S)	(S)
32	Stone, clay, and glass products .....	.8	16.4	.6	1.1	11.3
34	Fabricated metal products .....	.8	13.5	.6	.8	10.5
35	Machinery, except electrical .....	.3	4.7	.2	.4	3.0
37	Transportation equipment .....	.3	6.1	.2	.3	4.4
39	Miscellaneous manufacturing industries .....	.6	6.5	.4	.7	3.7
--	Auxiliaries .....	.7	23.0	-	-	-

Continued on next page.

Table 658.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP: 1985 - Con.

[Includes operating manufacturing establishments and auxiliaries. Includes major groups with 150 employees or more]

SIC code	Major group	Value added by manufacture (million dollars)	Cost of materials <sup>1/</sup> (million dollars)	Value of shipments <sup>1/</sup> (million dollars)	New capital expenditures (million dollars)	End-of-year inventories (million dollars)
	All groups .....	1,195.3	2,280.2	3,477.3	76.1	341.2
20	Food and kindred products .....	551.3	734.7	1,276.6	38.5	125.7
23	Apparel and other textile products .....	82.5	62.4	148.1	2.7	23.2
24	Lumber and wood products .....	11.5	14.9	26.8	.1	5.0
25	Furniture and fixtures .....	2.0	5.9	8.1	(D)	2.9
26	Paper and allied products .....	16.9	23.7	40.7	1.0	3.8
27	Printing and publishing .....	(D)	(D)	(D)	(D)	(D)
28	Chemicals and allied products .....	1.2	45.4	51.8	(D)	14.4
29	Petroleum and coal products .....	(D)	(D)	(D)	(D)	(D)
30	Rubber and miscellaneous plastics products ....	(S)	(S)	(S)	(D)	(S)
32	Stone, clay, and glass products .....	35.1	51.7	86.9	1.7	13.9
34	Fabricated metal products .....	22.4	67.0	91.0	(D)	18.7
35	Machinery, except electrical .....	7.5	4.1	12.2	.1	2.0
37	Transportation equipment .....	2.7	10.9	13.7	(D)	1.5
39	Miscellaneous manufacturing industries .....	14.6	14.9	28.4	.1	9.5
--	Auxiliaries .....	-	-	-	-	-

D Withheld to avoid disclosing data for individual companies.

S Withheld because estimate did not meet publication standards.

<sup>1/</sup> 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, 1985 Annual Survey of Manufactures, Geographic Area Statistics, M85(AS)-5 (March 1987), table 2.

Table 659.-- PLANT CAPACITY UTILIZATION RATES: FOURTH QUARTERS,  
1981 TO 1985

[Data based on limited samples and subject to high sampling variability. Comparability of 1984 rates with earlier figures is further affected by the use of a new survey sample in that year. Considerable caution is thus urged in making any year-to-year comparisons, and particularly between 1983 and 1984]

Type of rate	Fourth quarter estimates				
	1981	1982	1983	1984	1985
Preferred rate $\frac{1}{}$ .....	80	80	83	84	87
Practical rate $\frac{2}{}$ .....	73	72	73	81	83

$\frac{1}{}$  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.

$\frac{2}{}$  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, "Survey of Plant Capacity, 1982," Current Industrial Reports, MQ-C19(82)-1, November 1983, p. 19, and unpublished estimates for 1983-1985.

Table 660.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1985

Subject	State total	Hawaii	Maui	Oahu	Kauai	Other islands
Number:						
Developed .....	33	6	4	21	2	-
Proposed .....	12	2	2	7	1	-
Acres:						
Developed .....	3,066	618	195	2,207	46	-
Proposed .....	1,873	1,035	330	492	16	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1985 (1985).

Table 661.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING,  
PINEAPPLE CANNING, AND MANUFACTURING: 1976 TO 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported <u>1/</u>	Total	Sugar processing	Pineapple canning <u>2/</u>	Manufacturing <u>3/</u>
1976 .....	783,751	275,078	95,488	413,186
1977 <u>4/</u> ...	862,412	284,000	111,942	466,470
1978 <u>4/</u> ...	917,163	291,000	131,665	494,498
1979 .....	1,035,159	305,738	164,200	565,221
1980 .....	1,349,149	527,379	195,766	626,004
1981 .....	1,218,516	415,442	172,342	630,732
1982 .....	1,033,845	317,880	185,367	530,598
1983 .....	1,130,369	435,579	182,967	511,823
1984 .....	1,132,078	414,211	198,266	519,601
1985 .....	1,000,578	357,151	115,754	527,673
1986 .....	937,840	336,334	32,974	568,532

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

2/ Decline after 1984 reflects in part the exemption of exported pineapple produced by two companies from the general excise tax, effective August 1, 1985 and April 30, 1986, when they were granted foreign trade subzone status.

3/ Excludes sugar processing, pineapple canning, and petroleum refining.

4/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 662.-- PINEAPPLE COMPANIES AND CANNERIES AND  
SUGAR COMPANIES AND MILLS: 1940 TO 1986

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies <u>1/</u>	Canneries	Companies <u>2/</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
1986 .....	3	2	14	12
ISLANDS: 1986				
Hawaii .....	-	-	4	4
Maui .....	1	1	3	2
Oahu .....	2	1	2	2
Kauai .....	-	-	5	4

1/ Data include Del Monte, which now sells only fresh pineapple.

2/ Excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 663.-- EMPLOYMENT IN THE PINEAPPLE AND SUGAR INDUSTRIES: ANNUAL AVERAGES, 1985 AND 1986

Year	Pineapple			Sugar		
	Total	Field	Cannery	Total	Field	Mill
1985 .....	3,850	1,950	1,900	7,550	4,100	3,450
1986 .....	4,050	2,050	2,000	7,300	4,000	3,300

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book, as revised April 1987.

Table 664.-- HAWAIIAN PINEAPPLE PRODUCTION: 1977-1978 TO 1981

[In thousands. Pack year ended May 31 through 1978-1979 and calendar years 1979, 1980, and 1981. Hawaiian pack only; excludes overseas production by Hawaiian companies. Compilation of these statistics was suspended after 1981]

Year	Canned fruit		Canned juice		Frozen concentrate	
	Actual cases	Standard cases <u>1/</u>	Actual cases	Standard cases <u>2/</u>	Equivalent 6/10 cases	Standard cases <u>2/</u>
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979 .....	10,930	7,470	7,699	6,010	308	280
1980 .....	9,918	6,940	8,114	6,410	237	215
1981 .....	9,759	6,830	7,997	6,320	219	200

1/ 24 No. 2 1/2 can, 45-lb. cases.

2/ 24 No. 2 1/2 can, 42 1/2-lb. cases.

Source: The Pineapple Growers Association of Hawaii, records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).



Table 665.-- SUGAR AND MOLASSES PRODUCTION: 1967 TO 1986

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area <u>1/</u>		96° raw value	Equivalent refined	
1967 ...	239,813	111,837	11,045,949	1,191,042	1,113,148	359,170
1968 ...	242,476	113,525	11,279,920	1,232,182	1,151,597	368,050
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

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).

Table 666.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1967 TO 1986

Year	Average raw sugar price <sup>1/</sup> (cents per lb.)	Hourly-rated employees		Industry-wide strikes (weeks)	Average daily earnings <sup>2/</sup> (dollars)	
		Average number <sup>3/</sup>	Total man-days		Cash wages	Employee benefits
1967 ...	7.28	9,756	2,346,197	-	21.35	7.50
1968 ...	7.52	9,481	2,282,654	-	21.62	8.40
1969 ...	7.75	9,213	2,066,244	5	23.26	9.76
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

<sup>1/</sup> 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.

<sup>2/</sup> For non-supervisory employees.

<sup>3/</sup> Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised and updated.

Table 667.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE  
AND SUGAR PRODUCTION: 1970 TO 1986

[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 <sup>o</sup>	Commercial molasses	
1970 ..	135.0	3.60	180.7	7.1	10.3
1971 ..	137.7	3.70	196.3	6.7	10.7
1972 ..	140.5	4.90	176.6	8.1	9.7
1973 ..	135.0	7.40	203.8	18.4	9.5
1974 ..	118.2	8.85	659.2	17.4	8.6
1975 ..	126.6	10.08	354.6	11.5	-
1976 ..	130.0	14.49	245.5	11.5	-
1977 ..	140.0	21.58	219.1	7.7	48.7
1978 ..	133.4	29.45	269.5	15.7	8.1
1979 ..	176.3	30.08	322.2	23.5	-
1980 ..	192.2	34.34	566.4	27.7	-
1981 ..	172.0	45.63	314.2	13.7	-
1982 ..	156.1	49.92	343.9	7.6	-
1983 ..	171.6	47.40	396.5	13.7	-
1984 ..	202.0	47.60	382.9	10.1	-
1985 ..	171.7	50.84	331.9	8.9	-
1986 ..	188.5	53.46	348.4	13.5	-

1/ Value of canned fruit and juices and by products shipped  
out-of-State and sold within State. Prior to 1979, data are for pack  
years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered  
wholesalers local sales.

Source: Hawaii Agricultural Statistics Service, Statistics of  
Hawaiian Agriculture (annual) and records.

## Section 23

# DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services. Related data are included in Sections 7, 12, 14 and 15.

These activities have undergone rapid growth in recent decades, in part because of higher price levels. Retail sales increased from \$751 million in 1963 to \$1.9 billion in 1972 and \$5.2 billion in 1982. Wholesale sales rose from \$1.6 billion in 1972 to \$4.1 billion in 1982. Hotels, amusements, and other services reported receipts exceeding \$2.6 billion in 1982, compared with \$665 million in 1972. General excise and use tax base data for more recent years indicate continued increases; between 1982 and 1986, the retailing tax base rose 34 percent, the wholesaling base by 39 percent, and the base for services by 46 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 \$454 million in 1986.

Growth has been especially rapid for hotels and related facilities. The number of units in the State rose from 6,800 in 1959 to 37,000 in 1973 and 65,000 in 1987. There were 510 hotels, motels and apartment-hotels in Hawaii on the latter date, including 307 on the Neighbor Islands. One-third of all transient units were in condominium structures. Occupancy rates averaged 86 percent in Waikiki and 75 percent on the Neighbor Islands during 1986. The average daily room rate was \$73 in 1986. Total hotel rentals in 1986 exceeded \$1.2 billion, or \$28,000 per unit.

Eighty-one feature motion pictures and television specials and series were filmed in Hawaii in 1986, accounting for local expenditures of \$35 million.

The major source of these data are the United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently published for 1982. 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 and Economic Development 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: 1987, Section 29, presents similar data for other states and the nation as a whole.

Table 668.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES:  
1958 TO 1982

[Excludes establishments on military bases]

Year	Retail trade		Wholesale trade		Selected services	
	Estab- lish- ments	Sales (\$1,000)	Estab- lish- ments	Sales (\$1,000)	Estab- lish- ments	Receipts (\$1,000)
1958 (1963 def.)	4,760	516,177	793	618,155	3,070	101,142
1963 .....	4,578	751,411	974	735,205	3,431	163,094
1967 .....	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977 (1977 def.)	7,388	3,294,118	1,569	2,571,489	8,023	1,276,163
1977 (1982 def.)	7,477	3,296,714	1,569	2,571,489	(1/)	(1/)
1982 .....	8,917	5,193,406	1,737	4,084,369	(I/)	(I/)

1/ Comparable data not available. Service establishments with payroll and subject to Federal income tax numbered 6,124 in 1982, with receipts of \$2,659,651,000.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census 1977 Census of Retail Trade, RC77-A-12, table 2; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 2; 1977 Census of Service Industries, SC77-A-12, table 2; 1982 Census of Retail Trade, RC82-A-12, table 2; 1982 Census of Wholesale Trade, WC82-A-12, table 2; 1982 Census of Service Industries, SC82-A-12, table 1a.

Table 669.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES:  
1976 TO 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported <u>1/</u>	Retailing	Services <u>2/</u>	Theater, amusement, broadcasting, etc.	Wholesaling
1976 .....	3,724,487	978,091	82,134	1,721,874
1977 <u>3/</u> ...	4,222,169	1,095,066	92,827	1,989,981
1978 <u>3/</u> ...	4,774,076	1,222,996	104,085	2,158,707
1979 .....	5,519,889	1,412,195	109,143	2,800,951
1980 .....	6,109,628	1,743,003	121,562	2,986,877
1981 .....	6,700,750	1,809,913	129,501	3,528,763
1982 .....	6,874,963	1,905,068	130,280	3,207,768
1983 .....	7,438,193	2,134,524	144,095	3,694,220
1984 .....	8,111,893	2,368,415	153,723	4,025,324
1985 .....	8,499,254	2,481,669	154,830	4,095,220
1986 .....	9,239,373	2,784,169	159,881	4,443,166

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/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 670.-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS, FOR THE STATE,  
1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

[Excludes establishments on military bases]

Subject	1977 <sup>1/</sup>	1982		
		State total	Oahu	Neighbor islands
All establishments:				
Number .....	7,477	8,917	6,347	2,570
Sales (\$1,000) .....	3,296,714	5,193,406	3,962,598	1,230,808
Unincorporated businesses (number):				
Individual proprietorships .....	3,120	3,656	2,591	1,065
Partnerships .....	516	556	392	164
Establishments with payroll:				
Number .....	5,273	6,139	4,318	1,821
Sales (\$1,000) .....	3,225,311	5,101,671	3,898,767	1,202,904
Annual payroll (\$1,000) .....	458,782	696,438	539,170	157,268
First quarter payroll (\$1,000) ....	111,143	164,950	127,260	37,690
Paid employees for pay period including March 12 (number) .....	72,098	81,979	63,620	18,359

1/ The 1977 data on total establishments, total sales, sales of establishments with payroll, and annual payroll have been revised for comparability with the 1982 data; the 1977 data on unincorporated businesses, number of establishments with payroll, first quarter payroll, and paid employees are unrevised. Unrevised figures for those data subsequently revised are as follows: total establishments, 7,388; total sales, \$3,294,118,000; sales of establishments with payroll, \$3,222,715,000; annual payroll, \$460,322,000.

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), tables 1, 2, 4, and 5.

Table 671.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH  
2,500 INHABITANTS OR MORE: 1982

[Excludes establishments on military bases]

Geographic area	All establishments		Establishments with payroll	
	Number	Sales (\$1,000)	Number	Sales (\$1,000)
State total .....	8,917	5,193,406	6,139	5,101,671
Hawaii County .....	1,039	492,154	738	481,664
Hilo .....	445	285,856	345	283,381
Kailua .....	216	103,003	162	100,759
Balance of county ....	378	103,295	231	97,524
Honolulu County .....	6,347	3,962,598	4,318	3,898,767
Ahuimanu .....	16	(D)	6	(D)
Aiea .....	274	254,358	189	252,013
Ewa .....	6	(D)	4	(D)
Ewa Beach .....	45	10,100	17	9,604
Hauula .....	13	5,304	6	5,269
Heeia .....	10	341	-	-
Hickam Housing .....	-	-	-	-
Honolulu .....	4,595	2,859,473	3,280	2,813,522
Iroquois Point .....	-	-	-	-
Kahaluu .....	5	(D)	1	(D)
Kailua .....	244	152,715	154	150,387
Kaneohe .....	220	182,230	138	180,237
Laie .....	13	1,738	2	(D)
Maile .....	7	2,783	6	(D)
Makaha .....	10	3,702	4	3,633
Makakilo City .....	15	2,599	5	2,424
Maunawili .....	19	1,643	4	1,569
Mililani Town .....	59	23,226	20	22,233
Mokapu .....	1	(D)	1	(D)
Nanakuli .....	16	10,567	11	10,469
Pearl City .....	186	122,823	90	120,958
Schofield Barracks ...	3	1,430	3	1,430
Wahiawa .....	140	55,200	89	54,208
Waialua .....	14	4,717	8	(D)
Waianae .....	56	41,490	38	41,148
Waimanalo .....	33	14,349	23	14,062
Waimanalo Beach .....	1	(D)	-	-
Waipahu .....	196	133,233	123	130,512
Waipio Acres .....	4	331	2	(D)
Balance of county ....	146	57,318	94	55,667

Continued on next page.



