

THE STATE OF HAWAII

DATA

BOOK

1997

A STATISTICAL ABSTRACT

DBEDT

THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

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

P.O. Box 2359 • Honolulu, Hawaii 96804

Walk in address: 250 South Hotel Street, 4th Floor



**THE STATE
OF HAWAII**

DATA

BOOK

1997

A STATISTICAL ABSTRACT

DBEDT

THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

STATE OF HAWAII

Copyright © 1998 by the State of Hawaii, Department of Business,
Economic Development & Tourism.

This report has been cataloged as follows:

Hawaii. Dept. of Business, Economic Development and Tourism. Research and Economic
Analysis Division. Statistics and Data Support Branch.

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 names.

1. Hawaii-Statistics. I. Data Book.
HA4007.H356.1997

CONTENTS

	<u>Page</u>
About this book.....	5
State map	6
Guide to tabular presentation.....	8
U.S. and metric weights and measures	9

SECTIONS

1. Population.....	11
2. Vital statistics and health	59
3. Education.....	87
4. Law enforcement, courts, and prisons.....	109
5. Geography and environment	130
6. Land use and ownership	177
7. Recreation and travel.....	189
8. Elections	241
9. Government finances and employment.....	255
10. National defense.....	290
11. Social insurance and human services.....	305
12. Labor force, employment, and earnings.....	319
13. Income, expenditures, and wealth	354
14. Prices	381
15. Banking, insurance, and business enterprise	395
16. Communications.....	418
17. Energy and science.....	430
18. Transportation.....	454
19. Agriculture.....	501
20. Forests, fisheries, and mining.....	527
21. Construction and housing	540
22. Manufactures	572
23. Domestic trade and services.....	584
24. Foreign and interstate commerce	618
Neighborhood statistics program area maps.....	641
Census tract maps.....	643
Bibliography.....	646
Index.....	648
On-line availability of <i>Data Book</i> tables to public.....	679

This report has been produced by the Hawaii State Department of Business, Economic Development & Tourism's Research and Economic Analysis Division, headed by Pearl Imada Iboshi, Ph.D. It was compiled and edited by Glenn K. Ifuku, Research and Statistics Officer, with the assistance of Robert C. Schmitt (retired State Statistician), Mary Blewitt, Hans Meyer, Jan Nakamoto, Paul Oshiro, Kenoilani Koli, Iris Mishima, Susan Shiraishi, Susan Yanos, Monica Kim, Jason Chaves and Michelle Fernandez. The Index was prepared by the staff of the Business Resource Center Library. The *Data Book* was also reviewed and edited by Janis Y. Togashi, Ph.D., DBEDT Communications Director. Stewart A. Wastell, illustrator, drew the district and neighborhood maps.

Copies of this report are available from the DBEDT Research and Economic Analysis Division, 250 South Hotel Street, 4th floor, P. O. Box 2359, Honolulu, Hawaii 96804. The price per copy is \$18.00 in Hawaii, \$22.00 air-mailed postpaid to the continental United States, \$25.00 air-mailed postpaid to Canada, \$38.00 air-mailed postpaid to Mexico, and \$51.00 air-mailed postpaid to all other countries. Please make check or money order payable to **The State of Hawaii**.

ABOUT THIS BOOK

The Department of Business, Economic Development & Tourism is pleased to present the 1997 edition of the *State of Hawaii Data Book*, the official summary of statistics on the social, economic, and political organization of our state.

This publication, the 30th in the series, closely follows the organization and format of its counterpart, the *Statistical Abstract of the United States*, to facilitate comparison of state and national data. It places the major emphasis on statewide data and less so on counties, islands, urban places, and smaller areas. Source references for additional statistical detail are provided in the introductions to the sections and at the end of each table.

Agencies of the federal, state, and county governments, as well as numerous private organizations, assisted DBEDT's Research and Economic Analysis Division in preparing the *Data Book*. To them, we extend our appreciation for their cooperation and contributions to this annual endeavor.



Benjamin J. Cayetano
Governor of Hawaii



Seiji F. Naya
Director of Business,
Economic Development & Tourism

STATE OF HAWAII

COUNTIES and DISTRICTS

KURE ATOLL

MIDWAY ISLANDS

PEARL AND HERMES ATOLL

LISIANSKI ISLAND

LAYSAN ISLAND

MARO REEF

GARDNER PINNACLES

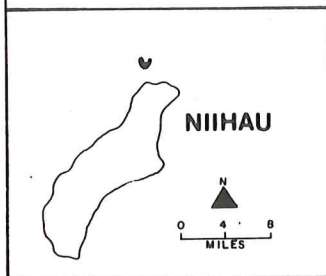
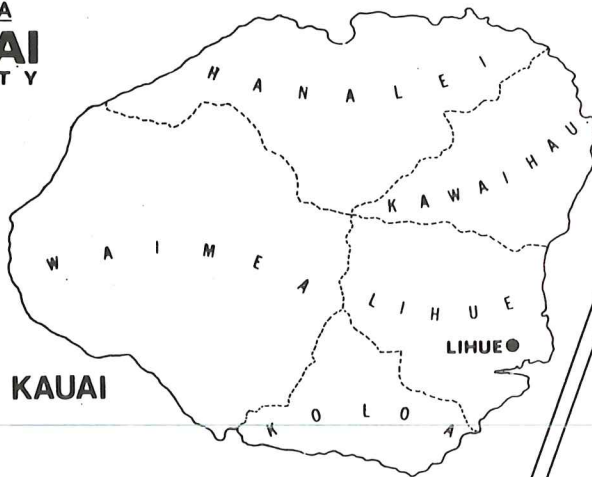
NOTE: The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession) are part of the Honolulu District.

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

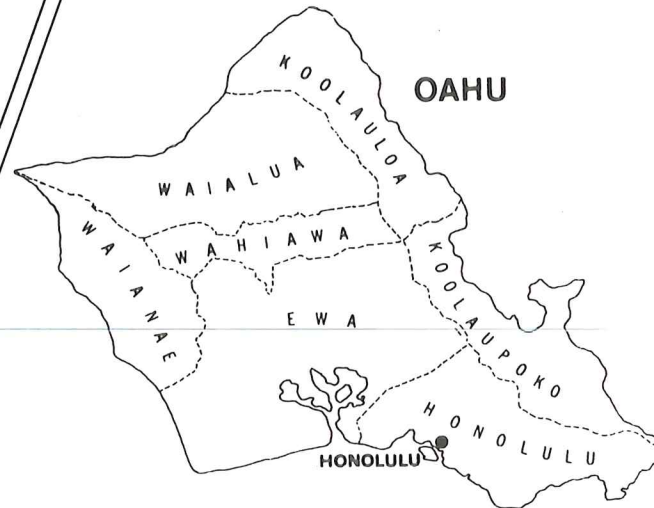
FRENCH FRIGATE SHOALS

NECKER ISLAND

INSET A KAUAI COUNTY

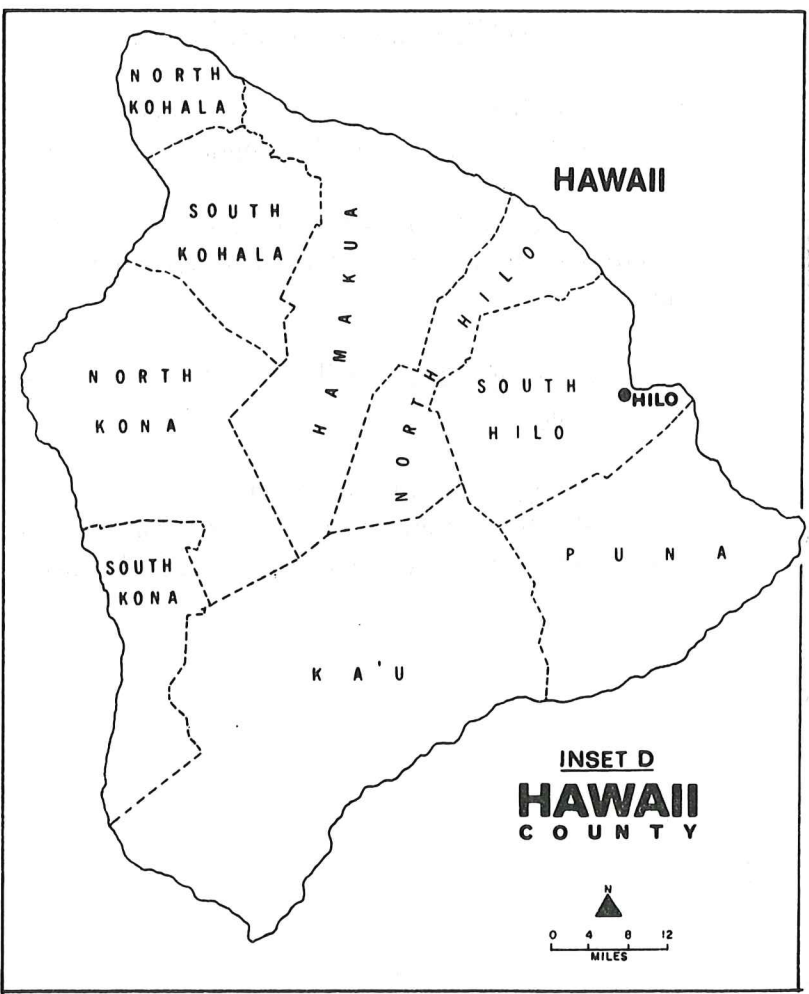
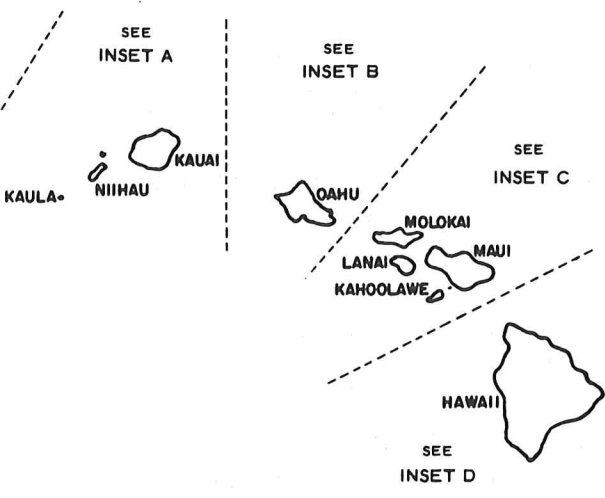
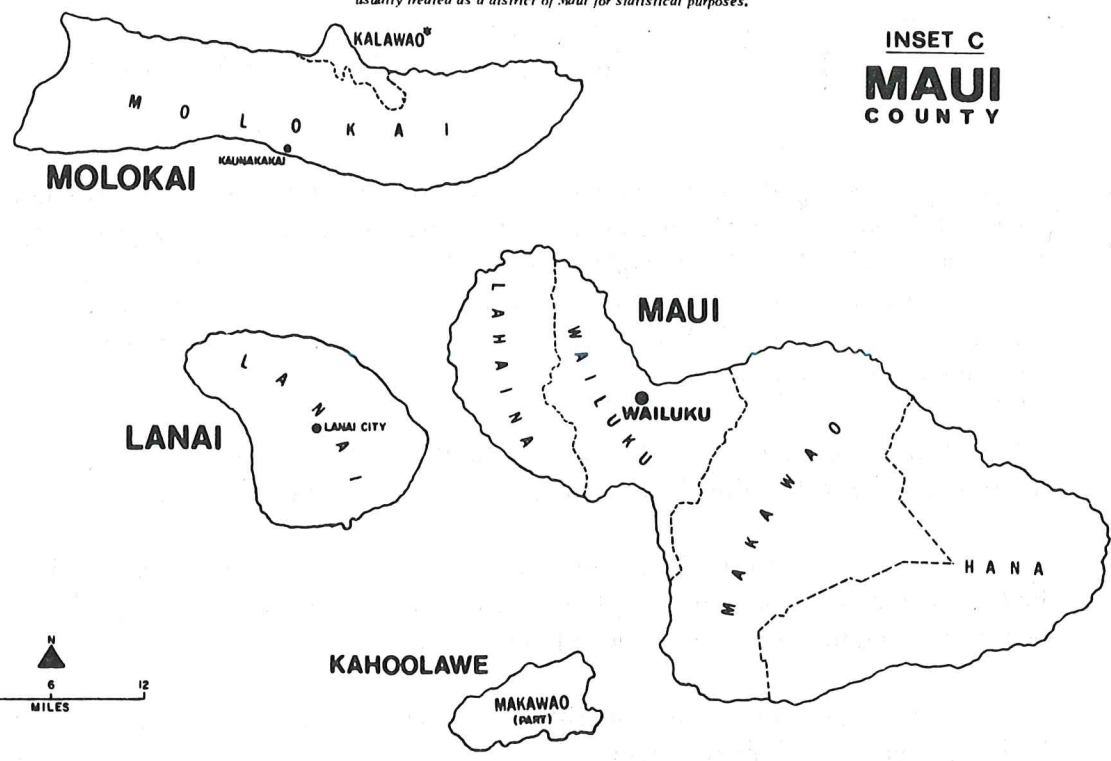


INSET B HONOLULU CITY AND COUNTY



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

**INSET C
MAUI
COUNTY**



**INSET D
HAWAII
COUNTY**

STATE OF HAWAII
DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, *Statistical Abstract of the United States*, and described in *Bureau of the Census Manual of Tabular Presentation*, published by the Bureau in 1950. These principles have been accepted by the Department of Business, Economic Development & Tourism for use in its publications and recommended to all other state agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items, figures or symbols within the table.

Parallel vertical rules are used to the right of a total column to indicate --

- (1) that the components which follow add to the total;
- (2) in the case of derived figures, that the underlying data are additive to their total.

A dash (-) represents zero in references to absolute values. In rates and percentages, a zero (0) is used. Cells without available data usually show (NA), and sometimes three dots (...).

In many tables, details will not add exactly to the totals and subtotals shown because of rounding.

Geographic coverage should be understood as statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.	to	Metric	Metric	to	U.S.			
Length								
Inches	x	25.4	=	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	x	0.621	=	miles
Area								
Sq. feet	x	0.093	=	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity								
Cubic feet	x	0.028	=	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	x	0.264	=	gallons (liq.)
Mass								
Ounces (avdp.)	x	28.350	=	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	x	1.102	=	short tons
Miscellaneous conversions								
1 statute mile = 5,280 ft. = 1,760 yards								
1 acre = 43,560 sq. feet								
1 square mile = 640 acres								
1 short ton = 2,000 pounds								

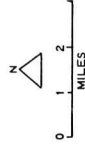
Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	to	Fahrenheit
Temperature				
100 °F		37.8 °C	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.

NEIGHBORHOOD STATISTICS PROGRAM AREAS



28

27

26

24

25

21

29

20

17

16

14

15

18

19

30

31

33

23

22

13

12

10

7

6

8

9

5

4

3

2

1

CREST OF KOOLOU RANGE

POHOONAH STREAM

MILITARY RESERVATION BDRY.

CREST

KAMEHAMEHA HWY

KUNIA RD.

KUNIA RD.

ILLUMINATING RANGE

WAIANAE

DE

KUNIA RD.

H-2 Fwy

H-2 Fwy

KIPAPA STREAM

KIPAPA STREAM

SALT LAKE BLVD.

MAKALEI STREAM

MAKALEI STREAM

HILMA STREAM

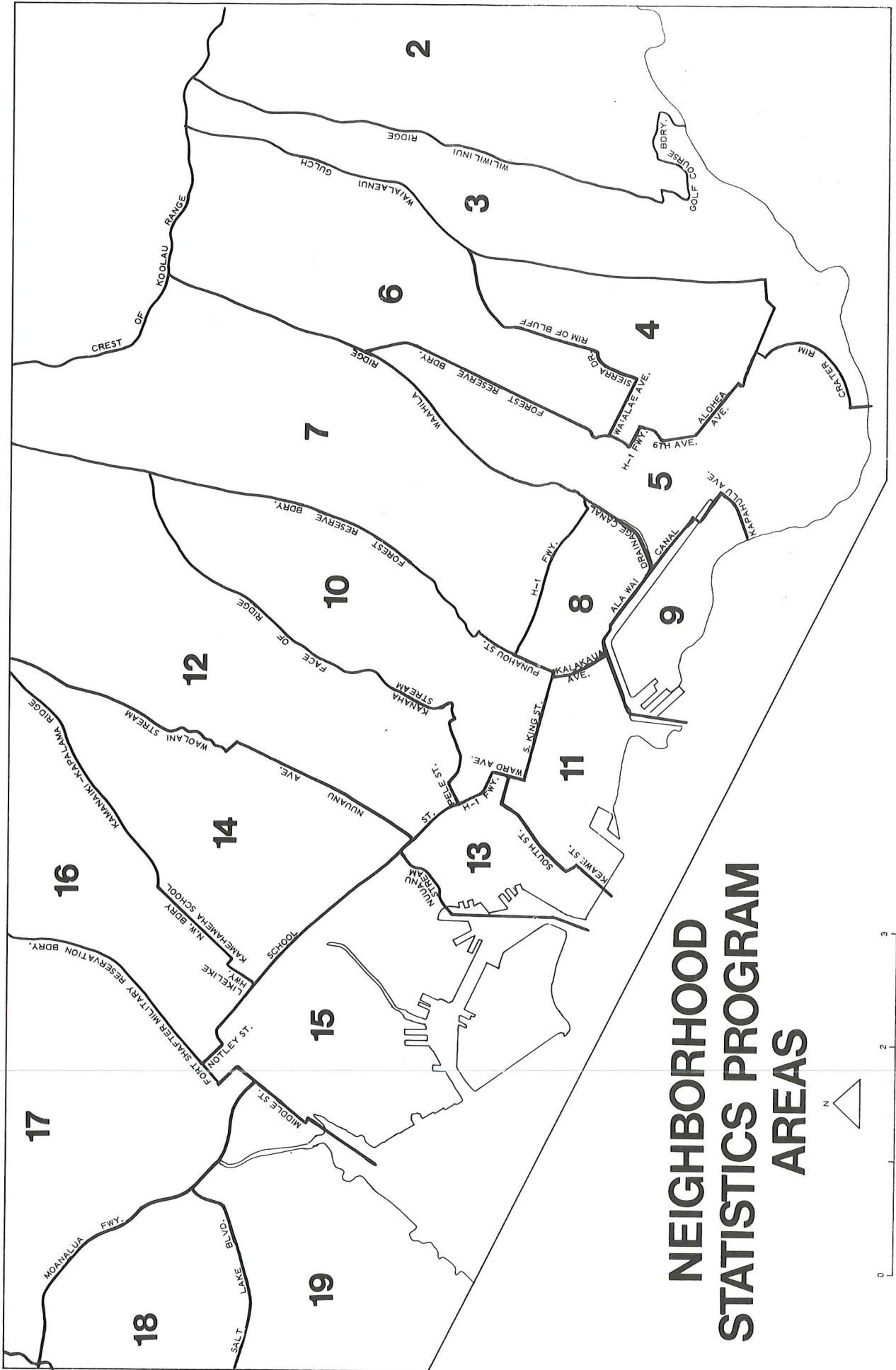
HILMA STREAM

MAHINUI RIDGE

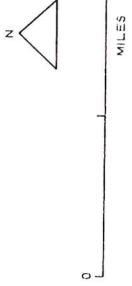
MAHINUI RIDGE

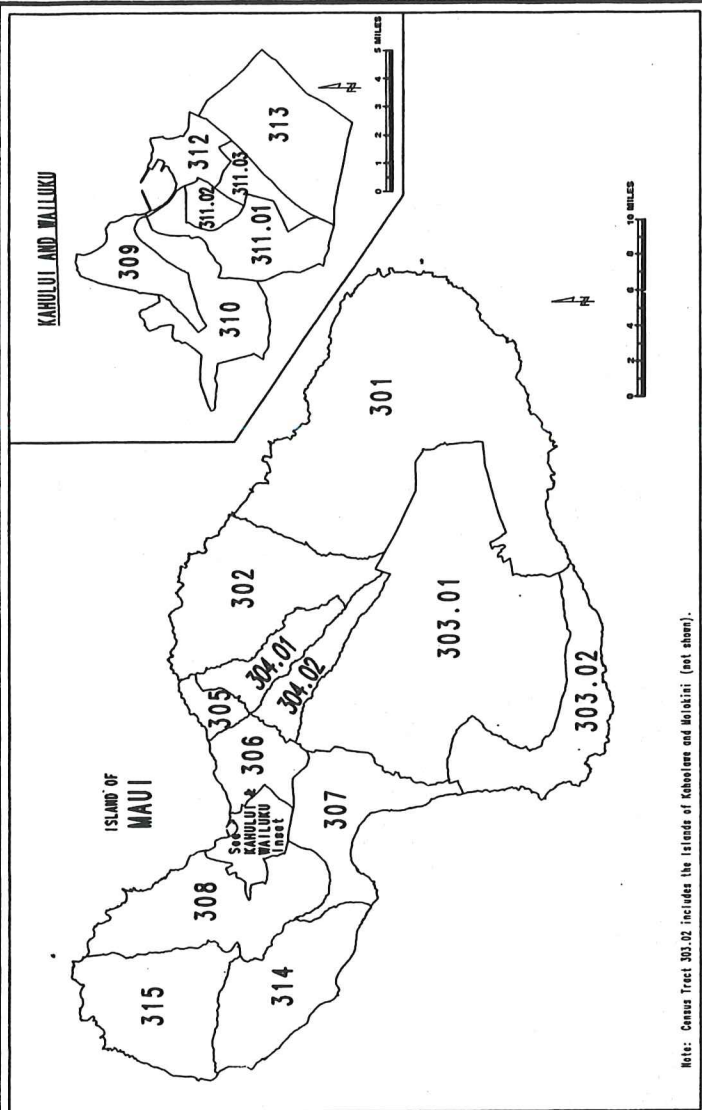
MAHINUI RIDGE

See next page

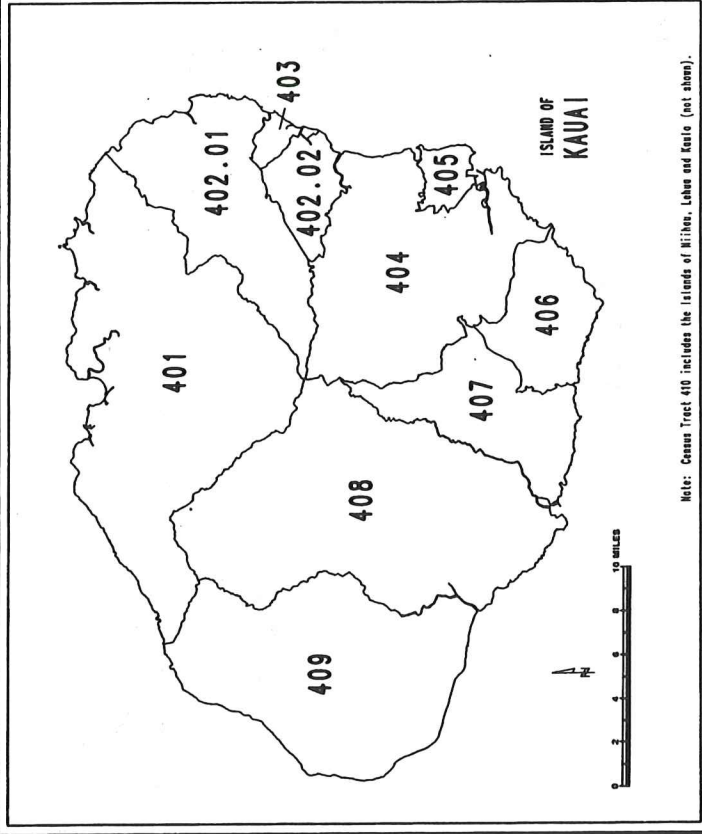


NEIGHBORHOOD STATISTICS PROGRAM AREAS

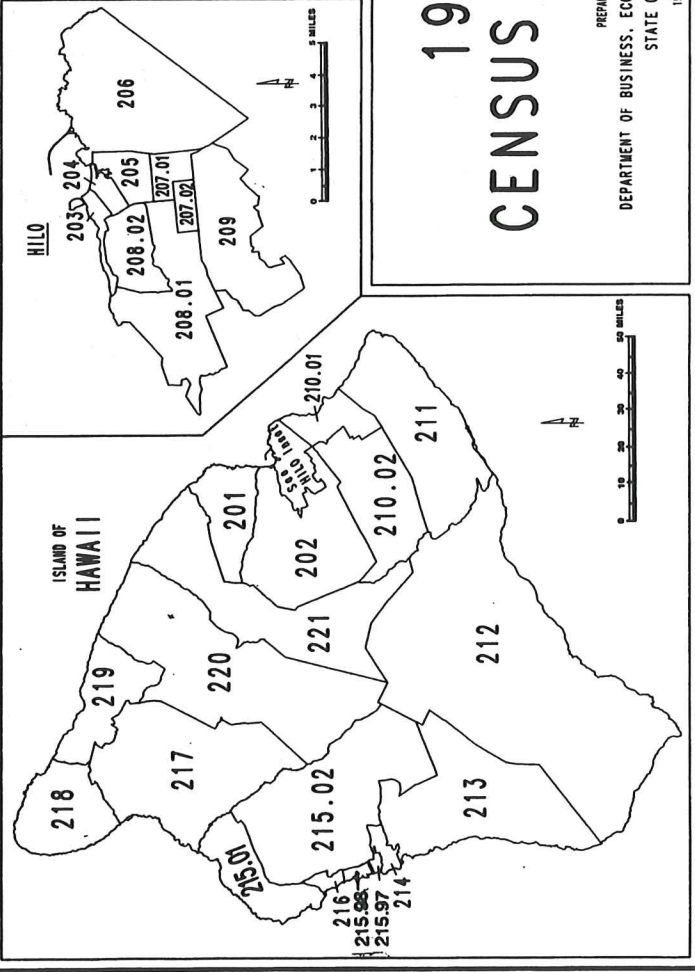
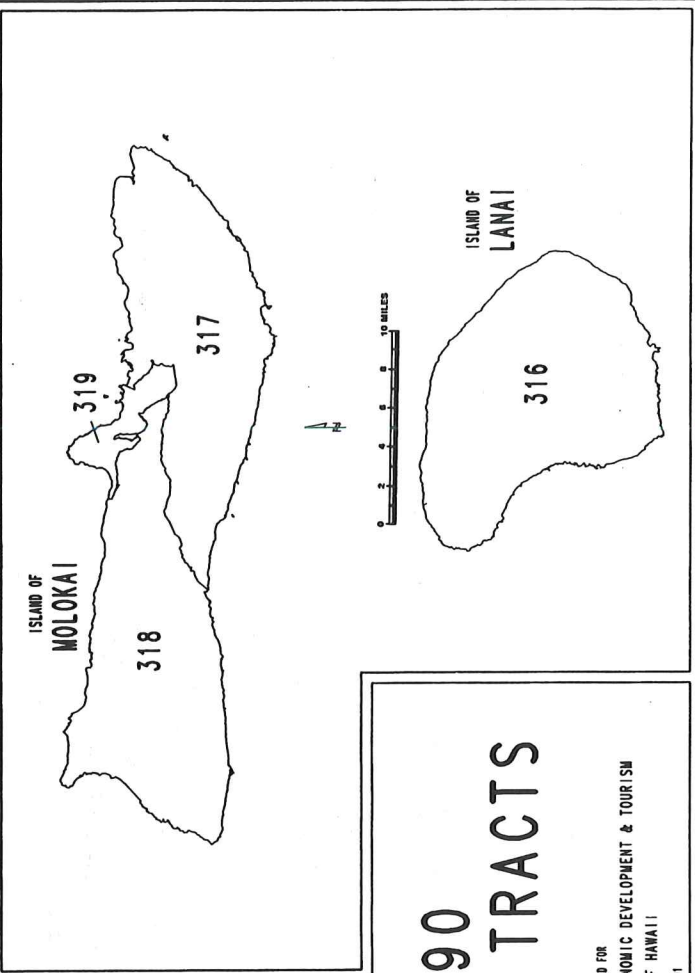




Note: Census Tract 303.02 includes the Islands of Kahoolawe and Molokai (not shown).