Table 671.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH  
2,500 INHABITANTS OR MORE: 1982 -- Con.

Geographic area	All establishments		Establishments with payroll	
	Number	Sales (\$1,000)	Number	Sales (\$1,000)
Kauai County .....	539	219,418	365	211,628
Hanamaulu .....	6	1,011	4	(D)
Kalaheo .....	14	2,724	5	2,334
Kapaa .....	150	47,147	102	45,487
Kekaha .....	10	2,146	4	1,998
Lihue .....	168	100,040	131	97,769
Balance of county ....	191	66,350	119	(D)
Maui County .....	992	519,236	718	509,612
Island of Lanai .....	11	3,728	9	(D)
Island of Molokai ....	45	14,147	30	13,852
Kahului .....	183	161,665	138	159,831
Kihei .....	85	42,021	56	41,442
Lahaina .....	309	138,309	251	135,396
Makawao .....	22	4,840	5	4,213
Pukalani .....	24	8,715	16	(D)
Wailuku .....	147	61,074	96	60,051
Balance of county ....	166	84,737	117	82,869

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), table 8.

Table 672.-- RETAIL TRADE, BY KIND OF BUSINESS: 1982 AND 1977

[Limited to establishments with payroll. Excludes establishments on military bases]

SIC code	Kind of business	Number of establishments, 1982	Sales		
			1982 (\$1,000)	1977 (\$1,000)	Percent change
	Retail trade .....	6,139	5,101,671	3,225,311	58.2
52	Building materials, hardware, garden supply .....	126	149,622	75,697	97.7
53	General merchandise .....	153	657,247	581,366	13.1
54	Food stores .....	797	1,081,175	651,163	66.0
55 ex. 554	Automotive dealers .....	227	540,566	458,497	17.9
554	Gasoline service stations ..	366	400,141	173,075	131.2
56	Apparel and accessory stores	793	379,746	208,514	82.1
57	Furniture, home furnishings, and equipment stores .....	335	160,828	98,135	63.9
58	Eating and drinking places .	1,741	872,558	478,966	82.2
591	Drug and proprietary stores	121	337,590	178,392	89.2
59 ex. 591	Miscellaneous retail stores	1,480	522,198	321,506	62.4

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1 and 2.

Table 673.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS  
WITH PAYROLL, FOR THE STATE AND OAHU: 1982

Merchandise line	Number of establishments		Sales (\$1,000)	
	State total	Oahu	State total	Oahu
Total retail trade <sup>1/</sup> .....	6,139	4,318	5,101,671	3,898,767
Groceries and other foods .....	1,127	760	908,817	638,919
Meals and snacks .....	1,852	1,394	762,547	615,707
Alcoholic drinks .....	892	650	139,845	108,396
Packaged alcoholic beverages .....	616	407	150,107	112,975
Cigars, cigarettes, and tobacco .....	717	482	63,754	49,745
Drugs, health aids, and beauty aids .....	674	433	265,268	208,242
Men's and boys' clothing exc. footwear ..	816	500	186,809	146,419
Women's and girls' wear exc. footwear ...	977	608	358,826	285,930
Footwear exc. infants and toddlers .....	494	320	67,200	55,486
Sewing, knitting, and needlework goods ..	178	95	25,803	19,439
Curtains, draperies, and dry goods .....	223	118	33,762	26,956
Major household appliances .....	173	104	47,975	34,574
Small electric appliances .....	202	124	31,128	22,813
TVs and video recorders and tapes .....	156	104	23,670	18,699
Audio equipment and musical instruments and supplies .....	270	173	47,674	38,482
Furniture and sleep equipment .....	185	128	73,472	55,307
Floor coverings .....	122	70	15,436	10,450
Kitchenware and home furnishings .....	430	270	54,895	43,674
Jewelry .....	860	584	165,600	137,562
Optical goods .....	103	73	10,010	8,550
Sporting goods .....	313	202	56,792	44,229
Hardware, tools, and plumbing and electrical supplies .....	253	130	56,361	37,555
Lawn and garden equipment and supplies ..	311	183	51,630	37,276
Lumber and building materials .....	152	82	100,242	54,935
Cars, trucks, and powered vehicles .....	97	69	391,570	320,107
Automotive fuels .....	425	286	365,151	274,029
Automotive lubricants .....	428	282	10,627	7,539
Auto tires, batteries, and accessories ..	518	343	121,699	84,532
All other merchandise .....	1,220	787	354,915	277,014
Unclassified merchandise .....	634	434	30,577	24,303
Nonmerchandise receipts .....	923	676	127,232	96,847
Miscellaneous merchandise .....	(X)	(X)	2,277	2,076

X Not applicable.

<sup>1/</sup> Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

Source on next page.

Table 673.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS  
WITH PAYROLL, FOR THE STATE AND OAHU: 1982 -- Con.

Source: U.S. Bureau of the Census, Census of Retail Trade: Merchandise Line Sales, Hawaii, 1982 (unpublished tabulations filed in the Hawaii State Department of Business and Economic Development Library); cited in Hawaii State Department of Planning and Economic Development, Merchandise Line Sales in Hawaii, 1982 (Statistical Report 185, February 24, 1986).

Table 674.-- RETAIL SALES, BY TYPE OF STORE: 1982 AND 1985  
[In millions of dollars. Data are estimates]

Type of store	1982	1985
Total <sup>1/</sup> .....	5,193	6,683
Food stores .....	1,101	1,282
Supermarkets .....	976	1,140
General merchandise stores .....	659	843
Department stores .....	445	574
Automotive dealers .....	551	896
Eating and drinking places .....	880	1,172
Gasoline service stations .....	411	410
Apparel and accessories stores .....	383	555
Building materials, hardware dealers .....	154	199
Furniture, appliance, home furnishings ...	167	218
Furniture .....	59	67

<sup>1/</sup> Includes other types of stores, not shown separately.

Source: Market Statistics data cited in Statistical Abstract of the United States: 1987, pp. 760-761.

Table 675.-- CHARACTERISTICS OF TEN LARGEST RETAILERS: 1983-1984

Name	Number of stores, 1984	Number of employees, 1984	Sales (mil. dol.)		Store area, 1984 (1,000) sq. ft.)
			1984	1983	
Foodland .....	28	1,270	213	205	735
Liberty House .....	50	(NA)	208	193	(NA)
Duty Free (Hawaii Division)	4	1,200	182	167	(NA)
Times Super Market .....	14	950	*170	*126	(NA)
Sears Roebuck .....	6	2,000	*130	(NA)	850
Servco Pacific .....	1/ 2	(NA)	130	102	(NA)
Safeway Stores .....	12	800	130	104	336
Longs Drugs .....	16	>1,000	*118	(NA)	*240
Daiei (USA) .....	4	780	100	87	411
Star Markets .....	9	550	95	94	300

\* Estimated.

NA Not available.

1/ Retail stores only.

Source: Hawaii Business, December 1985, p. 46.

Table 676.-- DEPARTMENT STORE SALES, FOR OAHU: 1982 TO 1985

[For earlier years, 1948-1982, see Data Book 1984, table 672. This survey was discontinued after April 1986]

Subject	1982	1983	1984	1985
Number of department stores, Dec. ....	21	(NA)	23	22
Department store sales 1/ (\$1,000) ...	453,656	505,294	527,935	548,771

NA Not available.

1/ Includes sales of leased departments.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (Sept. 1984), table 4; "Revised Monthly Retail Sales and Inventories, January 1975 through December 1984," Current Business Reports, BR-13-85 (April 1985), p. 54; "Monthly Retail Trade, Sales and Inventories, December 1985," Current Business Reports, BR-85-12 (Feb. 1986), tables 8 and 8A.

Table 677.-- EATING PLACES AND DRINKING PLACES: 1982

[Data limited to establishments with payroll. Excludes establishments on military bases]

Subject	Restaurants and lunch-rooms	Cafeterias	Refreshment places	Drinking places
All establishments:				
Number of establishments .....	773	26	545	300
Seating capacity .....	81,891	2,037	22,228	(NT)
Sales (\$1,000) .....	466,188	9,588	262,001	63,043
With waiter or waitress service:				
Number of establishments .....	773	6	96	290
Sales (\$1,000) .....	466,188	1,061	44,004	61,136
Establishments by average cost per meal:				
Under \$2.00 .....	9	-	83	...
\$2.00 to \$4.99 .....	350	23	406	...
\$5.00 to \$9.99 .....	232	3	56	...
\$10.00 or more .....	182	-	-	...
Establishments by primary type of food service:				
Table, booth, counter seat with waiter/ waitress service .....	773	-	59	...
Order and pay at counter with inside seating .....	-	-	272	...
Cafeteria line with inside seating .....	-	26	1	...
Take out/drive through .....	-	-	182	...
Other .....	-	-	31	...
Franchise holders:				
Number of establishments .....	48	(NT)	120	(NT)
Sales (\$1,000) .....	31,158	(NT)	60,831	(NT)

NT Not tabulated.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), tables 7, 9, 11, and 14.

Table 678.-- RESTAURANT CHARACTERISTICS: 1983

[Based on a survey of 1,768 restaurants]

Subject	Percent	Subject	Percent
Island, total .....	100.0	Meals served, total .....	100.0
Oahu .....	71.7	All 3 meals .....	36.8
Other islands .....	28.3	Lunch and dinner only .....	34.0
Locality, total .....	100.0	Breakfast and lunch only .....	10.5
Business district .....	33.8	Other combinations .....	18.7
Tourist area .....	24.9	Average check, total .....	100.0
Other .....	41.3	\$3.00 or less .....	27.7
Type of service, total ..	100.0	\$3.01 to \$6.00 .....	37.7
Fast food .....	27.3	\$6.01 to \$10.00 .....	18.2
Family .....	21.6	\$10.01 or more .....	16.4
Other .....	51.1	Average amount .....	\$6.44
Price, total .....	100.0	Liquor served, total .....	100.0
Inexpensive .....	44.2	None .....	52.8
Moderate .....	51.8	Liquor, beer, and wine .....	39.3
Expensive .....	4.0	Other combinations .....	7.9
Ownership, total .....	100.0	Annual food/beverage sales, total	100.0
Independent .....	65.4	Under \$100,000 .....	25.1
Chain-owned .....	11.6	\$100,000 to \$299,999 .....	26.3
Other types .....	23.0	\$300,000 to \$999,000 .....	29.3
Types of food: <sup>1/</sup>		\$1,000,000 and over .....	19.3
American .....	64.4	Percent of sales to tourists,	
Japanese .....	25.8	total .....	100.0
Chinese .....	19.8	Under 10 .....	48.1
Seafood .....	14.8	10 to 49 .....	24.5
Hawaiian .....	14.5	50 or more .....	27.5
Continental .....	12.3	Average number of years in	
Italian .....	11.1	business .....	10.0
Korean .....	8.5	Average number of food and	
Filipino .....	7.6	beverage employees .....	23.9
Mexican .....	7.1	Full-time .....	13.8

<sup>1/</sup> Multiple responses.

Source: Morton Fox and Danny Breatchel, Survey of the Hawaii Restaurant Industry (University of Hawaii at Manoa, School of Travel Industry Management, 1984).

Table 679.- EMPLOYMENT IN EATING AND DRINKING PLACES:  
1964 TO 1986

[Annual average employment for workers covered by the Hawaii  
Employment Security Law]

Year	Employment	Year	Employment	Year	Employment
1964 ...	10,953	1972 ...	20,314	1980 ...	34,459
1965 ...	12,149	1973 ...	22,449	1981 ...	34,911
1966 ...	13,071	1974 ...	23,963	1982 ...	34,508
1967 ...	14,355	1975 ...	24,988	1983 ...	35,764
1968 ...	14,921	1976 ...	26,678	1984 ...	37,628
1969 ...	16,474	1977 ...	28,792	1985 ...	40,171
1970 ...	18,022	1978 ...	31,792	1986 ...	41,587
1971 ...	18,698	1979 ...	33,500		

Source: Hawaii State Department of Labor and Industrial  
Relations, Employment and Payrolls in Hawaii (annual).

Table 680.-- LIQUOR AND TOBACCO TAX BASES: 1982 TO 1986

[Wholesale value, in thousands of dollars. By calendar year in which  
reported; data accordingly refer in general to liquor and tobacco  
sales for 12-month periods ended November 30. Excludes sales on  
military bases]

Tax	1982	1983	1984	1985	1986
Liquor tax base <sup>1/</sup> .....	149,859	145,935	143,668	161,107	( <sup>2/</sup> )
Base for taxes paid ....	34,865	14,009	57,621	70,352	( <sup>2/</sup> )
Base for taxes contested	114,994	131,927	86,047	90,755	( <sup>2/</sup> )
Tobacco tax base .....	37,338	49,580	48,262	47,188	51,796

<sup>1/</sup> In 1979, several major distributors legally contested the State  
liquor tax law. Tax revenues that otherwise would have been collected under  
this law were held in escrow until the courts ruled on the case.

<sup>2/</sup> As of July 1, 1986, the excise tax on liquor was replaced by a  
gallonage tax.

Source: Hawaii State Department of Taxation, "Liquor Tax Base,  
Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual  
release), and records.



Table 681.-- APPARENT CONSUMPTION OF ALCOHOL BEVERAGES, TOTAL AND PER CAPITA, BY TYPE OF BEVERAGE: 1980 TO 1985

Year	Total (1,000 gallons)			Per capita <sup>1/</sup> (gallons)		
	Dis-tilled spirits	Wine	Beer	Dis-tilled spirits	Wine	Beer
1980 ....	2,175	2,685	27,621	2.1	2.5	26.2
1981 ....	2,165	2,628	29,633	2.0	2.5	27.8
1982 ....	2,155	2,879	31,149	2.0	2.6	28.6
1983 ....	2,180	2,727	33,325	2.0	2.4	29.9
1984 ....	1,803	2,593	29,803	1.6	2.3	26.2
1985 ....	1,762	2,681	29,195	1.5	2.3	25.4

<sup>1/</sup> Based on de facto population estimates in the Hawaii State Department of Planning and Economic Development, Statistical Report 201.

Source: Distilled Spirits Council of the United States, Inc., Public Revenues from Alcohol Beverages (annual), Annual Statistical Review (annual), and letter dated August 5, 1987.

Table 682.-- FLOOR SPACE FOR SELECTED KINDS OF RETAIL BUSINESS: 1982

[Data limited to establishments with payroll. Excludes establishments on military bases]

Kind of business	Number of establishments	Sales (\$1,000)	Under-roof floor space (1,000 sq. ft.)		Sales per square foot of selling space (dollars)	Selling space as percent of total floor space
			Total	Selling		
Department stores <sup>1/</sup> ...	24	444,778	2,058	1,332	334	64.7
Variety stores .....	38	75,993	759	554	137	73.0
Grocery stores .....	502	961,227	3,168	2,278	422	71.9

<sup>1/</sup> Excluding leased departments.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), table 26.