Note: Census Tract 410 includes the Islands of Nihoa, Lanai and Kauai (not shown).



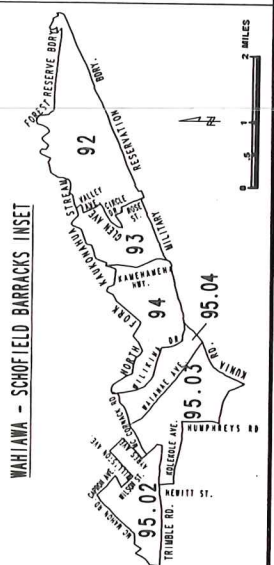
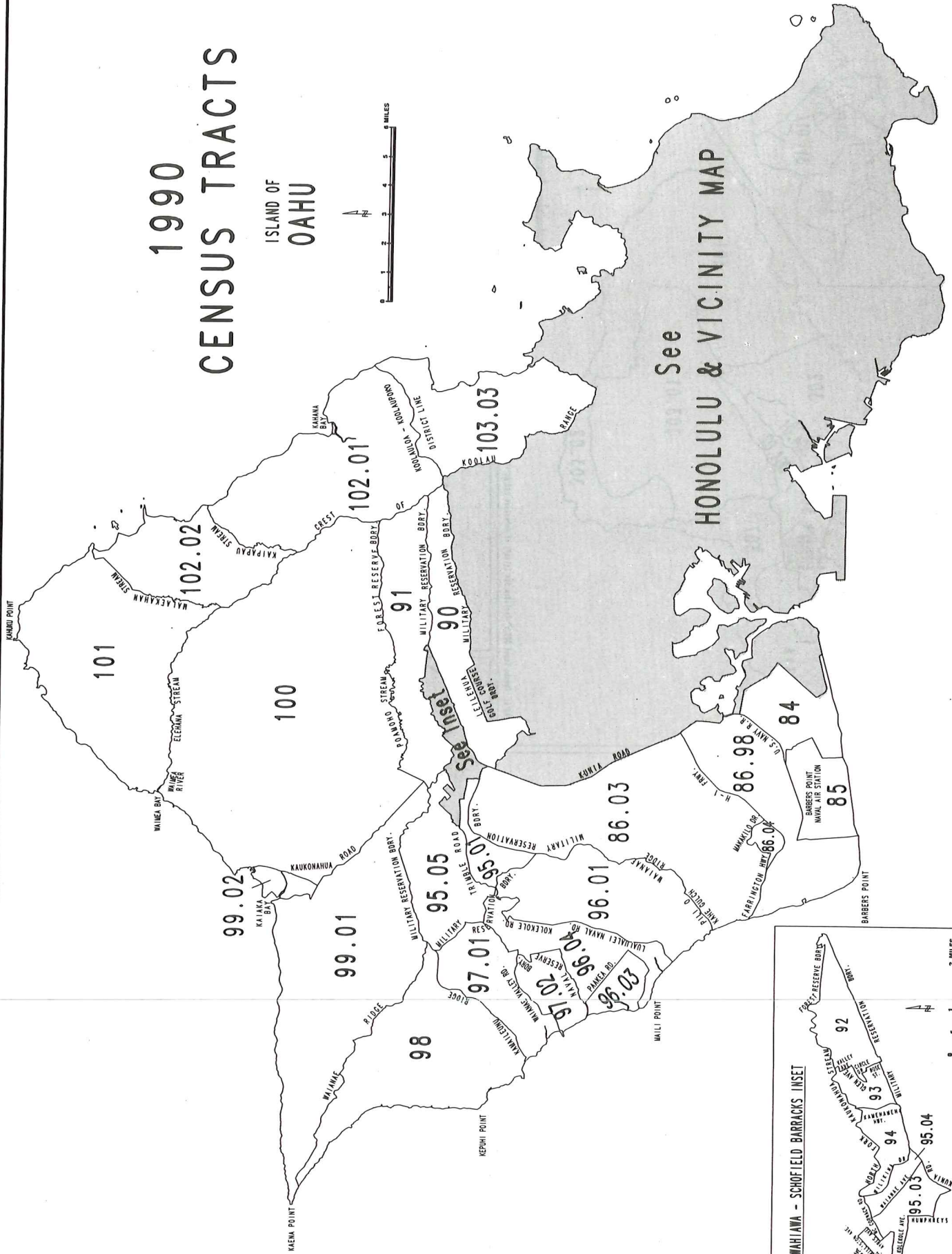
1990

CENSUS TRACTS

PREPARED FOR
 DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
 STATE OF HAWAII
 1991

1990 CENSUS TRACTS

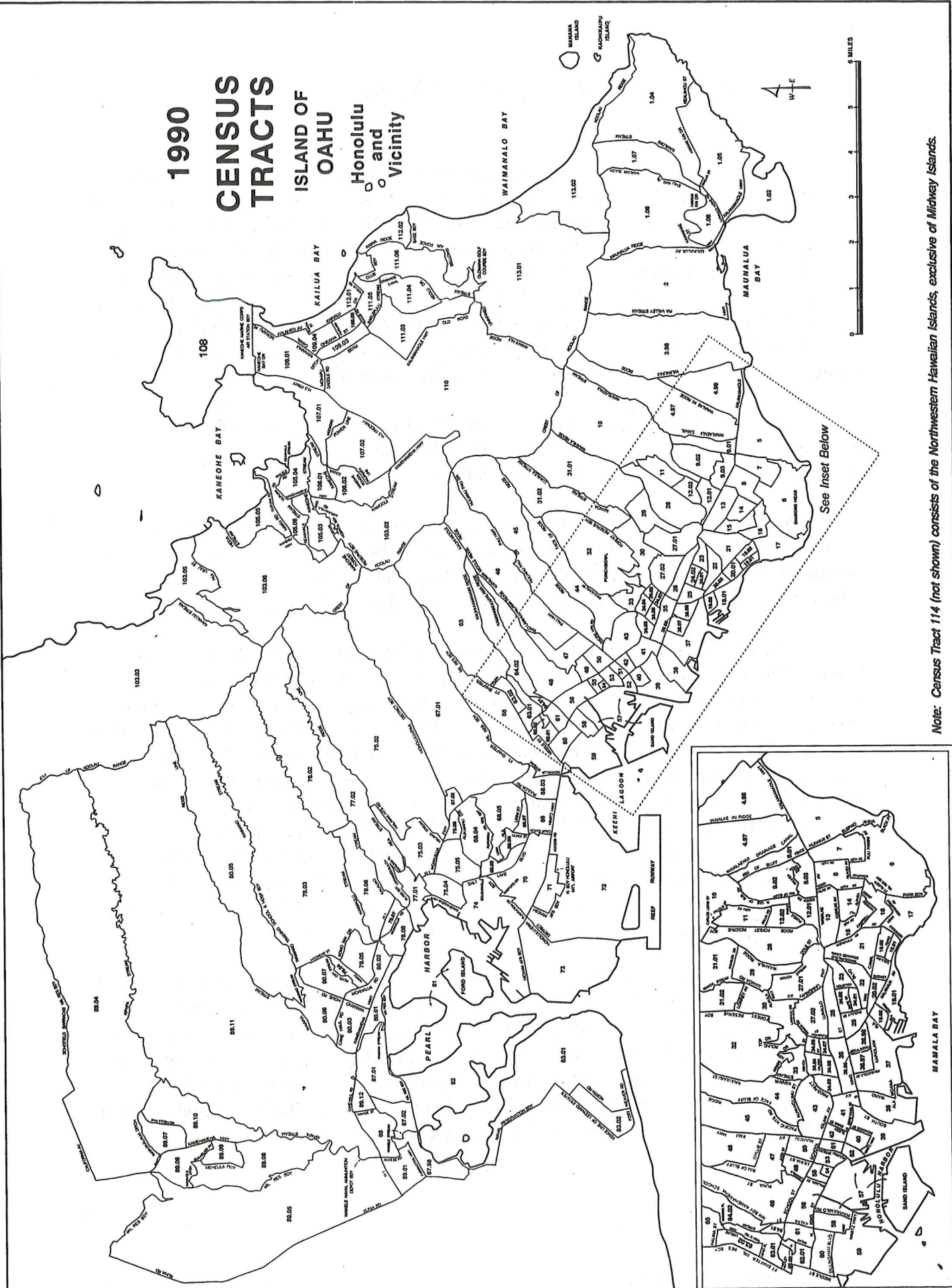
ISLAND OF
OAHU



1990 CENSUS TRACTS

ISLAND OF OAHU

Honolulu and vicinity



See Inset Below

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

Section 1

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Federal-State Cooperative Program for Population Estimates, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Hawaii State Department of Health, the ongoing series on visitors present and residents absent provided by the Hawaii Visitors & Convention Bureau, and the U.S. Immigration and Naturalization Service tabulations on immigration. Earlier figures on population and migration are given in *Historical Statistics of Hawaii*, Sections 1 and 3. Comparable national statistics on population and migration appear in Section 1 of the *Statistical Abstract of the United States: 1997*.

Table 1.01-- POPULATION OF COUNTIES: 1831 TO 1990

[Population counts from missionary censuses of 1831-1832 and 1835-1836, censuses conducted by the Hawaiian government from 1850 to 1896, and censuses by the U.S. Bureau of the Census beginning in 1900. Data for 1831-1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, including armed forces stationed in Hawaii. Based on county boundaries established in 1905 and 1909]

Census date	Total population		City & County of Honolulu	Hawaii County	Kauai County	Maui County (including Kalawao)
	Number	Percent change 1/				
1831-32 2/	130,313	...	29,755	45,792	12,024	42,742
1835-36 3/	108,579	-4.6	27,809	39,364	9,927	31,479
1850: January	84,165	-1.8	25,440	25,864	7,670	25,191
1853: Dec. 26	73,138	-3.5	19,126	24,450	7,781	21,781
1860: Dec. 24	69,800	-0.7	21,275	21,481	7,134	19,910
1866: Dec. 7	62,959	-1.7	19,799	19,808	6,624	16,728
1872: Dec. 27	56,897	-1.7	20,671	16,001	5,194	15,031
1878: Dec. 27	57,985	0.3	20,236	17,034	5,811	14,904
1884: Dec. 27	80,578	5.5	28,068	24,991	8,935	18,584
1890: Dec. 28	89,990	1.8	31,194	26,754	11,859	20,183
1896: Sept. 27	109,020	3.3	40,205	33,285	15,392	20,138
1900: June 1	154,001	9.4	58,504	46,843	20,734	27,920
1910: April 15	191,874	2.2	81,993	55,382	23,952	30,547
1920: January 1	255,881	3.0	123,496	64,895	29,438	38,052
1930: April 1	368,300	3.6	202,887	73,325	35,942	56,146
1940: April 1	422,770	1.4	257,696	73,276	35,818	55,980
1950: April 1	499,794	1.7	353,020	68,350	29,905	48,519
1960: April 1	632,772	2.4	500,409	61,332	28,176	42,855
1970: April 1	769,913	2.0	630,528	63,468	29,761	46,156
1980: April 1	964,691	2.3	762,565	92,053	39,082	70,991
1990: April 1	1,108,229	1.4	836,231	120,317	51,177	100,504

1/ Annual rate since the preceding census, based on the formula for continuous compounding.

2/ Total population also reported as 129,814.

3/ Total population also reported as 108,393 and 108,568.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 11-14; U.S. Bureau of the Census, *1980 Census of Population*, PC80-1-A13 (October 1981), table 2, and *1990 Census of Population and Housing*, 1990 CPH-1-13 (August 1991), table 2.

Table 1.02-- CHARACTERISTICS OF THE POPULATION: 1831 TO 1990

[See headnote to table 1.01]

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

NA Not available.

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

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

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

**Table 1.03-- RESIDENT POPULATION, BY MILITARY STATUS:
1980 TO 1997**

[Excludes visitors present but includes residents temporarily absent]

Year	Total resident population 1/	Armed forces 2/	Civilian population		
			All civilians	Military dependents 3/	Not military dependents
1980: April 1	964,691	57,056	907,635	64,023	843,612
July 1	968,500	57,900	910,600	64,100	846,500
1981: July 1	978,200	56,600	921,600	64,300	857,300
1982: July 1	993,800	54,900	938,900	66,700	872,200
1983: July 1	1,012,700	55,200	957,500	66,300	891,200
1984: July 1	1,027,900	57,300	970,600	67,100	903,500
1985: July 1	1,039,700	56,400	983,300	64,300	919,000
1986: July 1	1,051,800	58,100	993,700	66,200	927,500
1987: July 1	1,067,900	58,100	1,009,800	64,800	945,000
1988: July 1	1,079,800	56,800	1,023,000	69,900	953,100
1989: July 1	1,094,600	56,400	1,038,200	60,300	977,900
1990: April 1	1,108,229	55,222	1,053,007	59,935	993,072
July 1	1,112,546	55,288	1,057,258	60,614	996,644
1991: July 1	1,131,459	54,738	1,076,721	63,328	1,013,393
1992: July 1	1,149,524	55,099	1,094,425	56,994	1,037,431
1993: July 1	1,160,403	52,674	1,107,729	62,166	1,045,563
1994: July 1	1,172,592	52,845	1,119,747	54,338	1,065,409
1995: July 1	1,178,824	50,729	1,128,095	46,519	1,081,576
1996: July 1	1,182,948	47,986	1,134,962	55,337	1,079,625
1997: July 1	1,186,602	44,542	1,142,060	(NA)	(NA)

1/ Estimates after April 1, 1990 are revisions released in March 1998, and differ somewhat from the earlier figures cited in tables 1.08 and 1.45.

2/ 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.

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

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

Table 1.04-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1980 TO 1997

[1990-1997 figures are revised]

Year	Resident population 1/		De facto population 3/		De facto-resident ratio
	Total	Temporarily absent 2/	Total	Visitors present 2/	
1980: April 1	964,691	9,600	1,052,700	97,600	1.091
July 1	968,500	9,600	1,055,400	96,500	1.090
1981: July 1	978,200	11,600	1,062,600	96,000	1.086
1982: July 1	993,800	14,500	1,084,600	105,300	1.091
1983: July 1	1,012,700	11,500	1,109,200	108,000	1.095
1984: July 1	1,027,900	16,100	1,130,500	118,700	1.100
1985: July 1	1,039,700	18,600	1,137,800	116,700	1.094
1986: July 1	1,051,800	17,200	1,167,500	132,900	1.110
1987: July 1	1,067,900	15,700	1,186,500	134,300	1.111
1988: July 1	1,079,800	20,800	1,200,400	141,400	1.112
1989: July 1	1,094,600	18,700	1,245,600	169,700	1.138
1990: April 1	1,108,229	18,360	1,248,360	158,491	1.126
July 1	1,112,546	17,970	1,256,646	162,070	1.130
1991: July 1	1,131,459	16,590	1,272,459	157,590	1.125
1992: July 1 4/	1,149,524	37,080	1,265,834	153,390	1.101
1993: July 1 4/	1,160,403	49,117	1,260,036	148,750	1.086
1994: July 1	1,172,592	50,190	1,281,602	159,200	1.093
1995: July 1 5/	1,178,824	50,562	1,287,322	159,060	1.092
1996: July 1 5/	1,182,948	51,692	1,292,866	161,610	1.093
1997: July 1 5/	1,186,602	55,667	1,288,745	157,810	1.086

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area. See also table 1.03, footnote 1 and 2.

2/ 12-month moving averages.

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

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

5/ Preliminary estimates may differ from the corresponding figures in other tables of this *Data Book*.

Source: Federal-State Cooperative Program for Population Estimates; Hawaii Visitors & Convention Bureau, Basic Data Survey; residents temporarily absent on July 1, 1997 estimated by the Hawaii Department of Business, Economic Development and Tourism.

Table 1.06-- RESIDENT POPULATION, BY COUNTIES: 1980 TO 1997

[1990-1997 figures are revised. Based on place of usual residence. Includes armed forces stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1980: April 1	964,691	762,565	92,053	39,082	70,991
July 1	968,500	764,600	92,900	39,400	71,600
1981: July 1	978,195	767,573	96,122	40,457	74,043
1982: July 1	993,780	776,075	98,798	41,804	77,103
1983: July 1	1,012,717	789,097	100,764	42,796	80,060
1984: July 1	1,027,922	797,791	103,528	43,634	82,969
1985: July 1	1,039,698	804,294	105,900	44,357	85,147
1986: July 1	1,051,762	810,444	108,362	45,567	87,389
1987: July 1	1,067,917	818,447	111,735	47,203	90,532
1988: July 1	1,079,827	824,072	113,439	48,549	93,767
1989: July 1	1,094,588	831,337	116,585	49,847	96,819
1990: April 1	1,108,229	836,231	120,317	51,177	100,504
July 1	1,112,546	837,919	121,451	51,615	101,561
1991: July 1	1,131,459	846,092	127,338	53,085	104,944
1992: July 1	1,149,524	856,944	131,231	53,924	107,425
1993: July 1	1,160,403	861,238	134,132	54,694	110,339
1994: July 1	1,172,592	868,236	136,235	55,533	112,588
1995: July 1	1,178,824	869,147	138,510	55,932	115,235
1996: July 1	1,182,948	869,343	139,672	56,592	117,341
1997: July 1	1,186,602	869,857	141,458	56,423	118,864

1/ Including Kalawao County (Kalaupapa Settlement). Kalawao had 144 inhabitants in 1980, 130 in 1990, and 81 in 1997.

Source: Federal-State Cooperative Program for Population Estimates.

Table 1.07-- DE FACTO POPULATION, BY COUNTIES: 1980 TO 1997

[1990 -1997 figures are revised. Includes all persons physically present in area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as averages for 12-month periods centered on estimate date]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1980: April 1	1,052,700	822,000	98,700	46,100	85,900
July 1	1,055,400	823,400	99,300	46,400	86,400
1981: July 1	1,062,600	824,700	101,700	47,300	89,000
1982: July 1	1,084,600	837,600	104,300	48,400	94,200
1983: July 1	1,109,200	846,300	108,500	50,500	104,000
1984: July 1	1,130,500	852,300	109,600	54,100	114,400
1985: July 1	1,137,800	854,800	112,500	55,200	115,400
1986: July 1	1,167,500	871,000	116,600	59,700	120,100
1987: July 1	1,186,500	881,000	120,400	62,100	123,100
1988: July 1	1,200,400	888,200	122,200	64,200	125,700
1989: July 1	1,245,600	905,900	132,300	68,100	139,200
1990: April 1	1,248,400	908,000	135,100	68,000	137,300
July 1	1,256,600	911,800	136,500	69,000	139,400
1991: July 1	1,272,500	913,400	144,100	71,300	143,600
1992: July 1	1,265,800	907,700	146,300	65,600	146,200
1993: July 1	1,260,000	903,900	147,600	60,700	147,900
1994: July 1	1,281,600	914,500	149,700	66,600	150,800
1995: July 1	1,287,300	915,000	151,200	67,900	153,300
1996: July 1	1,292,900	915,800	152,700	69,400	154,900
1997: July 1	1,288,700	906,100	156,200	69,900	156,600

1/ Including Kalawao County (Kalaupapa Settlement). The 1997 de facto population of Kalawao was 81.
 Source: Federal-State Cooperative Program for Population Estimates; Hawaii Visitors & Convention Bureau, Basic Data Survey; calculations by the Department of Business, Economic Development & Tourism.

Table 1.08-- RESIDENT AND DE FACTO POPULATION, BY COUNTIES AND ISLANDS: 1990 AND 1995

County and island	Resident population			De facto population		
	April 1, 1990	July 1, 1995	Percent change	April 1, 1990	July 1, 1995 1/	Percent change
State total	1,108,229	1,179,198	6.4	1,248,360	1,287,596	3.1
Counties:						
Hawaii	120,317	137,291	14.1	135,080	150,304	11.3
Maui	100,374	115,070	14.6	137,170	153,522	11.9
Kalawao	130	93	-28.5	128	93	-27.3
Honolulu	836,231	870,761	4.1	908,019	915,534	0.8
Kauai	51,177	55,983	9.4	67,963	68,133	(Z)
Island:						
Hawaii	120,317	137,291	14.1	135,080	150,304	11.3
Maui	91,361	105,336	15.3	126,992	141,169	11.2
Kahoolawe	-	-	...	-	-	...
Lanai	2,426	2,989	23.2	2,629	4,571	73.9
Molokai	6,717	6,838	1.8	7,677	7,875	2.6
Oahu 2/	836,231	870,761	4.1	908,019	915,534	0.8
Kauai 3/	50,947	55,983	(NA)	67,737	68,133	(NA)
Niihau 3/	230	(NA)	(NA)	226	(NA)	(NA)

NA Not available.

Z Less than 0.05 percent.

1/ Preliminary. State total differs from figure displayed in Table 1.04. The state total presented in the current table is based upon preliminary data by island.

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

3/ Niihau included with Kauai in 1995.

Source: U.S. Bureau of the Census, 1990 Public Law 94-171 counts; Hawaii State Department of Business, Economic Development & Tourism estimates of resident and de facto population based on resident population estimates in present *Data Book*, table 1.10, and Hawaii Visitors & Convention Bureau survey data on visitors present and residents absent.

**Table 1.09-- LAND AREA AND DE FACTO POPULATION DENSITY, BY
COUNTIES AND ISLANDS: 1995**

County and island	Land area		De facto population density	
	Square km.	Square miles	Per square km.	Per square mile
State total	16,636.5	6,423.4	77.4	200.5
Counties:				
Hawaii	10,433.1	4,028.2	14.4	37.3
Maui	3,002.5	1,159.3	51.1	132.4
Kalawao	34.2	13.2	2.7	7.0
Honolulu	1,554.5	600.2	589.0	1,525.4
Kauai	1,612.2	622.5	42.3	109.5
Islands:				
Hawaii	10,433.1	4,028.2	14.4	37.3
Maui	1,883.7	727.3	74.9	194.1
Kahoolawe	115.6	44.6	0.0	0.0
Lanai	364.0	140.5	12.6	32.5
Molokai	673.4	260.0	11.7	30.3
Oahu 1/	1,554.5	600.2	589.0	1,525.4
Kauai	1,430.5	552.3	47.6	123.4
Niihau 2/	181.7	70.2	(3/)	(3/)

1/ Includes the Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, except Midway (7.0 sq. km., 2.7 sq. mi., 24 inhabitants).

2/ Includes Kaula (1.0 sq. km., 0.4 sq. mi.) and Lehua (1.0 sq. km., 0.4 sq. mi.), both uninhabited.

3/ Niihau population included with Kauai. In 1990, densities were 122.6 per square mile on Kauai and 3.2 per square mile on Niihau.

Source: Area from U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 15, and 1990 Public Law 94-171 data; population from present *Data Book*, table 1.08; density computed.

**Table 1.10-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS:
1980, 1990, AND 1995**

County and district (see maps, pp. 6-7)	April 1, 1980	April 1, 1990	July 1, 1995	Percent change	
				1980 to 1990	1990 to 1995
State total	964,691	1,108,229	1,179,198	14.9	6.4
Hawaii County	92,053	120,317	137,291	30.7	14.1
Puna	11,751	20,781	27,585	76.8	32.7
South Hilo	42,278	44,639	45,790	5.6	2.6
North Hilo	1,679	1,541	1,561	-8.2	1.3
Hamakua	5,128	5,545	5,757	8.1	3.8
North Kohala	3,249	4,291	4,826	32.1	12.5
South Kohala	4,607	9,140	12,098	98.4	32.4
North Kona	13,748	22,284	25,447	62.1	14.2
South Kona	5,914	7,658	8,619	29.5	12.5
Ka'u	3,699	4,438	5,607	20.0	26.3
Maui County 1/	70,991	100,504	115,163	41.6	14.6
Hana	1,423	1,895	2,027	33.2	7.0
Makawao	19,005	29,207	33,854	53.7	15.9
Wailuku	32,111	45,685	53,316	42.3	16.7
Lahaina	10,284	14,574	16,137	41.7	10.7
Lanai	2,119	2,426	2,989	14.5	23.2
Molokai	5,905	6,587	6,745	11.5	2.4
Kalawao	144	130	93	-9.7	-28.5
City & Co. of Honolulu	762,565	836,231	870,761	9.7	4.1
Honolulu	365,048	377,059	369,485	3.3	-2.0
Koolaupoko	109,373	117,694	121,990	7.6	3.7
Koolauloa	14,195	18,443	19,152	29.9	3.8
Waialua	9,849	11,549	11,572	17.3	0.2
Wahiawa	41,562	43,886	48,905	5.6	11.4
Waianae	31,487	37,411	37,966	18.8	1.5
Ewa	191,051	230,189	261,691	20.5	13.7
Kauai County	39,082	51,177	55,983	30.9	9.4
Hanalei	2,668	4,631	5,404	73.6	16.7
Kawaihau	10,497	15,627	17,537	48.9	12.2
Lihue	8,590	10,663	11,237	24.1	5.4
Koloa	8,734	11,368	12,586	30.2	10.7
Waimea	8,593	8,888	9,220	3.4	3.7

1/ Including Kalawao County.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Population and Housing Unit Counts, Hawaii*, 1990 CPH-2-13 (March 1993), table 8; 1995 county estimates from the Federal-State Cooperative Program for Population Estimates; 1995 district estimates by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 1.11-- RESIDENT POPULATION OF ISLANDS AND CENSUS
DESIGNATED PLACES: 1990**

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

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

Continued on next page.