Table 683.-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1985

[Includes all centers on Oahu with more than 200,000 square feet of building area and all centers on other islands with more than 100,000 square feet of building area]

Island and name of center	Location	Year opened	Site area (acres)	Gross lease-able area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center ...	Honolulu	1959	50	1,500	7,800	155
Kahala Mall .....	Honolulu	1970	22	370	1,425	60
Pearl City S. C. ...	Pearl City	1965	15	249	871	60
Pearlridge Center ..	Aiea	1972	54	1,200	4,915	150
Royal Hawaiian S. C.	Honolulu	1981	6	280	600	(NA)
Waikiki Shopping Plaza .....	Honolulu	1977	1	300	300	50
Windward City S.C.	Kaneohe	1959	15	210	(NA)	40
Windward Mall .....	Kaneohe	1982	32	530	2,300	98
Hawaii:						
Kaiko'o Mall S. C. .	Hilo	1970	14	220	950	33
Maui:						
Kaahumanu Center ...	Kahului	1973	25	300	1,400	50
Kahului S. C. ....	Kahului	1951	17	104	1,000	30
Maui Mall .....	Kahului	1971	25	182	1,400	38
Kauai:						
Kukui Grove Center	Lihue	1982	35	311	1,590	52
Lihue S. C. ....	Lihue	1966	9	142	551	24

NA Not available.

Source: Hawaii Chapter, International Council of Shopping Centers, and the Chamber of Commerce of Hawaii, Hawaii Shopping Center Directory, 1985 Edition.

Table 684.-- MAJOR RETAIL CENTERS, FOR OAHU: 1972 TO 1982

[These tabulations were discontinued after 1982]

Geographic area	Number of retail establishments			Retail sales (\$1,000)		
	1972	1977	1982	1972	1977	1982
Oahu total <u>1/</u> .	4,235	5,262	6,347	1,489,602	2,574,973	3,962,598
Honolulu CBD: <u>2/</u>						
1972 definition ..	353	415	(NA)	65,471	94,811	(NA)
1977 definition ..	(NA)	485	523	(NA)	122,873	177,254
Ala Moana Center ...	224	187	196	218,844	307,498	423,895
Waikiki <u>3/</u> .....	597	646	1,082	169,084	307,233	600,615
Kahala Mall .....	60	55	54	41,625	47,407	*82,977
Pearlridge Center ..	32	102	133	18,606	118,867	*173,953

\* Excludes establishments without payroll (Kahala Mall, 1; Pearlridge Center, 3).

NA Not available.

1/ Includes establishments not in major retail centers.

2/ The Honolulu Central Business District was redefined in 1977 to include the area bounded by Nuuanu Stream, School Street, Queen Emma Street, Beretania Street, Richards Street, Halekauwila Street, and Honolulu Harbor. Before 1977, the CBD as defined excluded that part between Beretania Street and School Street. For comparable statistics back to 1948, see DPED Statistical Memorandum 80-7 (July 31, 1980).

3/ Waikiki is defined as the area bounded by the Ala Wai Canal, Kapahulu Avenue, and the Pacific Ocean.

Source: Hawaii State Department of Planning and Economic Development, Retail Trade in Downtown Honolulu, 1948-1977 (Statistical Memorandum 80-7, July 31, 1980). U.S. Bureau of the Census, 1972 Census of Retail Trade, Major Retail Centers, Hawaii, RC72-C-12 (November 1974), table 1; 1977 Census of Retail Trade, Major Retail Centers, Hawaii, RC77-C-12 (February 1980), table 1; 1982 Census of Retail Trade, Major Retail Centers, Hawaii, RC82-C-12 (October 1984), table 1.

Table 685.-- PERCENT OF OAHU RETAIL SALES IN MAJOR RETAIL CENTERS:  
1948 TO 1982

[These series were discontinued after 1982]

Year	Honolulu CBD <sup>1/</sup>		Ala Moana Center	Waikiki	Kahala Mall	Pearlridge Center
	1972 defin.	1977 defin.				
1948 .....	24.4	27.5	...	5.4	...	...
1954 .....	19.7	(NA)	...	(NA)	(NA)	...
1958 .....	15.4	(NA)	...	7.7	1.0	...
1963 .....	9.1	9.5	10.8	7.6	(NA)	...
1967 .....	6.1	(NA)	13.6	9.3	1.8	...
1972 .....	4.4	(NA)	14.7	11.4	2.8	1.2
1977 .....	3.7	4.8	11.9	11.9	1.8	4.6
1982 .....	(NA)	4.5	10.7	15.2	*2.1	*4.5

\*Based on data limited to establishments with payroll.

NA Not available.

<sup>1/</sup> See preceding table, footnote 1.

Source: Hawaii State Department of Planning and Economic Development, Major Retail Centers on Oahu, 1972-1982 (Statistical Memorandum 84-4, November 14, 1984), table 2.

Table 686.-- RETAIL SALES, BY KIND OF BUSINESS, FOR MAJOR RETAIL CENTERS ON OAHU: 1982

[In millions of dollars. Excludes establishments without payroll]

Kind of business	Honolulu CBD	Ala Moana Center	Waikiki	Kahala Mall	Pearlridge Center
All retail stores .....	172.2	423.6	593.3	83.0	174.0
Convenience goods stores .....	(D)	72.8	266.6	41.4	(D)
Shopping goods stores .....	37.2	333.8	293.1	40.9	126.8
All other stores .....	(D)	16.9	33.6	0.7	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Major Retail Centers, Hawaii, RC82-C-12 (October 1984), table 1.

Table 687.-- RETAIL SHOPPING MALL SPACE AND RENTAL RATES,  
FOR OAHU: 1986

Mall classification	Number of centers	Gross leasable area (1,000 sq. ft.)	Vacant		Rental rates (dollars per sq. ft. per mo.)		Common area maintenance (dollars per sq. ft. per mo.)
			1,000 sq. ft.	Percent	Low	High	
Total ....	74	9,108	300	3.3	0.75	6.00	...
Neighborhood ..	29	2,269	54	2.4	1.00	2.00	0.24
Strip .....	22	549	19	3.5	0.75	2.75	0.27
Specialty .....	11	1,296	91	7.0	2.00	6.00	0.79
Community .....	8	1,381	50	3.6	1.25	2.00	0.16
Regional .....	2	913	59	6.5	1.50	4.00	0.39
Super regional	2	2,700	27	1.0	2.00	5.00	0.50

Source: Grubb & Ellis, Honolulu Real Estate 1987, p. 12.

Table 688.-- VIDEOCASSETTE RECORDER SALES: 1978 TO 1986

Year	Total units	Residential use	Commercial use
1978 .....	2,196	2,140	56
1979 .....	3,332	3,124	208
1980 .....	4,892	4,555	337
1981 .....	7,514	6,946	568
1982 .....	15,566	15,178	388
1983 .....	25,360	25,032	328
1984 .....	44,720	44,285	435
1985 .....	63,782	62,548	1,234
1986 .....	52,203	51,795	408

Source: Hawaiian Electric Company, Inc., Market Research, records.

Table 689.-- RETAIL SALES AND HOTEL RECEIPTS OF ESTABLISHMENTS  
OPERATED FOR MILITARY PERSONNEL: 1958 TO 1986

[In thousands of dollars.]

Year	Retail sales <u>1/</u>			Hotel receipts <u>3/</u>
	Total	Commissaries	All other retail sales <u>2/</u>	
1958 .....	50,027	18,511	31,516	-
1959 .....	59,633	20,170	39,463	-
1960 .....	74,742	21,521	53,221	-
1961 .....	76,890	21,692	55,198	-
1962 .....	84,693	23,928	60,765	-
1963 .....	72,689	22,383	50,306	-
1964-1966 .....	(NA)	(NA)	(NA)	-
1967 <u>4/</u> .....	109,467	32,210	77,275	-
1968-1971 .....	(NA)	(NA)	(NA)	-
1972 .....	136,088	37,618	98,470	-
1973 .....	144,857	41,017	103,840	-
1974 .....	158,481	45,682	112,799	-
1975 <u>5/</u> .....	215,947	67,459	148,488	-
1976 .....	229,987	67,183	155,804	6,365
1977 .....	230,601	66,550	164,051	7,356
1978 .....	261,462	77,034	184,429	8,151
1979 .....	266,555	83,595	182,960	8,922
1980 .....	316,985	98,237	218,748	10,114
1981 .....	360,518	107,236	253,281	11,767
1982 .....	405,021	115,314	289,707	13,796
1983 .....	430,354	127,229	303,125	14,288
1984 .....	442,820	129,796	313,023	14,341
1985 .....	438,001	135,014	302,987	14,573
1986 .....	454,093	139,077	315,016	15,839

1/ Calendar year statistics.

2/ Exchanges, eating and drinking places (beginning in 1960), and related facilities. Data are incomplete for food service facilities before 1977 and miscellaneous facilities before 1982.

3/ Room, food, and beverage receipts of Hale Koa Hotel, for years ended September 30. Hale Koa opened in October 1975.

4/ Detail does not add to indicated total, for unknown reason.

5/ Corrected from Data Book 1986, table 664.

Source: Letter from Charles J. Hitch, Assistant Secretary of Defense, October 21, 1963; U.S. Bureau of the Census, Census of Business, 1963, BC63-RA13 (1964), table 8, and Census of Business, 1967, BC67-RA13 (1969), table 7; Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1986 (Statistical Report 198, May 7, 1987), table 2.

Table 690.-- RETAIL SALES AND HOTEL RECEIPTS AT CIVILIAN AND MILITARY ESTABLISHMENTS: 1983 TO 1986

[In millions of dollars]

Year	Retail sales <u>1/</u>			Hotel receipts <u>2/</u>		
	Total	Civilian	Military	Total	Civilian	Military
1983 .....	7,868.6	7,438.2	430.4	867.2	852.9	14.3
1984 .....	8,554.7	8,111.9	442.8	987.9	973.6	14.3
1985 .....	8,937.3	8,499.3	438.0	1,113.2	1,098.6	14.6
1986 .....	9,693.5	9,239.4	454.1	1,151.8	1,136.0	15.8

1/ Calendar year statistics.

2/ Years ended September 30.

Source: Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1986 (Statistical Report 198, May 7, 1987).

Table 691.-- CONSUMER CONFIDENCE AND BUYER EXPECTATION INDEXES, FOR OAHU: QUARTERLY, 1983 TO 1987

[1984 annual average = 100]

Index type and year	First quarter	Second quarter	Third quarter	Fourth quarter
Consumer confidence index:				
1983 .....	...	...	...	92.46
1984 .....	97.93	103.25	98.64	100.16
1985 .....	93.97	103.88	104.85	107.72
1986 .....	107.77	108.67	109.90	108.14
1987 .....	111.12	104.88	-	-
Buyer expectations index:				
1983 .....	...	...	...	117.97
1984 .....	105.46	93.81	100.67	99.96
1985 .....	99.63	93.81	106.46	107.25
1986 .....	105.42	104.56	119.19	118.20
1987 .....	112.34	117.05	-	-

Source: SMS Research & Marketing Services, Honolulu.

Table 692.-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor Islands
Number of establishments .....	1,569	1,737	1,417	320
Sales (\$1,000) .....	2,571,489	4,084,369	3,392,728	691,641
Annual payroll (\$1,000) .....	177,556	287,626	250,836	36,790
First quarter payroll (\$1,000) .....	43,517	69,858	(NA)	(NA)
Paid employees for pay period including March 12 (number) .....	14,695	17,210	14,750	2,460
Operating expenses (\$1,000) .....	375,803	620,882	(NA)	(NA)
Inventories (\$1,000):				
Beginning of year .....	(NA)	457,525	(NA)	(NA)
End of year .....	248,195	440,723	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, Hawaii, WC77-A-12 (Revised) (March 1980), table 1; 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 693.-- WHOLESALE ESTABLISHMENTS, EMPLOYMENT, AND PAYROLL: 1984 AND 1985

Major industry group	Number of establishments		Employees, week including Mar. 12		Annual payroll (\$1,000,000)	
	1984	1985	1984	1985	1984	1985
All wholesale trade ...	1,766	1,827	18,002	18,281	346.5	364.8
Durable goods .....	899	921	8,803	8,938	184.3	197.0
Nondurable goods .....	844	883	8,743	9,006	149.2	158.5
Administrative and auxiliary	23	23	456	337	13.1	9.3

Source: U.S. Bureau of the Census, County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987), p. 1.



Table 694.-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1982

Geographic area	All wholesalers		Merchant wholesalers	
	Number of establishments	Sales (\$1,000)	Number of establishments	Sales (\$1,000)
State total .....	1,737	4,084,369	1,434	2,496,494
Hawaii County .....	159	285,513	133	152,353
Hilo .....	107	242,071	90	(D)
Kailua .....	16	11,835	15	(D)
Honolulu County .....	1,417	3,392,728	1,169	2,140,295
Aiea .....	26	64,848	21	58,510
Ewa Beach .....	12	42,470	10	(D)
Honolulu .....	1,221	2,950,750	1,016	1,872,910
Kailua .....	30	25,978	16	5,776
Kaneohe .....	13	7,460	11	(D)
Pearl City .....	28	73,908	22	37,300
Waipahu .....	31	103,617	27	72,012
Kauai County .....	51	81,030	40	52,557
Lihue .....	33	55,556	25	40,755
Maui County .....	110	325,098	92	151,289
Island of Lanai .....	1	(D)	-	-
Island of Molokai ...	3	(D)	1	(D)
Kahului .....	54	189,855	43	(D)
Wailuku .....	35	41,769	32	(D)

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 8.

Table 695.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1982

Type of operation and kind of business	Number of establishments	Sales (\$1,000)
Wholesale trade .....	1,737	4,084,369
Type of operation:		
Merchant wholesalers .....	1,434	2,496,494
Manufacturers' sales branches and offices .....	160	1,269,797
Agents, brokers, and commission merchants .....	143	318,078
Kind of business:		
Motor vehicles and automotive parts and supplies .....	103	293,883
Furniture and home furnishings .....	59	68,643
Lumber and other construction materials .....	91	126,739
Sporting, recreational, photo, and hobby goods, toys and supplies .....	53	83,413
Metals and minerals, except petroleum .....	12	25,358
Electrical goods .....	107	244,951
Hardware, and plumbing and heating equipment and supplies .....	83	98,641
Machinery, equipment, and supplies .....	268	418,117
Miscellaneous durable goods .....	123	83,484
Paper and paper products .....	66	104,774
Drugs, drug proprietaries, and druggists' sundries .....	42	122,196
Apparel, piece goods, and notions .....	70	71,081
Groceries and related products .....	339	1,187,153
Farm-product raw materials .....	4	4,182
Chemicals and allied products .....	33	68,316
Petroleum and petroleum products .....	42	671,552
Beer, wines, and distilled alcoholic beverages .....	37	175,607
Miscellaneous nondurable goods .....	205	236,279

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 2.

Table 696.-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor islands
Number of establishments .....	(NA)	6,124	4,864	1,260
Excluding health services 1/ ...	(NA)	4,470	3,535	935
Receipts (\$1,000) .....	(NA)	2,659,651	1,974,216	685,435
Excluding health services 1/ ...	1,269,740	2,239,440	1,642,415	597,025
Annual payroll (\$1,000) .....	(NA)	904,328	688,918	215,410
Excluding health services 1/ ...	409,725	729,107	550,547	178,560
First quarter payroll (\$1,000) ...	(NA)	221,453	169,166	52,287
Paid employees for pay period including March 12 (number) ....	(NA)	71,051	52,849	18,202

NA Not available.

1/ Other than hospitals.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a, 2a, 4a, and 5a.