**Table 1.11-- RESIDENT POPULATION OF ISLANDS AND CENSUS
DESIGNATED PLACES: 1990 -- Con.**

Island and place	Resident population	Island and place	Resident population
Oahu 2/	836,231	Oahu (con.):	
Ahuimanu	8,387	Waianae	8,758
Aiea	8,906	Waikane	717
Barbers Point Housing	2,218	Waimalu	29,967
Ewa Beach	14,315	Waimanalo	3,508
Ewa Gentry	1,992	Waimanalo Beach	4,185
Ewa Villages	3,780	Waipahu	31,435
Halawa	13,408	Waipio	11,812
Haleiwa	2,442	Waipio Acres	5,304
Hauula	3,479	Wheeler AFB	2,600
Heeia	5,010	Whitmore Village	3,373
Hickam Housing	6,553		
Honolulu 3/	377,059	Kauai	50,947
Iroquois Point	4,188	Anahola	1,181
Kaaawa	1,138	Eleele	1,489
Kahaluu	3,068	Hanalei	461
Kahuku	2,063	Hanamaulu	3,611
Kailua	36,818	Hanapepe	1,395
Kaneohe	35,448	Kalaheo	3,592
Kawela Bay	366	Kalihiwai	435
Laie	5,577	Kapaa	8,149
Maili	6,059	Kaumakani	803
Makaha	7,990	Kekaha	3,506
Makaha Valley	1,012	Kilauea	1,685
Makakilo City	9,828	Koloa	1,791
Maunawili	4,847	Lawai	1,787
Mililani Town	29,359	Lihue	5,536
Mokapu 4/	11,662	Omao	1,142
Mokuleia	1,776	Pakala Village	565
Nanakuli	9,575	Poipu	975
Pearl City	30,993	Princeville	1,244
Punaluu	672	Puhi	1,210
Pupukea	4,111	Wailua	2,018
Schofield Barracks	19,597	Wailua Homesteads	3,870
Village Park	7,407	Waimea	1,840
Wahiawa	17,386		
Waialua	3,943	Niihau, Lehua and Kaula	230

Footnotes and source on next page.

**Table 1.11-- RESIDENT POPULATION OF ISLANDS AND CENSUS
DESIGNATED PLACES: 1990 -- Con.**

1/ Spelling corrected from that in census report.

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

3/ Honolulu CDP is coterminous with Honolulu Census County Division and also Honolulu District. It extends from Red Hill to Makapuu Point, south and west of the crest of the Koolau Mts. Like all other CDPs on Oahu, it is part of a single municipality, the City and County of Honolulu. The population count has been corrected from the published figure.

4/ Official name, used in 1980 census. The 1990 census bulletin refers to Mokapu as Kaneohe Station.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 1.

**Table 1.12-- POST-ENUMERATION SURVEY (PES) ESTIMATES OF THE
TOTAL POPULATION OF THE UNITED STATES, HAWAII, AND
SELECTED COUNTIES: 1990**

Subject	United States	State of Hawaii	Counties over 100,000		
			Honolulu	Hawaii	Maui
Enumerated population	248,709,873	1,108,229	836,231	120,317	100,374
PES estimate	252,712,822	1,129,162	852,074	122,654	102,187
Percent net undercount	1.584	1.854	1.859	1.905	1.774
Standard error	0.191	0.808	0.837	0.750	0.741

Source: U.S. Bureau of the Census, *Assessment of Accuracy of Adjusted Versus Unadjusted 1990 Census Base for Use in Intercensal Estimates* (August 7, 1992), Att. 4 and 12.

Table 1.13-- POPULATION RANKING OF THE STATE, HONOLULU, AND COUNTIES: 1990 AND 1997

Comparison 1/	Resident population, 1997	Ranking		
		Population		Percent change, 1990-1997 2/
		1990	1997	
State of Hawaii:				
Among the 50 States and D.C.	1,186,602	41	41	21
Among the 50 States	1,186,602	41	41	21
Honolulu MSA: 3/				
Among all MSAs and CMSAs	4/ 871,766	54	4/ 55	5/ 183
City and County of Honolulu: 6/				
Among all counties	869,857	40	43	1,751
Honolulu CDP: 7/				
Among all incorp. places and CDPs	4/ 423,475	39	4/ 35	8/ 41
Hawaii County 9/	141,458	383	363	402
Kalawao County 9/	81	3,139	3,141	3,141
Kauai County 9/	56,423	823	819	920
Maui County 9/	118,783	457	431	373

NA Not available.

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

2/ Ranking of the area in regard to 1990-97 population percent change.

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

4/ 1996 estimate.

5/ 1990-1996 percent change ranking among the 273 U.S. MSAs.

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

7/ The Honolulu CDP consists of Honolulu District, comprising the area between Red Hill and Makapuu Point, south and southwest of the crest of the Koolau Mountains, and the Northwestern Hawaiian Islands (except Midway).

8/ 1990-1996 percent change ranking among the 219 U.S. cities with populations of 100,000 and greater.

9/ Among all 3,142 U.S. counties.

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

Table 1.14-- CHARACTERISTICS OF OAHU NEIGHBORHOODS: 1990

Neighborhood Area (see maps on pp. 642-643) 1/	Resident population	House- holds	Average household size	Percent college grads 2/	Median household income 3/
Oahu total	836,231	265,625	3.02	24.6	40,581
1 Hawaii Kai	27,432	8,835	3.08	41.7	65,901
2 Kuliouou-Kalani Iki	15,280	4,986	3.06	45.0	65,844
3 Waialae-Kahala	9,635	3,549	2.71	46.3	66,228
4 Kaimuki	18,425	6,216	2.90	26.8	45,397
5 Diamond Head/Kapahulu/ St. Louis Heights	20,860	8,040	2.56	27.3	39,357
6 Palolo	13,034	4,097	3.16	20.7	40,844
7 Manoa	20,834	6,420	2.79	44.5	51,866
8 McCully/Moiliili	28,466	13,428	2.08	27.8	31,974
9 Waikiki	19,757	11,445	1.71	29.4	26,980
10 Makiki/Tantalus	29,989	14,681	2.03	36.0	33,623
11 Ala Moana/Kakaako	10,943	6,218	1.72	26.0	25,162
12 Nuuanu/Punchbowl	16,221	5,776	2.78	30.1	44,199
13 Downtown	11,752	5,814	1.89	26.6	25,436
14 Liliha/Kapalama	21,235	6,683	3.00	21.7	43,164
15 Kalihi/Palama	40,147	10,967	3.46	9.1	25,647
16 Kalihi Valley	17,798	4,079	4.33	9.5	39,794
17 Moanalua	12,260	3,576	3.30	24.9	43,706
18 Aliamanu/Salt Lake	37,442	12,029	3.11	23.3	38,078
19 Airport	26,734	5,877	3.40	19.3	29,989
20 Aiea	32,648	10,680	2.93	24.4	45,585
21 Pearl City	46,758	13,540	3.44	22.3	55,053
22 Waipahu	51,295	13,921	3.68	15.9	46,501
23 Ewa	42,967	11,449	3.65	15.9	40,679
24 Waianae Coast	37,411	9,429	3.93	8.9	32,392
25 Mililani/Waipio	34,681	10,630	3.26	30.9	51,807
26 Wahiawa	44,541	11,020	3.45	12.6	29,767
27 North Shore	15,749	4,764	3.23	18.9	37,209
28 Koolauloa	14,340	3,614	3.67	22.2	35,283
29 Kahaluu	14,397	4,258	3.37	26.4	50,454
30 Kaneohe	40,595	12,237	3.25	26.4	51,497
31 Kailua	41,886	13,283	3.13	34.5	56,788
32 Waimanalo	9,057	2,088	4.30	10.1	42,763
33 Mokuapu/Kaneohe MCAS	11,662	1,996	3.85	13.3	26,927

1/ Data in this table pertain to neighborhood areas whose boundaries are very close but do not match exactly to the neighborhood board boundaries.

2/ Percent of persons 25 years and over with a bachelor's degree or higher.

3/ Median 1989 income of households, in dollars.

Source: City and County of Honolulu Planning Department, tabulations from the 1990 U.S. Census.

Table 1.15-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990

[See maps, pp. 6-7 and 644-645]

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

Continued on next page.

Table 1.15-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990 - Con.

District 1/ and census tract	Population	Households	District 1/ and census tract	Population	Households
54	1,609	402	75.05	5,189	1,715
55	2,144	622	75.06	1,367	400
56	6,185	1,877	77.01	4,206	1,170
57	1,867	624	77.02	4,689	1,456
57.99 2/	298	-	78.03	9,136	2,703
58	3,404	1,073	78.04	2,034	584
59	3,570	782	78.05	5,300	1,687
60	5,857	1,367	78.06	5,441	1,867
61	3,575	794	78.07	5,759	2,768
62.01	5,040	1,228	78.08	2,960	959
62.02	2,390	618	80.01	1,610	501
63.01	3,433	818	80.02	2,914	866
63.02	2,781	560	80.03	5,055	1,697
64.01	1,827	379	80.05	7,313	1,975
64.02	5,680	1,331	80.06	5,383	1,463
65	4,077	974	80.07	5,904	1,600
66	2,952	911	81	2,384	624
67.01	6,894	1,909	82	-	-
67.02	2,758	868	83.01	5,786	1,513
68.02	5,845	1,386	83.02	6,699	1,387
68.03	36	1	84	9,677	2,696
68.04	8,835	2,327	85	4,529	1,313
68.05	4,326	1,569	86.03	6,509	2,086
68.06	1,922	548	86.04	4,015	1,026
68.07	10,084	4,000	86.98	5,521	1,333
69	3,182	925	86.99 2/	23	-
70	4,796	1,441	87.01	7,598	1,715
71	2,618	781	87.02	4,161	969
72	1,003	62	87.98	4,471	1,324
114	-	-	88	6,172	1,415
			89.01	8,084	2,079
Ewa	230,189	64,948	89.04	5,183	1,750
73	6,689	1,858	89.05	7,561	2,086
73.99 2/	53	-	89.06	4,025	1,287
74	3,633	711	89.07	4,560	1,304
74.99 2/	4,331	-	89.08	6,688	1,910
75.02	1,236	21	89.09	3,779	1,145
75.03	4,952	1,481	89.10	10,444	3,174
75.04	3,080	814	89.11	11,893	4,055

Continued on next page.

Table 1.15-- RESIDENT POPULATION AND HOUSEHOLDS FOR THE CITY AND COUNTY OF HONOLULU, BY DISTRICTS AND CENSUS TRACTS: 1990 - Con.

District 1/ and census tract	Population	Households	District 1/ and census tract	Population	Households
89.12	2,193	461	102.02	6,926	1,350
Wahiawa	43,886	10,849	Koolaupoko	117,694	33,886
90	2,600	702	103.02	3,745	1,081
91	4,303	1,024	103.03	4,660	1,337
92	7,930	2,461	103.05	4,663	1,357
93	4,214	1,382	103.06	6,562	2,064
94	5,242	1,776	105.03	2,111	567
95.01	3,532	873	105.04	5,373	1,461
95.02	7,307	1,472	105.05	3,612	1,056
95.03	4,339	1	105.06	7,804	2,573
95.04	1,178	301	106.01	3,200	945
95.05	3,241	857	106.02	5,480	1,578
			107.01	3,551	1,193
Waianae	37,411	9,417	107.02	4,336	1,256
96.01	5,974	1,232	108	11,662	2,014
96.03	6,820	1,612	109.01	3,208	1,009
96.04	4,733	1,083	109.03	4,253	1,328
97.01	5,523	1,614	109.04	3,391	1,034
97.02	6,153	1,442	109.05	2,568	846
98	8,208	2,434	110	3,910	1,101
			111.03	3,884	1,123
Waialua	11,549	3,468	111.04	4,937	1,470
99.01	5,792	1,864	111.05	3,732	1,508
99.02	3,956	1,113	111.06	5,774	1,704
100	1,801	491	112.01	4,687	1,556
			112.02	1,536	596
Koolauloa	18,443	4,935	113.01	4,859	1,189
101	6,909	2,127	113.02	4,196	940
102.01	4,608	1,458			

1/ 1980 boundaries.

2/ Persons living aboard vessels.

Source: U.S. Bureau of the Census, Summary Tape File 1A, tabulated by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

**Table 1.16-- RESIDENT POPULATION AND HOUSEHOLDS FOR HAWAII,
KAUAI, KALAWAO AND MAUI COUNTIES, BY DISTRICTS AND CENSUS
TRACTS: 1990**

[See maps, pp. 6-7 and 646]

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

Continued on next page.

**Table 1.16-- RESIDENT POPULATION AND HOUSEHOLDS FOR HAWAII,
KAUAI, KALAWAO AND MAUI COUNTIES, BY DISTRICTS AND CENSUS
TRACTS: 1990 -- Con.**

County, district, and census tract	Population	Households	County, district, and census tract	Population	Households
Waimea	8,888	2,710	Wailuku	45,685	15,017
408	2,913	919	306	213	85
409	5,745	1,749	307	12,869	4,902
410	230	42	307.99 1/	9	-
			308	2,273	655
KALAWAO			309	8,372	2,509
			310	5,060	1,849
Total	130	62	311.01	4,516	1,297
			311.02	4,332	1,475
Kalawao	130	62	311.03	4,438	1,099
319	130	62	312	3,386	1,099
			313	217	47
MAUI			Lahaina	14,574	4,868
			314	9,189	2,683
Total	100,374	33,145	315	5,385	2,185
Hana	1,895	589	Lanai	2,426	847
301	1,895	589	316	2,426	847
Makawao	29,207	9,798	Molokai	6,587	2,026
302	5,695	1,916	317	4,419	1,407
303.01	5,525	1,960	318	2,168	619
303.02	2,496	1,029			
304.01	7,271	2,290			
304.02	6,127	1,929			
305	2,093	674			

1/ Persons living aboard vessels.

Source: U.S. Bureau of the Census, Summary Tape File 1A, tabulated by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

Table 1.17-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR WAIKIKI: 1960 TO 1990

[For definitions of resident and de facto population, see table 1.04, footnotes 1 and 3. For earlier years, 1920-1950, see *Data Book 1987*, table 14. Waikiki is bounded by the Ala Wai Canal, Kapahulu Avenue, and the Pacific Ocean]

Subject	1960	1970	1980	1990	Density 1/	
					1980	1990
Resident population	11,075	13,124	17,384	19,768	34.3	39.0
Temporarily absent 2/	36	176	174	327	0.3	0.6
De facto population	18,753	34,874	63,710	95,979	125.7	189.3
Visitors present 2/	7,714	21,926	46,500	76,538	91.7	151.0
Employed persons: 3/						
Living in Waikiki	6,327	7,866	9,593	11,065	18.9	21.8
Working in Waikiki	(NA)	(NA)	30,011	(NA)	59.2	(NA)

NA Not available.

1/ Per acre. Based on land area of 205 hectares (507 acres).

2/ Annual averages. Estimated.

3/ Includes armed forces.

Source: Visitors present and residents absent estimated by the Hawaii State Department of Business, Economic Development & Tourism from Hawaii Visitors Bureau survey data. Area, resident population, and employment from U.S. Bureau of the Census, census tract bulletins, 1960-1980, and 1990 Census tapes tabulated by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center, and *Data Book 1987*, table 380.

**Table 1.18-- POPULATION AND LAND AREA, URBAN AND RURAL,
BY COUNTIES: 1990**

Subject	State total	Honolulu	Hawaii	Kauai	Maui & Kalawao
Land area (square miles)	6,423.4	600.2	4,028.2	622.5	1,172.5
Urban 1/	644.4	197.8	322.6	28.2	95.8
Rural	5,779.0	402.3	3,705.7	594.3	1,076.7
Resident population	1,108,229	836,231	120,317	51,177	100,504
Urban 1/	986,171	806,429	73,135	28,264	78,343
Rural	122,058	29,802	47,182	22,913	22,161

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

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Population and Housing Unit Counts, Hawaii*, 1990 CPH-2-13 (March 1993), tables 5, 7, and 23.

Table 1.19-- CENTERS OF POPULATION, BY COUNTIES: 1990

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

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

Table 1.20-- POPULATION BY MILITARY STATUS: 1950 TO 1990

Year	Total resident population	Armed Forces	Civilians			Armed Forces and dependents
			All civilians	Military dependents	Other civilians	
1950	499,794	22,856	476,938	(NA)	(NA)	(NA)
1960	632,772	47,267	585,505	56,576	528,929	103,843
1970	768,559	49,953	718,606	61,261	657,345	111,214
1980	964,691	58,443	906,248	61,974	844,274	120,417
1990	1,108,229	54,001	1,054,228	63,215	991,013	117,216

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population Characteristics of Hawaii by Military Status, 1990* (Statistical Report 227, December 1993), table 1.

**Table 1.21-- POPULATION CHARACTERISTICS, BY
MILITARY STATUS: 1990**

Subject	All groups	Armed Forces	Military dependents	Other civilians
Population	1,108,229	54,001	63,215	991,013
Oahu	836,231	53,549	62,621	720,061
Other islands	271,998	452	594	270,952
Households	356,748	28,548	1,794	326,406
Families	266,439	25,338	1,794	239,307
Age (percent)	100.0	100.0	100.0	100.0
Under 18 years	25.3	(Z)	54.9	24.8
18 to 64 years	63.5	100.0	44.3	62.7
65 years and over	11.3	(Z)	0.7	12.5
Median age (years)	33	27	15	35
Male	32	27	8	34
Female	34	27	23	35
Female (percent)	49.1	12.1	65.3	50.1
Race 1/ (percent)	100.0	100.0	100.0	100.0
White	33.4	70.6	61.9	29.6
Black	2.4	16.5	13.3	0.9
American Indian, Eskimo, or Aleut	0.5	1.0	0.8	0.5
Asian or Pacific Islander	61.9	7.7	20.2	67.5
Other race	1.7	4.2	3.8	1.5
Hispanic origin	7.1	7.7	8.9	7.0
Foreign born (percent)	14.7	5.6	9.8	15.5
Persons per household	3.00	1.21	-	2.98
Persons per family	3.47	1.16	-	3.48
Persons in group quarters (percent)	3.3	36.3	0	1.7
Persons 15 years and over never married (percent)	29.2	35.4	16.5	29.2
Male	33.8	35.0	51.2	33.4
Female	24.4	38.7	9.7	25.1
Children ever born per 1,000 women:				
15 to 24 years	289	216	591	257
25 to 34 years	1,199	819	1,531	1,166
35 to 44 years	1,812	1,189	2,096	1,800
Residence in 1985 2/ (percent):				
Same house as 1990	50.9	6.1	10.1	55.7
Different State	16.3	77.6	64.3	10.2
Abroad	4.7	9.6	14.5	3.9

Continued on next page.

**Table 1.21-- POPULATION CHARACTERISTICS, BY
MILITARY STATUS: 1990 -- Con.**

Subject	All groups	Armed Forces	Military dependents	Other civilians
Persons 3 years and over enrolled in school	290,578	6,531	24,605	259,442
Persons 25 years and over:				
Percent high school graduate or higher	80.1	98.6	95.2	63.9
Percent bachelor's degree or higher	22.9	24.1	21.3	22.9
Persons 16 years and over in labor force (percent)	70.4	100.0	63.4	68.6
Female	63.3	100.0	61.7	62.8
Percent of civilian labor force unemployed	3.5	(X)	7.8	3.4
High-status workers 3/ (percent)	25.6	18.0	22.7	26.5
Median income in 1989 (dollars):				
Households	38,829	29,652	33,681	40,288
Families	43,176	34,283	37,763	51,165
Income in 1989 below poverty level 4/ (percent):				
Families	6.0	2.7	0.7	6.4
Persons	8.3	2.4	4.2	8.7

X Not applicable.

Z Less than 0.05 percent.

1/ Persons of mixed race classified by self-identification or by race of mother.

2/ For persons 5 years and over in 1990.

3/ Persons in executive, administrative, managerial, and professional specialty occupations as percent of all persons 16 years and over employed in civilian labor force.

4/ Data based on Mainland poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the extent of poverty in Hawaii.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population Characteristics of Hawaii by Military Status, 1990* (Statistical Report 227, December 1993), tables 2 and 3.

**Table 1.22-- POPULATION PROJECTIONS, RESIDENT AND DE FACTO,
BY COUNTIES: 1990 TO 2020**

[Thousands. As of July 1. Series DBEDT 2020]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
Resident population: 2/						
1990	1,112.9	838.2	274.7	121.5	51.6	101.6
1995	1,179.2	870.9	308.4	137.2	56.0	115.2
2000	1,238.5	904.0	334.5	149.6	60.9	124.0
2005	1,304.0	944.0	360.0	160.6	66.6	132.8
2010	1,366.8	980.0	386.8	173.9	72.0	140.9
2015	1,430.5	1,016.0	414.4	189.1	77.3	148.0
2020	1,494.1	1,050.6	443.6	205.4	82.8	155.4
De facto population: 3/						
1990	1,257.0	912.1	345.0	136.5	69.0	139.5
1995	1,287.1	915.4	371.9	149.7	69.3	152.8
2000	1,372.8	959.2	413.8	165.9	78.8	169.0
2005	1,463.0	1,007.0	456.2	181.9	89.5	184.8
2010	1,548.7	1,048.9	500.0	200.4	100.1	199.5
2015	1,633.3	1,090.3	543.2	220.9	109.6	212.7
2020	1,720.2	1,130.6	589.8	243.3	119.7	226.7

1/ Includes Kalawao.

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

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

Source: Hawaii State Department of Business, Economic Development, and Tourism, *Population and Economic Projections for the State of Hawaii to 2020 (Series DBEDT 2020)* (1997).

Table 1.23-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 2000, 2010 AND 2020

[As of July 1. Series DBEDT 2020 projections. For 1988 estimate, see *Data Book 1990*, table 21]

Age group	1995		2000		2010		2020	
	Both sexes	Female	Both sexes	Female	Both sexes	Female	Both sexes	Female
Total	1,179,198	583,389	1,238,501	614,410	1,366,770	679,928	1,494,144	743,277
Under 5 years	95,196	46,268	90,094	43,482	97,148	46,863	106,056	51,175
5 to 9 years	84,715	41,127	92,738	45,688	90,193	44,212	100,854	49,401
10 to 14 years	81,292	39,333	82,566	40,022	87,033	42,810	94,085	46,170
15 to 19 years	78,763	38,206	81,192	38,947	91,612	44,895	88,958	43,370
20 to 24 years	82,042	36,695	96,011	42,967	100,005	44,616	104,571	47,429
25 to 29 years	81,253	38,433	82,414	39,279	100,408	46,980	110,826	52,932
30 to 34 years	95,360	46,303	76,733	37,325	94,237	45,459	98,134	47,098
35 to 39 years	100,803	49,096	93,545	45,439	78,409	38,377	96,078	46,031
40 to 44 years	96,139	47,166	98,467	48,224	75,219	36,708	92,379	44,785
45 to 49 years	81,043	40,270	93,184	46,311	90,393	44,639	75,544	37,679
50 to 54 years	61,460	31,328	79,013	39,522	94,296	47,027	71,814	35,795
55 to 59 years	47,337	25,265	60,429	31,121	89,900	45,359	87,458	43,825
60 to 64 years	45,103	23,897	47,156	25,412	77,519	39,554	92,268	46,835
65 to 69 years	47,660	25,888	43,400	23,339	58,670	30,916	86,259	44,430
70 to 74 years	41,404	21,706	44,054	24,528	42,771	23,841	70,071	36,839
75 to 79 years	29,106	15,577	36,134	19,490	35,518	20,020	48,632	26,665
80 to 84 years	17,199	9,203	23,088	12,903	31,055	18,408	30,681	18,111
85 years and over	13,323	7,628	18,283	10,411	32,384	19,244	39,476	24,707
Median age	34.5	35.5	35.9	37.1	36.5	38.1	37.3	38.7

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2020 (Series DBEDT 2020) (1997)*.

Table 1.24-- RESIDENT POPULATION, BY AGE AND SEX: 1980 AND 1990

Age	April 1, 1980			April 1, 1990		
	Both sexes	Male	Female	Both sexes	Male	Female
All ages	964,691	494,683	470,008	1,108,229	563,891	544,338
Under 5 years	77,848	40,004	37,844	83,223	42,748	40,475
5 to 9 years	73,057	37,555	35,502	80,907	41,579	39,328
10 to 14 years	74,870	38,459	36,411	73,896	38,144	35,752
15 to 19 years	86,446	45,673	40,773	72,491	38,097	34,394
20 to 24 years	105,682	59,070	46,612	90,794	50,552	40,242
25 to 29 years	95,287	48,864	46,423	100,178	52,738	47,440
30 to 34 years	84,314	42,990	41,324	100,518	51,325	49,193
35 to 39 years	63,948	32,684	31,264	95,782	48,955	46,827
40 to 44 years	47,468	23,765	23,703	82,557	42,368	40,189
45 to 49 years	45,240	21,589	23,651	61,963	31,253	30,710
50 to 54 years	49,204	23,298	25,905	46,812	23,019	23,793
55 to 59 years	47,383	23,502	23,881	45,375	21,087	24,288
60 to 64 years	37,794	18,871	18,923	48,728	22,651	26,077
65 to 69 years	29,153	15,384	13,769	45,584	21,848	23,736
70 to 74 years	20,222	10,991	9,231	33,069	15,696	17,373
75 to 79 years	13,673	6,796	6,877	22,694	11,255	11,439
80 to 84 years	7,541	3,177	4,364	13,261	6,599	6,662
85 years and over	5,561	2,011	3,550	10,397	3,977	6,420
Under 18 years	275,583	141,516	134,067	280,126	144,278	135,848
18 to 64 years	612,958	314,808	298,150	703,098	360,238	342,860
65 years and over	76,150	38,359	37,791	125,005	59,375	65,630
Median age (years)	28.3	27.6	29.1	32.6	31.7	33.5

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 20, and *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 17.

**Table 1.25-- RESIDENT POPULATION, BY AGE AND SEX:
1990 AND 1997**

[Includes armed forces stationed or homeported in Hawaii. The 1997 estimates are provisional]

Age group	April 1, 1990 (MARS) 1/			July 1, 1997		
	Both sexes	Male	Female	Both sexes	Male	Female
Total	1,108,229	563,918	544,311	1,186,602	596,755	589,847
Under 5 years	85,448	43,915	41,533	88,472	45,479	42,993
5 to 9 years	80,680	41,486	39,194	87,499	45,001	42,498
10 to 14 years	73,570	37,988	35,582	78,822	40,712	38,110
15 to 19 years	73,050	38,378	34,672	81,698	42,146	39,552
20 to 24 years	91,693	51,139	40,554	83,174	45,132	38,042
25 to 29 years	100,435	52,862	47,573	72,695	38,254	34,441
30 to 34 years	100,540	51,316	49,224	87,820	44,919	42,901
35 to 39 years	95,123	48,547	46,576	99,429	50,980	48,449
40 to 44 years	82,238	42,159	40,079	99,215	50,520	48,695
45 to 49 years	61,011	30,764	30,247	85,944	43,198	42,746
50 to 54 years	46,635	22,866	23,769	69,748	34,247	35,501
55 to 59 years	45,217	20,983	24,234	51,248	23,914	27,334
60 to 64 years	48,862	22,725	26,137	44,137	20,797	23,340
65 to 69 years	45,265	21,717	23,548	46,457	20,959	25,498
70 to 74 years	32,789	15,573	17,216	43,207	20,078	23,129
75 to 79 years	22,591	11,238	11,353	32,393	15,115	17,278
80 to 84 years	13,020	6,453	6,567	19,218	8,476	10,742
85 and over	10,062	3,809	6,253	15,426	6,828	8,598
5 to 17	196,396	101,277	95,119	214,120	110,487	103,633
18 to 24	122,597	67,714	54,883	117,073	62,504	54,569
25 to 44	378,336	194,884	183,452	359,159	184,673	174,486
45 to 64	201,725	97,338	104,387	251,077	122,156	128,921
16 years and over	854,518	433,227	421,291	915,902	457,269	458,633
18 years and over	826,385	418,726	407,659	884,010	440,789	443,221
21 years and over	777,428	391,948	385,480	831,880	413,652	418,228
65 years and over	123,727	58,790	64,937	156,701	71,456	85,245
85 years and over	10,062	3,809	6,253	15,426	6,828	8,598
Median age	32.5	31.6	33.4	35.7	34.7	36.7

1/ Modified age, race, and sex (MARS). The decennial census age statistics have been modified by the Bureau of Census to adjust for incorrect age reporting and for a tendency for respondents to round up their age if close to having a birthday.

Source: Population Estimates and Population Distribution Branches, U.S. Bureau of the Census.

Table 1.26-- RESIDENT POPULATION, BY AGE AND SEX, BY COUNTIES: 1990

Subject	State total	City and County of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	1,108,229	836,231	120,317	130	51,177	100,374
Male	563,891	425,994	60,665	80	25,951	51,201
Female	544,338	410,237	59,652	50	25,226	49,173
Males per 100 females	103.6	103.8	101.7	160.0	102.9	104.1
Under 18 years	280,126	204,613	34,515	-	14,115	26,883
18 to 64 years	703,098	539,786	70,716	86	30,378	62,132
65 years and over	125,005	91,832	15,086	44	6,684	11,359
Percent:						
Under 18 years	25.3	24.5	28.7	0.0	27.6	26.8
18 to 64 years	63.4	64.5	58.8	66.2	59.4	61.9
65 years and over	11.3	11.0	12.5	33.8	13.1	11.3
Median age (years)	32.6	32.2	34.3	60.9	33.9	33.5
In group quarters	37,632	33,893	1,685	45	654	1,355
Percent	3.4	4.1	1.4	34.6	1.3	1.3

Source: U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), tables 17, 39, 54, and 57.

Table 1.27-- RESIDENT POPULATION, BY AGE AND SEX, BY COUNTIES: 1996

Subject	State total	City and County of Honolulu	Other counties		
			Hawaii	Kauai	Maui 1/
Total persons 2/	1,183,723	871,766	138,422	56,435	117,100
Male	597,342	439,731	69,622	28,472	59,517
Female	586,381	432,035	68,800	27,963	57,583
Males per 100 females	101.9	101.8	101.2	101.8	103.4
Under 18 years	306,523	218,306	40,266	15,822	32,129
18 to 64 years	724,677	544,027	78,626	32,207	69,817
65 years and over	152,523	109,433	19,530	8,406	15,154
Percent:					
Under 18 years	25.9	25.0	29.1	28.0	27.4
18 to 64 years	61.2	62.4	56.8	57.1	59.6
65 years and over	12.9	12.6	14.1	14.9	12.9

1/ Includes Kalawao.

2/ Estimates released in March 1997.

Source: U.S. Bureau of the Census, *Estimates of the Population of Counties by Age, Sex, Race and Hispanic Origin: 1990 to 1996* (December 18, 1997) at http://www.census.gov/population/www/estimates/co_casrh.html and *Estimates of the Population of Counties by Age Groups: July 1, 1996* (December 1997) at <http://www.census.gov/population/www/estimates/county/ca/cahi96.txt>.

Table 1.28-- RACE BY COUNTIES: 1990

Race or Hispanic origin	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All races	1,108,229	836,231	120,317	51,177	100,504
White	369,616	264,372	47,736	17,712	39,796
Black	27,195	25,875	615	211	494
American Indian, Eskimo, or Aleut	5,099	3,532	868	178	521
Asian or Pacific Islander	685,236	526,459	68,699	32,093	57,985
Chinese	68,804	63,265	2,518	810	2,211
Filipino	168,682	120,029	15,540	12,709	20,404
Japanese	247,486	195,149	25,044	10,242	17,051
Korean	24,454	22,646	921	204	683
Vietnamese	5,468	5,231	78	21	138
Hawaiian	138,742	91,967	23,120	7,736	15,919
Samoan	15,034	14,364	382	64	224
Other Asian or Pacific	16,566	13,808	1,096	307	1,355
Other race	21,083	15,993	2,399	983	1,708
Hispanic origin 1/	81,390	56,884	11,134	5,580	7,792

1/ Persons of Hispanic origin can be of any race. The 1990 total included 21,972 Whites, 1,279 Blacks, 1,098 American Indians, Eskimos, and Aleuts, 38,832 Asians and Pacific Islanders, and 18,209 persons of other races.

Source: U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), tables 4 and 5.

Table 1.29-- ETHNIC STOCK BY COUNTIES: 1996

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 9,205 persons]

Ethnic stock 1/	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,148,676	840,490	136,737	55,781	115,668
Unmixed (except Hawaiian)	673,178	507,978	71,115	32,174	61,912
Caucasian	254,421	178,172	34,051	11,465	30,733
Japanese	233,435	181,818	25,253	9,703	16,662
Chinese	35,682	33,921	1,214	-	547
Filipino	114,717	81,387	9,815	10,293	13,222
Korean	8,862	8,164	269	393	36
Black	16,314	15,364	358	-	592
Puerto Rican	909	604	104	201	-
Samoan/Tongan	8,838	8,548	51	119	120
Mixed (except Hawaiian) 2/	238,371	171,162	29,215	11,036	26,958
Hawaiian/part Hawaiian	237,128	161,351	36,408	12,572	26,798

1/ Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 and 1990, census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

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

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

Table 1.30-- RACE AND HISPANIC ORIGIN: 1980 AND 1990

[Persons of mixed race classified by self-identification or by race of mother]

Race or Hispanic origin	1980 1/	1990	Percent distribution		Percent change
			1980	1990	
All races	964,691	1,108,229	100.0	100.0	14.9
White	318,770	369,616	33.0	33.4	16.0
Black	17,364	27,195	1.8	2.5	56.6
American Indian, Eskimo, or Aleut	2,768	5,099	0.3	0.5	84.2
Asian or Pacific Islander	583,252	685,236	60.5	61.8	17.5
Chinese	56,285	68,804	5.8	6.2	22.2
Filipino	133,940	168,682	13.9	15.2	25.9
Japanese	239,748	247,486	24.9	22.3	3.2
Korean	17,962	24,454	1.9	2.2	36.1
Vietnamese	3,463	5,468	0.4	0.5	57.9
Hawaiian	115,500	138,742	12.0	12.5	20.1
Samoaan	14,073	15,034	1.5	1.4	6.8
Other Asian or Pacific 2/	2,281	16,566	0.2	1.5	} -16.0
Other race	42,537	21,083	4.4	1.9	
Hispanic origin 3/	71,263	81,390	7.4	7.3	14.2

1/ Based on 100-percent tabulations. The Asian or Pacific Islander category includes only groups listed separately in the race question. Write-in responses for groups such as Thai, Laotian, and Tongan were not included in 100-percent totals for the Asian or Pacific Islander population and were instead included with the "other race" group.

2/ 1980 figure limited to Asian Indians and Guamanians.

3/ Persons of Hispanic origin can be of any race. The 1990 total included 21,972 Whites, 1,279 Blacks, 1,098 American Indians, Eskimos, and Aleuts, 38,832 Asians and Pacific Islanders, and 18,209 persons of other race.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), tables 15 and 16; U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 3.

**Table 1.31-- HAWAIIANS LIVING IN HAWAII OR OTHER STATES:
1980 AND 1990**

[Persons of mixed race classified by self-identification or by race of mother]

Place of residence	1980	1990	Percent
Hawaiians in U.S.	166,814	211,014	26.5
Living in Hawaii	115,500	138,742	20.1
Living in other States	51,314	72,272	40.8
California	23,086	34,447	49.2
Rest of U.S.	28,228	37,825	34.0

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, U.S. Summary*, PC80-1-B1 (May 1983), table 62, and *1990 Census of Population, General Population Characteristics, U.S.*, 1990 CP-1-1 (Nov. 1992), table 253.

Table 1.32-- ANCESTRY: 1990

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

Ancestry group 1/	Persons	Ancestry group 1/	Persons
Total 2/	1,108,229	Korean	28,887
English	71,569	Okinawan	5,998
German	102,883	Vietnamese	5,277
Irish	65,587	Hawaiian 3/	156,812
Portuguese	57,125	Samoan	14,971
Puerto Rican	16,432	Tongan	3,283
Chinese	96,293	Afro-American	23,864
Filipino	176,370	American Indian	14,835
Japanese	262,113	White	13,442
		Not reported	55,494

1/ Shown separately for all groups over 50,000, plus several smaller groups of special interest in Hawaii.

2/ Out of 1,335,722 responses, 1,052,735 reported a first ancestry and 282,987 reported a second ancestry as well.

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

Source: U.S. Bureau of the Census, *1990 Census of Population, Supplementary Reports, Detailed Ancestry Groups for States*, 1990 CP-S-1-2 (October 1992), tables 1 and 3.

Table 1.33-- HISPANIC ORIGIN BY RACE: 1990

[Data based on a five-percent sample and thus somewhat different from corresponding figures, elsewhere in this section, based on full counts or larger sample sizes]

Race	Total	Hispanic origin	Not of Hispanic origin
All races	1,104,668	74,918	1,029,750
White	368,911	21,525	347,386
Black	27,116	1,278	25,838
American Indian	4,731	935	3,796
Eskimo	323	-	323
Aleut	174	-	174
Chinese	67,152	1,552	65,600
Filipino	165,730	16,954	148,776
Japanese	252,722	2,039	250,683
Korean	24,576	270	24,306
Vietnamese	5,582	-	5,582
Other Asian	8,954	304	8,650
Hawaiian	136,135	12,327	123,808
Other Polynesian	17,512	463	17,049
Micronesian	5,211	1,083	4,128
Melanesian	326	-	326
Other Pacific Islander	298	45	253
All other	19,215	16,143	3,072

Source: U.S. Bureau of the Census, *1990 Public Use Microdata Sample, Hawaii*.

Table 1.34-- PLACE OF BIRTH AND CITIZENSHIP: 1980 AND 1990

Place of birth and citizenship	1980	1990
Total population	964,691	1,108,229
Born in United States	806,742	914,024
Hawaii	557,990	621,992
Other state	248,752	292,032
Northeast	46,698	53,125
Midwest	60,236	68,961
South	58,189	67,570
West	83,629	102,376
Born outside United States	157,949	194,205
Puerto Rico	1,182	1,502
U.S. outlying area	7,323	7,492
Born abroad of American parent(s)	12,428	22,507
Foreign born	137,016	162,704
Naturalized citizen	62,287	89,983
Not a citizen	74,729	72,721
18 years and over	689,108	828,004
Native	(NA)	678,227
Foreign born	(NA)	149,777
Naturalized citizen	(NA)	85,518
Not a citizen	(NA)	64,259
Born in Hawaii, living in U.S.	817,353	945,148
Born and living in Hawaii	557,990	621,992
Living on Mainland	259,363	323,156

NA Not available.

Source: U.S. Bureau of the Census, *1990 Selected Place of Birth and Migration Statistics for States*, CPH-L-121, tables 2 and 3; *1990 Age, Nativity, and Citizenship for the United States, States and Counties*, CPH-L-114, table 1; and data from STF-3A, extracted by the Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

Table 1.35-- LANGUAGE SPOKEN AT HOME BY PERSONS FIVE YEARS OLD AND OVER, BY ABILITY TO SPEAK ENGLISH: 1990

Language spoken at home 1/	Total	English ability			
		Very well	Well	Not well	Not at all
Persons 5 years and over	1,026,209	...	...	...	...
Only English at home	771,485	...	...	...	...
Other than English at home	254,724	130,306	76,827	42,225	5,366
French 2/	3,825	3,048	507	270	-
German	4,066	3,213	535	307	11
Portuguese	1,110	815	206	89	-
Spanish	13,723	10,321	2,409	932	61
Bisayan	1,710	753	603	340	14
Chinese 3/	25,489	10,417	8,088	5,476	1,508
Hawaiian 4/	8,872	6,711	1,566	584	11
Ilocano	26,283	10,493	9,849	5,433	508
Japanese	69,587	34,772	21,457	12,165	1,193
Korean	14,636	5,450	4,664	3,759	763
Samoan	9,420	5,712	2,514	1,012	182
Tagalog	55,341	27,289	18,699	8,701	652
Thai (Laotian)	2,811	1,121	1,099	483	108
Tongan	2,213	1,050	584	504	75
Vietnamese	4,620	1,525	1,597	1,302	196
All other languages	11,018	7,616	2,450	868	84

1/ Shown separately for languages with 1,000 or more speakers.

2/ Excludes 29 French Creole.

3/ Excludes 505 Mandarin.

4/ Excludes 48 Hawaiian Pidgin and 968 Pidgin.

Source: U.S. Bureau of the Census, *Language Spoken at Home and Ability to Speak English for United States, Regions and States: 1990*, 1990 CPH-L-133.

Table 1.36-- HOUSEHOLD TYPE AND RELATIONSHIP: 1990

Household type and relationship	State total	Oahu	Other islands
Total persons	1,108,229	836,231	271,998
In households	1,070,597	802,338	268,259
Householder	356,267	265,304	90,963
Family householder	263,456	197,294	66,162
Nonfamily householder: Male	49,705	35,873	13,832
Female	43,106	32,137	10,969
Spouse	210,468	158,438	52,030
Child	345,365	259,193	86,172
Other relative	96,494	74,876	21,618
Nonrelatives	62,003	44,527	17,476
In group quarters	37,632	33,893	3,739
Inmate of institution	7,805	6,365	1,440
Other	29,827	27,528	2,299
Householder 65 years and over living alone	20,933	14,868	6,065
Persons per household	3.01	3.02	2.95
Persons per family	3.48	3.50	3.42
Persons under 18 years	280,126	204,313	75,813
Householder or spouse	205	134	71
Own child	236,257	172,112	64,145
In married-couple family	194,497	144,180	50,317
With female householder, no husband present	32,140	21,729	10,411
With male householder, no wife present	9,620	6,203	3,417
Other relatives	36,462	27,515	8,947
Nonrelatives	5,670	3,896	1,774
Inmate of institution	320	300	20
Other, in group quarters	1,212	356	856
Persons 65 years and over	125,005	91,832	33,173
Family householder	49,612	36,068	13,544
Spouse	27,848	19,980	7,868
Other relatives	17,549	13,891	3,658
Nonrelatives	1,990	1,597	393
Nonfamily householder: Male	7,296	5,016	2,280
Female	15,219	11,019	4,200
Inmate of institution	3,861	2,964	897
Other, in group quarters	441	391	50

Source U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), tables 41 and 42.

**Table 1.37-- HOUSEHOLDS, FAMILIES, AND GROUP QUARTERS:
1950 TO 1990**

Year	Households	Families	Persons in --			Average size	
			Households	Families	Group quarters	Households	Families
1950	111,858	96,460	463,230	(NA)	36,564	4.14	(NA)
1960	153,064	129,481	592,807	555,894	39,965	3.87	4.29
1970	203,088	170,358	730,095	678,343	38,466	3.59	3.98
1980	294,052	226,035	925,092	814,983	39,599	3.15	3.61
1990	1/ 356,268	263,456	1/ 1,070,607	915,783	37,632	3.01	3.48

NA Not available.

1/ Revised.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1950, General Characteristics, Hawaii*, P-B52 (1952), table 15; *U.S. Census of Population: 1960, General Population Characteristics, Hawaii*, PC (1)-13B, table 19; *1970 Census of Population, General Population Characteristics*, PC (1)-B13 (May 1971), table 22; *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21; *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 39; *Estimates of Housing Units, Households, Households by Age of Householder, and Persons per Household of States: Annual Time Series, July 1, 1991 to July 1, 1996 (includes revised census housing and population counts)*, ST-96-24R (August 21, 1997), at <http://www.census.gov/population/estimates/housing/hsehld96.txt>.

**Table 1.38-- HOUSING UNITS, HOUSEHOLDS, AND PERSONS PER
HOUSEHOLD: ANNUALLY, 1990 TO 1996**

Date 1/	Housing units	Households	Persons per household
1990 (April 1)	2/ 389,811	2/ 356,268	3.01
1991	399,647	365,496	2.99
1992	407,227	373,546	2.97
1993	412,662	376,406	2.99
1994	419,452	379,622	3.00
1995	426,360	384,259	2.98
1996	433,057	388,509	2.96

1/ As of July 1 unless otherwise specified.

2/ Revised.

Source follows next table.

**Table 1.39-- HOUSING UNITS, HOUSEHOLDS, AND PERSONS PER
HOUSEHOLD: 1990 AND 1996**

Subject	April 1, 1990 1/	July 1, 1996	Percent change
Total housing units	389,811	433,057	11.1
Households by age of householder, total	356,268	388,509	9.0
15 to 24 years	16,826	16,186	-3.8
25 to 34 years	73,004	61,079	-16.3
35 to 44 years	87,474	95,919	9.7
45 to 54 years	57,546	79,472	38.1
55 to 64 years	49,936	48,802	-2.3
65 years and over	71,482	87,051	21.8
Persons in households	1,070,607	1,148,718	7.3
Persons per household 2/	3.01	2.96	-1.7

1/ All figures were revised except for persons per household.

2/ The U.S. average in 1996 was 2.62. Hawaii ranked second among the 50 States.

Source: U.S. Bureau of the Census, *Estimates of Housing Units, Households, Households by Age of Householder, and Persons per Household of States: Annual Time Series, July 1, 1991 to July 1, 1996 (includes revised census housing and population counts)*, ST-96-24R (August 21, 1997), at <http://www.census.gov/population/estimates/housing/hsehld96.txt>.

**Table 1.40-- HOUSEHOLDS, POPULATION IN HOUSEHOLDS, AND
POPULATION PER HOUSEHOLD, BY ISLANDS: 1980 AND 1990**

County and island	Households		Population in households		Population per household	
	1980	1990 1/	1980	1990 1/	1980	1990
State total	294,052	356,267	925,092	1,070,597	3.15	3.01
Hawaii	29,237	41,461	90,436	118,632	3.09	2.86
Maui	20,162	30,272	62,134	90,031	3.08	2.97
Lanai	650	847	1,986	2,426	3.06	2.86
Molokai	1,769	2,088	5,992	6,647	3.39	3.18
Oahu	230,214	265,304	725,865	802,338	3.15	3.02
Kauai	11,979	16,253	38,453	50,293	3.21	3.09
Niihau	41	42	226	230	5.51	5.48

1/ Revisions to the 1990 state totals are reflected in the preceding table. Data revisions are not available by islands.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21 and 47, and *1980 Census of Population and Housing, Census Tracts, Hawaii, Selected Areas*, PHC80-2-13 (June 1983), table P-1; U.S. Bureau of the Census, printouts.

Table 1.41-- POPULATION IN GROUP QUARTERS, BY TYPE OF GROUP QUARTERS, METROPOLITAN AND NONMETROPOLITAN: 1990

Type of group quarters	State total	Oahu	Other islands
In group quarters	37,632	33,893	3,739
Institutionalized persons	7,805	6,365	1,440
Correctional institutions	2,322	1,961	361
Nursing homes	3,225	2,450	775
Other institutions	2,258	1,954	304
Other persons in group quarters	29,827	27,528	2,299
College dormitories	4,958	4,239	719
Military quarters	19,307	19,230	77
Emergency shelters for homeless persons	854	665	189
Visible in street locations	1,071	769	302
Shelters for abused women	73	18	55
Drug/alcohol abuse group homes	349	305	44
Other noninstitutional group quarters 1/	3,215	2,302	913

1/ Includes crews of maritime vessels (233 Statewide). Persons aboard Naval vessels are included in military quarters population.

Source: U.S. Bureau of the Census, *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), tables 38 and 41.

Table 1.42-- MARITAL STATUS, BY SEX: 1980 AND 1990

Marital status	1980		1990	
	Male	Female	Male	Female
Total, 15 years and over	378,665	360,251	441,420	428,783
Single	137,448	94,160	152,188	106,715
Now married, except separated	208,968	204,446	241,961	237,260
Separated	4,354	5,639	6,425	7,539
Widowed	7,198	29,220	9,053	38,530
Divorced	20,697	26,786	31,793	38,739

Source: U.S. Bureau of the Census, *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21, and *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 39.

**Table 1.43--SINGLE, WIDOWED, OR DIVORCED PERSONS, BY SEX:
1960 TO 1990**

[Persons 14 years old and over for 1960 and 1970, and 15 years old and over for later dates]

Year	Single, widowed, or divorced			Never married		
	Male	Female	Sex ratio	Male	Female	Sex ratio
1960	98,384	65,156	151.0	84,965	44,376	191.5
1970	119,256	98,016	121.7	104,625	68,009	153.8
1980	165,343	150,166	110.1	137,448	94,160	146.0
1990	193,034	183,984	104.9	152,188	106,715	142.6

Source: 1980 from *1980 Census of Population, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 21; 1990 from *1990 Census of Population, General Population Characteristics, Hawaii*, 1990 CP-1-13 (June 1992), table 39; other years from *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 31-32.

Table 1.44-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1980 TO 1990 AND 1990 TO 1996

Period and component	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
1980 TO 1990 1/						
Net change	143,538	-1,723	-4,088	149,349	14,935	100.0
Natural increase	112,148	-604	34,007	78,745	7,875	52.7
Live births	168,523	-	34,847	133,676	13,368	...
Deaths	56,375	604	840	54,931	5,493	...
Net mil. separations 2/	-	734	-	-734	-73	-0.5
Net migration 3/	31,390	-1,853	-38,095	71,338	7,134	47.8
1990 TO 1996 4/						
Net change	74,719	-7,236	-4,598	86,553	13,848	100.0
Natural increase	76,261	-764	21,831	55,194	8,831	63.8
Live births	121,169	-	22,333	98,836	15,814	...
Deaths	44,908	764	502	43,642	6,983	...
Net mil. separations 2/	} -1,542	-6,472	-26,429	31,359	5,017	36.2
Net migration 3/						

NA Not available.

1/ April 1, 1980 to March 31, 1990.

2/ Separations less inductions for armed forces.

3/ Includes error of closure.

4/ April 1, 1990 to June 30, 1996.

Source: Estimated by the Hawaii State Department of Business, Economic Development, & Tourism from census counts, DBEDT surveys of military population, special tabulations by the Hawaii State Department of Health, and data from the Federal-State Cooperative Program for Population Estimates.

Table 1.45-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY COUNTIES: 1990 TO 1997

[For 1980-1990 estimates, see *Data Book 1993-94*, p. 51]

Component	State total	Honolulu	Hawaii	Kauai	Maui 1/
Resident population:					
April 1, 1990 (census)	1,108,229	836,231	120,317	51,177	100,504
July 1, 1997 (estimate)	1,186,602	869,857	141,458	56,423	118,864
Net change	78,373	33,626	21,141	5,246	18,360
Resident births	139,504	104,362	15,274	6,570	13,298
Resident deaths	52,113	37,548	6,934	2,777	4,854
Foreign migrants (net) 2/	39,108	30,622	2,473	1,510	4,503
Federal citizen movement 3/	18,783	18,626	49	87	21
Domestic migrants (net) 4/	-65,298	-81,295	10,477	-44	5,564
Residual change 5/	-1,611	-1,141	-198	-100	-172

1/ Including Kalawao County.

2/ Net migration of legal immigrants to the United States, undocumented immigrants to the United States, and emigrants from the United States.

3/ Net movement of Armed Forces, Federally affiliated civilian citizens, and their dependents between the United States and overseas.

4/ Net of migration to a state from other states and from a state to other states. This includes the Armed Forces and their dependents.

5/ The bulk of the residual change component is internal (domestic) net migration, though we have no reliable way to quantify it. The residual change figure is also affected by any inaccuracies in input data or variations in implementing the estimating.

Source: U.S. Bureau of the Census, *Estimates of the Population of Counties and Demographic Components of Population Change: Annual Time Series, July 1, 1990 to July 1, 1997 (includes revised April 1, 1990 census population counts)*, PE-62 (CO-97-6).

**Table 1.46--CHARACTERISTICS OF INTENDED RESIDENTS ARRIVING
IN HAWAII: 1992 TO 1994**

Characteristics	Westbound			Eastbound		
	1992	1993	1994	1992	1993	1994
Total	41,790	39,810	36,020	4,280	2,240	5,050
Previous residence:						
United States	40,370	38,080	34,020	-	-	(NA)
Foreign	1,420	1,730	2,000	4,280	2,240	(NA)
Age:						
Median (years)	29.8	(NA)	(NA)	26.8	(NA)	(NA)
60 and over	1,190	(NA)	(NA)	50	(NA)	(NA)
Males per 100 females	161	(NA)	(NA)	165	(NA)	(NA)
Occupation of party head	Westbound parties			Westbound persons		
	1992	1993	1994	1992	1993	1994
Total	25,480	25,040	21,960	41,790	39,810	36,020
Management	1,560	2,960	2,540	2,530	4,700	4,170
Professional	2,420	2,450	2,140	3,960	3,890	3,510
Military service	11,200	10,990	9,710	18,380	17,470	15,930
Military dependent	1,760	1,430	1,320	2,880	2,270	2,160
Student	1,630	1,730	1,710	2,660	2,750	2,810
Retired	590	520	500	950	830	820
All others	6,320	4,970	4,040	10,430	7,900	6,620

NA Not available.

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

Table 1.47-- INTENDED RESIDENTS ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL AND MILITARY STATUS: 1991 TO 1996

Year	All intended residents	Westbound by military status			Eastbound	
		Total	Military service	Military dependent		All other
1991	24,690	17,430	2,480	5,590	9,360	7,260
1992	46,070	41,790	11,210	10,050	20,530	4,280
1993	42,050	39,810	10,990	8,750	20,070	2,240
1994	41,070	36,020	9,710	8,390	17,920	5,050
1995	41,314	36,104	(NA)	(NA)	(NA)	5,210
1996	36,210	32,310	(NA)	(NA)	(NA)	3,900

NA Not available.

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

Table 1.49-- PERSONS NATURALIZED, BY COUNTRY OF FORMER ALLEGIANCE: 1991 TO 1996

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	Vietnam	Other countries
1991	3,955	386	285	2,345	127	230	582
1992	4,475	341	321	3,131	73	175	434
1993	4,960	477	302	3,035	37	252	857
1994	4,659	434	403	2,571	182	245	824
1995	5,182	433	459	2,865	190	304	931
1996	6,090	1/ 556	579	2,940	251	517	2/ 1,247

1/ People's Republic of China, 456; Taiwan, 100.

2/ Japan, 161; Canada, 76; Western Samoa, 91; American Samoa, 81; others, 838.

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

**Table 1.50-- RESIDENCE IN 1985 OF PERSONS 5 YEARS AND OVER,
FOR THE STATE AND OAHU: 1990**

Residence in 1985	State total	Oahu only
Persons 5 years and over	1,026,209	775,063
Lived in same house	522,612	390,155
Lived in different house in U.S.	455,180	343,548
Same State	288,227	209,319
Same county	264,910	201,127
Different county	23,317	8,192
Different State	166,953	134,229
Lived abroad	48,417	41,360
Hawaii in 1985, Mainland in 1990	187,209	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), tables 23 and 37, and *1990 Selected Place of Birth and Migration Statistics for States*, CPH-L-121 (undated), table 4.