Table 697.-- SERVICE ESTABLISHMENTS, EMPLOYMENT, AND PAYROLL, FOR SELECTED INDUSTRY GROUPS: 1984 AND 1985

Major industry group	Number of establishments		Employees, week including March 12		Annual payroll (1,000,000)	
	1984	1985	1984	1985	1984	1985
All services ...	7,869	8,145	106,179	112,582	1,541	1,711
Hotels .....	241	250	25,698	28,765	329	370
Business services ...	1,063	1,095	15,010	15,746	177	199
Health services .....	1,852	1,921	21,696	21,361	435	465

Source: U.S. Bureau of the Census, County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987), pp. 1-2.

Table 698.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1982

Geographic area	Number of establishments		Receipts (\$1,000)	
	All services	Hotels <u>1/</u>	All services	Hotels <u>1/</u>
State total ....	6,124	209	2,659,651	973,328
Hawaii County .....	551	31	258,568	142,430
Hilo .....	328	11	84,145	11,746
Kailua .....	91	11	53,919	38,275
Honolulu County .....	4,864	118	1,974,216	575,692
Aiea .....	134	2	28,124	(D)
Ewa Beach .....	12	-	1,796	-
Honolulu .....	3,958	109	1,762,672	543,972
Kailua .....	200	1	31,712	(D)
Kaneohe .....	122	-	22,444	-
Makakilo City .....	20	-	2,374	-
Mililani Town .....	16	-	3,504	-
Pearl City .....	103	-	20,529	-
Wahiawa .....	85	-	13,646	-
Waianae .....	24	2	10,889	(D)
Waipahu .....	76	-	15,329	-
Kauai County .....	211	22	88,590	43,623
Kapaa .....	34	5	13,104	8,793
Lihue .....	103	5	47,610	(D)
Maui County .....	498	38	338,277	211,583
Island of Lanai ...	5	1	677	(D)
Island of Molokai .	14	2	3,134	(D)
Kahului .....	145	2	59,277	(D)
Kihei .....	25	3	7,434	(D)
Lahaina .....	68	15	98,651	83,472
Wailuku .....	174	1	40,639	(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, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), table 8.

Table 699.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION: 1982 AND 1977

SIC code	Kind of business or operation	Number of establishments, 1982	Receipts		
			1982 (\$1,000)	1977 (\$1,000)	Percent change
	Total .....	6,124	2,659,651	(D)	(D)
70	Hotels, motels, other lodging .....	209	973,328	548,706	77.4
72	Personal services .....	663	100,785	70,708	42.5
73	Business services .....	1,024	313,686	154,427	103.1
75	Automotive repair, services, and garages .	567	249,342	157,015	58.8
76	Miscellaneous repair services .....	241	47,779	32,369	47.6
78, 79	Amusement and recreation services, incl. motion pictures .....	312	128,452	79,777	61.0
80, ex. 806	Health services, except hospitals .....	1,654	420,211	(D)	(D)
81	Legal services .....	636	173,129	65,120	165.9
823, 4, 9	Selected educational services .....	58	8,032	6,333	26.8
891	Engineering, architectural, surveying serv.	336	158,104	107,129	47.6
893	Accounting, auditing, bookkeeping services ..	308	75,046	43,444	72.7
83, 892, 9	Social and other services	116	11,757	4,712	149.5

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a and 2a.

Table 700.-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1982

[Includes only establishments with payroll]

Subject	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
SUBJECT TO FEDERAL INCOME TAX				
Hotels, motels, other lodging .	209	973,328	287,299	26,078
Hotels .....	178	964,192	284,833	25,718
25 guestrooms or more .....	158	962,079	284,296	25,644
Less than 25 guestrooms .....	20	2,113	537	74
Motels, motor hotels, tourist courts	26	8,935	2,421	352
Other lodging places <u>1/</u> .....	5	201	45	8
EXEMPT FROM FEDERAL INCOME TAX				
Hotels, camps, membership lodging <u>2/</u>	8	1,319	473	64

1/ Trailering parks and camps, 1 establishment; rooming, boarding, and membership lodging, 4.

2/ Hotels, 2 establishments; sporting and recreational camps, 3; organization hotels and lodging houses, on membership basis, 3.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3 and 5.

Table 701.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS:  
1966 TO 1987

[Includes condominium units in rental pools for  
transient occupancy]

Year	Number of hotel units, February <u>1/</u>			Percent of units occupied, annual average <u>2/</u>		
	State total	Oahu	Neighbor Islands	State total <u>3/</u>	Waikiki	Neighbor Islands
1966 .....	14,827	11,083	3,744	(NA)	83.7	67.1
1967 .....	17,217	12,598	4,619	85.5	90.0	72.8
1968 .....	18,657	13,166	5,491	83.7	89.2	75.2
1969 .....	22,801	15,992	6,809	77.8	81.3	69.3
1970 .....	26,923	18,449	8,474	71.2	74.1	64.8
1971 .....	32,289	22,531	9,758	60.4	58.9	63.5
1972 .....	35,797	24,742	11,055	68.9	70.0	66.4
1973 .....	36,608	25,108	11,500	77.7	81.5	70.2
1974 .....	38,675	25,365	13,310	77.5	82.0	69.4
1975 .....	39,632	25,352	14,280	74.1	78.3	68.3
1976 .....	42,648	25,851	16,797	76.9	82.6	68.4
1977 .....	44,986	27,363	17,623	77.4	81.2	71.7
1978 .....	47,070	28,546	18,524	79.5	82.1	75.5
1979 .....	49,832	30,065	19,767	73.8	77.1	70.2
1980 .....	54,246	34,334	19,912	69.3	71.7	64.1
1981 .....	56,769	33,967	22,802	68.2	73.9	59.8
1982 .....	57,968	33,492	24,476	70.4	77.7	60.0
1983 .....	58,765	34,354	24,411	69.7	76.6	60.9
1984 .....	62,448	36,848	25,600	76.0	82.6	69.1
1985 .....	65,919	38,600	27,319	76.1	80.8	69.7
1986 .....	66,308	39,010	27,298	81.7	85.7	75.3
1987 .....	65,318	38,185	27,133	(NA)	(NA)	(NA)

NA Not available.

1/ Except 1966 (January).

2/ Data for 1976 and later years omit several major hotels.

3/ Data include Oahu outside Waikiki, not shown separately.

Source: Hawaii Visitors Bureau, Annual Research Report (annual),  
Visitor Plant Inventory (periodic), and records.

Table 702.-- VISITOR ACCOMMODATIONS, BY TYPE, 1977 TO 1987, AND BY ISLANDS, 1987

[As of February]

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>
1977 .....	335	(NA)	(NA)	44,986	39,901	5,085
1978 .....	353	(NA)	(NA)	47,070	40,001	7,069
1979 .....	381	(NA)	(NA)	49,832	41,299	8,533
1980 .....	387	(NA)	(NA)	54,246	42,609	11,637
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
ISLANDS:						
1987						
Oahu .....	203	105	98	38,185	28,949	9,236
Waikiki <u>3/</u>	173	88	85	34,014	25,722	8,292
Rest of Oahu	30	17	13	4,171	3,227	944
Other islands	307	91	216	27,133	14,473	12,660
Hawaii .....	81	30	51	7,328	5,226	2,102
Maui .....	141	29	112	13,264	5,591	7,673
Lanai .....	1	1	-	10	10	-
Molokai .....	7	2	5	575	321	254
Kauai .....	77	29	48	5,956	3,325	2,631

NA Not available.

1/ Hotels, apartment hotels, motels, and cottages. Excludes condominium properties.

2/ Condominium accommodations in rental pools for transient use.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal. The 88 hotel properties include 61 hotels (with 24,457 units), 26 apartment hotels (with 1,253 units), and 1 cottage facility (with 12 units).

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, 1977 to 1987.



Table 703.-- GENERAL EXCISE TAX BASE FOR RENTALS:  
1976 TO 1986

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported <u>1/</u>	Total	Hotel rentals	All other rentals <u>2/</u>
1976 .....	1,161,955	433,300	728,655
1977 <u>3/</u> .....	1,274,918	482,990	791,929
1978 <u>3/</u> .....	1,392,947	535,874	857,073
1979 .....	1,699,947	672,098	1,027,848
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

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 704.-- HOTEL OCCUPANCY AND ROOM RATES, AND FOOD AND BEVERAGE SALES, BY ISLANDS: ANNUAL AVERAGES, 1985 AND 1986

[1985 figures revised from Data Book 1986, table 680]

Subject and year	The State	Oahu	Hawaii	Maui	Kauai
Percentage of occupancy:					
1985 .....	77.55	81.87	58.52	78.18	67.08
1986 .....	81.66	85.35	62.85	81.54	77.62
Average daily room rate (dollars):					
1985 .....	65.66	57.00	65.35	96.75	69.51
1986 .....	73.20	62.13	75.19	113.66	75.37
Average daily guest rate (dollars):					
1985 .....	33.51	29.65	33.04	47.13	33.95
1986 .....	36.80	31.83	38.16	54.36	36.03
Average daily food sales per room (dollars):					
1985 .....	21.10	17.30	32.09	30.09	24.56
1986 .....	22.88	19.26	30.78	31.33	27.37
Average daily beverage sales per room (dollars):					
1985 .....	6.86	5.24	10.70	11.46	7.37
1986 .....	6.83	5.61	9.36	9.79	8.25
Average food sales per cover (dollars):					
1985 .....	10.80	10.21	12.41	11.49	11.16
1986 .....	11.35	10.91	12.13	11.97	11.84

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii, December 1986.

Table 705.-- PERCENT OF HOTEL UNITS OCCUPIED, BY GEOGRAPHIC AREAS:  
ANNUAL AVERAGES, 1980 TO 1986

[Includes resort condominium units. Coverage prior to 1986  
excluded several major hotel chains]

Geographic area	1980	1981	1982	1983	1984	1985	1986
State total .....	69.3	68.2	70.4	69.7	76.0	76.1	81.7
Oahu .....	72.3	74.1	77.8	75.8	81.2	81.5	85.4
Waikiki .....	71.7	73.9	77.7	76.6	82.6	80.8	85.7
Hawaii .....	51.0	44.9	44.0	44.7	55.6	57.6	62.9
Hilo .....	34.4	35.3	37.7	39.2	58.2	57.8	54.6
Kailua-Kona .....	59.0	49.4	46.9	47.0	54.9	57.5	64.6
Maui .....	74.2	70.3	73.9	75.2	80.5	78.5	81.5
West Maui .....	76.1	73.7	78.0	77.8	84.1	82.5	85.8
Other .....	68.4	58.3	61.4	67.0	70.3	69.6	70.9
Kauai .....	69.6	62.7	57.5	57.2	63.0	64.8	77.6
South .....	52.5	46.2	44.2	50.2	63.1	70.1	82.1
East .....	75.1	68.5	63.4	59.3	63.0	62.6	75.4
Neighbor island average .....	64.1	59.8	60.0	60.9	69.1	69.7	75.3

Source: Hawaii Visitors Bureau, Annual Research Report for 1980-1986 and records, from surveys by Pannell Kerr Forster for the Hawaii Hotel Association.

Table 706.--AVERAGE DAILY ROOM AND GUEST RATES, BY ISLANDS:  
1977 TO 1987

[In dollars. Annual averages, unless otherwise specified]

Type of rate and year	The State	Oahu	Hawaii	Maui	Kauai	Molo- kai <u>1/</u>
Average daily room rate:						
1977 .....	34.28	31.87	33.08	42.59	38.45	...
1978 .....	38.49	35.95	36.46	47.49	42.20	...
1979 .....	44.41	41.32	41.93	57.10	47.90	...
1980 .....	47.28	42.83	46.40	61.14	54.38	...
1981 .....	49.73	43.05	47.16	73.27	56.06	...
1982 .....	51.78	44.80	47.37	75.02	58.48	...
1983 .....	54.78	46.93	48.84	81.60	59.78	...
1984 .....	59.25	49.45	57.17	88.89	65.05	...
1985 .....	68.84	57.70	64.06	98.51	70.06	...
1986 .....	73.20	62.13	75.19	113.66	75.37	55.96
1987 <u>2/</u> .....	79.83	68.73	81.74	127.07	81.29	63.94
Average daily guest rate:						
1977 .....	17.42	16.42	16.62	21.22	18.91	...
1978 .....	19.41	18.23	18.41	23.62	20.60	...
1979 .....	22.70	21.10	21.59	29.70	23.75	...
1980 .....	24.40	22.32	24.03	31.52	26.32	...
1981 .....	25.70	22.56	24.41	37.04	27.42	...
1982 .....	26.44	23.39	24.64	35.82	28.84	...
1983 .....	27.71	24.28	22.29	40.53	29.66	...
1984 .....	29.59	24.91	29.00	43.64	31.31	...
1985 .....	34.39	29.24	32.33	47.86	33.95	...
1986 .....	36.80	31.83	38.16	54.36	36.03	25.81
1987 <u>2/</u> .....	40.13	35.45	41.18	59.88	37.61	28.98

1/ Not available before 1986. Data for 1986 are for first 11 months.

2/ First 11 months.

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii (monthly).

Table 707.-- HOTEL EMPLOYMENT, PAYROLL, AND RENTAL RATIOS:  
1983 TO 1986

[All series in this table exclude condominium units in rental pools  
for transient occupancy]

Subject	1983	1984	1985	1986
Hotel units, February .....	45,352	44,846	44,115	43,422
Hotel employment, annual average <u>1/</u> .	26,888	28,262	28,947	29,300
Per hotel unit .....	0.593	0.630	0.656	0.675
Hotel payrolls, annual <u>1/</u> (\$1,000) ..	329,267	369,292	393,701	424,684
Per hotel unit (dollars) .....	7,260	8,235	8,924	9,780
Per hotel employee (dollars) .....	12,246	13,067	13,601	14,494
Hotel rentals, annual <u>2/</u> (\$1,000) ...	876,227	984,518	1,122,268	1,212,782
Per hotel unit (dollars) .....	19,321	21,953	25,440	27,930
Per hotel employee (dollars) .....	32,588	34,835	38,770	41,392

1/ For workers covered by the Hawaii Employment and Security Law.

2/ General excise tax base.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (February issues); Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual); Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 708.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES,  
BY COUNTIES: 1985

Subject	State total	Hono- lulu	Ha- waii	Kauai and Maui
Establishments with payroll .....	443	362	28	<u>1/</u> 53
Employees, week including March 12 ...	4,686	4,078	223	385
Annual payroll (\$1,000) .....	60,758	53,925	2,435	4,398

1/ Kauai County, 12; Maui County, 41.

Source: Data for SIC 4722, passenger transportation arrangement, in U.S. Bureau of the Census, County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987).

Table 709.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES: 1982

[Data limited to establishments with payroll. For 1977 data, see Data Book 1984, table 688; for 1972, see Data Book 1977, table 360]

Subject	Total	Travel agencies	Tour operators	Other services
STATE TOTALS				
Number of establishments .....	403	232	110	61
Receipts (\$1,000) .....	128,484	39,021	68,506	20,957
Annual payroll (\$1,000) .....	44,268	15,858	21,540	6,870
Paid employees, mid-March .....	4,125	1,625	1,931	569
OAHU				
Number of establishments .....	351	196	101	54
Receipts, total (\$1,000) .....	116,923	34,278	64,672	17,973
Commissions 1/ .....	(S)	(S)	3,483	(S)
Tour operations 2/ .....	(S)	(S)	56,682	(S)
All other sources .....	(S)	(S)	4,507	(S)
Annual payroll (\$1,000) .....	40,277	13,984	20,176	6,117
Paid employees, mid-March .....	3,685	1,433	1,780	472

S Withheld because estimates did not meet publication standards.

1/ Includes commissions and other receipts from retail sale of passenger transportation and lodging.