Section 2

VITAL STATISTICS AND HEALTH

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

The major source for data on vital statistics and health is the annual statistical report of the Hawaii State Department of Health. Long-term trends are traced in *Historical Statistics of Hawaii*, Section 2. Sections 2 and 3 of the *Statistical Abstract of the United States: 1997* contain data for the nation as a whole.

Table 2.01-- BIRTHS AND DEATHS: 1980 TO 1996

Calendar year	Resident births 1/	Resident deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births 3/		
			Births	Deaths	To unmarried mothers	Fetal deaths 4/	Infant deaths 5/
1980	18,129	4,903	18.7	5.1	175.6	15.3	10.8
1981	18,174	4,927	18.6	5.0	181.8	13.1	10.5
1982	18,675	5,123	18.8	5.2	186.3	12.7	8.9
1983	19,090	5,409	18.8	5.3	197.8	11.4	10.0
1984	18,667	5,571	18.2	5.4	191.8	9.5	10.9
1985	18,267	5,751	17.6	5.5	201.3	9.7	9.1
1986	18,253	5,788	17.4	5.5	203.9	11.0	9.2
1987	18,555	6,149	17.4	5.8	213.7	9.2	8.8
1988	18,937	5,970	17.5	5.5	223.3	10.8	7.4
1989	19,335	6,381	17.7	5.8	239.0	9.9	8.4
1990	20,438	6,687	18.4	6.0	249.3	10.4	7.1
1991	19,880	6,696	17.6	5.9	262.5	10.5	7.0
1992	19,837	6,846	17.3	6.0	264.5	11.1	6.5
1993	19,567	7,226	16.9	6.2	273.0	11.7	7.6
1994	19,438	7,206	16.6	6.1	283.8	12.0	6.8
1995	18,552	7,482	15.7	6.3	291.8	12.1	5.9
1996	18,378	7,803	15.5	6.6	302.3	9.6	5.8

1/ Events occurring in Hawaii. Data include births to military couples and deaths of armed forces and their dependents, but exclude nonresident births and deaths, as well as resident births and deaths occurring out of State.

2/ Based on July 1 estimates by the U.S. Bureau of the Census, as revised through Dec. 31, 1997.

3/ Place of occurrence basis.

4/ 20 weeks gestation and over. Includes elective abortions.

5/ Under 1 year of age.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and Office of Health Status Monitoring, records; Rates per 1,000 resident population calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.02-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1993 TO 1996

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1993	19,650	-	19,650	3,564	16,086	3,564
1994	19,515	-	19,515	3,604	15,911	3,604
1995	18,636	-	18,636	3,172	15,464	3,172
1996	18,451	-	18,451	3,132	15,319	3,132
Deaths:						
1993	7,570	162	7,408	87	7,321	249
1994	7,529	154	7,375	76	7,299	230
1995	7,795	173	7,622	65	7,557	238
1996	8,148	185	7,963	77	7,886	262
Birth rates: 2/						
1993	15.6	0	16.3	57.3	14.1	31.0
1994	15.2	0	15.9	66.3	13.5	33.6
1995	14.5	0	15.1	68.2	13.0	32.6
1996	14.3	0	14.8	56.6	12.9	30.3
Death rates: 2/						
1993	6.0	3.1	6.1	1.4	6.4	2.2
1994	5.9	2.9	6.0	1.4	6.2	2.1
1995	6.1	3.4	6.2	1.4	6.4	2.4
1996	6.3	3.9	6.4	1.4	6.6	2.5

1/ Death rates for military dependents based on 1990 age and sex composition of military dependents and 1990 age-sex-specific death rates for all civilians. Deaths of civilians other than military dependents calculated as residual.

2/ Per 1,000 de facto population in each group.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; birth and death rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1991 TO 1996

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate 1/			
1991 2/	27,289	24.1	19,880	1,717	5,692
1992	27,297	23.7	19,837	1,518	5,942
1993 3/	26,765	23.0	19,567	1,392	5,806
1994	26,457	22.4	19,438	1,265	5,754
1995	25,139	21.2	18,552	1,086	5,501
1996	24,234	20.5	18,378	985	4,871

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

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

3/ Excludes one birth, four standard fetal deaths, and six elective abortions with unknown residence.

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

Table 2.04-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1993 TO 1996

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of state 1/
Births:						
1993	19,650	19,567	82	1	19,595	28
1994	19,515	19,438	75	2	19,474	36
1995	18,636	18,552	81	3	18,578	26
1996	18,451	18,378	69	4	18,396	18
Deaths:						
1993	7,570	7,226	341	3	7,426	200
1994	7,530	7,206	309	15	7,441	235
1995	7,795	7,482	309	4	7,718	236
1996	8,148	7,803	338	7	8,124	321

1/ Death figures include persons (1) born in Hawaii and (2) born elsewhere claimed as Hawaii residents.
 Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1994 TO 1996

[Excludes births to Hawaii residents occurring out of state]

Subject	1994	1995	1996
Number of resident births	19,438	18,552	18,378
City and County of Honolulu	14,733	13,791	13,728
Percent on Oahu	75.8	74.3	74.7
Hawaii County	2,068	2,028	1,979
Kauai County	896	842	807
Maui County (incl. Kalawao)	1,741	1,891	1,864
Percent attended by M.D. or O.D. in hospital	95.3	94.8	94.6
Males per 100 females	104.3	104.0	105.6
Median weight of single births (grams)	3,317	3,315	3,305
Percent low birth weight (under 2,500 grams)	6.5	6.6	6.7
Percent single births under 40 weeks gestation	51.0	54.0	51.7
Percent plural	1.9	1.9	1.9
Percent with 1 or more congenital malformations	3.5	4.0	3.7
Percent to unmarried mothers	28.4	29.3	30.3
Percent with prenatal visit in first three months	81.8	81.2	81.7
Percent first child born to mother 1/	30.5	29.4	27.3
Percent first child born alive to mother	43.8	42.9	42.7
Median age of mothers (years)	27	27	27
Median age of known fathers (years)	30	30	30

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

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

Table 2.06-- CHILDREN EVER BORN PER 1,000 WOMEN 15 TO 44 YEARS OLD, BY GEOGRAPHIC AREA: 1990

Age of women	State total	Oahu	Other islands
Women 15 to 24 years	289	281	316
Women 25 to 34 years	1,199	1,132	1,423
Women 35 to 44 years	1,812	1,778	1,911

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 35.

Table 2.07-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF PARENTS: 1996

Military status of parents	Total births	Unmixed	Mixed 1/	Not reported 2/	Percent mixed 3/
Total	18,378	7,613	9,528	1,237	51.8
Military	3,107	2,242	770	95	24.8
Civilian	13,462	5,368	8,060	34	59.9
Status not reported	1,809	3	698	1,108	38.6

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

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

3/ Based on number reporting.

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

**Table 2.08-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES,
BY SEX: 1996**

[A total of 7,398 first names, including variant spellings, was reported for the 18,451 babies born in Hawaii in 1996]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Joshua	152	Taylor	110
2	Michael	117	Kayla	89
3	Brandon	114	Ashley	81
4	Nicholas	104	Jessica	75
5	Tyler	98	Rachel	61
6	Christopher	97	Samantha	58
7	Justin	95	Sarah	57
8	Matthew	94	Kiana	54
9	Austin (tie)	92	Nicole	53
10	Jordan (tie)	92	Emily (tie)	52
			Megan (tie)	52

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

**Table 2.09-- MOST COMMON SURNAMES ON BIRTH AND DEATH
CERTIFICATES: 1996**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	97	Lee	51
2	Smith	56	Wong	46
3	Wong	53	Young	40
4	Johnson (tie)	52	Nakamura	37
5	Kim (tie)	52	Kim	33
6	Ramos	48	Chang	31
7	Williams	47	Ching	29
8	Garcia (tie)	42	Smith (tie)	25
9	Nguyen (tie)	42	Tanaka (tie)	25
10	Silva (tie)	42	Chun	24

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

**Table 2.10-- EXPECTATION OF LIFE AT BIRTH FOR BOTH SEXES
COMBINED, BY RACE: 1910 TO 1990**

[In years]

Year	All races	Caucasian	Chinese	Filipino	Hawaiian and Part- Hawaiian	Japanese	Other
1910	43.96	54.83	54.17	(NA)	32.58	49.34	15.62
1920	45.69	56.45	53.80	28.12	33.56	50.54	28.38
1930	53.95	61.90	60.07	46.14	41.87	60.07	32.58
1940	62.00	64.03	65.32	56.85	51.78	66.28	59.48
1950	69.53	69.21	69.74	69.05	62.45	72.58	68.29
1960	72.42	72.80	74.12	71.53	64.60	75.68	62.19
1970	74.20	73.24	76.11	72.61	67.62	77.44	76.74
1980	77.78	75.79	81.65	79.32	71.83	80.91	78.98
1990	78.85	75.53	82.93	78.94	74.27	82.06	80.37

NA Not available.

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1980," by Robert W. Gardner, *R & S Report*, No. 47, (March 1984), p. 7, and "Life Expectancy in the State of Hawai'i 1980 and 1990," *R & S Report*, No. 63 (August 1996), pp. 18-33.

Table 2.11-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1910 TO 1995

[Average expectation of life (e_0) in years]

Year	United States			Hawaii		
	Both sexes	Male	Female	Both sexes	Male	Female
1910	50.0	48.4	51.8	43.96	44.04	43.83
1920	54.1	53.6	54.6	45.69	45.64	45.75
1930	59.7	58.1	61.6	53.95	52.70	55.86
1940	62.9	60.8	65.2	62.00	59.92	64.86
1950	68.2	65.6	71.1	69.53	67.77	71.67
1960	69.7	66.6	73.1	72.42	70.39	74.75
1970	70.8	67.1	74.7	74.20	72.12	76.44
1980	73.7	70.0	77.4	77.78	74.54	81.51
1990	75.4	71.8	78.8	78.85	75.90	82.06
1995	75.8	72.6	78.9	(NA)	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *Historical Statistics of the United States, Colonial Times to 1970*, Part 1 (1975), p. 55; U.S. Department of Health and Human Services, National Center for Health Statistics, "Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1994," *Monthly Vital Statistics Report*, Vol. 43, No. 13, October 23, 1995, p. 17; Hawaii State Department of Health, Office of Health Status Monitoring, "Life Tables by Ethnic Group for Hawaii, 1920-1970," *R & S Report*, No. 26 (June 1979), pp. 8-26; and "Life Expectancy in the State of Hawaii, 1980 and 1990," *R & S Report*, No. 63 (August 1996), p. 9; *Statistical Abstract of the United States: 1997*, p. 88.

Table 2.12-- CHARACTERISTICS OF RESIDENT DEATHS: 1994 TO 1996

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1994	1995	1996
Number of resident deaths	7,206	7,488	7,803
City and County of Honolulu	5,158	5,438	5,557
Hawaii County	1,021	973	1,064
Kauai County	400	374	403
Maui County (incl. Kalawao)	627	703	779
Males per 100 females	141.5	137.4	132.7
Median age (years)	74	74	75
Centenarian deaths: Male	5	13	11
Female	30	47	52
Oldest (years): Male	104	108	106
Female	111	106	110
Percent married	45.6	44.7	46.4
Deaths under 1 year	125	106	98
Per 1,000 live births	6.4	5.7	5.3
Fetal deaths 1/	7,019	6,587	5,856
Per 1,000 deliveries	265	262	242
Fetal deaths, 20 or more weeks gestation 2/	234	226	178
Per 1,000 live births	12.0	12.1	9.6
Standard fetal deaths 3/	1,265	1,086	985
Elective abortions	5,754	5,501	4,871
Per 1,000 live births	296.0	296.5	265.0

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, Office of Health Status Monitoring, records.

Table 2.13-- CAUSE OF DEATH, BY SEX: 1996

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	7,803	4,450	3,353
Tuberculosis	5	5	0
Other infective 1/	201	150	51
Malignant neoplasm	1,823	1,023	800
Digestive organs	539	320	219
Respiratory system	472	298	174
Breast	128	1	127
Genital organs	184	109	75
Urinary organs	65	47	18
Leukemia	62	39	23
Other	373	209	164
Diabetes mellitus	209	98	111
Heart disease	2,390	1,377	1,013
Rheumatic	40	16	24
Hypertensive	74	36	38
Ischemic	1,228	720	508
Other heart	1,048	605	443
Hypertension	28	13	15
Cerebrovascular disease	606	311	295
Arteriosclerosis	18	8	10
Other circulatory	136	88	48
Influenza/pneumonia	336	194	142
Chronic obstructive pulmonary diseases	237	133	104
Peptic ulcer	17	7	10
Cirrhosis of liver	77	55	22
Nephritis and nephrosis	101	43	58
Pregnancy, birth & puerperium	1	0	1
Congenital anomalies	27	10	17
Perinatal conditions	53	32	21
Symptoms, signs & ill-defined conditions	63	42	21
Other diseases 2/	866	432	434
Unintentional injury	333	238	95
Motor vehicles	144	98	46
Other	189	140	49
Suicide	118	89	29
Homicide & legal intervention	41	28	13
Other external causes	117	74	43

1/ Includes AIDS.

2/ Includes other respiratory.

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

Table 2.14-- CATASTROPHIC MORTALITY: 1988 TO 1998

[Includes all accidents, natural disasters, and other events causing five or more deaths.
Complete through June 28, 1998]

Date	Place	Kind of disaster	Deaths
1988: June 9	Near Waimanalo, Oahu	2-car auto crash	5
July 9	Near Kawaihae, Hawaii	2-car auto crash	6
1989: Jan. 31	Texas	Crash of Hawaii-bound airplane	19
Feb. 24	100 mi. S. of Honolulu	Airplane door lost	9
June 11	Waimanu, Hawaii	Airplane crash	11
Oct. 28	Halawa, Molokai	Airplane crash	20
1990: Nov. 13	Near Puunene, Maui	3-car auto crash	5
1991: Aug. 25-26	Waipahu and Kailua	Murder spree	5
1992: Jan. 14	Between Oahu and Maui	Airplane disappearance	5
Apr. 22	Haleakala summit, Maui	Airplane crash	9
Sept. 11	Kauai and Oahu	Hurricane Iniki	8
Sept. 16	Haleakala slope, Maui	Helicopter crash	7
1994: Jan. 21	Keawaula Bay, Oahu	1-car auto crash	5
1995: Nov. 10	Kuliouou, Oahu	1-car auto crash	5
1996: Nov. 1	Halawa, Molokai	Airplane crash	5
1997: Oct. 15	Palolo Valley, Honolulu	3 houses destroyed by fire	7
1998: June 25	Waialeale Crater, Kauai	Helicopter crash	6

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

**Table 2.15-- GREATEST CATASTROPHIC MORTALITY OF RECORD,
BY TYPE OF DISASTER: 1778 TO 1997**

[Complete through October 27, 1997]

Kind of disaster	Date	Location	Event	Deaths
Aircraft	Mar. 22, 1955	Waianae Mts.	Crash of MATS R6-D	66
Asphyxiation	Oct. 19, 1937	Palama	Leaking gas in house	8
Construction	Mar. 25, 1930	Kauai	Collapse of Alexander Dam	6
Earthquake	Apr. 2, 1868	Ka'u; Puna	Earthquake	32
Explosion	May 21, 1944	West Loch	Explosions on 9 Navy ships loading ammunition	163
Fire	June 8, 1944	Kalihi	Colliding bombers set fire to houses	1/ 14
Flood	Jan. 18, 1916	Iao; Wailuku	Cloudburst and flood	14
Homicide	July 15, 1952	Near Koko Head	Mass murder	5
	Nov. 22, 1965	Aiea	Mass murder	5
	June 25-26, 1991	Waipahu; Kailua	Mass murder	5
Hurricane	Sept. 11, 1992	Kauai; Oahu	Hurricane Iniki	8
Marine	1829 or 1830	New Hebrides	Losses to Boki's ships 2/	410
Motor vehicle	July 2, 1944	Waialua	Truck overturns on pedestrians	7
	July 5, 1969	Kam Hwy at Puuloa	2-car accident	7
Railroad	June 26, 1916	Near Hana	Work train derailed	5
Tsunami	Apr. 1, 1946	Statewide	Tsunami	159
Volcano	Nov. 1790	Kilauea	Eruption kills soldiers	80 or 400
War, riots, etc.	Dec. 7, 1941	Oahu	Pearl Harbor attack	2,500
	Jan. 1790	Olowalu	U.S. ship fires on native canoes	> 100
	Sept. 9, 1924	Hanapepe	Police fire on strikers	20

1/ 4 airmen; 10 occupants of houses.

2/ Of Boki's two-ship expedition to New Hebrides, the *Kamehameha* and its crew of 250 vanished; the *Becket* survived but lost 160 of its crew.

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. 3 (1969), pp. 66-86, and "Catastrophic Mortality in Hawaii: An Update," *The Hawaiian Journal of History*, Vol. 23 (1989), pp. 217-227; *Data Book 1996*, table 2.15, as updated.

**Table 2.16-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1970 TO 1996**

Method	1970	1980	1990	1994	1995	1996
All methods	4,197	5,204	7,055	7,530	7,795	8,148
Burial	2,197	2,343	2,798	2,768	2,813	2,861
Cremation	1,509	2,241	3,564	4,150	4,386	4,670
Removal	470	567	656	579	558	580
Entombment	13	44	35	13	11	11
Medical science	3	-	-	16	24	22
Other	-	1	-	-	-	1
Unknown	5	8	2	4	3	3

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

**Table 2.17-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1994 TO 1997**

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1994: June 30	2,377	1,783	255	102	237
1995: June 30	2,358	1,760	261	107	230
1996: June 30	2,509	1,873	285	109	242
1997: June 30	2,559	1,919	277	114	249

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

Table 2.18-- SELECTED CHRONIC CONDITIONS: 1996

[Provisional data. 1992 figures in the *Data Book 1996* are not necessarily comparable to these figures because of survey instrument changes]

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Diabetes	48,423	42.2
Hypertension	144,823	126.1
High blood cholesterol	123,967	107.9
Asthma	100,706	87.7
Alzheimer 1/	2,096	5.6

1/ Asked only for persons 45 years of age and over in households.

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

Table 2.19-- INCIDENCE OF SELECTED INJURIES: 1996

[Provisional data]

Injury	Incidence of injury per month	Injury per 100 persons per month
Broken bones	14,101	1.2
Wound or cut	27,833	2.4
Sprain or muscle strain	47,429	4.1
Contusion/bruise	24,776	2.2
Poisoning	5,384	0.5
Burn	8,677	0.8

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

Table 2.20-- SPECIFIED COMMUNICABLE DISEASES: 1992 TO 1996

Disease	1992 1/	1993 1/	1994	1995	1996 2/
Cases:					
AIDS	131	373	238	222	192
Campylobacteriosis	357	403	601	699	854
Fish poisoning 3/	59	95	119	129	43
Gonorrhea	686	864	699	565	501
Hansen's Disease 4/	20	17	21	19	15
Hepatitis A	169	69	59	166	120
Influenza	135	2,531	1,233	255	129
Leptospirosis 5/	31	24	22	23	42
Malaria 6/	11	7	15	12	12
Measles (Rubeola)	46	20	17	3	51
Meningitis, all types	132	170	152	132	89
Mumps	28	30	19	14	31
Pneumococcal disease	41	73	77	110	98
Rubella	24	28	4	5	3
Salmonellosis	319	337	304	303	428
Shigella	120	98	202	102	87
Syphilis (Primary & Secondary)	10	7	4	-	4
Tuberculosis	273	251	247	193	200
Deaths: 7/					
AIDS	118	129	145	130	73
Campylobacteriosis	-	-	-	-	-
Fish poisoning 3/	-	-	-	-	-
Gonorrhea	-	-	-	-	-
Hansen's Disease 4/	-	-	1	-	-
Hepatitis A	1	-	-	-	1
Influenza	1	1	-	1	3
Leptospirosis 5/	-	-	-	-	-
Malaria 6/	-	-	-	-	-
Measles (Rubeola)	-	-	-	-	-
Meningitis, all types	2	1	1	2	2
Mumps	-	-	-	-	-
Pneumococcal disease	1	-	1	2	1
Rubella	-	-	-	-	-
Salmonellosis	-	-	-	1	1
Shigella	-	-	-	-	-
Syphilis	-	-	-	-	-
Tuberculosis	5	5	4	6	5

Footnotes and source on next page.

Table 2.20-- SPECIFIED COMMUNICABLE DISEASES: 1992 TO 1996 -- Con.

- 1/ Revised figures as of May 30, 1996.
- 2/ Figures as of November 3, 1997.
- 3/ Scombroid, ciguatera and hallucinogenic fish poisoning.
- 4/ Excludes reinstated cases.
- 5/ Includes previously unreported cases.
- 6/ Acquired outside the State.
- 7/ Resident data.

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

Table 2.21-- HEALTH RISK BEHAVIORS FOR PERSONS 18 YEARS AND OLDER, BY PLACE OF RESIDENCE: 1995-1996

[Unweighted percentage of persons at increased risk for morbidity and mortality due to selected risk factors]

Risk factor	Year	State	Oahu	Neighbor islands
Seatbelt non-use	1995	4	4	5
Chronic drinking 1/	1995	8	8	7
Acute drinking 2/	1995	27	30	22
Drinking and driving	1995	2	2	2
Hypertension	1995	21	19	24
Cigarette smoking 3/	1996	22	20	24
Sedentary lifestyle	1996	46	48	43
Overweight (20 percent or more)	1996	27	27	27

- 1/ Sixty or more drinks in a past month.
- 2/ Five or more drinks on an occasion, at least once a month.
- 3/ Current smokers.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Behavioral Risk Factor Surveillance Survey.

Table 2.21-- HEALTH RISK BEHAVIORS FOR PERSONS 18 YEARS AND OLDER, BY PLACE OF RESIDENCE: 1995-1996

[Unweighted percentage of persons at increased risk for morbidity and mortality due to selected risk factors]

Risk factor	Year	State	Oahu	Neighbor islands
Seatbelt non-use	1995	4	4	5
Chronic drinking 1/	1995	8	8	7
Acute drinking 2/	1995	27	30	22
Drinking and driving	1995	2	2	2
Hypertension	1995	21	19	24
Cigarette smoking 3/	1996	22	20	24
Sedentary lifestyle	1996	46	48	43
Overweight (20 percent or more)	1996	27	27	27

1/ Sixty or more drinks in a past month.

2/ Five or more drinks on an occasion, at least once a month.

3/ Current smokers.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Behavioral Risk Factor Surveillance Survey.

Table 2.22-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1991 TO 1996

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

Category and year	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
Number of facilities:						
1991	59	24	4/ 40	4/ 14	494	14
1992	4/ 58	4/ 23	41	4/ 14	490	14
1993	57	23	41	13	486	13
1994 5/	73	23	41	29	489	12
1995 5/	74	23	42	29	499	12
1996 5/	71	23	42	26	521	11
Number of licensed beds: 6/						
1991	6,811	2,593	3,443	775	2,159	450
1992	6,794	2,583	3,476	735	2,175	436
1993	6,818	2,600	3,510	708	2,164	413
1994 5/	7,130	2,600	3,492	1,038	2,216	407
1995 5/	7,130	2,642	3,504	984	2,274	393
1996 5/	7,433	2,633	3,814	986	2,415	349

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

2/ Five beds or fewer.

3/ Six beds or more.

4/ Revised.

5/ Additional specialty care facilities were added to the survey.

6/ Number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in the previous *Data Books* referred to the number of beds with Certificate of Need approval.

Certificate of Need approved beds included beds completed and beds being developed (not yet in service).

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

Table 2.23-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1991 TO 1996

[Excludes Tripler Army Medical Center]

Type of facility and year	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:				
1991	96,961	1,814	6.8	70.0
1992	98,973	1,837	6.8	71.1
1993	100,290	1,848	6.7	71.1
1994	101,057	1,849	6.7	71.2
1995	101,001	1,802	6.5	68.2
1996	100,519	1,689	6.1	64.2
Long-term care:				
1991	3,181	3,216	369	93.4
1992	3,255	3,343	375	96.2
1993	3,346	3,339	364	95.1
1994	3,149	3,413	395	97.8
1995	3,577	3,308	335	94.4
1996	4,577	3,520	279	92.3

Source: Hawaii State Department of Health, Statistical Report (annual); State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1994*; State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1995*; State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data* and records.

Table 2.24-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1996

[Facilities recognized by the Hawaii State Health Planning and Development Agency.
Excludes Tripler Army Medical Center]

Category and island	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
NUMBER OF FACILITIES						
State total	71	23	42	26	521	11
Oahu	50	11	26	21	438	8
Hawaii	7	5	7	-	51	-
Kauai	6	3	5	1	16	2
Maui	5	2	2	3	11	-
Molokai	2	1	1	1	5	1
Lanai	1	1	1	-	-	-
NUMBER OF LICENSED BEDS 4/						
State total	7,433	2,633	3,814	986	2,415	349
Oahu	5,502	2,090	2,490	922	2,052	280
Hawaii	787	235	552	-	224	-
Kauai	396	114	276	6	62	57
Maui	690	182	464	44	53	-
Molokai	44	8	22	14	24	12
Lanai	14	4	10	-	-	-

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

2/ Five beds or fewer.

3/ More than five beds.

4/ Number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in the previous *Data Books* referred to the number of beds with Certificate of Need approval.

Certificate of Need approved beds included beds completed and bed being developed (not yet in service).

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data (June 1997)*, and Hospital and Medical Facilities Branch, records.

Table 2.25-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1996

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	100,519	1,689	6.1	64.2
Oahu	75,751	1,352	6.5	64.7
Hawaii	11,020	124	4.1	52.9
Kauai	4,635	52	4.1	45.8
Maui	8,973	159	6.5	87.6
Molokai	135	1	2.1	9.6
Lanai	5	-	2.4	1.1
LONG-TERM CARE				
State total	4,577	3,520	279	92.3
Oahu	3,251	2,350	264	94.4
Hawaii	651	537	291	97.7
Kauai	348	270	283	97.7
Maui	228	338	541	72.8
Molokai	87	17	70	76.2
Lanai	12	10	289	95.1

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data* (June 1997).

**Table 2.26-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1987 TO 1997**

Facilities and year	Persons active, Dec. 31	Admissions	Discharges	Persons served
Hawaii State Hospital:				
1987	214	675	699	913
1988	237	712	689	926
1989	220	777	794	1,014
1990	193	738	765	958
1991	159	311	345	504
1992	198	394	355	553
1993	195	446	449	644
1994	199	275	271	470
1995 1/	172	107	123	295
1996	164	102	110	274
1997	163	100	101	264
State-supported outpatient community mental health centers:				
1987	2,563	2,158	1,984	4,547
1988	2,612	2,092	2,043	4,655
1989	2,369	1,840	2,083	4,452
1990	2,505	1,764	1,628	4,133
1991	3,037	2,494	1,962	4,999
1992	3,509	2,182	1,710	5,219
1993	3,410	2,004	2,103	5,513
1994	3,246	1,692	1,856	5,102
1995	2,798	804	866	3,664
1996	2,867	818	749	3,616
1997	3,024	804	647	3,671

1/ Prior to 1995, a patient's administrative leave for treatment at a facility outside Hawaii State Hospital was counted as a discharge when the patient left, then counted as an admission when the patient returned to the Hawaii State Hospital. From 1995, this type of patient leave was handled as an internal transfer.

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

**Table 2.27-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1993 TO 1997**

Year	Number of beds, June 30 1/	Admissions 2/		Patients in hospital 3/	
		Total	First	Average 2/	June 30
1993	202	447	344	197	195
1994	202	273	216	196	199
1995	202	117	112	186	171
1996	202	89	87	170	167
1997	202	101	100	164	168

1/ Number of licensed beds. The number of beds available for use, however, is dependent upon the staff/patient ratio.

2/ Year ended June 30.

3/ Includes patients on leave and absent without leave. In 1997, about .5% of the patients were on leave or absent without leave.

Source: Hawaii State Hospital, records.

Table 2.28-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1993 TO 1997

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

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1993	172	4	101	82	-
1994	172	-	82	80	-
1995	172	3	77	75	3
1996	101	-	57	46	5
1997	101	-	38	36	3

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

Table 2.29-- HANSEN'S DISEASE PATIENTS REGISTERED: 1992 TO 1996

Subject	1992	1993	1994	1995	1996
Patients on register, Dec. 31	480	460	419	390	365
Department of Health's Hansen's Disease Community Program 1/	394	378	342	320	301
Kalaupapa	83	79	74	68	64
Hale Mohalu at Leahi	3	3	3	2	-
New cases	20	17	21	19	15
Deaths	8	10	11	15	11

1/ Previously categorized as "at home". Patients are registered to this community program, but reside at home.

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

**Table 2.30--COMMUNITY HOSPITAL CHARACTERISTICS, FOR THE
UNITED STATES AND HAWAII: 1994**

Characteristic	United States	Hawaii	
		Number	Rank 1/
Number of community hospitals	5,229	19	46
Beds	902,061	2,916	45
Admissions	30,718,136	97,906	44
Average stay (days)	6.7	8.8	44
Average cost to hospital --			
Per patient day	\$930.71	\$957.86	19
Per stay	\$6,229.83	\$8,427.93	1

1/ Among 50 states.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data 1996* (1997), pp. 105.

**Table 2.31-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS
LICENSED IN HAWAII, BY PLACE OF ADDRESS: JULY 22, 1997**

[Excludes inactive licenses]

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	5,809	1,345	11,993	1,322
Hawaii addresses	3,039	1,036	9,826	767
Hawaii	246	95	979	73
Maui	213	69	814	60
Lanai	2	1	14	-
Molokai	7	4	37	2
Oahu	2,472	824	7,594	596
Kauai	99	43	388	36
Niihau	-	-	-	-
Mainland U.S.	2,689	300	2,048	548
Foreign	81	9	119	7

1/ Permanent licenses only. Does not include interns, residents, or physicians who provided State government services only.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, records.

Table 2.32-- PERSONAL HEALTH CARE EXPENDITURES, BY TYPE: 1993

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

Expenditure type	Million dollars	Percent
Personal health care expenditures, total	3,485	100.0
Hospital care	1,460	41.9
Physician services	771	22.1
Dental services	235	6.7
Other professional services	222	6.4
Home health care	32	0.9
Drugs and other medical nondurables	416	11.9
Vision products and other medical durables	64	1.8
Nursing home care	181	5.2
Other personal health care	104	3.0
Medicare personal health care expenditures	496	...
Medicaid personal health care expenditures	354	...

Source: *Statistical Abstract of the United States: 1995* (1995), p. 111.

Table 2.33-- MARRIAGES AND DIVORCES: 1980 TO 1996

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population 3/		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 4/	Inter-racial 5/
1980	11,856	9,442	4,438	9.7	4.6	20.4	44.4
1981	12,218	9,445	4,253	9.7	4.3	22.7	44.5
1982	13,483	10,053	4,233	10.1	4.3	25.4	45.0
1983	14,062	10,216	4,583	10.1	4.5	27.3	45.5
1984	14,982	10,020	4,769	9.7	4.6	33.3	46.3
1985	15,421	9,893	4,887	9.5	4.7	35.8	46.9
1986	16,219	9,571	4,674	9.1	4.4	30.4	46.5
1987	16,567	9,714	4,419	9.1	4.1	41.3	44.6
1988	17,281	9,708	5,020	9.0	4.6	43.8	42.9
1989	17,974	9,952	5,613	9.1	5.1	44.6	44.3
1990	18,306	10,407	5,179	9.4	4.7	43.1	45.9
1991	17,764	10,051	5,184	8.9	4.6	43.4	43.9
1992	17,725	10,049	5,040	8.7	4.4	43.3	44.3
1993	17,252	9,744	4,888	8.4	4.2	43.5	44.1
1994	18,118	9,317	4,993	7.9	4.3	48.6	44.5
1995	18,669	9,277	5,505	7.9	4.7	50.3	45.0
1996	19,589	9,003	4,903	7.6	4.1	54.0	45.6

1/ One or both partners residents of Hawaii.

2/ Final decrees only.

3/ Based on July 1 estimates by the U.S. Bureau of the Census, as revised through Dec. 31, 1997.

4/ Both partners nonresidents of Hawaii.

5/ Excludes nonresident marriages. Also, for these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

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

**Table 2.34-- MARRIAGE AND DIVORCE RATES BASED ON RISK
POPULATION: 1910 TO 1990**

Census year	Females 15 years old and over 1/		Marriages 2/		Divorces 2/	
	Unmarried 3/	Married 4/	Number	Rate 5/	Number	Rate 6/
1910	9,667	31,380	2,112	218	210	7
1920	14,616	45,550	2,070	142	548	12
1930	26,059	53,948	2,504	96	546	10
1940	51,669	66,569	4,659	90	906	14
1950	58,995	94,520	5,446	92	1,112	12
1960	65,156	128,528	5,098	78	1,324	10
1970	98,016	166,596	7,312	75	2,452	15
1980	150,166	210,085	9,148	61	4,144	20
1990	183,984	244,799	10,180	55	5,396	22

1/ Females 14 years old and over for 1940-1970.

2/ Annual averages for two-year periods centering on each census date. Place of occurrence basis.

Marriage data for 1969-1970 and later years exclude nonresident marriages.

3/ Single, widowed or divorced.

4/ Includes separated persons.

5/ Per 1,000 unmarried females 15 (or 14) years old and over.

6/ Per 1,000 married females 15 (or 14) years old and over.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 214-215 and underlying data; *U.S. Census of Population: 1970*, Final Report PC (1)-B13, table 22; *U.S. Census of Population: 1980*, PC80-1-B13, table 21; Hawaii State Data Center, 1990 census tapes; Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1969, 1970, 1979, 1980, and records.

**Table 2.35-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1993 TO 1996**

[Place of occurrence basis]

Subject	1993	1994	1995	1996
MARRIAGES				
Number	17,252	18,118	18,669	19,589
Percent on Oahu	57.7	53.0	51.1	49.0
Percent Hawaii residents:				
Both bride and groom	52.6	47.8	46.6	42.4
One partner only	3.9	3.6	3.1	3.5
Neither bride nor groom	43.5	48.6	50.3	54.0
Median age (years):				
Groom	31	31	32	32
Bride	29	29	29	30
Percent previously married:				
Groom	36.8	37.6	38.4	38.8
Bride	37.4	38.5	38.7	38.8
DIVORCES AND ANNULMENTS				
Number	4,888	4,993	5,505	4,903
Divorces	4,878	4,981	5,494	4,883
Annulments	10	11	9	20
Not reported	-	1	2	-
Percent occurring on Oahu	72.2	73.4	76.1	73.9
Percent Hawaii residents:				
Both partners	75.5	75.3	75.5	76.0
One partner only	22.9	23.1	23.0	23.0
Neither partner	0.2	0.1	<0.1	<0.1
Not reported 1/	1.4	1.4	1.4	0.9
Median age (years):				
Husband	36	36	36	37
Wife	34	34	34	35
Percent interracial 2/	41.8	41.6	41.9	41.5
Percent with children under 18 years	51.8	49.3	50.1	50.9
Median years married	6.4	6.4	6.4	6.8

1/ Couples where the residence of one or more partners is unknown.

2/ For these calculations, divorces where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

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

Table 2.36-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1996

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages	19,589	9,003	10,586
Race of partners:			
Both partners same race 1/	14,105	4,840	9,265
Different	5,484	4,163	1,321
Percent different	28.0	46.2	12.5
Type of ceremony:			
Civil ceremony	3,394	2,745	649
Religious ceremony	16,195	6,258	9,937
Unknown	-	-	-

1/ Includes marriages with both partners of unknown race.

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

Table 2.37-- MARITAL DISSOLUTION: 1980 TO 1996

Subject	1980	1990	1996	Percent		
				1980	1990	1996
Married couples	185,698	210,468	229,500	100.0	100.0	100.0
Marriages ended	6,782	8,292	8,523	3.7	3.9	3.7
By divorce	4,438	5,172	4,903	2.4	2.5	2.1
By death	2,344	3,120	3,620	1.3	1.5	1.6
Husbands	1,678	2,234	2,540	0.9	1.1	1.1
Wives	666	886	1,080	0.4	0.4	0.5

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; U.S. Bureau of the Census, *1980 Census of Population*, PC80-1-B13, table 21, and *1990 Census of Population*, 1990 CP-1-13, table 30; 1996 DBEDT estimate of married couples, based on 1990-96 percent increase in households.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; achievement test results; school facilities, personnel, and expenditures; and libraries.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii, and private universities and colleges. *Historical Statistics of Hawaii*, Section 9, contains Island data back to 1820. Section 4 of the *Statistical Abstract of the United States: 1997* presents comparable information for the nation as a whole.

**Table 3.01-- SCHOOL ENROLLMENT, BY TYPE OF SCHOOL AND AGE, BY
GEOGRAPHIC AREAS: 1990**

Subject	State total	Oahu	Other islands
TYPE OF SCHOOL			
Persons 3 years and over enrolled	290,578	221,821	68,757
Preprimary school	21,276	15,977	5,299
Public school	10,739	7,839	2,900
Elementary or high school	186,653	135,478	51,175
Public school	157,102	110,708	46,394
College	82,649	70,366	12,283
Public college	66,131	55,366	10,765
AGE			
Persons 3 years and over enrolled	290,578	221,821	68,757
3 and 4 years	11,695	8,797	2,898
5 to 14 years	148,259	106,913	41,346
15 to 17 years	39,058	28,670	10,388
18 and 19 years	16,589	13,458	3,131
20 to 24 years	24,866	22,136	2,730
25 to 34 years	24,369	21,200	3,169
35 years and over	25,742	20,647	5,095
Percent enrolled in school:			
3 and 4 years	35.7	36.2	34.3
5 to 14 years	94.5	94.5	94.5
15 to 17 years	94.4	94.8	93.4
18 and 19 years	55.9	56.6	53.0
20 to 24 years	28.1	30.0	18.5
25 to 34 years	12.0	13.4	7.1
35 years and over	5.1	5.5	3.9

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 36.

Table 3.02-- EDUCATIONAL ATTAINMENT, BY GEOGRAPHIC AREA: 1990

Age and educational attainment	State total	Oahu	Other islands
Persons 18 to 24 years	118,184	97,548	20,636
High school graduate (includes equivalency)	51,928	42,531	9,397
Some college or associate degree	44,870	38,035	6,835
Bachelor's degree or higher	6,349	5,600	749
Persons 25 years and over	709,820	534,187	175,633
Less than 5th grade	24,642	18,003	6,639
5th to 8th grade	47,164	32,128	15,036
9th to 12th grade, no diploma	69,700	50,222	19,478
High school graduate (includes equivalency)	203,893	151,930	51,963
Some college, no degree	142,881	107,988	34,893
Associate degree, occupational program	34,376	24,598	9,778
Associate degree, academic program	24,740	18,149	6,591
Bachelor's degree	111,837	89,197	22,640
Master's degree	32,282	26,880	5,402
Professional school degree	12,818	10,359	2,459
Doctorate degree	5,487	4,733	754
Percent:			
Less than 5th grade	3.5	3.4	3.8
High school graduate or higher	80.1	81.2	76.6
Male	81.7	83.3	76.9
Female	78.4	79.2	76.2
Some college or higher	51.3	52.8	47.0
Bachelor's degree or higher	22.9	24.6	17.8
Male	24.4	26.4	18.4
Female	21.4	22.7	17.1

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 36.

**Table 3.03-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS
OLD AND OVER: 1940 TO 1990**

Years completed	1940	1950	1960	1970	1980	1990
Percent 4 years of high school or more 1/	20.5	31.6	46.1	61.9	73.8	80.1
Percent 4 years of college or more 2/	5.3	6.1	9.0	14.0	20.3	22.9

1/ For 1990, percent high school graduate or higher.

2/ For 1990, percent Bachelor's degree or higher.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 47; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 46; *1980 Census of Population*, PC80-1-C-13, table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13, table 1.

Table 3.04-- EDUCATIONAL ATTAINMENT OF PERSONS 25 YEARS OLD AND OVER, BY COUNTIES: 1990

Subject	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Population 25 years and over	709,820	77,099	534,187	130	33,045	65,359
Percent --						
High school graduate or higher	80.1	77.7	81.2	51.5	73.1	77.0
With bachelor's degree or higher	22.9	18.5	24.6	4.6	16.3	17.8

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics*, Hawaii (April 1992), table 4.

Table 3.05-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, FOR THE UNITED STATES AND HAWAII: MARCH 1995

[Noninstitutional population]

Geographic area	Population 25 years and over (1,000)	High school graduate or more		Bachelor's degree or more	
		Percent	1.6* (s.e.) 1/	Percent	1.6*(s.e.) 1/
United States	166,438	81.7	0.3	23.0	0.3
Hawaii	766	84.1	2.0	22.6	2.3
Rank 2/	40	21	...	22	...

1/ The value of 1.6 times the standard error, added to and subtracted from the estimated percentage, yields the 90-percent confidence level.

2/ Among the 50 states.

Source: U.S. Census Bureau, website <http://www.census.gov/prod/2/pop/p20/p20489ta/pdf>

**Table 3.06-- PRIVATE EDUCATIONAL SERVICES (SIC 82),
BY TYPE OF SERVICE: 1995**

SIC code	Type of service	No. of establishments		Employees, week including March 12	Annual payroll (\$1,000)
		Total	20 or more employees		
82	Educational services	284	63	9,712	227,777
821	Elementary and secondary schools	102	43	5,412	151,645
822	Colleges and universities	20	7	3,218	58,775
823	Libraries	3	1	(D)	(D)
824	Vocational schools	25	2	180	4,044
829	Schools and educ. services, n.e.c.	128	10	848	12,294

D Withheld to avoid disclosing data for individual establishments.

Source: U.S. Bureau of the Census, *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), p. 12.

Table 3.07-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1985-1986 TO 1995-1996

School year	Schools (September)			Teachers (September)		
	Total	Public	Private	Total	Public	Private
1985-86	373	232	141	10,677	8,221	2,456
1986-87	377	232	145	10,788	8,244	2,544
1987-88	369	231	138	11,168	8,632	2,536
1988-89	376	235	141	11,485	8,973	2,512
1989-90	374	238	136	11,856	9,202	2,654
1990-91	372	238	134	13,206	10,721	2,485
1991-92	368	239	129	13,676	11,116	2,580
1992-93	368	238	130	13,658	11,326	2,332
1993-94 1/	370	241	129	13,769	11,445	2,324
1994-95 1/	374	242	132	14,045	11,602	2,443
1995-96 1/	(NA)	246	(NA)	(NA)	11,629	(NA)
School year	Enrollment (September)			High school graduates		
	Total	Public	Private	Total	Public	Private
1985-86	200,952	164,169	36,783	12,468	9,958	2,510
1986-87	201,188	164,640	36,548	13,097	10,491	2,606
1987-88	202,419	166,240	36,179	13,448	10,800	2,648
1988-89	203,358	167,899	35,459	13,100	10,597	2,503
1989-90	205,591	169,904	35,687	11,717	9,335	2,382
1990-91	207,558	171,793	35,765	11,948	9,571	2,377
1991-92	210,271	175,114	35,157	12,009	9,649	2,360
1992-93	212,448	177,806	34,642	11,621	9,320	2,301
1993-94 1/	215,708	180,428	35,280	12,307	9,870	2,437
1994-95 1/	219,224	183,795	35,429	(NA)	9,435	(NA)
1995-96 1/	(NA)	186,581	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Data exclude UH Lab School.

Source: Hawaii State Department of Education, records.

**Table 3.08-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 1995,
AND HIGH SCHOOL GRADUATES, 1994-1995, FOR THE PUBLIC SCHOOL
SYSTEM, BY ISLANDS**

Island	Number of schools	Number of teachers	Enrollment	High school graduates
State total	246	11,629	186,581	9,435
Hawaii	37	1,711	28,083	1,541
Maui	23	1,089	18,479	880
Lanai	1	39	606	34
Molokai	5	127	1,907	96
Oahu 1/	166	7,983	126,330	6,289
Kauai	13	679	11,155	594
Niihau	1	2	21	1
Other islands	-	-	-	-

1/ Data exclude UH Lab School.

Source: Hawaii State Department of Education, records.

**Table 3.09-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES:
1995 AND 1996**

Grade	September 1995			September 1996		
	Total	Public 1/	Private	Total	Public 1/	Private
All grades	(NA)	187,190	(NA)	226,258	189,180	37,078
Nursery	(NA)	606	(NA)	5,223	695	4,528
Kindergarten	(NA)	16,065	(NA)	18,061	15,625	2,436
1	(NA)	15,492	(NA)	18,465	16,119	2,346
2	(NA)	14,882	(NA)	17,291	15,082	2,209
3	(NA)	14,257	(NA)	16,441	14,409	2,032
4	(NA)	13,754	(NA)	15,790	13,796	1,994
5	(NA)	13,181	(NA)	15,455	13,409	2,046
6	(NA)	13,279	(NA)	15,004	12,848	2,156
7	(NA)	12,675	(NA)	15,810	12,724	3,086
8	(NA)	12,491	(NA)	15,347	12,353	2,994
9	(NA)	14,918	(NA)	18,368	15,359	3,009
10	(NA)	12,232	(NA)	15,090	12,355	2,735
11	(NA)	10,592	(NA)	13,972	11,422	2,550
12	(NA)	9,671	(NA)	11,527	9,033	2,494
Specials 2/	(NA)	13,095	(NA)	14,414	13,951	463

NA Not available.

1/ Data exclude UH Lab School (not available in 1995).

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

Source: Hawaii Council of Private Schools, *Private School Enrollment Report 1996-1997*, Hawaii State Department of Education, records.

**Table 3.10-- PUBLIC SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 1996**

Grade	State total 1/	Hawaii	Maui	Honolulu 1/	Kauai
All grades	189,180	28,348	21,537	128,130	11,086
Nursery	695	91	74	501	21
Kindergarten	15,625	2,151	1,705	10,880	889
1	16,119	2,197	1,747	11,355	820
2	15,082	2,099	1,659	10,528	796
3	14,409	2,073	1,592	9,921	823
4	13,796	1,975	1,587	9,493	741
5	13,409	1,944	1,555	9,178	732
6	12,848	1,941	1,524	8,676	707
7	12,724	2,031	1,492	8,490	711
8	12,353	2,008	1,554	8,035	756
9	15,359	2,489	1,733	10,294	843
10	12,355	1,970	1,476	8,128	781
11	11,422	1,827	1,303	7,523	769
12	9,033	1,487	1,004	5,899	643
Specials 2/	13,951	2,065	1,532	9,229	1,054

1/ Data exclude UH Lab School.

2/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records.

**Table 3.11-- PUBLIC SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 1997**

Grade	State total 1/	Hawaii	Maui	Honolulu 1/	Kauai
All grades	189,281	28,506	21,712	127,943	11,039
Nursery	606	76	34	466	22
Kindergarten	14,915	2,034	1,636	10,475	770
1	15,617	2,196	1,711	10,846	864
2	15,642	2,156	1,672	11,019	795
3	14,489	2,035	1,605	10,070	779
4	13,813	1,966	1,481	9,584	782
5	13,376	1,934	1,516	9,186	740
6	12,908	1,914	1,480	8,779	735
7	12,227	1,943	1,482	8,087	715
8	12,345	2,029	1,526	8,091	699
9	14,742	2,431	1,760	9,739	812
10	12,660	2,038	1,483	8,395	744
11	11,527	1,923	1,364	7,487	753
12	9,459	1,564	1,105	6,130	660
Specials 2/	15,561	2,343	1,891	10,055	1,191

1/ Data exclude UH Lab School.

2/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records and <http://www.k12.hi.us/notes/en97/20fa.htm>.

**Table 3.12-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS:
FALL, 1992 TO 1995**

Category	1992	1993	1994	1995
All federally-connected pupils	35,318	33,650	33,340	33,013
Percent of total enrollment	20.0	18.7	18.1	17.8
Military dependents	19,832	18,725	18,513	(NA)
Others 1/	15,486	14,925	14,827	(NA)

NA Not available.

1/ Includes dependents of civilian employees of armed forces.

Source: Hawaii State Department of Education, records.

**Table 3.13-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT,
SEPTEMBER 1993 AND 1994, AND PRIVATE HIGH SCHOOL
GRADUATES, 1992-1993 AND 1993-1994, BY CHURCH AFFILIATION**

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

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

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

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

Source: Hawaii State Department of Education, records.

**Table 3.14-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT,
1993-1994 AND 1995-1996, AND PRIVATE HIGH SCHOOL
GRADUATES, 1991-1992 AND 1994-1995**

[Data limited to schools that offer first grade or above. Teacher count is FTE]

School year	Number of schools	Enrollment	FTE teachers	High school graduates	
				Year	Number
1993-94	121	30,537	2,144	1991-92	1,886
1995-96	127	34,541	2,532	1994-95	2,603

Source: National Center for Education Statistics, Private School Universe Survey, 1993-94, NCES 96-143 (May 15,1996) and Private School Universe Survey, 1995-96, NCES 98-229 (March 25,1998).

**Table 3.15-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND
DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY
EDUCATION: 1981-1982 TO 1994-1995**

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1981-1982	432,228,402	17,237,000	2,701	22,473	177
1982-1983	497,763,951	23,304,890	3,098	21,504	2/ 174
1983-1984	509,710,506	11,941,000	3,256	25,380	176
1984-1985	526,741,742	13,652,707	3,351	25,648	174
1985-1986	585,533,781	27,812,430	3,795	26,595	176
1986-1987	589,592,735	23,445,100	3,748	27,546	176
1987-1988	622,638,850	32,211,000	3,950	28,353	177
1988-1989	661,605,931	37,505,200	4,172	29,835	174
1989-1990	727,501,992	50,569,700	4,605	32,252	175
1990-1991	863,592,130	50,464,700	5,016	34,448	175
1991-1992	914,792,363	100,194,691	5,246	35,684	177
1992-1993	978,441,540	52,250,890	5,533	35,684	176
1993-1994	1,040,108,578	81,995,840	5,740	35,844	176
1994-1995	1,058,601,305	64,152,364	5,794	35,532	176

1/ Based on average daily membership.

2/ One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, records.

**Table 3.16-- SCHOLASTIC ASSESSMENT TEST SCORE AVERAGES:
1996 AND 1997**

[Recalibrated averages, not directly comparable to earlier data reported in *Data Book 1995*, table 3.17. Formerly known as the Scholastic Aptitude Test]

Component	Hawaii seniors		U.S. averages	
	1996	1997	1996	1997
Mathematical	510	512	508	511
Verbal	485	483	505	505

Source: *Honolulu Advertiser*, Aug. 27, 1997, p. A-1.

**Table 3.17-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC
SCHOOL GRADES 3, 6, 8, AND 10: 1996 AND 1997**

[Percent of students taking test]

Subject and level	Norm	Grade 3		Grade 6		Grade 8		Grade 10	
		1996	1997	1996	1997	1996	1997	1996	1997
Reading:									
Below average	23	39	37	30	23	36	35	27	31
Average	54	49	53	53	58	46	49	54	50
Above average	23	13	10	17	19	17	16	18	20
Math:									
Below average	23	26	26	22	20	28	33	22	30
Average	54	49	51	54	54	51	46	59	50
Above average	23	25	23	24	26	21	21	19	19

Source: *Honolulu Star-Bulletin*, October 17,1997; *The Honolulu Advertiser*, October 17, 1997.

**Table 3.18-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS:
FALL 1987 TO 1997**

[Fall headcount enrollment of regular students]

Year	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 2/	Univ. of Hawaii- West Oahu	
		Total	Classified		Unclassi- fied 1/			
			Under- graduates	Gradu- ates				
1987	42,747	18,382	12,254	4,400	1,728	1,711	482	
1988	42,525	18,424	12,121	4,382	1,921	1,769	492	
1989	43,644	18,546	12,021	4,601	1,924	1,927	601	
1990	45,742	18,810	12,073	4,809	1,928	2,553	652	
1991	47,527	19,316	12,530	5,005	1,781	2,670	667	
1992	49,412	19,810	12,838	5,207	1,765	2,790	692	
1993	50,229	20,037	12,991	5,343	1,703	2,953	676	
1994	51,380	19,983	12,903	5,518	1,562	2,870	744	
1995	49,895	19,757	13,050	5,220	1,457	2,737	716	
1996	47,075	18,232	12,216	4,789	1,227	2,723	648	
1997	45,551	17,365	11,782	4,514	1,069	2,639	648	
	Community Colleges 3/							
Year	Total	Honolulu	Kapiolani	Leeward	Windward	Hawaii	Kauai	Maui
1987	22,172	4,523	5,372	5,723	1,645	1,830	1,164	1,915
1988	21,840	4,292	5,467	5,439	1,555	1,861	1,231	1,995
1989	22,570	4,193	5,717	5,646	1,604	2,037	1,299	2,074
1990	23,727	4,379	6,275	5,805	1,622	1,896	1,413	2,337
1991	24,874	4,462	6,526	6,343	1,611	1,847	1,496	2,589
1992	26,120	4,767	7,116	6,098	1,782	2,106	1,563	2,688
1993	26,563	4,740	7,356	6,449	1,635	2,348	1,457	2,578
1994	27,783	4,817	7,639	6,486	1,763	2,762	1,507	2,809
1995	26,685	4,429	7,283	6,330	1,671	2,780	1,452	2,740
1996	25,472	4,062	7,319	5,987	1,517	2,416	1,356	2,815
1997	24,899	3,970	7,189	5,936	1,513	2,221	1,283	2,787

1/ Unclassified at UH Manoa; also includes "no data on educational level".

2/ Excludes Hawaii Community College, which until Fall 1991 was organizationally part of UH Hilo.

3/ Data for all years include Hawaii Community College, which until Fall 1991 was organizationally part of UH Hilo.