2/ Receipts consist of difference between cost of assembling tours and price received, whether sold at wholesale only or both wholesale and retail. For tour operators selling at retail only, difference between selling price and cost is included with "commissions and other receipts."

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 46 and 47.

Table 710.-- SELECTED SERVICE INDUSTRIES: 1982

[Includes only establishments with payroll]

Kind of business	SIC code	Estab- lish- ments (number)	Receipts <sup>1/</sup> (\$1,000)	Annual payroll (\$1,000)	Paid em- ployees, <sup>2/</sup> mid- March
STATE TOTALS					
Architectural services .....	891	146	55,734	19,682	927
Engineering services .....	891	166	98,612	42,680	1,910
Surveying services .....	891	24	3,758	2,144	152
Accounting, auditing, bookkeeping .....	893	308	75,046	30,775	1,962
OAHU					
Credit reporting, collection agencies	732	26	9,189	(NA)	(NA)
Portrait photography .....	722	29	4,645	(NA)	(NA)
Computer and data processing services .	737	72	45,839	(NA)	(NA)
Legal services .....	81	532	156,310	(NA)	(NA)

NA Not available.

<sup>1/</sup> For receipts by source, see report cited below.<sup>2/</sup> For personnel by occupation, see report cited below.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 7, 8, 10, 30, 35, 37, 38, and 39.

Table 711.-- MOTION PICTURE SERVICES: 1977, 1982, AND 1985

[Data limited to establishments with payroll]

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:				
1977 .....	11	926	174	31
1982 .....	15	4,203	1,147	74
1985 .....	<u>1</u> / 22	(NA)	1,803	147
Motion picture theaters:				
1977 <u>2</u> / .....	50	17,444	(D)	(D)
1982 .....	34	21,329	3,195	519
1985 .....	35	(NA)	3,396	478

NA Not available.

D Withheld to avoid disclosing data for individual companies.

1/ Motion picture production and services, 18 establishments; motion picture distribution and services, 4 establishments.

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); and County Business Patterns 1985, Hawaii, CBP-85-13 (August 1987), p. 9.



Table 712.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1986

Subject	1976	1977	1978	1979	1980 <u>1/</u>	1981 <u>2/</u>
Number of features filmed ..	31	63	58	54	58	54
Feature films for theater viewing .....	3	4	3	6	6	2
Feature films for TV viewing .....	1	5	5	8	2	1
Television specials and series <u>3/</u> .....	27	54	50	40	50	51
Gross budgets (millions of dollars) <u>4/</u> .....	26	39	45	78.5	47.5	40
Feature films and television specials and series .....	20	30	36	63.5	36.5	32
Television commercials and related advertising	6	9	9	15	11	8
Expenditures in Hawaii for feature films and TV specials and series (millions of dollars) ....	11	16	22	34.75	21.2	17
Tax revenues generated (millions of dollars) ....	1.01	1.51	2.04	3.14	1.9	1.5
Employment: Total .....	918	1,265	1,610	2,543	1,551	1,244
Direct .....	622	856	1,091	1,723	1,051	843
Spending effect on economy (millions of dollars) ....	29.2	42.4	58.2	91.9	48.2	38.7

Continued on next page.

Table 712.-- MOTION PICTURE AND TELEVISION PRODUCTION:  
1976 TO 1986 - Con.

Subject	1982	1983	1984	1985	1986
Number of features filmed ..	66	63	76	66	81
Feature films for theater viewing .....	1	1	2	1	3
Feature films for TV viewing .....	3	2	2	4	2
Television specials and series <u>3/</u> .....	62	60	72	61	76
Gross budgets (millions of dollars) <u>4/</u> .....	50.0	65.5	77.1	80.6	63.6
Feature films and television specials and series .....	37.6	41.2	53.4	60.5	52.9
Television commercials and related advertising	12.4	24.3	23.7	20.1	10.7
Expenditures in Hawaii for feature films and TV specials and series (millions of dollars) ....	31.6	35.2	38.2	40.6	35.3
Tax revenues generated (millions of dollars) ....	2.98	3.32	3.54	3.8	(NA)
Employment: Total .....	2,625	2,575	2,720	(NA)	(NA)
Direct .....	1,567	1,745	1,850	(NA)	700
Spending effect on economy (millions of dollars) ....	71.9	80.1	86.9	90	(NA)

NA Not available.

1/ Activity affected by a prolonged strike of the Screen Actors guild, which affected major productions during much of 1980, and changes in immigration regulation enforcement policies, which brought filming of foreign TV commercials to a virtual halt.

2/ Activity affected by a writers' strike, directors' strike, and continuation of the strict enforcement of immigration regulations initiated in 1980.

3/ Each program in a series counted separately.

4/ Includes post-production costs out of the State.

Source: Hawaii State Department of Business and Economic Development, 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 \$915 million in 1976 to \$1.6 billion in 1986. Exports to foreign countries amounted to only \$66 million in 1976, but by 1986 reached \$231 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.

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from \$2.0 billion in 1975 to \$5.6 billion in 1985. Estimates of the value of merchandise shipped to the Mainland are no longer available.

Among the foreign nations, Hawaii's leading trading partner in 1985 was Japan for both imports and exports. Imports for consumption from Japan amounted to \$466 million, or 27 percent of the total, while exports to Japan reached \$84 million or 22 percent of all foreign exports. About 51 percent of all imports for consumption were petroleum and natural gas products and monolithic integrated circuits.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at \$54 million in fiscal 1986. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at \$922 million, almost all of it in petroleum and petroleum products.

Foreign-owned businesses in Hawaii had a gross book value of \$1.8 billion in 1985, owned 50,000 acres, and employed 18,500 persons. Foreign investments in Hawaii between 1959 and 1987 exceeded \$4.2 billion, three-fourths of it Japanese.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census and Bureau of Economic Analysis, Foreign Trade Zone No. 9 and Subzone No. 9A, and the International Services Branch of the Hawaii State Department of Business and Economic Development. Further information is found in waterborne cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 30 of Statistical Abstract of the United States: 1987. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 713.-- INTERSTATE AND FOREIGN TRADE: 1958 TO 1985

[Merchandise imports and exports, foreign and domestic, in millions of current dollars]

Year	Merchandise imports					Merchandise exports, total <u>1/</u>
	Total	Domestic			Foreign	
		Total	Waterborne	Air		
1958 .....	459.2	425.8	340.0	85.8	33.4	253.2
1959 .....	499.4	465.2	379.3	85.9	34.2	276.1
1960 .....	587.2	540.3	452.7	87.6	46.9	263.8
1961 .....	571.8	512.4	425.3	87.1	59.3	281.5
1962 .....	568.4	499.7	413.7	86.0	68.7	293.7
1963 .....	644.2	569.6	482.8	86.9	74.6	334.4
1964 .....	676.4	590.3	502.6	87.6	86.1	321.5
1965 .....	785.7	689.0	600.4	88.6	96.8	331.6
1966 .....	962.6	857.5	767.7	89.8	105.1	351.2
1967 .....	848.5	723.4	631.3	92.0	125.1	372.7
1968 .....	996.0	853.4	759.0	94.4	142.6	377.7
1969 .....	1,045.3	874.3	775.8	98.5	171.0	338.2
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	221.5p	1,233.5	1,333.4
1983 .....	6,461.8	5,096.3	4,856.6	239.7p	1,365.5	1,440.7
1984 .....	6,568.0	5,309.4	5,047.9	261.5p	1,258.6	1,419.8
1985 .....	6,981.2	5,564.2	5,290.2	274.0p	1,417.0	1,336.3

p Preliminary

1/ Not available separately for foreign and domestic exports.

Source: Hawaii State Department of Business and Economic Development, Hawaii's Income and Product Accounts: 1958 to 1985 (forthcoming).

Table 714.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT:  
1967 TO 1986

[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>
1967 ....	125.1	120.1	47.4
1968 ....	142.5	138.7	49.0
1969 ....	171.0	167.3	46.4
1970 ....	174.7	167.4	51.2
1971 ....	223.6	215.5	46.3
1972 ....	244.3	227.5	60.4
1973 ....	340.1	304.9	72.8
1974 ....	645.3	605.5	115.2
1975 ....	784.4	757.6	95.7
1976 ....	915.1	876.5	66.2
1977 ....	1,038.2	988.1	98.3
1978 ....	1,184.5	1,126.4	137.8
1979 ....	1,334.6	1,238.5	176.1
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

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, U.S. Foreign Trade: Highlights of Exports and Imports, FT990 (through 1973) and Highlights of U.S. Export and Import Trade, FT990 (1974 and later), cumulative totals in December issues.

Table 715.-- IMPORTS AND EXPORTS, BY CUSTOMS DISTRICT AND STATE OF ORIGIN AND DESTINATION: JANUARY-MAY, 1987

[In millions of dollars]

Subject	Value
General imports (c.i.f. value basis):	
Entered through Honolulu Customs District .....	679.2
Destined for Hawaii <u>1/</u> .....	299.9
Exports (f.a.s. value basis):	
Cleared through Honolulu Customs District .....	126.4
Originated in Hawaii <u>1/</u> .....	50.0

1/ Includes commodities through customs districts other than Honolulu.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, May 1987, FT 990 (August 1987), tables A-11, B-6, and C-10.

Table 716.-- U.S. AIRBORNE EXPORTS AND GENERAL IMPORTS: 1986

Continent	Exports (f.a.s. value basis)		General imports (customs value basis)	
	Shipping weight (1,000 lb.)	Value (\$1,000)	Shipping weight (1,000 lb.)	Value (\$1,000)
Total .....	19,082	84,129	26,618	645,457
North America .....	4,598	14,869	3,289	8,840
South America .....	3	80	15	258
Europe .....	162	1,277	1,278	71,637
Asia .....	13,107	40,319	17,125	519,393
Australia and Oceania ...	1,212	27,572	4,888	45,021
Africa .....	1	13	22	309

Source: U.S. Bureau of the Census, U.S. Airborne Exports and General Imports, Annual 1986, FT986-86-13 (June 1987).

Table 717.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY  
METHOD OF TRANSPORTATION: 1986

[See headnote to preceding table]

Category and method of transportation	Value <sup>1/</sup> (million dollars)	Shipping weight (million pounds)
General imports, all methods <sup>2/</sup> .....	1,556.9	(NA)
Vessel .....	933.5	7,356.9
Air .....	645.5	26.6
Imports for consumption, all methods <sup>3/</sup> ....	1,425.4	(NA)
Exports, all methods <sup>2/</sup> .....	231.1	(NA)
Vessel .....	81.7	966.0
Air .....	84.1	19.1

NA Not available.

<sup>1/</sup> Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

<sup>2/</sup> Includes categories not tabulated by method of transportation, not shown separately.

<sup>3/</sup> Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1986, tables B-6, C-10, and C-11.

Table 718.-- FIREWORKS IMPORTED INTO THE HONOLULU  
CUSTOMS DISTRICT: 1984 TO 1986

Year	Pounds	Value (dollars)
1984 .....	458,197	728,892
1985 .....	578,692	855,620
1986 .....	875,397	1,160,627

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations, 1985) and IA 245-X (1984 and 1986).

Table 719.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT,  
BY REGION OF ORIGIN OR DESTINATION: 1985 AND 1986

[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	
	1985	1986	1985	1986
All regions .....	1,756,256,046	1,425,448,868	388,837,228	231,101,886
Africa .....	754,108	375,080	152,422	301,707
Asia .....	1,301,666,271	1,168,353,226	290,236,990	130,866,667
Australia and Oceania ...	276,700,872	169,165,412	62,477,479	75,424,684
Europe .....	124,849,603	58,231,214	21,270,646	7,482,684
Latin America <sup>1/</sup> .....	26,173,151	5,366,518	7,732,909	624,613
North America <sup>2/</sup> .....	26,112,041	23,957,418	6,966,782	16,401,531

<sup>1/</sup> Includes Central and South America, Bermuda, and the Caribbean.

<sup>2/</sup> Excluding Latin America.

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade, A Statistical Digest (annual). Compiled from U.S. Bureau of the Census tapes.



Table 720.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT,  
TOTAL AND BY LEADING COUNTRIES OF ORIGIN OR DESTINATION: 1986

[See headnote to preceding table]

Country	Total	Imports for consumption	Exports of domestic merchandise
All countries .....	1,656,550,754	1,425,448,868	231,101,886
Japan .....	546,913,880	447,061,420	99,852,460
Indonesia .....	217,303,525	216,892,998	410,527
Australia .....	191,397,459	143,156,924	48,240,535
Singapore .....	183,673,996	181,222,504	2,451,492
Taiwan .....	138,643,617	130,726,870	7,916,747
Philippines .....	72,794,408	68,003,170	4,791,238
Korea, Republic of .....	43,586,675	36,841,163	6,745,512
Canada .....	40,358,949	23,957,418	16,401,531
Hong Kong .....	37,288,730	33,097,722	4,191,008
New Zealand .....	32,275,532	23,948,972	8,326,560
Malaysia .....	27,661,589	25,845,555	1,816,034
China, People's Republic of .	16,561,203	16,280,175	281,028
Trust Territory of the Pacific Islands <u>1/</u> .....	14,726,267	188,274	14,537,993
United Kingdom .....	12,667,642	10,630,092	2,037,550
Italy .....	9,101,890	8,799,003	302,887
Germany, Federal Republic of	8,995,123	8,881,283	113,840
France .....	8,585,450	8,344,083	241,367
Netherlands .....	7,762,244	3,066,614	4,695,630
Thailand .....	6,109,516	5,795,225	314,291
Denmark .....	6,029,864	6,029,864	-
Greece .....	3,493,441	3,484,338	9,103
India .....	2,954,368	2,863,720	90,648
Other Pacific Islands <u>2/</u> ....	2,317,983	710,093	1,607,890
Sweden .....	2,312,780	2,312,780	-
Venezuela .....	2,061,113	1,897,146	163,967

1/ Caroline, Mariana, and Marshall Islands.

2/ Nauru, Fiji, and Tonga.

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest, International Business Series No. 51 (January 1988), pp. 2-4. Compiled from U.S. Bureau of the Census tapes.

Table 721.-- IMPORTS AND EXPORTS OF PETROLEUM, NATURAL GAS, AND PRODUCTS THEREOF THROUGH THE HONOLULU CUSTOMS DISTRICT, FOR LEADING COUNTRIES OF ORIGIN OR DESTINATION: 1986

[See headnote to table 719]

Country	Dollars
IMPORTS	
All countries .....	317,125,823
Indonesia .....	214,855,298
Australia .....	49,552,255
Malaysia .....	23,555,363
Singapore .....	11,785,216
China, People's Republic .....	7,593,617
EXPORTS	
All countries .....	29,170,881
Australia .....	15,959,486
Japan .....	7,679,689
Taiwan (Republic of China) .....	5,501,728
Trust Territories .....	29,978

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest (International Business Series No. 51, January 1988), pp. 19 and 42, and records.

Table 722.-- IMPORTS OF MONOLITHIC INTEGRATED CIRCUITS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN: 1986

[See headnote to table 719]

Country	Dollars
All countries .....	282,922,795
Singapore .....	154,291,200
Taiwan (Republic of China) .....	63,879,060
Philippines .....	55,022,069
Japan .....	8,971,698
Malaysia .....	405,534

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest (International Business Series No. 51, January 1988), p. 38, and records.

Table 723.-- EXPORTS OF AIRCRAFT AND SPACECRAFT, FOR LEADING COUNTRIES OF DESTINATION: 1986

[See headnote to table 719]

Country	Dollars
All countries .....	71,716,285
Japan .....	46,103,544
Australia .....	15,146,093
New Zealand .....	4,236,241
Papua New Guinea .....	1,817,511
Malaysia .....	1,650,911

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest (International Business Series No. 51, January 1988), p. 21, and records.