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

**Table 3.19-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY
THE UNIVERSITY OF HAWAII: 1987 TO 1997**

Year ended June 30	University of Hawaii at Manoa					
	Asso- ciate's	Bache- lor's	Master's	Doc- torate	First profes- sional 1/	Other 2/
1987	65	2,601	794	130	137	249
1988	54	2,521	830	111	126	259
1989	92	2,404	833	162	119	224
1990	87	2,431	804	114	113	235
1991	78	2,362	835	143	118	217
1992	41	2,410	932	140	116	211
1993	-	2,527	1,088	147	115	250
1994	-	2,537	1,018	166	133	314
1995	-	2,603	1,070	155	121	331
1996	-	2,782	1,053	186	122	285
1997	-	2,659	1,168	175	129	164

Year ended June 30	University of Hawaii at Hilo 3/		Univ. of Hawaii- West Oahu: Bachelor's	Community Colleges 3/		
	Certifi- cates 4/	Bachelor's degree		Certifi- cates 5/	Asso- ciate's degree	No data
1987	-	201	139	434	2,042	64
1988	-	208	108	393	1,937	15
1989	30	154	116	247	1,805	21
1990	29	203	126	274	1,919	20
1991	44	210	149	285	1,950	-
1992	47	222	135	260	2,063	42
1993	62	280	190	316	2,135	22
1994	64	311	161	347	2,022	17
1995	73	367	186	516	2,107	1
1996	82	414	199	422	2,201	-
1997	45	421	199	372	2,304	-

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

2/ Certificates in Dental Hygiene and professional diplomas.

3/ Due to Hawaii CC's organizational transfer from the UH Hilo unit to the community college unit in Fall 1991, the community college figures have been retroactively adjusted to include Hawaii CC and the UH Hilo figures adjusted to exclude Hawaii CC.

4/ Professional Certificates in Education.

5/ Certificates of Achievement.

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

**Table 3.20-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES,
AND FACULTY AND STAFF: 1995 TO 1997**

Subject	1995	1996	1997
Curricula offered at Manoa Campus, Fall 1/	271	277	280
Bachelor's degree programs	88	88	88
Master's degree programs	87	87	87
Doctoral programs (DrPH, EdD, PhD)	53	53	55
Other programs 1/	43	49	50
Tuition per semester (full-time undergraduate, regular session) (dollars):			
Manoa Campus: Resident	767	1,152	1,416
Nonresident	2,364	3,876	4,656
Hilo (upper division): Resident	688	888	1,068
Nonresident	2,131	3,204	3,852
West Oahu: Resident	457	696	876
Nonresident	1,548	2,868	3,444
Community colleges: Resident	252	384	468
Nonresident	1,548	2,556	2,856
Finances, fiscal year ending June 30:			
Current fund revenues (\$1,000)	661,137	572,750	575,003
Current fund expenditures (\$1,000)	657,624	639,867	648,926
Faculty and staff, October	7,953	7,772	7,862
Board of Regents appointees	6,248	6,052	6,144
Full-time	4,122	4,078	4,126
Part-time	2,126	1,974	2,018
Civil Service personnel	1,705	1,720	1,718
Full-time	1,653	1,667	1,674
Part-time	52	53	44

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

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

Table 3.21-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1992 TO 1997

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

Year and institution 1/	Fall enrollment 2/			Earned degrees conferred 3/		
	Total	Undergrad.	Graduate	Associate's	Bachelor's	Master's
1992, total	11,310	10,124	1,186	523	1,018	233
Brigham Young	2,064	2,064	-	68	234	-
Chaminade	2,270	1,920	350	128	227	110
Hawaii Pacific	6,976	6,140	836	327	557	123
1993, total	11,790	10,517	1,273	486	1,205	274
Brigham Young	1,980	1,980	-	72	269	-
Chaminade	2,284	1,923	361	95	167	99
Hawaii Pacific	7,526	6,614	912	319	769	175
1994, total	12,435	11,108	1,327	490	1,305	335
Brigham Young	2,096	2,096	-	50	280	-
Chaminade	2,429	2,037	392	147	186	129
Hawaii Pacific	7,910	6,975	935	293	839	206
1995, total	12,672	11,104	1,568	476	1,303	425
Brigham Young	2,241	2,241	-	39	253	-
Chaminade	2,395	1,889	506	178	200	147
Hawaii Pacific	8,036	6,974	1,062	259	850	278
1996, total	13,209	11,577	1,632	374	1,292	468
Brigham Young	2,396	2,396	-	31	233	-
Chaminade	2,543	2,023	520	169	193	167
Hawaii Pacific	8,270	7,158	1,112	174	866	301
1997, total						
Brigham Young	2,294	2,294	-	101	212	-
Chaminade	2,612	2,130	482	168	231	186
Hawaii Pacific	8,390	7,286	1,104	159	919	337

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

2/ In regular credit programs.

3/ Year ended June 30.

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

Table 3.22-- RESIDENCE AND MIGRATION OF FRESHMEN STUDENTS IN INSTITUTIONS OF HIGHER EDUCATION AND FRESHMEN STUDENTS GRADUATING FROM HIGH SCHOOL IN THE PAST 12 MONTHS: FALL 1994

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

1/ Students who are enrolled at the reporting institution for the first time at the undergraduate level.

2/ Freshman students, graduating from high school in the past 12 months, who are enrolled at the reporting institution for the first time.

3/ New students, whether in-migrants or "remaining."

4/ New students residing in Hawaii when first admitted to the reporting institution, whether in Hawaii or on the Mainland.

5/ New students attending institutions in their home state.

Source: U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics 1997*, pp. 211-213.

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

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

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

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

**Table 3.24-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY
SYSTEM: 1992 TO 1997**

Subject	1992	1993	1994	1995	1996	1997
Library locations, June 30	49	49	49	49	49	49
Oahu	23	23	23	23	23	23
Other islands	26	26	26	26	26	26
Personnel, June 30 1/	597.05	623.55	614.05	514.05	512.05	512.05
Librarians	173.50	179.00	179.00	159.00	159.00	159.00
All others	423.55	444.55	435.05	355.05	353.05	353.05
Hours open 2/	54	58	55	53	53	53
Collections, June 30 3/ (1,000)	2,769	3,114	3,364	3,644	3,662	3,197
Circulation, year ended June 30 (1,000)	6,700	6,992	7,259	7,499	7,407	7,602

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

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

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

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

**Table 3.25-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM
BY DISTRICTS: 1996**

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30	
Total system	49	512.05	7,407,225	
Oahu	23	287.50	4,913,933	
Hawaii State Library	1	81.00	821,793	
East Oahu Library District	12	109.00	2,248,611	
West Oahu Library District	9	82.00	1,805,215	
Library for the Blind and Physically Handicapped	1	15.50	38,314	
Other islands	26	127.55	2,493,292	
Hawaii Library District	13	58.55	1,239,385	
Kauai Library District	5	28.00	492,721	
Maui Library District 2/	8	41.00	761,186	
Administration/Centralized Processing Center	...	97.00	...	
	Collections, June 30			
District	Books	Periodical subscriptions	Video tapes	Sound recordings 3/
Total system	3,503,249	4,782	42,731	111,382
Oahu	2,343,049	2,923	29,513	77,328
Hawaii State Library	520,434	1,300	4,275	16,728
East Oahu Library District	817,838	834	16,921	37,794
West Oahu Library District	862,156	688	8,203	19,557
Other islands	1,160,200	1,859	13,218	34,054
Hawaii Library District	528,171	688	6,366	10,689
Kauai Library District	257,177	371	3,423	11,068
Maui Library District 2/	374,852	800	3,429	12,297
Library for the Blind and Physically Handicapped 4/	142,621	101	114	3249

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

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

3/ Includes phonotapes and CDs.

4/ Includes print, braille, and recorded media.

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

**Table 3.26-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY
SYSTEM BY DISTRICTS: 1997**

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30	
Total system	49	512.05	7,601,927	
Oahu	23	287.50	5,149,345	
Hawaii State Library	1	81.00	739,583	
East Oahu Library District	12	109.00	2,494,776	
West Oahu Library District	9	82.00	1,874,962	
Library for the Blind and Physically Handicapped	1	15.50	40,024	
Other islands	26	127.55	2,452,582	
Hawaii Library District	13	58.55	1,203,235	
Kauai Library District	5	28.00	494,112	
Maui Library District 2/ Administration/Centralized Processing Center	8 ...	41.00 97.00	755,235 ...	
	Collections, June 30			
District	Books, video tapes & sound recordings	Periodical subscriptions	Video tapes	Sound recordings 3/
Total system	3,192,200	5,102	(NA)	(NA)
Oahu	2,175,179	3,085	(NA)	(NA)
Hawaii State Library	540,302	1,226	(NA)	(NA)
East Oahu Library District	882,689	1,091	(NA)	(NA)
West Oahu Library District	630,252	669	(NA)	(NA)
Other islands	1,017,021	2,017	(NA)	(NA)
Hawaii Library District	457,106	800	(NA)	(NA)
Kauai Library District	222,600	356	(NA)	(NA)
Maui Library District 2/ Library for the Blind and Physically Handicapped 4/	337,315 121,936	861 99	(NA) 152	(NA) 7

NA Not available

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

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

3/ Includes phonotapes and CDs.

4/ Includes print, braille, and recorded media.

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

Table 3.27-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1996 AND 1997

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1996	1997	1996	1997
All campuses	3,471,550	3,520,510	834,738	793,445
University of Hawaii at Manoa 1/	2,888,498	2,925,821	629,641	609,231
University of Hawaii-West Oahu	26,373	26,645	6,409	4,907
University of Hawaii at Hilo 2/	249,715	253,465	89,900	68,835
Community colleges, total 2/	306,964	314,579	108,788	110,472
Honolulu	54,230	54,815	10,199	8,815
Kapiolani	64,953	66,959	30,232	27,506
Leeward	62,084	63,259	20,225	16,433
Windward	35,995	36,706	16,401	12,844
Kauai	46,107	47,032	10,512	9,170
Maui	43,595	45,808	21,219	35,704

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

2/ Hawaii Community College and UHH West Hawaii campus are included with the University of Hawaii at Hilo.

Source: University of Hawaii at Manoa, University Libraries, records.

Section 4

LAW ENFORCEMENT, COURTS, AND PRISONS

Statistics in this section refer to victimization rates, crimes known to the police, stolen property, arrests, police personnel, attorneys, the judiciary system, prisons, and youth correctional facilities.

Statistics on law enforcement, courts, and prisons in Hawaii appear in the annual reports of the county police departments, the Hawaii State Judiciary, the Hawaii State Department of Public Safety, and the Administrative Office of the United States Courts. The Hawaii State Department of the Attorney General issues semi-annual crime summary reports. 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: 1997*, Section 5.

Table 4.01-- CRIME VICTIMIZATION, BY TYPE OF OFFENSE, AGE, SEX, AND BY COUNTIES: 1996

[Based on 784 complete responses to a questionnaire mailed to 1,325 licensed drivers]

County, sex, and age	Percent victimized 1/			Selected offenses	Percent victimized 1/	Percent of crimes reported to police
	Any crime	Property crime	Violent crime			
Total	54.5	49.4	12.2	Robbery	0.4	66.7
				Attempted robbery	1.4	11.0
County:				Assault	1.0	80.0
Honolulu	55.9	51.6	12.2	Threatened assault	5.1	38.2
Hawaii	52.1	43.1	15.6	Rape	1.0	33.0
Maui	51.6	48.5	5.0	Other sexual assault	0.6	50.0
Kauai	46.0	37.7	14.6	Vehicle theft	6.2	97.5
				Theft from vehicle	26.7	56.5
Sex:				Attempted theft from vehicle	14.7	40.2
Male	53.0	47.0	14.3	Burglary	11.2	74.4
Female	56.1	51.8	10.1	Attempted burglary	11.5	68.0
Age (years):						
16 to 18	66.7	53.8	16.7			
19 to 24	72.9	62.7	27.1			
25 to 34	60.4	55.8	17.6			
35 to 44	54.6	51.6	13.3			
45 to 54	53.3	48.7	10.3			
55 to 64	43.4	39.0	7.0			
65 to 74	47.3	43.2	1.5			
75 and over	48.8	44.4	2.6			

1/ One or more times in 1996.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, *Crime and Justice in Hawaii, 1997 Hawaii Household Survey Report* (January 1998).

**Table 4.02-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE
POLICE, BY COUNTIES: 1986 TO 1996**

[Part I offenses include murder, negligent manslaughter, forcible rape, robbery, aggravated assault, burglary, larceny-theft, motor vehicle theft, and arson. Actual offenses include reported or known offenses, less unfounded cases]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1986	60,652	57.7	46,779	5,370	2,428	6,075
1987	63,530	59.5	49,372	4,956	2,555	6,647
1988	65,665	60.8	49,589	5,938	2,548	7,590
1989	69,601	63.6	52,709	6,860	2,781	7,251
1990	67,957	61.1	51,175	7,518	2,605	6,659
1991	68,116	60.2	51,294	7,279	2,385	7,158
1992	71,258	62.0	53,826	6,940	2,502	7,990
1993	73,935	63.7	56,681	6,919	2,355	7,980
1994	79,190	67.5	61,158	7,162	2,383	8,487
1995	85,824	72.8	67,439	7,107	2,657	8,621
1996	78,314	66.2	60,352	6,889	2,987	8,086

1/ Annual rate per 1,000 resident population based on July 1 population estimates by the U.S. Bureau of the Census, as revised through Dec. 31, 1997.

Source: Department of the Attorney General, Crime Prevention and Justice Assistance Division, from police department annual reports and records. Negligent manslaughter statistics revised to exclude traffic cases. The revised manslaughter statistics, the numbers of arsons reported in Honolulu in 1986-1987, and the number of forcible rapes reported in Honolulu in 1989 were compiled from reports to the Uniform Crime Reporting (UCR) Program. Annual rates per 1,000 resident population calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 4.03-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1987 TO 1996

Offense	1987	1988	1989	1990	1991
All Part I offenses	63,530	65,665	69,601	67,957	68,116
Murder	52	44	53	44	45
Manslaughter (negligent) 1/	-	2	1	2	1
Forcible rape 2/	396	353	353	352	375
Robbery	1,043	914	908	1,016	986
Aggravated assault	1,364	1,502	1,427	1,605	1,338
Burglary	12,500	13,665	14,879	13,577	14,011
Larceny - theft	43,669	44,859	47,204	46,699	47,195
Motor vehicle theft	3,986	3,927	4,385	4,224	3,814
Arson 3/	520	399	391	438	351
Offense	1992	1993	1994	1995	1996
All Part I offenses	71,258	73,935	79,190	85,824	78,314
Murder	42	45	50	56	40
Manslaughter (negligent) 1/	-	1	3	-	-
Forcible rape 2/	440	394	359	336	326
Robbery	1,151	1,214	1,221	1,553	1,606
Aggravated assault	1,365	1,408	1,461	1,564	1,350
Burglary	13,006	13,310	14,029	13,832	12,781
Larceny - theft	50,544	51,912	55,260	59,907	54,701
Motor vehicle theft	4,351	5,283	6,383	8,199	7,157
Arson 3/	359	368	424	377	353

1/ Manslaughter offenses due to traffic accidents have been deleted for consistency in statewide reporting. However, arrests in connection with traffic fatalities are included in arrests for negligent manslaughter.

2/ The number of forcible rapes for 1989 has been revised, using updated figures from the Uniform Crime Reporting Program (UCR). (UCR figures for Honolulu offenses during the July-December 1989 period were revised late in 1990 due to the discovery of substantial over-reporting of forcible rapes.)

3/ Because Honolulu's method of reporting arson statistics prior to 1988 differed from the method used by other counties, UCR reports were the source of the 1987 arson statistic for Honolulu. The 1991 arson count for Honolulu was also adjusted to agree with Uniform Crime reports.

Source: Department of the Attorney General, Crime Prevention and Justice Assistance Division, primarily from annual reports of the county police departments unless otherwise indicated. For 1989 and 1990, statistics for Honolulu were compiled from a special report obtained specifically for this publication.

**Table 4.04-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES
CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE:
1986 TO 1996**

Year	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	Part I	Part II, except traffic 2/	Part I	Part II, except traffic 2/	Part I	Part II, except traffic 2/
1986	60,652	100,283	11,175	62,556	18.4	62.4
1987	63,530	107,259	12,245	66,416	19.3	61.9
1988	65,665	113,073	11,846	72,026	18.0	63.7
1989	69,601	120,461	9,592	63,279	13.8	52.5
1990	67,957	119,366	12,534	68,645	18.4	57.5
1991	68,116	116,746	14,253	74,608	20.9	63.9
1992	71,258	120,345	13,270	79,096	18.6	65.7
1993	73,935	115,494	11,274	74,477	15.2	64.5
1994	79,190	118,939	12,183	75,841	15.4	63.8
1995	85,824	121,629	11,660	80,461	13.6	66.2
1996	78,314	115,435	12,335	79,523	15.8	68.9

1/ Annual data on clearances include prior years' offenses cleared in the current year.

2/ Part II data include "hit and run" cases in Honolulu 1986-1988 and 1991. All traffic cases excluded for 1989-1990 and 1992-96.

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

**Table 4.05-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES
CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY
COUNTIES: 1995 AND 1996**

County	Actual offenses known to police		Number cleared by arrest or otherwise		Percent cleared	
	Part I 1/	Part II 2/	Part I 1/	Part II 2/	Part I 1/	Part II 2/
1995 total	85,824	121,629	11,660	80,461	13.6	66.2
Honolulu	67,439	80,749	7,765	50,820	11.5	62.9
Hawaii	7,107	12,716	1,904	8,585	26.8	67.5
Kauai	2,657	5,478	569	2,316	21.4	42.3
Maui	8,621	22,686	1,422	18,740	16.5	82.6
1996 total	78,314	115,435	12,335	79,523	15.8	68.9
Honolulu	60,352	71,006	8,000	46,355	13.3	65.3
Hawaii	6,889	13,989	1,968	9,967	28.6	71.2
Kauai	2,987	5,125	554	1,909	18.5	37.2
Maui	8,086	25,315	1,813	21,292	22.4	84.1

1/ Includes arson.

2/ Excludes traffic offenses.

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

Table 4.06-- MARIJUANA CONFISCATED OR DESTROYED WITH FEDERAL GRANTS FROM THE DEPARTMENT OF THE ATTORNEY GENERAL, BY COUNTIES: 1994

[Figures reflect only a percentage of the marijuana confiscated or destroyed by authorities throughout the State of Hawaii]

Subject	State total	Hawaii	Maui	Honolulu	Kauai
Plants, total	559,753	353,099	96,499	14,463	95,692
By police depts.	238,092	122,044	49,056	14,463	52,529
By DLNR	321,661	231,055	47,443	-	43,163
Value, total 2/ (mil. dol.)	671	423	115	17	114
By police depts.	285	146	58	17	63
By DLNR	386	277	57	-	51

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

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

**Table 4.07-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I
OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE
AND OAHU: 1995 AND 1996**

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
1995						
All Part I offenses	85,824	67,439	11,660	7,765	13.6	11.5
Murder	56	38	47	27	83.9	71.1
Manslaughter (neg.)	-	-	-	-	...	...
Rape	336	217	213	157	63.4	72.4
Robbery	1,553	1,371	400	317	25.8	23.1
Aggravated assault	1,564	1,256	724	521	46.3	41.5
Burglary	13,832	10,127	1,093	554	7.9	5.5
Larceny	59,907	46,696	8,241	5,478	13.8	11.7
Motor vehicle theft	8,199	7,440	895	678	10.9	9.1
Arson	377	294	47	33	12.5	11.2
1996						
All Part I offenses	78,314	60,352	12,335	8,000	15.8	13.3
Murder	40	27	35	24	87.5	88.9
Manslaughter (neg.)	-	-	-	-	...	...
Rape	326	222	216	149	66.3	67.1
Robbery	1,606	1,421	452	368	28.1	25.9
Aggravated assault	1,350	1,078	634	441	47.0	40.9
Burglary	12,781	9,026	1,266	653	9.9	7.2
Larceny	54,701	41,915	8,908	5,778	16.3	13.8
Motor vehicle theft	7,157	6,370	781	558	10.9	8.8
Arson	353	293	43	29	12.2	9.9

1/ Includes offenses committed in prior years.

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

**Table 4.08-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES,
BY AGE AND SEX, AND BY COUNTIES: 1995**

Subject	State total	Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	12,736	9,241	1,723	1,126	646
Juveniles	4,070	2,710	611	401	348
Male	2,778	1,845	423	243	267
Female	1,292	865	188	158	81
Adults	8,666	6,531	1,112	725	298
Male	6,578	4,989	804	545	240
Female	2,088	1,542	308	180	58
PART II OFFENSES (EXCEPT TRAFFIC)					
Total	57,253	41,695	6,229	5,271	4,058
Juveniles	14,610	10,508	1,863	935	1,304
Male	8,700	6,164	1,143	613	780
Female	5,910	4,344	720	322	524
Adults	42,643	31,187	4,366	4,336	2,754
Male	34,796	25,437	3,544	3,634	2,181
Female	7,847	5,750	822	702	573

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

**Table 4.09-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES,
BY AGE AND SEX, FOR COUNTIES: 1996**

Subject	State total	Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	12,509	8,891	1,779	1,176	663
Juveniles	4,493	2,963	726	441	363
Male	2,950	2,006	444	279	221
Female	1,543	957	282	162	142
Adults	8,016	5,928	1,053	735	300
Male	5,936	4,407	764	555	210
Female	2,080	1,521	289	180	90
PART II OFFENSES (EXCEPT TRAFFIC)					
Total	53,344	38,145	6,894	5,221	3,084
Juveniles	13,023	9,407	1,625	916	1,075
Male	7,525	5,463	936	548	578
Female	5,498	3,944	689	368	497
Adults	40,321	28,738	5,269	4,305	2,009
Male	32,926	23,669	4,150	3,506	1,601
Female	7,395	5,069	1,119	799	408

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

Table 4.10-- CHILD ABUSE AND NEGLECT REPORTS: 1990 TO 1996

Subject	1990	1991	1992	1993	1994	1995	1996
Reports	4,407	4,365	4,568	4,753	5,186	4,984	4,775
Confirmed	2,392	2,318	2,485	1/ 2,411	2,334	2,317	2,268

1/ Revised.

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

Table 4.11-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1986 TO 1996

Year	Locally stolen motor vehicles			Other stolen property		
	Value stolen (\$1,000)	Value recovered 1/		Value stolen (\$1,000)	Value recovered 1/	
		Amount (\$1,000)	Percent		Amount (\$1,000)	Percent
1986	11,491.6	7,857.3	68.4	28,236.2	1,931.2	6.8
1987	13,222.5	10,021.0	75.8	32,071.0	3,089.0	9.6
1988	15,956.0	12,312.1	77.2	37,895.0	1,965.8	5.2
1989	11,067.8	7,397.7	76.2	45,311.0	2,310.9	5.1
1990	10,152.1	7,752.2	76.4	41,026.4	1,824.3	4.4
1991	8,231.7	6,584.4	80.0	57,399.0	2,650.3	4.6
1992	7,806.9	6,439.5	82.5	50,186.9	3,177.5	6.3
1993	10,604.6	7,703.6	72.6	52,523.6	2,957.9	5.6
1994	12,130.1	9,283.5	76.5	56,242.1	3,355.1	6.0
1995	14,916.3	11,821.0	79.2	59,467.6	2,978.2	5.0
1996	17,884.9	13,933.6	77.9	59,619.9	3,538.0	5.9

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

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

**Table 4.12-- VALUE OF PROPERTY STOLEN AND VALUE OF STOLEN
PROPERTY RECOVERED, BY COUNTIES: 1995**

Subject	State total	Honolulu	Hawaii	Maui	Kauai
Value of property stolen (1,000)	74,383.9	59,683.5	3,598.7	9,136.7	1,965.0
Motor vehicles	14,916.3	11,422.4	619.5	2,387.2	487.2
Other property	59,467.6	48,261.1	2,979.2	6,749.5	1,477.8
Value of stolen property recovered 1/ (\$1,000)	14,799.2	10,844.2	672.5	2,941.0	341.5
Motor vehicles	11,821.0	9,059.9	483.2	1,990.7	287.3
Other property	2,978.2	1,784.3	189.4	950.3	54.3
Percent of value recovered	19.9	18.2	18.7	32.2	17.4
Motor vehicles	79.2	79.3	78.0	83.4	59.0
Other property	5.0	3.7	6.4	14.1	3.7

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

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

**Table 4.13-- CRIME RATES FOR THE UNITED STATES AND HAWAII:
1995 AND 1996**

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

Type of offense	U.S. rate		Hawaii rate		Hawaii rank 1/	
	1995	1996	1995	1996	1995	1996
All index offenses 2/	5,275.9	5,078.9	7,248.5	6,590.4	4	6
Violent crime	684.6	634.1	297.7	280.8	42	40
Property crime	4,591.3	4,444.8	6,950.8	6,309.6	3	4

1/ Out of 50 States and D. C.

2/ Excluding arson and negligent manslaughter.

Source: Hawaii State Department of the Attorney General, Crime Prevention and Justice Assistance Division, records; U.S. Department of Justice, Federal Bureau of Investigation.

**Table 4.14-- AUTHORIZED POLICE PERSONNEL, BY COUNTIES:
DECEMBER 1997**

Year and status	State total	Honolulu	Hawaii	Kauai	Maui
Total	3,654	2,537	506	176	435
Sworn, active	2,750	1,927	357	141	325
Sworn, reserve	123	108	15	-	-
Not sworn	781	502	134	35	110

Source: County police departments, records.

**Table 4.15-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:
1995 TO 1997**

[As of June 30]

Subject	1995	1996	1997
Federal judges and magistrates: 1/			
U.S. Bankruptcy Court	1	1	1
U.S. District Court	8	7	7
State justices and judges: 1/			
Supreme Court	5	5	5
Intermediate Court of Appeals	4	4	4
Circuit Courts 2/	29	29	29
Assigned to Family Court	2	2	2
District Courts 3/	35	35	35
Assigned to Family Court	13	13	13
Land Court	(4/)	(4/)	(4/)
Tax Appeal Court	(4/)	(4/)	(4/)
Attorneys licensed in Hawaii 5/	5,514	5,717	5,892
Active	4,026	4,063	4,132
Inactive	1,488	1,634	1,760

1/ Authorized full-time positions.

2/ Includes two judges assigned to the Family Court, a division of the Circuit Courts. In addition, Circuit Court judges may be assigned to hear matters before the Land Court and Tax Appeal Court, both of which are specialized courts separate from the Circuit Courts. There are four Circuit Courts, convened in five locations.

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

4/ Caseload assigned to Circuit Court judges.

5/ Data for all years include judges. The 1997 data are as of September 17.

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

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

[Data for 1991, 1992 and 1993 are revised]

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

1/ Year ended June 30.

2/ Year ended September 30.

3/ Excludes transfers.