Table 724.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT,  
BY COMMODITY CLASSIFICATION: 1986

[See headnote to table 719]

Commodity	Imports for consumption	Exports of domestic mdse.
All commodities .....	1,425,448,868	231,101,886
Animal and vegetable products .....	88,804,402	39,673,437
Wood and paper; printed matter .....	24,270,792	5,972,206
Textile fibers and products .....	45,277,735	1,423,492
Chemicals and related products .....	331,146,067	34,688,827
Petroleum, natural gas, and products derived therefrom .....	317,125,823	29,170,881
Other chemicals and related products .....	14,020,244	5,517,946
Nonmetallic minerals and products .....	15,444,606	1,491,287
Metals and metal products .....	687,768,739	119,890,685
Integrated circuits .....	282,922,795	230,041
Motor vehicles .....	289,287,110	3,351,891
Aircraft and spacecraft .....	1,006,186	71,716,285
Other metals and metal products .....	114,552,648	44,592,468
Specified miscellaneous products .....	149,144,795	24,583,109
Special classification provisions .....	83,591,732	3,378,843

Source: Hawaii State Department of Business and Economic Development, International Services Branch, Hawaii's Foreign Trade 1986, A Statistical Digest (International Business Series No. 51, January 1988), pp. 17-22 and 35-40.

Table 725.-- FOREIGN-TRADE ZONE NO. 9 OPERATIONS: 1968 TO 1987

[Years ended June 30 through 1976 and September 30 thereafter.  
Foreign-Trade Zone No. 9 began operation June 15, 1966]

Fiscal years	Firms using zone	User employ-ment at zone <u>1/</u>	Value of merchandise (\$1,000)		Revenue (dollars)	Expend-itures (dollars)
			In/out	Exports		
1968 ..	82	42	6,279	498	88,060	122,718
1969 ..	94	56	10,078	1,187	120,990	122,628
1970 ..	124	65	11,682	1,850	160,438	156,424
1971 ..	138	57	17,363	3,147	206,159	193,450
1972 ..	132	58	20,648	2,894	289,301	229,379
1973 ..	140	83	23,442	2,775	267,393	260,251
1974 ..	139	113	25,394	6,140	355,737	325,633
1975 ..	148	131	29,828	6,317	463,008	415,371
1976 ..	179	139	24,396	4,576	481,172	429,496
1977 ..	205	145	25,702	3,956	700,470	606,720
1978 ..	191	193	29,095	4,395	835,004	574,044
1979 ..	204	221	34,928	4,450	545,380	568,607
1980 ..	211	263	37,118	6,396	638,961	615,361
1981 ..	186	274	46,188	12,093	750,676	714,750
1982 ..	178	263	52,483	11,957	744,741	780,932
1983 ..	190	203	48,312	11,839	965,590	1,032,675
1984 ..	198	224	46,312	10,596	1,107,107	996,236
1985 ..	229	218	39,376	6,196	1,122,722	1,058,802
1986 ..	302	200	53,890	6,416	1,282,855	1,101,505
1987 ..	400	299	72,951	10,070	1,220,265	1,052,055

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Business and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 726.-- FOREIGN-TRADE SUBZONE OPERATIONS: 1972 TO 1987

[Years ended June 30 through 1976 and September 30 thereafter.

Foreign-Trade Subzone No. 9-A began operation April 7, 1972; 9-B, Jan. 30, 1986; 9-C, Aug. 1, 1985; 9-D, April 30, 1986]

Subzone and fiscal year	User employment at sub-zone 1/	Merchandise, in/out		Exports	
		Quantity (1,000 short tons)	Value (\$1,000)	Quantity (1,000 short tons)	Value (\$1,000)
NO. 9-A					
1972 ..	45	453.0	9,300	41.1	1,106
1973 ..	73	3,250.0	76,760	1,178.1	33,614
1974 ..	95	3,046.8	156,454	564.0	52,436
1975 ..	(NA)	3,794.6	340,996	707.1	72,003
1976 ..	159	5,755.7	534,023	815.2	80,719
1977 ..	156	6,349.6	608,815	893.2	83,134
1978 ..	139	6,837.5	705,711	1,178.5	117,247
1979 ..	149	6,507.8	862,559	1,070.1	149,646
1980 ..	161	6,408.9	1,471,841	1,184.5	295,528
1981 ..	182	6,188.2	1,728,457	1,396.3	406,084
1982 ..	203	6,781.3	1,758,180	1,952.9	531,437
1983 ..	203	6,944.5	1,491,063	2,047.6	461,298
1984 ..	205	7,405.6	1,348,745	1,995.5	363,698
1985 ..	212	7,680.5	1,450,466	2,075.3	402,568
1986 ..	210	7,717.5	922,289	1,560.0	198,368
1987 ..	213	8,107.9	860,963	1,825.0	196,172
NO. 9-B					
1986 ..	6	(NA)	448	(NA)	220
1987 ..	7	(NA)	1,556	(NA)	778
NO. 9-C					
1986 ..	2,400	(NA)	300,844	(NA)	16,205
1987 ..	2,000	(NA)	267,336	(NA)	15,999
NO. 9-D					
1986 ..	1,000	(NA)	23,646	(NA)	124
1987 ..	1,250	(NA)	73,988	(NA)	1,756

NA Not available.

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Business and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 727.-- FOREIGN DIRECT INVESTMENT IN HAWAII: 1981 TO 1985

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person]

Subject	1981	1982	1983	1984	1985
Gross book value of property, plant, and equipment of affiliates (million dollars) .....	(D)	(D)	1,599	1,691	1,771
Employment, by country of ultimate beneficial owner .....	16,996	16,370	16,251	16,548	18,511
Canada .....	676	599	576	515	535
European countries .....	1,555	2,154	1,724	2,232	2,120
Japan .....	9,097	9,339	9,695	9,820	11,450
Latin America .....	1,124	(D)	736	807	820
Other countries .....	4,544	4,278	3,520	3,174	3,586
Land owned (1,000 acres) .....	111	112	102	51	50

D Withheld to avoid disclosure of data for individual companies.

NA Not available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, "U.S. Affiliates of Foreign Companies: Operations in 1982," Survey of Current Business, December 1984, pp. 26-40; "U.S. Affiliates of Foreign Companies: Operations in 1983," Survey of Current Business, November 1985, pp. 36-50; "U.S. Affiliates of Foreign Companies: Operations in 1984," Survey of Current Business, October 1986, pp. 31-45; and "U.S. Affiliates of Foreign Companies: Operations in 1985," Survey of Current Business, May 1987, pp. 36-51.

Table 728.-- EMPLOYMENT AND SHIPMENTS RELATED TO MANUFACTURED EXPORTS: 1983 AND 1984

Subject	1983	1984
Employment related to manufactured exports .....	4,700	5,400
Percent of civilian employment .....	1.0	1.2
Manufacturing industries .....	900	700
Direct export related .....	500	300
Supporting exports .....	400	400
Nonmanufacturing industries .....	3,800	4,700
Trade .....	3,000	4,000
Other .....	800	700
Value of export related manufacturers' shipments <u>1/</u> .....	310.2	414.1
Percent of total manufacturers' shipments .....	9.1	12.1
Direct exports <u>1/</u> .....	192.3	304.2
Supporting exports <u>1/</u> .....	117.9	109.9

1/ Million dollars.

Source: U.S. Bureau of the Census, 1984 Annual Survey of Manufactures, Origin of Exports of Manufactured Products, M84(AS)-5 (August 1987), tables 2 and 3.

Table 729.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1981 AND 1982

[This survey was discontinued after 1982]

Year	Firms	Establishments	Employment	Payroll, annual (\$1,000)
1981 .....	97	276	12,495	175,501
1982 .....	100	276	14,036	198,470

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1981, Series FOF, No. 5 (March 1983) and Selected Characteristics of Foreign-Owned U.S. Firms: 1982, Series FOF, No. 6 (April 1984).



Table 730.-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS:  
DECEMBER 31, 1986

Subject	Amount
Parcels owned by foreigners .....	46
Individuals .....	14
Organizations .....	32
Acres owned by foreigners .....	52,372
Percent of all privately owned agricultural land <u>1/</u> ...	2.6
Individuals .....	543
Organizations .....	51,829
Value of foreign-owned agricultural land (\$1,000):	
At time of acquisition .....	45,812
Adjusted current value .....	35,526

1/ The percent for Hawaii ranked third among the 50 States, exceeded only by Maine (10.0 percent) and Oregon (3.4), and well above the national percentage (1.0).

Source: U.S. Department of Agriculture, Economic Research Service, Foreign Ownership of U.S. Agricultural Land Through December 31, 1986 (Staff Report No. AGES 870319, April 1987), pp. 5, 8, and 11.

Table 731.-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND  
JAPANESE: ANNUALLY, 1959 TO 1987

[In thousands of dollars. Data are estimates based on  
incomplete reporting]

Year	Total foreign investments	Investments by Japanese
Total completed .....	4,165,483	3,225,457
1970 and earlier years .....	48,770	44,970
1971-1975 .....	452,069	327,869
1976 .....	120,740	55,940
1977 .....	32,200	17,800
1978 .....	44,500	13,500
1979 .....	297,470	165,250
1980 .....	124,485	80,100
1981 .....	108,775	70,800
1982 .....	629,880	489,880
1983 .....	141,176	134,900
1984 .....	202,600	112,000
1985 .....	139,724	120,654
1986 .....	1,098,309	1,063,309
1987, to June 30 .....	724,785	528,485
Future completions .....	198,000	198,000

Source follows next table.

Table 732.-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR AND TYPE OF INVESTMENT: CUMULATIVE, 1959 TO 1987

[In thousands of dollars. Data are estimates based on incomplete reporting]

Country of investor and type of investment	Amount
Cumulative total <sup>1/</sup> .....	4,165,483
Country of investor:	
Australia .....	167,800
Bermuda .....	500
British West Indies .....	575
Canada .....	154,670
France .....	15,900
Hong Kong .....	231,895
Indonesia .....	82,000
Japan .....	3,225,457
Korea .....	11,550
Netherlands .....	19,600
Netherlands Antilles .....	17,735
New Zealand .....	28,000
Taiwan .....	13,500
United Kingdom .....	193,801
Vanuatu .....	2,500
Type of investment:	
Agriculture .....	31,100
Banks .....	25,519
Condominiums .....	543,450
Golf courses .....	85,300
Hotels .....	1,966,300
Manufacturing .....	44,205
Other real estate .....	1,137,160
Restaurants .....	40,275
Retailing and wholesaling .....	67,079
Science and education .....	84,401
Miscellaneous .....	140,694

<sup>1/</sup> Excludes \$198 million in projects to be completed after June 30, 1987.

Source: Hawaii State Department of Business and Economic Development, International Services Branch, A Listing of Foreign Investments in Hawaii (International Business Series No. 49, June 30, 1987), pp. 56-58, as revised.

## 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 and District of Columbia. The 12 tables in this section contain 394 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 highest in 23 comparisons, second highest in 14, lowest in 6, and second lowest in 15. Hawaii ranked 39th in population, first in life expectancy, 11th in public school pupil-teacher ratio, 18th in crime rate, 47th in land area, 14th in percent of land owned by the Federal government, 27th in visitor expenditures, 47th in votes cast as a percent of voting-age population, 10th in State and local government expenditures per capita, 7th in armed forces, 23rd in public aid recipients relative to population, 9th in female labor force participation rate, 23rd in per capita personal income, 6th in family living costs (based on data for 100 metropolitan areas), 41st in bank deposits, 47th in commercial radio stations, first in fuel and electricity prices per Btu, 50th in highway mileage, first in volume of crop marketings for pineapple, macadamia nuts, and bananas, 17th in value of fish catch, 49th in percent of housing units owner occupied, 46th in value added by manufacture, 15th in retail sales per capita, 9th in hotel receipts, and 8th in percent of business establishments foreign owned.

High ranks do not necessarily mean favorable scores, nor low ranks unfavorable scores. Hawaii was first (highest) in expectation of life at birth and 50th (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 51 areas (50 states and the District of Columbia), some ranked Honolulu against other large metropolitan areas, and a few were based on other groupings. Variations in the comparison groups are noted in the stubs.

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 entirely from DBED Statistical Report 206, "Hawaii's Ranking, 1987," which contains source citations for all series. Persons interested in data and ranks for other states should consult the Statistical Abstract of the United States: 1987, pp. xvii-xxvi, and State and Metropolitan Area Data Book, 1986, table 1. Historical data on state rankings are not readily available for most series.

Table 733.-- POPULATION, VITAL STATISTICS, AND HEALTH

Subject	United States	Hawaii	
		Number	Rank
Resident population, 1986 (1,000) .....	241,077	1,062	39
Percent change in resident population, 1980-1986 .....	6.4	10.1	12
Resident population per square mile, 1985 .....	67	164	14
Net migration, 1980-1985 (1,000) .....	3,530	19	20
Net migration, percent of 1980 population .....	1.6	2.0	16
Males per 100 females, 1986 .....	94.9	104.2	3
Resident population, by selected age groups, 1985:			
Under 5 years old, percent of population .....	7.5	8.4	12
5 to 17 years old, percent of population .....	18.7	18.4	32
25-44 years old, percent of population .....	31.5	33.1	11
65 years old and over, percent of population .....	12.1	9.7	46
Median age of population, 1986 (years) .....	31.7	30.9	39
Resident population, by selected races, 1980:			
White, percent of population .....	83.1	33.0	50
Black, percent of population .....	11.7	1.8	38
Asian and Pacific Islander, percent of population ....	4.5	64.9	1
Pct. married of persons 15 years old and over, 1980:			
Male .....	60.1	55.2	50
Female .....	54.8	56.8	22
Households, 1986 (1,000) .....	88,797	336	43
Persons per household, 1986 .....	2.65	3.04	2
One-person households, percent of all households, 1980 .	22.7	17.1	51
Births per 1,000 population, 1986 .....	15.8	17.4	10
Deaths per 1,000 population, 1985 .....	8.5	5.8	50
Legal abortions, 1982 (1,000) .....	1,573.9	9.1	33
Infant mortality per 1,000 births, 1984 .....	10.8	9.9	36
Deaths per 100,000 population, by cause, 1983:			
Diseases of the heart .....	329.2	172.7	50
Cancer .....	189.3	127.2	47
Cerebrovascular diseases .....	66.5	42.1	46
Accidents and adverse effects .....	39.5	30.5	48
Average life expectancy, 1979-1981 (years) .....	73.88	77.02	1
Marriages, 1984 (1,000) .....	2,487.0	14.9	38
Divorces, 1984 (1,000) .....	1,155.0	4.8	41
Per capita personal health care expend., 1982 (dollars)	1,220	1,228	17
Health insurance coverage, percent of civilian labor force, 50 States, 1983 .....	(NA)	62.43	12
Average daily hospital room charge, January 1986 (dol.)	225	253	8
Average daily room cost to hospital, 1984 (dollars) ....	411	383	24
Physicians per 100,000 population, 1983 .....	196	209	10
Dentists per 100,000 population, 1984 .....	57	65	12
Registered nurses per 100,000 population, 1983 .....	600	587	27

NA Not available.

Table 734.-- EDUCATION, LAW ENFORCEMENT, COURTS, AND PRISONS

Subject	United States	Hawaii	
		Number	Rank
Elementary and secondary schools:			
Public, 1983-1984 .....	84,179	231	49
Private, 1980-1981 .....	20,764	114	34
Elementary and secondary school enrollment (1,000):			
Public, Fall 1984 .....	39,305	164	40
Private, 1980-1981 .....	4,962	37	31
Elementary and secondary school teachers (1,000):			
Public, 1985-1986 .....	2,178	8.4	43
Private, 1980-1981 .....	277.4	2.1	31
Public school enrollment, percent of persons 5-17 years old, Fall 1984 .....	87.6	83.3	45
Percent change in public school enrollment, 1975-1984 ..	-12.7	-8.4	22
Pupil-teacher ratio in public schools, 1983-1984 .....	18.45	20.06	11
Public school expenditures, 1985-1986 (mil. dol.) .....	147,789	612	42
Average per student in daily attendance (dollars) ....	3,723	3,766	18
Average per capita (dollars) .....	619	581	28
Scholastic Aptitude Test scores, 50 States, 1985-1986:			
Verbal .....	431	403	47
Math .....	475	477	33
Percent high school graduates of persons 25 years and older, 1980 .....	66.5	73.8	9
Public high school graduates, 1986 (1,000) .....	2,402.0	9.7	43
Average annual public teacher's salary, 1986 (dollars) .	25,313	25,845	18
Higher education enrollment, Fall 1984 (1,000) .....	12,242	50	42
Net migration of new college students, Fall 1984 .....	91,339	182	37
Students attending college within State, percent of total students, Fall 1984 .....	84	80	34
Percent college graduates of persons 25 years and older, 1980 .....	16.3	20.3	5
Degrees conferred, 1983-1984:			
Bachelor's .....	974,309	3,370	46
Master's .....	284,263	1,008	41
Doctorate .....	33,209	101	40
Average monthly earnings of full-time instructional personnel of public institutions of higher education, October 1985 (dollars) .....	2,990	2,777	30
Crime rates per 100,000 population, 1985 .....	5,207	5,201	19
Property crimes .....	4,650	4,981	15
Violent crime rates .....	556.5	219.4	42
Marijuana harvest, 1984 (billion dollars) .....	16.6	1.0	2
Eradicated marijuana plants, 1983 (1,000) .....	3,794	579	2
Federal and State prisoners, 1985 .....	503,601	2,111	38
Prisoners per 100,000 population .....	210.9	200.3	17
Prisoners as percent of capacity .....	113.9	184.6	2
Population per attorney, 1980 .....	418	507	21

Table 735.-- GEOGRAPHY, ENVIRONMENT, LAND USE, AND LAND OWNERSHIP

Subject	United States	Hawaii	
		Number	Rank
Year admitted to statehood, 50 States .....	(X)	1959	50
General coastline (statute miles) .....	12,383	750	4
Land area, 1980 (1,000 square miles) .....	3,539.3	6.4	47
Highest point (feet) (U.S.: McKinley; HI: Mauna Kea) ...	20,320	13,796	6
Approximate mean elevation (feet) .....	2,500	3,030	10
Water withdrawal per capita, 1980 (gallons per day) ....	1,976	2,591	17
Ground water withdrawal, percent of daily total, 1980 ..	19.9	32.0	11
Air pollutant emissions, 1982 (1,000 tons):			
Carbon monoxide .....	88,440	342	43
Nitrogen oxides .....	22,929	63	47
Particulates .....	40,661	55	48
Normal daily mean temperature, 69 cities including Honolulu, 1951-1980 (degrees Fahrenheit):			
January .....	32.5	72.6	1
July .....	75.2	80.1	15
Annual average .....	54.5	77.0	1
Temperature of record, 69 cities including Honolulu, 1951-1985 (degrees Fahrenheit):			
Highest temperature .....	105	94	68
Lowest temperature .....	-13	53	69
Normal annual precipitation, 69 cities including Honolulu, 1951-1980 (inches) .....	34.72	23.47	55
Average number of days with precipitation of .01 inch or more, 69 cities including Honolulu, 1951-1985 .....	113	100	52
Average percentage of possible sunshine, 69 cities including Honolulu, 1951-1985 .....	59	67	9
Average wind speed, 69 cities including Honolulu, 1951-1985 (miles per hour) .....	9.4	11.6	7
Land owned by federal government, percent of total land area, 1985 .....	32.0	17.3	14
Urban land acreage per capita, 1980 .....	0.28	0.21	46

X Not applicable.

Table 736.-- RECREATION, TOURISM, AND ELECTIONS

Subject	United States	Hawaii	
		Number	Rank
Foreign visitor arrivals, 1983 (1,000) .....	21,707	1,423	5
Visitor expenditures, 1984 (million dollars) .....	411,350	4,620	27
Foreign visitor expenditures, 1983 (million dollars) ..	13,772	1,172	4
Economic impact of foreign visitors, 1983:			
Payroll (million dollars) .....	3,066	305	4
Employment .....	312,800	28,800	4
Tax revenues (million dollars) .....	1,647	127	4
Domestic visitor expenditures, 1984 (million dollars) ..	222,955	2,517	27
Economic impact of domestic visitors, 1984:			
Business receipts (million dollars) .....	215,978	2,445	27
Payroll (million dollars) .....	47,195	605	24
Employment (1,000) .....	4,493.0	52.6	28
Tax revenues (million dollars) .....	27,450	252	28
State travel budgets, 50 States, FY 1986-1987 (\$1,000) .	234,170	8,464	8
National Park System acreage, FY 1984 (1,000 acres) ....	74,898	245	17
State parks and recreation acreage, 50 States, FY 1985 (1,000 acres) .....	10,128	25	46
Fishing characteristics of persons 16 years old and over, by State where activity occurred, 1980:			
Fishing participants (1,000) .....	42,059	244	43
Days of participation (million days) .....	848.9	3.3	45
Expenditures for travel, food, lodging, and fees (million dollars) .....	7,117	50	40
Hunting characteristics of persons 16 years old and over, by State where activity occurred, 1980:			
Hunting participants (1,000) .....	17,444	28	50
Days of participation (1,000 days) .....	329,517	342	50
Expenditures for travel, food, lodging, and fees (million dollars) .....	2,349	4	49
Passports issued, 1983 (1,000) .....	4,121.5	37.6	27
Per capita State appropriations for State arts agencies, 1986 (dollars) .....	0.85	2.09	5
Voting-age population, 1986 (1,000) .....	178,335	782	39
Popular vote cast for President, 1984 (1,000) .....	92,653	336	43
Vote cast, percent of voting-age population .....	53.1	44.3	47
Percent voting for Republican party .....	58.8	55.1	41
Vote cast for governor, 50 States, 1984 or 1982 (1,000)	(NA)	312	45
Percent voting for Democratic party .....	(NA)	45.2	41
Number of local governments, 1982 .....	82,290	18	50

NA Not available.



Table 737.-- GOVERNMENT FINANCES AND EMPLOYMENT AND NATIONAL DEFENSE

[Fiscal year data unless otherwise specified]

Subject	United States	Hawaii	
		Number	Rank
Revenues of State & local governments, 1985 (mil. dol.)	719,686	3,326	40
Revenues per capita (dollars) .....	3,015	3,155	16
Tax collections per capita (dollars) .....	1,465	1,652	9
Expend. of State and local governments, 1985 (mil. dol.)	658,152	3,201	40
Expenditures per capita (dollars) .....	2,757	3,037	10
State and local government debt outstanding, 1985 (million dollars) .....	571,351	3,055	42
Debt outstanding per capita (dollars) .....	2,393	2,898	17
State gov't. tax revenues, 50 States, 1986 (mil. dol.)	228,054	1,491	36
Revenues per capita (dollars) .....	948	1,404	3
State tax revenues per capita, selected taxes of 50 States, 1986 (million dollars):			
State general sales .....	311	703	1
Individual income .....	281	440	7
State general sales tax rate (exc. local sales tax), September 1, 1985 (percent) .....	(NA)	4	27
Property taxes per capita, 1985 (dollars) .....	435	293	37
Residential property tax, 51 cities inc. Honolulu, 1985:			
Effective tax rate per \$100 .....	(NA)	0.61	50
Assessment level (percent) .....	(NA)	90	15
State and local government employment, Oct. 1985 (1,000)	13,669	60	40
Full-time employment per 10,000 population .....	443	453	24
Monthly earnings of full-time employees (dollars) ....	1,885	1,816	22
Federal government direct expenditures, 1986 (mil. dol.)	830,259	4,643	13
Defense expenditures (million dollars) .....	229,870	2,486	27
Nondefense expenditures (million dollars) .....	600,389	2,158	45
Per capita Federal expenditures, 1986 (dollars) .....	3,392	4,372	6
Defense expenditure (dollars) .....	939	2,341	3
Nondefense expenditure (dollars) .....	2,453	2,032	47
Federal individual income and employment tax receipts, 50 States, 1985 (million dollars) .....	621,874	1,877	43
Tax burden, percent of personal income .....	18.8	12.9	38
No. of Fed. individual income tax returns, 1985 (1,000)	102,037	471	40
Taxes paid per return with tax liability (dollars) ...	3,901	3,249	33
Defense contract awards, 1985 (million dollars) .....	140,096	626	33
Federal civilian employment, December 31, 1984 (1,000)	2,771	27	29
Per 10,000 population .....	117.2	260.4	5
Department of Defense employment, 1985:			
Civilian employees (1,000).....	976.2	21.3	15
Military personnel (1,000) .....	1,366.9	47.0	7
Living veterans, September 1985 (1,000) .....	27,732	102	44
Retired military personnel, September 30, 1986 (1,000)	1,533.4	11.5	34

NA Not available.

Table 738.-- SOCIAL INSURANCE, HUMAN SERVICES, LABOR FORCE,  
EMPLOYMENT, AND EARNINGS

Subject	United States	Hawaii	
		Number	Rank
Payments for Aid to Families with Dependent Children, 1984 (million dollars) .....	14,432	82	29
Payments for Supplemental Security Income, 1985 (million dollars) .....	10,748	30.5	39
Public aid recipients, percent of population, 1985 .....	6.2	5.8	23
Food stamp recipients per 1,000 population, 1985 .....	80.2	91.1	16
Social Security recipients per 1,000 population, 1985 ..	151	122	45
Aid to Families with Dependent Children, percent of persons under 18 years, 1984 .....	11.2	12.2	12
Quality of life score, 329 areas inc. Honolulu, 1985 ...	(NA)	1,133	61
Civilian labor force, 1985 (1,000) .....	115,461	481	42
Civilian employment, 1985 (1,000) .....	107,150	454	43
Percent change, 1980-1985 .....	7.9	8.9	22
Civilian employment, pct. of civilian noninstitutional persons 16 years old and over, 1985 .....	60.1	61.8	22
Unemployed persons, 1985 (1,000) .....	8,312	27	42
Unemployment rate, pct. of civilian labor force, 1985 ..	7.2	5.6	38
Male unemployment rate .....	7.0	5.0	41
Female unemployment rate .....	7.4	6.3	34
Labor force participation rate, pct. of civilian non-institutional persons 16 years old and over, 1985 ....	64.8	65.5	30
Male labor force participation rate .....	76.3	72.6	47
Female labor force participation rate .....	54.5	59.1	9
Nonagricultural employment, 1985 (1,000) .....	97,614	423	43
Percent manufacturing .....	19.8	5.2	47
Percent services .....	22.5	26.0	5
Percent government .....	16.8	22.0	10
Percent change, 1980-1985 .....	8.0	4.5	30
Civilian employment, selected occupations, 1985:			
Percent managerial and professional occupations .....	24.1	24.7	15
Percent service occupations .....	13.5	18.9	3
Percent sales occupations .....	11.8	12.9	5
Average annual pay, workers covered by State unemployment compensation, 1984 (dollars) .....	18,350	16,671	31
Ave. annual wages, selected industries, 1983 (dol.):			
Construction .....	20,492	25,443	2
Manufacturing .....	21,469	16,632	47
Retail trade .....	10,007	9,791	21
Services .....	15,351	14,137	25
Workers' compensation payments, 1984 (million dollars) .	19,529	114.8	35
Labor union membership, 1982 (1,000) .....	19,571	126	32
Percent of nonagriculture employed .....	21.9	31.5	5

NA Not available.

Table 739.-- INCOME, EXPENDITURES, WEALTH, AND PRICES

Subject	United States	Hawaii	
		Number	Rank
Gross state product, 1977 (million dollars) .....	(X)	8,578	39
Percent change in personal income, 1985-1986 .....	5.3	7.2	7
Per capita personal income, 1986 (dollars) .....	14,461	14,691	16
Projected per capita personal income, 2000 (1972 dol.) .	7,369	7,461	18
Percent change in farm earnings, 50 States, 1983-1984 ..	68.4	12.9	34
Median income, 1979 (dollars):			
Families .....	19,917	22,750	5
Households .....	16,841	20,473	2
Median family income, FY 1987 (dollars) .....	30,400	32,900	8
Persons below U.S. poverty threshold, percent of non-			
institutional population 16 years and older, 1979 ....	12.4	9.9	40
Families below U.S. poverty threshold, percent of non-			
institutional population 16 years and older, 1979 ....	9.6	7.8	33
Millionaires per 100,000 population, 50 States, 1982 ...	175.9	80.2	43
Average household income before taxes, 26 MSAs inc.			
Honolulu MSA, 1982-1983 (dollars) .....	22,702	27,937	5
Average household expenditures, 26 MSAs inc. Honolulu			
MSA, 1982-1983 (dollars) .....	18,892	22,247	6
Effective buying income, 1985 (million dollars) .....	2,800.3	12.7	38
Effective buying income per household (dollars) .....	31,674	37,952	4
Effective buying income per capita (dollars) .....	11,627	11,832	19
Percent change in consumer price index for all urban			
consumers (CPI-U), 28 areas including Honolulu MSA:			
1985 to 1986 .....	1.9	2.4	10
1967 to 1986 .....	228.4	201.1	26
Retail food prices for a "market basket", 17 cities			
including Honolulu, June 4, 1987 (dollars) .....	51.98	65.83	1
Comparative annual living costs for a four-person,			
higher-income family, 100 urban areas including			
Honolulu, 1987 (dollars) .....	50,000	57,252	6
Four-person family budgets, 25 areas including Honolulu			
MSA, Autumn 1981 (dollars):			
Lower budget .....	15,323	20,319	2
Intermediate budget .....	25,407	31,893	1
Higher budget .....	38,060	50,317	1
Sales and Marketing Management Magazine's "Buying Power			
Index," 1985 (percent of U.S.) .....	100	0.459	40

X Not applicable.

Table 740.-- BANKING, INSURANCE, BUSINESS ENTERPRISE, AND COMMUNICATIONS

Subject	United States	Hawaii	
		Number	Rank
Total deposits of insured banks, insured savings institutions, mutual savings banks, and credit unions, 1985 (billion dollars) .....	2,905.3	13.2	37
Commercial bank deposits, end of 1985 (billion dollars)	1,786.3	8.0	41
Per capita deposits (dollars) .....	7,482	7,552	17
Savings and loan deposits, end of 1985 (billion dollars)	841.0	2.7	38
Equity capital in commercial banks per capita, 50 States, 1983 (\$1,000) .....	606.4	483.0	26
Bank loans-to-equity ratios, 50 States, June 1986 .....	(NA)	5.9	11
Venture capital funds per capita, 50 States, 1985 (dol.)	39.2	1.4	33
Dividends, int., and rent income per capita, 1985 (dol.)	2,347	2,050	33
Shareowners of public corporations, mid-1985 (1,000) ...	47,040	256	36
Percent of household population .....	20.1	24.8	7
Life insurance in force per family, 1985 (dollars) .....	63,400	75,600	5
Private nonfarm establishments, 1984 (1,000) .....	5,517.7	25.7	40
Percent with 100 employees or more .....	2.0	1.6	34
Percent with fewer than ten employees .....	76.2	75.0	46
New business incorporations, 1985 (1,000) .....	668.9	3.0	39
Fast-growth companies, percent of businesses, 50 States, 1987 .....	(NA)	2.88	11
Presence of Fortune 1000 corporate headquarters per million residents, 50 States, 1985 .....	(NA)	3.80	16
Women-owned businesses, percent of female labor force, 50 States, 1982 .....	(NA)	9.8	15
Business failures, industrial and commercial firms (exc. real estate and finance companies), 1985 .....	29,269	246	39
Inc.'s "Report on the States" ranking of State economies, 50 States, 1987 (total score=100) .....	48.18	51.39	20
The Corp. for Enterprise Development's "Development Report Card," 50 States, 1986 (grades of A through F):			
Performance Index .....	(NA)	A	10
Business Vitality Index .....	(NA)	D	32
Capacity Index .....	(NA)	B	16
Policy Index .....	(NA)	C	23
The Corporation for Enterprise Development's "Business Climate Tax Index," 50 States, January 1987 .....	(NA)	9	5
Telephone access lines, December 31, 1986 (1,000) .....	122,203	478	43
Percent of housing units with telephones, 1980 .....	93.0	95.1	15
Commercial radio stations, January 10, 1985 .....	8,354	39	47
Commercial television stations, January 10, 1985 .....	887	13	28
Cable TV households, pct. of TV households, July 1985 ..	45.1	65.1	2
Daily newspaper circulation per capita, 1985 .....	0.26	0.23	26

NA Not available.

Table 741.-- ENERGY, SCIENCE, AND TRANSPORTATION

Subject	United States	Hawaii	
		Number	Rank
Energy consumption per capita, 1984 (million Btu.) .....	313	225	44
Energy expenditures per capita, 1983 (dollars) .....	1,728	1,940	10
Energy expenditures, percent of personal income, 1981 ..	18.9	19.9	21
Average price for fuels and electricity, 1981 (dollars per million Btu.) .....	7.86	11.78	1
Electricity consumed per residential customer, 1983 (kilowatt-hours) .....	8,740	6,571	42
Average revenues of electricity sold for residential use, 1983 (cents per kilowatt-hour) .....	6.83	11.29	1
Price of gas utility for residential use, 1983 (dollars per million Btu.) .....	5.88	17.94	1
Federal obligations for research and development per capita 1985 (dollars) .....	(NA)	55	34
Research and development expenditures in universities per capita, 50 States, 1984 (dollars) .....	31.3	43.6	9
State and local government research and development in universities per capita, 50 States, 1984 (dollars) ...	2.5	14.4	2
Industry research and development in universities per capita, 50 States, 1984 (dollars) .....	1.4	0.3	49
Scientists and engineers per 100,000 population, 1982 ..	1,403	1,344	23
Doctoral degrees in science and engineering per 100,000 population, 50 States, 1985 .....	(NA)	101	10
Patents issued to U.S. residents, 1963-1985 (1,000) ....	1,009.8	0.7	49
Highway mileage, December 31, 1984 (1,000 miles) .....	3,892	4.0	50
Licensed drivers per 1,000 population, 1983 .....	659.0	564.8	49
Motor vehicle registrations per 1,000 population, 1985 .	713	628	47
Accident deaths per 100,000 population, 1983 .....	19.1	14.3	44
Commuting to work, 1980:			
Percent of workers using public transportation .....	6.4	8.3	7
Percent of workers using private transportation .....	84.1	78.5	45
Mean travel time to work (minutes) .....	21.6	21.5	13
Ave. price for gasoline, 28 areas inc. Honolulu MSA, December 1986 (cents per gallon) .....	83.0	107.5	1
State gasoline tax, August 1985 (cents per gallon) .....	12.40	11.0	34
Airport facilities, 1983 .....	15,966	51	48
Air operations (takeoffs and landings), 1983 (1,000) ...	53,445	708	26
Air passengers, 1983 (1,000) .....	301,348	8,291	10
Air freight and mail, 1983 (1,000 tons) .....	3,785.7	111.8	10
General aviation, active aircraft, 1983 .....	213,293	381	50
Active pilots, 1983 .....	699,546	3,224	44
Numbered vessels (State-registered), 1986 (1,000) .....	9,848.8	13.4	49
Boating accidents, 1986 .....	6,387	54	35

NA Not available.

Table 742.-- AGRICULTURE, FOREST, FISHERIES, AND MINING

[Ranking among 50 states; mining in Hawaii consists of quarry and cement products industries]

Subject	United States	Hawaii	
		Number	Rank
Farm population, percent of total population, 1980 .....	2.48	0.47	45
Farms, 1986 (1,000) .....	2,214	4	44
Land in farms, 1986 (million acres) .....	1,007	2	41
Acreage per farm, 1986 (acres) .....	455	500	15
Acreage, individual or family farms, pct. of farms, 1982	65.1	24.6	49
Value of farm land and buildings, 1982 (million dollars)	774,158	3,575	39
Average value per farm (\$1,000) .....	345.9	778.5	3
Average value per acre (dollars) .....	784	1,826	9
Value of products sold per farm, 1982 (\$1,000) .....	58.9	121.6	3
Farm debt-to-asset ratio, 1985 (percent) .....	23.6	7.1	50
Net farm income-to-debt ratio, 1985 (percent) .....	21.5	51.3	3
Acreage in harvested crop, 1982 (1,000 acres) .....	326,306	156	48
Vegetables .....	3,330.6	4.7	39
Sugarcane, for sugar .....	713.1	89.7	3
Pineapple .....	23.1	23.1	1
Macadamia nuts .....	15.7	15.5	1
Bananas .....	1.1	1.1	1
Value of farm marketings, 1985 (million dollars).....	142,103	540	40
Crops .....	72,702	458	34
Livestock and products .....	69,401	83	47
Volume of crop marketings, 1982:			
Sugarcane, for sugar (1,000 tons) .....	27,902	8,950	2
Pineapple, harvested (tons) .....	627	627	1
Macadamia nuts (1,000 pounds) .....	35,648	35,595	1
Taro (1,000 pounds) .....	6,386	3,360	1
Coffee, parchment (1,000 pounds) .....	1,806	1,806	1
Value of sales of livestock, poultry, and their products, 1982 (million dollars) .....	69,644	103	47
Cattle and calves .....	31,635	45	41
Dairy products .....	16,320	24	45
Poultry and poultry products .....	9,797	22	39
Hogs and pigs .....	9,868	9	36
Forest land, 1977 (1,000 acres) .....	736,558	1,986	41
Commercial timberland, 1977 (1,000 acres) .....	482,486	948	45
Sawtimber net volume, 1977 (trillion board feet) .....	2,578.9	1.0	48
Commercial fish catch, 1985 (million pounds) .....	6,258	17	19
Value of fish catch, 1985 (million dollars) .....	2,326	22	17
Value of mineral shipments & receipts, 1982 (mil. dol.)	250,000	13	47
Mineral production value, 1984 (million dollars) .....	179,176	51	45
Value added in mining 1982 (million dollars) .....	188,056	10	47
Mineral industry employees, 1982 (1,000) .....	1,114.0	0.2	49

Table 743.-- CONSTRUCTION, HOUSING, AND MANUFACTURES

Subject	United States	Hawaii	
		Number	Rank
Private housing units started, 1985, prel. (1,000) .....	1,736.3	6.6	38
Percent change, 1984-1985 .....	-0.8	24.5	4
Private housing units authorized by building permits, 1985 (1,000) .....	1,733.3	7.3	38
Valuation of units authorized (million dollars) ....	84,904	489	35
Value of construction contracts, 1985 (mil. dol.) .....	227,650	871	42
Construction industry establishments, 1982 (1,000) .....	1,389.3	4.3	49
With payroll .....	456.7	1.9	45
Construction business receipts, 1982 (mil. dol.) .....	365,421	2,032	37
Value added in construction, 1982 (million dollars) ....	145,965	855	37
Construction industry employees, 1982 (1,000) .....	4,275.1	18.7	41
Construction workers .....	3,453.2	14.0	42
Average payroll per employee (dollars) .....	18,401	21,949	5
Housing units, 1980 (1,000) .....	88,411	334	43
Percent change in housing units, 1970-1980 .....	28.7	54.4	9
Year-round housing units, 1980 (1,000) .....	86,693	332	43
One unit at address (percent) .....	66.0	51.7	49
Five or more units at address .....	17.9	38.1	2
Median rooms per unit .....	5.1	4.4	50
Percent vacant .....	7.3	11.5	3
Occupied year-round housing units, 1980 (1,000) .....	80,390	294	43
With 1.01 or more persons per room (percent) .....	4.5	15.3	1
Percent owner-occupied units .....	64.4	51.7	49
Condominium housing, 1980 (1,000) .....	2,253	74	6
Percent of total housing units .....	2.5	22.2	1
Median value of owner-occupied units (dollars) .....	59,100	99,000	1
Median value of owner-occupied units, 1980 (\$1,000) ....	47.2	118.1	1
Median monthly homeowner costs, 1980 (dollars) .....	365	463	2
Median monthly rent of renter-occupied units, 1980 (dollars) .....	243	311	2
Air-conditioning in homes, percent of year-round housing units, 1980 .....	55.0	18.1	47
Manufacturing establishments, 1982 .....	358,061	966	44
Value of manufacturing shipments, 1984 (bil. dol.) .....	2,253.7	3.4	46
Value added by manufacture, 1984 (million dollars) .....	983,560	1,046	46
Value added by manufacture, 1982 (million dollars) .....	824,118	1,120	44
Average per establishment (\$1,000) .....	2,302	1,158	46
Average per employee (dollars) .....	43,161	47,441	9
Manufacturers' inventories, end of 1982 (mil. dol.) ....	306,137	446	45
New capital investment, manufacturing, 1983 (mil. dol.)	61,924	61	48
Average per production worker (dollars) .....	5,081	4,067	39
Manufacturing employees, 1984 (1,000) .....	19,137	23	46
Production workers .....	12,581	16	46
Ave. payroll per manufacturing employee, 1982 (dollars)	19,882	15,271	47
Average per production worker .....	16,514	13,594	43

Table 744.-- DOMESTIC TRADE, SERVICES, AND FOREIGN AND INTERSTATE COMMERCE

Subject	United States	Hawaii	
		Number	Rank
Retail sales, 1985 (billion dollars) .....	1,395.2	6.7	41
Sales per household (dollars) .....	15,782	20,009	3
Sales per capita (dollars) .....	5,844	6,341	15
Retail trade establishments, 1982 (1,000) .....	1,923.2	8.9	42
Retail sales, selected businesses, 1985 (mil. dol.):			
Automotive dealers .....	304,006	896	47
Food stores .....	288,855	1,282	41
General merchandise stores .....	163,840	843	38
Eating and drinking places .....	134,212	1,172	31
Gasoline service stations .....	106,067	410	45
Apparel and accessories stores .....	71,818	555	32
Retail trade employees, 1982 (1,000) .....	14,468	82	38
Retail trade annual payroll, 1982 (million dollars) ....	123,619	696	38
Restaurant Business' "Restaurant Activity Index," 1986 .	100	189	2
Restaurant Business' "Restaurant Growth Index," 1986 ...	100	171	2
Beer consumption per capita, 1983 (gallons) .....	34.46	41.12	9
Wholesale trade establishments, 1982 .....	415,829	1,737	42
Wholesale trade employees, 1982 (1,000) .....	4,984.9	17.2	42
Service establishments, 1982 (1,000) .....	1,261.7	6.1	40
Receipts of service establishments with payroll and subject to Federal income tax, 1982 (mil. dol.) .....	426,982	2,660	34
Receipts per service establishment (\$1,000) .....	338.4	434.3	4
Receipts of service ests., selected businesses, 1982:			
Business services (million dollars) .....	106,866	314	38
Health services (million dollars) .....	95,610	420	38
Legal services (million dollars) .....	34,325	173	34
Hotels, motels, and other lodging places (mil. dol.) .	33,215	973	9
Automotive repair, services, and garages (mil. dol.) .	30,695	249	32
Service industry employees, 1982 (1,000) .....	11,106	71	34
Service industry annual payroll, 1982 (million dollars)	158,625	904	34
Population per travel agency, including P.R., 1983 .....	(NA)	3,227	52
Motion pictures industry, ests. with payroll, 1982:			
Production, distribution, and service ests. ....	7,905	15	34
Receipts (million dollars) .....	10,117	4	40
Theaters .....	9,344	34	47
Foreign-owned business establishments, 1982 .....	48,074	276	34
Percent of total establishments .....	1.04	1.27	8
Foreign direct investment (nonbank affiliates), inc.			
U.S. terr. and poss., and offshore sites, 1985:			
Gross book value (million dollars) .....	293,590	1,771	37
Employment (1,000) .....	2,854	19	33
Japanese owned .....	209	11	5
Land owned (1,000 acres) .....	14,584	50	38

NA Not available.



## BIBLIOGRAPHY

This volume is the 21st in a series published by the Hawaii State Department of Business and Economic Development 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 is the first one issued under the new name of the department. All of the volumes issued before 1984 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, earlier figures can usually be found 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. Copies are available from the University of Hawaii Press and various book stores for \$30.00.

Privately published works of general statistical reference include Hawaii Facts and Figures 1987, sold by the Chamber of Commerce of Hawaii at \$3.00 per copy, and All About Business in Hawaii 1987, published by Crossroads Press, Inc., at \$3.95.

Two of the four counties have produced statistical abstracts. In 1987, the Kauai County Office of Economic Development issued Kauai, Island of Opportunity, Facts and Figures, 1986. The Hawaii County Department of Research and Development has published County of Hawaii Data Book 1980, now out of print.

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 107th, dated 1987; copies are available for \$29.00 (cloth) or \$22.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The State and Metropolitan Area Data Book, 1986, also available from GPO, costs \$28.00. The County and City Data Book, 1983 is sold by the same agency for \$24.00. All three volumes are on the shelves of major libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK:  
1962 TO 1986

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/ ....	128	243	1.00	1.00	(NA)	(NA)
1967 .....	66	95	(NA)	(NA)	1,969.45	3,000
1968 .....	69	99	1.00	1.00	2,969.20	3,000
1970 .....	136	135	1.00	1.00	2,470.92	2,030
1971 .....	159	152	2.00	2.00	4,149.60	2,000
1972 2/ ....	227	210	4.00	5.00	6,245.00	3,000
1973 .....	290	262	4.00	5.00	6,309.00	1,500
1974 .....	306	292	4.00	5.00	9,330.00	2,000
1975 .....	302	309	4.00	5.00	10,222.95	2,000
1976 .....	312	335	4.00	5.00	9,901.13	2,000
1977 .....	339	374	4.00	5.00	11,990.00	2,000
1978 .....	379	425	4.00	5.00	8,900.00	2,000
1979 .....	447	407	4.00	5.00	10,744.00	2,500
1980 .....	545	496	5.00	10.00	12,335.00	2,500
1981 .....	603	563	5.00	10.00	14,910.00	3,000
1982 .....	596	566	5.00	10.00	15,633.00	3,000
1983 .....	663	622	5.00	10.00	15,875.00	2,500
1984 .....	762	724	5.00	15.00	32,003.00	3,000
1985 .....	662	680	5.00	15.00	19,995.00	3,000
1986 .....	705	721	5.00	15.00	19,980.00	3,000

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.

Source: DBED records.

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*Envision Hawaii!*



DEPARTMENT OF BUSINESS  
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P.O. Box 2359, Honolulu, Hawaii 96804  
Walk in address: 250 South King Street, 7th Floor