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

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

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

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

**Table 4.17-- UNITED STATES BANKRUPTCY COURT CASES FILED
UNDER CHAPTER 7 AND CHAPTER 13 OF THE BANKRUPTCY
CODE: 1987 TO 1997**

[Only cases on the caseload as of 1/29/98 were included in the table. The category of a case is based upon chapter designation as of 1/29/98. Therefore, the chapter under which a case is placed in this table may differ from the chapter under which it was originally filed]

Year	Chapter 7 1/			Chapter 13 2/		
	Total	Business	Personal	Total	Business	Personal
1987	864	141	723	66	5	61
1988	770	97	673	58	2	56
1989	780	100	680	75	3	72
1990	781	59	722	68	-	68
1991	1,004	52	952	56	-	56
1992	1,292	100	1,192	64	2	62
1993	1,389	155	1,234	71	7	64
1994	1,470	113	1,357	77	6	71
1995	1,909	135	1,774	100	6	94
1996	2,823	141	2,682	237	11	226
1997	4,012	131	3,881	402	17	385

1/ Chapter 7 cases involve the bankruptcy trustee's gathering and sale of the debtor's nonexempt assets, from which holders of claims will receive distributions in accordance with the provisions of the Bankruptcy Code. (Excerpt taken from Bankruptcy Division Public Information Series, Administrative Office of the United States Courts).

2/ Chapter 13 is designed for individuals with regular income who desire to pay their debts but are currently unable to do so. The primary benefit of Chapter 13 relief is the ability to repay creditors, in full or in part, in installments over a three to five year period, during which time creditors are prohibited from starting or continuing collection efforts. (Excerpt taken from Bankruptcy Division Public Information Series, Administrative Office of the United States Courts).

Source: United States Bankruptcy Court of the District of Hawaii, records.

Table 4.18-- STATE JUDICIARY TERMINATIONS: 1992 TO 1997

[Years ended June 30]

Court and type of case	1992	1993	1994	1995	1996	1997
Supreme Court 1/ Civil cases	2,409	2,649	2,939	3,166	2,825	3,254
Criminal cases	184	126	277	371	269	348
Other proceedings	233	95	87	225	230	315
	1,992	2,428	2,575	2,570	2,326	2,591
Intermediate Court of Appeals 2/ Civil cases	249	188	230	189	246	579
Criminal cases	41	31	34	43	62	135
Other proceedings	97	89	75	64	72	189
	111	68	121	82	112	255
Circuit Courts proper Civil cases	16,152	14,724	13,161	14,209	18,991	12,399
Criminal cases	7,095	7,368	5,389	5,873	9,284	5,498
Part I offenses	3,610	3,665	4,164	5,874	4,437	4,239
Part II offenses	1,433	1,370	1,442	1,599	1,671	1,748
Other proceedings	2,177	2,295	2,722	4,275	2,766	2,491
	5,447	3,691	3,608	2,462	5,270	2,662
Family Courts Civil cases	47,661	51,015	47,419	56,629	63,257	53,330
Criminal cases	12,497	12,161	12,617	13,430	16,533	16,755
Other proceedings	5,274	4,269	2,926	7,363	6,368	6,617
	29,890	34,585	31,876	35,836	40,356	29,958
District Courts Civil cases	869,581	666,042	599,046	529,357	497,163	494,027
Traffic cases	29,314	24,103	22,202	23,005	22,347	21,359
Other violations	790,361	595,178	536,532	460,381	427,932	430,906
Criminal cases	11,349	7,728	5,659	5,150	4,677	3,542
Part I offenses	38,557	39,033	34,653	40,821	42,207	38,220
Part II offenses	5,849	5,894	5,139	5,771	6,093	6,258
	32,708	33,139	29,514	35,050	36,114	31,962

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 253 in 1992, 311 in 1993, 294 in 1994, 219 in 1995, 163 in 1996, and 127 in 1997.

2/ Data exclude cases transferred back to the Supreme Court: 2 in 1992, 1 in 1994, 38 in 1995, 35 in 1996, and 9 in 1997.

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

**Table 4.19-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1995 TO 1997**

[Years ended June 30]

Court and type of action	1995	1996	1997
Supreme Court, total	3,378	3,066	3,262
Primary cases	940	878	822
Appeals	859	813	743
Original proceedings	81	65	79
Supplemental proceedings	2,438	2,188	2,440
Intermediate Court of Appeals, total	296	252	320
Primary cases	220	163	132
Appeals	220	163	132
Supplemental proceedings	76	89	188
Circuit Courts Proper, total	15,802	15,630	16,185
Primary proceedings	15,802	15,630	16,185
Civil actions	7,573	7,390	7,642
Probate proceedings	1,243	1,287	1,344
Guardianship proceedings	461	526	643
Miscellaneous proceedings	1,811	1,953	1,595
Criminal actions	4,714	4,474	4,961
Part I offenses	1,817	1,871	1,962
Part II offenses	2,897	2,603	2,999
Family Courts, total	58,729	57,553	48,465
Primary proceedings and referrals	48,700	45,180	35,913
Marital actions and proceedings	6,582	6,163	5,915
Uniform reciprocal enforcement of support	621	628	586
Adoption proceedings	438	508	641
Parental proceedings	2,358	2,616	2,636
Domestic Abuse Protective Orders (Ch. 586) 1/	2,928	2,553	2,859
Miscellaneous proceedings	2,328	2,596	2,457
Criminal actions	5,500	4,841	4,815
Adults' referrals	8,772	8,725	(2/)
Children's referrals	19,173	16,550	16,004
Supplemental proceedings	10,029	12,373	12,552

Footnote and source on next page.

**Table 4.19-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1995 TO 1997 -- Con.**

Court and type of action	1995	1996	1997
District Court, total	554,365	552,378	566,282
Civil	25,450	24,583	25,111
Regular civil	19,750	19,053	19,538
Small claims	5,700	5,530	5,573
Traffic	478,688	475,159	490,282
Moving - arrest and citation	92,075	98,268	125,336
Non-moving	71,642	84,352	102,098
Parking	314,971	292,539	262,848
Other violations	5,961	4,889	4,507
Criminal actions	44,266	47,747	46,382
Part I offenses	5,973	6,560	6,621
Part II offenses	38,293	41,187	39,761

NA Not available.

1/ Domestic Abuse Protective Orders (HRS Chapter 586) were previously listed under "Miscellaneous Proceedings."

2/ Adult's referrals are no longer being reported.

Source: The Judiciary, State of Hawaii, annual reports.

**Table 4.20-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:
ANNUAL AVERAGES, 1987 TO 1997**

[Mean head count for fiscal years ended June 30]

Year	Total 1/	Adult facilities 1/				Juvenile facilities 2/	
		Sentenced felons	Sentenced jail 3/	Not sentenced	Technical violators 4/	Boys	Girls
1987	2,094	1,429	202	374	...	79	10
1988	2,194	1,414	219	484	...	63	14
1989	2,193	1,428	206	494	...	56	9
1990	2,382	1,482	212	629	...	53	6
1991	2,430	1,462	239	667	...	52	10
1992	2,600	1,434	274	597	233	55	7
1993	5/ 2,824	1,480	294	647	297	58	6
1994	2,881	1,534	285	705	286	64	7
1995	3,039	1,537	246	805	368	67	16
1996	6/ 3,070	6/ 1,488	243	853	436	7/ 44	7/ 6
1997	8/ 3,450	8/ 1,557	343	994	498	50	8

1/ As of 1996, includes nine facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers; Kulani Correctional Facility, Special Needs Facility, Halawa Medium 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.

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

5/ Includes "other jurisdiction" population (42).

6/ Excludes 277 sentenced felons incarcerated in two Texas correctional facilities.

7/ On September 5, 1995, a new secure facility with a ceiling of 30 beds was first occupied. Also, more use is being made of residential programs in the community.

8/ Excludes 600 sentenced felons incarcerated in three Texas correctional facilities.

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

Table 4.21-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED FELON POPULATION: 1987 TO 1997

[Years ended June 30. These data cover only sentenced felons under the jurisdiction of the State's correctional facilities, in hospitals, in mainland facilities, and on community release status. Parolees are not included. Average sentence calculations include life with parole sentences]

Year	Median age (years) 1/		Average sentences (months)		
	At admission	Currently as of June 30	Felons admitted		Felons released: time served
			Minimum	Maximum	
1987	27.0	31.0	45.9	115.6	2/ 40.3
1988	29.0	29.0	46.9	115.9	2/ 39.4
1989	30.1	28.7	43.9	132.6	2/ 43.9
1990	30.2	30.7	45.1	122.6	2/ 42.8
1991	32.1	33.6	44.6	140.5	36.1
1992	31.9	34.6	41.6	128.5	37.8
1993	32.3	34.1	40.2	119.5	34.3
1994	31.4	34.0	45.2	129.3	33.7
1995	32.3	34.4	46.1	110.0	38.8
1996	33.4	33.9	39.5	105.0	34.0
1997	33.3	34.3	51.2	3/ 106.0	38.9

1/ For sentenced felon population on June 30.

2/ Average time served did not include sentenced felons with unknown offenses.

3/ Average based on statutory maximum sentences for each offense grade.

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

**Table 4.22-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:
1994 TO 1997**

[Years ended June 30]

Item	1994	1995	1996	1997
Number of parolees, June 30 1/	1,663	1,694	1,769	1,804
Parolees in Hawaii	1,150	1,172	1,249	1,376
Parolees outside Hawaii 2/	286	298	219	251
In institution	48	53	45	54
Whereabouts unknown (cumulative)	133	236	244	123
Administrative cases	171	63	12	-
Minimum imprisonment terms fixed	1,812	1,993	2,159	2,558
Number of persons for whom minimum terms fixed	589	663	695	852
Number of parole consideration hearings	(NA)	(NA)	2,082	1,931
Persons considered for parole	1,199	1,239	1,135	1,356
Paroles tentatively granted	665	712	622	713
Paroles denied/deferred/continued	534	527	1,460	1,207
Parole violation hearings	392	501	446	482
Parole revocations	311	427	316	376
Continued on parole/deferred	81	74	130	106
Pardon investigations	40	35	32	24
Persons recommended for pardon	(NA)	(NA)	11	21
Persons pardoned	14	13	(NA)	(NA)
Persons whose paroles were suspended because their whereabouts unknown	133	236	244	123
Discharges from parole	285	244	272	287
Full parole term before discharge	156	165	153	179
Early discharge approved	126	74	110	101
Deceased	3	5	9	7

NA Not available.

1/ In addition, provided courtesy supervision to 44 interstate cases as of June 30, 1997.

2/ Includes Hawaii cases on reciprocal parole supervision on U.S. Mainland as well as Hawaii cases who are on the U.S. Mainland or Foreign countries receiving some or no supervision but not suspended or absconded. Also includes cases in protective custody. In 1994 and 1995, Hawaii cases on reciprocal parole supervision on the U.S. Mainland were not counted in the number of parolees on June 30 and so for the aforementioned years, the subcategories do not sum to the total.

Source: Hawaii State Department of Public Safety, Hawaii Paroling Authority, annual reports.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, and other geographic and environmental measurements of Hawaii. Most statistics on land use and ownership, however, appear in Section 6.

Important sources of data include the U.S. Geological Survey, the National Ocean Survey, the National Climatic Data Center, the Division of Water Resource Management of the Hawaii State Department of Land and Natural Resources, the Hawaii State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in *Atlas of Hawaii*, 2nd edition, published by the University of Hawaii Press in 1983. National data are reported in the *Statistical Abstract of the United States: 1997*, Section 6.

Table 5.01-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES

Places	Statute miles	Nautical miles	Kilometers
DISTANCES FROM HONOLULU INTERNATIONAL AIRPORT			
Hawaiian Islands locations:			
Hilo, Hawaii	214	186	344
Kailua, Kona, Hawaii	168	146	270
Kahului, Maui	98	85	158
Lanai Airport	72	63	116
Molokai Airport	54	47	87
Lihue, Kauai	103	90	166
Puuwai, Niihau	152	132	245
Nihoa	283	246	455
Necker Island	520	452	837
French Frigate Shoals	556	483	895
Gardner Pinnacles	688	598	1,107
Maro Reef	851	739	1,369
Laysan Island	936	813	1,506
Lisianski Island	1,065	925	1,714
Pearl and Hermes Atoll	1,208	1,050	1,944
Midway Islands	1,309	1,137	2,106
Kure Atoll	1,367	1,188	2,200
Other Pacific locations:			
Apra Harbor, Guam	3,806	3,307	6,124
Auckland, New Zealand	4,393	3,817	7,068
Baker Island	1,900	1,649	3,058
Hong Kong	5,541	4,815	8,915
Howland Island	1,900	1,649	3,058
Jarvis Island	1,560	1,354	2,511
Johnston Atoll	820	713	1,319
Kingman Reef	1,073	932	1,726
Kiritimati (Christmas Island), Kiribati	1,344	1,168	2,163
Majuro, Marshall Islands	2,271	1,973	3,654
Manila, Philippines	5,293	4,599	8,516
Nuku Hiva, Marquesas Islands	2,400	2,086	3,864
Pago Pago, American Samoa	2,606	2,265	4,193
Palmyra Atoll	1,101	957	1,772
Papeete, Tahiti	2,741	2,382	4,410
Suva, Fiji	3,159	2,745	5,083
Sydney (Port Jackson), Australia	5,070	4,406	8,158
Tokyo, Japan	3,847	3,343	6,190
Wake Island	2,294	1,993	3,691

Continued on next page.

Table 5.01-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES -- Con.

Places	Statute miles	Nautical miles	Kilometers
DISTANCES FROM HONOLULU INT. AIRPORT--Con.			
North and South American locations:			
Anchorage, Alaska	2,781	2,417	4,475
Cape Horn, Chile	7,457	6,480	11,998
Chicago, Illinois	4,179	3,631	6,724
Cristobal, Canal Zone	5,214	4,531	8,389
Los Angeles, California	2,557	2,222	4,114
Miami, Florida	4,856	4,220	7,813
New York, New York	4,959	4,309	7,979
Portland, Oregon	2,595	2,255	4,175
San Diego, California	2,610	2,268	4,199
San Francisco, California	2,397	2,083	3,857
Seattle, Washington	2,679	2,328	4,311
Vancouver, B.C.	2,709	2,354	4,359
Tijuana, Mexico	2,616	2,273	4,209
Washington, D.C.	4,829	4,196	7,770
London, England	7,226	6,279	11,627
Bombay, India	8,010	6,960	12,888
Ghanzi, Botswana 1/	12,417	10,790	19,979
Equator, due south of Honolulu	1,470	1,277	2,367
North Pole	4,740	4,119	7,631
OTHER DISTANCES			
Hilo to --			
Los Angeles, California	2,447	2,126	3,937
San Francisco, California	2,315	2,012	3,725
Kure Atoll to --			
Cape Kumukahi, Puna, Hawaii 2/	1,523	1,323	2,451
Log Point, Elliot Key, Florida 3/	5,852	5,085	9,416
Tokyo, Japan	2,486	2,160	4,000
West Quoddy Head, Maine	5,788	5,030	9,313

1/ Ghanzi, Botswana is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

2/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

3/ Log Point and Kure Atoll are the points farthest apart in the 50 states.

Source: U.S. Department of the Interior, Geological Survey, *Elevations and Distances in the United States* (1980), pp. 22-23, and records; E. H. Bryan, Jr., *American Polynesia and the Hawaiian Chain* (1942), pp. 38, 42, and 134.

Table 5.02-- LATITUDES AND LONGITUDES OF SELECTED PLACES

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

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

**Table 5.03-- TIME DIFFERENTIALS BETWEEN HONOLULU AND
SELECTED CITIES: 1998**

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

Source: GTE Hawaiian Telephone Company, *Oahu Telephone Book June 1998-1999*, pp. 32, 35.

Table 5.04-- WIDTHS AND DEPTHS OF CHANNELS

Channel 1/	Width 2/		Depth 3/	
	Statute miles	Kilometers	Feet	Meters
Alenuihaha (Hawaii-Maui)	29.6	47.6	6,810	2,076
Alalakeiki (Kahoolawe-Maui)	6.7	10.8	822	251
Kealaikahiki (Kahoolawe-Lanai)	17.8	28.6	1,086	331
Auau (Lanai-Maui)	9.5	15.3	252	77
Kalohi (Lanai-Molokai)	9.2	14.8	540	165
Pailolo (Maui-Molokai)	8.8	14.2	846	258
Kaiwi (Molokai-Oahu)	25.8	41.5	2,202	671
Kauai (Oahu-Kauai)	72.1	116.0	10,890	3,319
Kaulakahi (Kauai-Niihau)	17.2	27.7	3,570	1,088
Niihau-Kaula	21.5	34.6	5,364	1,635
Niihau-Nihoa	133.9	215.5	14,550	4,435
Nihoa-Necker I.	179.6	289.0	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	12,780	3,895
French Frigate Shoals-Gardner Pinnacles	137.0	220.5	11,448	3,489
Gardner Pinnacles-Marø Reef	155.5	250.3	12,300	3,749
Marø Reef-Laysan I.	65.9	106.1	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	15,840	4,828
Midway Islands-Kure Atoll	57.1	91.9	12,960	3,950

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

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

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

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

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

Table 5.05-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands: 4/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/	25	40	25	40
Niihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

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

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

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

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

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

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

**Table 5.06-- LAND AND WATER AREA WITHIN
THE FISHERY CONSERVATION ZONE**

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the
Hawaiian Archipelago]

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

Source: Marine Surveys and Maps, National Ocean Survey, National Oceanic and Atmospheric Administration, information supplied September 15, 1978.

Table 5.07-- LAND AND WATER AREA OF COUNTIES: 1990

[See maps on pages 6 and 7]

Measurement unit and type of area	State total	Hawaii	Maui	Kalawao	Honolulu	Kauai
Square miles:						
Land	6,423.4	4,028.2	1,159.3	13.2	600.2	622.5
Inland water 1/	35.9	4.4	3.6	-	19.0	8.9
Territorial water 2/	4,472.4	1,054.3	1,236.0	39.1	1,507.8	635.1
Square kilometers:						
Land	16,636.5	10,433.1	3,002.5	34.2	1,554.5	1,612.2
Inland water 1/	92.9	11.5	9.3	-	49.2	22.9
Territorial water 2/	11,583.4	2,730.7	3,201.2	101.3	3,905.2	1,644.9
Acres:						
Land	4,110,966	2,578,073	741,933	8,451	384,125	398,383
Inland water 1/	22,976	2,816	-	2,304	12,160	5,696
Territorial water 2/	2,862,336	674,752	791,040	25,024	964,992	406,464

1/ Lakes, streams, reservoirs, etc. Includes Pearl Harbor.

2/ Within three miles of coast.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 15, and unpublished records.

Table 5.08-- LAND AREA OF ISLANDS: 1990

Island	Square miles 1/	Square kilometers	Acres 1/
STATE OF HAWAII	6,423.4	16,636.5	4,110,966
Hawaii	4,028.2	10,433.1	2,578,073
Maui	727.3	1,883.7	465,472
Molokini	0.036	0.093	23
Kahoolawe	44.6	115.5	28,543
Lanai	140.5	364.0	89,946
Molokai	260.0	673.5	166,425
Oahu	597.1	1,546.5	382,148
Kauai	552.3	1,430.5	353,484
Niihau	69.5	179.9	44,455
Lehua	0.444	1.149	284
Kaula	0.247	0.640	158
Northwestern Hawaiian Islands 2/	3.108	8.049	1,989
Nihoa	0.271	0.701	173
Necker Island	0.071	0.183	45
French Frigate Shoals	0.096	0.249	62
Gardner Pinnacles	0.009	0.024	6
Maro Reef	Awash	Awash	Awash
Laysan Island	1.588	4.114	1,017
Lisianski Island	0.601	1.556	384
Pearl and Hermes Atoll	0.139	0.359	89
Kure Atoll	0.333	0.863	213
OTHER ISLANDS 3/			
Baker, Howland, and Jarvis Islands	2.9	7.5	1,853
Johnston Atoll	1.1	2.8	692
Kingman Reef	0.4	1.0	247
Midway Islands	2.5	6.4	1,581
Palmyra Atoll	4.6	11.9	2,941

1/ Areas in square miles and acres were calculated directly from measurements in .001 square kilometers and independently rounded. 1 square mile = 640 acres = 2.58999 square kilometers.

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

3/ In central Pacific, not legally part of the State of Hawaii.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), table 15; *Population and Housing Unit Counts, United States*, 1990 CPH-2-1 (October 1993), table 1; Summary Tape File 1B; and letter from Geography Division, March 30, 1992.

**Table 5.09-- MAJOR AND MINOR ISLANDS IN THE
HAWAIIAN ARCHIPELAGO**

Classification	Number of islands		Land area (square miles)
	Total	Inhabited, 1990 1/	
All named islands	137	12	6,427.0
Major islands	8	7	6,419.4
Named minor islands 2/	129	5	7.6
Offshore of major islands	96	3	2.6
Northwestern Hawaiian Islands 3/	33	2	4.9
Part of State	28	1	2.9
Not part of State (Midway Islands)	5	1	2.0

1/ For populations, see present volume, table 1.05.

2/ For individual data, see DPED Report GN-6, pp. 3-7.

3/ Includes individual islets in the 10 Northwestern Hawaiian Islands.

Source: Hawaii State Department of Planning and Economic Development, *Geographic Names Approved, Second Quarter 1969* (Report GN-6, July 8, 1969), p. 8; *Data Book 1986*, table 152.

Table 5.10-- AREA AND DEPTH OF SELECTED CRATERS

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

1/ Data exclude North and South Pits.

2/ Data exclude Koolau and Kaupo Gaps.

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

Table 5.11-- ELEVATIONS OF MAJOR SUMMITS

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

Island and summit	Feet	Meters
Hawaii:		
Mauna Kea 1/	13,796	4,205
Mauna Loa	13,679	4,169
Hualalai	8,271	2,521
Kaumu o Kaleihoohe	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Puu Moaulanui	1,483	452
Puu Moaulaiki	1,434	437
Molokini	160	49
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,366	1,026
Molokai:		
Kamakou	4,961	1,512
Olokui	4,606	1,404
Kalaupapa Lookout	1,600	488
Mauna Loa (Kukui)	1,430	436
Oahu:		
Kaala	4,003	1,220
Puu Kalena	3,504	1,068
Konahuanui	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Koko Head	642	196
Punchbowl	500	152

Continued on next page.

Table 5.11-- ELEVATIONS OF MAJOR SUMMITS -- Con.

Island and summit	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Sleeping Giant (Nonou)	1,241	378
Niihau:		
Paniau	1,250	381
Lehua	699	213
Kaula	548	167
Nihoa:		
Millers Peak	903	275
Necker Island:		
Summit Hill	276	84
French Frigate Shoals:		
La Perouse Pinnacles	120	37
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	40	12
Lisianski Island	40	12
Pearl and Hermes Atoll	10	3
Midway Islands	12	4
Kure Atoll	20	6

1/ According to the *1995 Guinness Book of Records* (p. 147), "The world's tallest mountain measured from its submarine base (3,280 fathoms) in the Hawaiian Trough to its peak is Mauna Kea ... with a combined height of 33,480 ft., of which 13,796 ft. are above sea level."

Source: Hawaii State Department of Accounting and General Services, Survey Division, data provided April 21, 1992; U.S. National Cartographic Information Center, data provided October 11, 1978; U.S. Geological Survey topographic maps, 1981-1984; Hawaiian Government Survey (for Nihoa and Molokini); U.S.S. Tanager survey, 1923 (for Necker Island, French Frigate Shoals, Laysan, Lisianski, Pearl and Hermes Atoll and Kure Atoll.)

Table 5.12-- MAJOR NAMED WATERFALLS, BY ISLANDS: 1994

Island	Waterfall	Height (feet)		Horizontal distance (feet)
		Sheer drop	Cascade	
Hawaii	Kaluahine	...	620	400
	Akaka	442	...	...
	Waiilikahi	320	...	6
Maui	Honokohau	...	1,120	500
	Waihiumalu	...	400	150
Molokai	Kahiwa	...	1,750	1,000
	Papalaua	...	1,200	500
	Waialele	...	500	150
Oahu	Kaliuwaa (Sacred)	1/ 80	1,520	3,000
Kauai	Waipoo (2 falls)	...	800	600
	Awini	...	480	500
	Hinalele	280	...	...
	Wailua	200	...	...

1/ Refers to northernmost fall of a cascade of six falls.

Source: U.S. Geological Survey, records; Hawaii State Department of Land and Natural Resources, Division of Water Resource Management, records; "Tall Falls," *The Honolulu Advertiser*, June 25, 1995, pp. A17 and A20.

Table 5.13-- MAJOR STREAMS, BY ISLANDS: 1994

Island	Feature or stream	Length or average discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge 2/ (million gal./day):		
Hawaii	Wailuku River	250
Maui	Iao Stream	43
Molokai	Wailau Stream	30
Oahu	Waikele Stream	3/ 27
Kauai	Hanalei River	140

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

2/ Most recent available year.

3/ Most of discharge is from nearby groundwater outflow.

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

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

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

NA Not available.

SL Sea level.

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

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

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

Table 5.15-- LENGTH AND WIDTH OF SELECTED BEACHES

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

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

NA Not available.

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

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

Table 5.16-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLAND

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more 1/	Miles from coast of most remote point	Percent of area within 5 miles of coast
State total	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	65.0
Niihau	8	6	3	2.4	100.0
	Percent of area with elevation --			Percent of area with slope --	
	Less than 500 feet	2,000 feet or more	Approximate mean altitude (feet)	Less than 10 percent	20 percent or more
State total	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0.0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0.0	530	68.0	12.5

1/ According to Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by *The Guinness Book of Records* (1995 edition, p. 154) as "the highest sea cliffs in the world."

Source: Hawaii State Department of Planning and Economic Development, *Hawai'i the Natural Environment* (1974), p. 19; U.S. Geological Survey, *Elevations and Distances in the United States* (1978), pp. 4-5.

Table 5.17-- VOLCANIC ERUPTIONS: 1969 TO 1997

[Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active in recent years and included in this table. Complete through December 31, 1997]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Elevation (meters)	Area (square km.)	Volume (mil. cubic meters)
Mauna Loa:						
1975: July 5	301	<1	S	3,900	13.5	30.0
1984: March 25	104	22	S, ER	4,030-2,870	28.5	176.0
Kilauea:						
1969: Feb. 22	4.0	6	ER	930-870	6.0	16.1
May 24	2.0	874	ER	940	50.0	185.0
1971: Aug. 14	-	<1	C	1,100-1,080	3.1	9.1
Sept. 24	-	5	C, SWR	1,120-820	3.9	7.7
1972: Feb. 3	4.3	900	ER	940	46.0	162.0
1973: May 5	-	<1	ER	1,000-980	0.3	1.2
Nov. 10	-	30	ER	980-870	1.0	2.7
1974: July 19	-	3	C, ER	1,080-980	3.1	6.6
Sept. 19	2.0	<1	C	1,100	1.0	10.2
Dec. 31	3.4	<1	SWR	1,080	7.5	14.3
1975: Nov. 29	11.0	<1	C	1,080-1,060	0.3	0.2
1977: Sept. 13	21.5	18	ER	620-480	7.8	32.9
1979: Nov. 16	26.3	1	ER	980-960	0.3	0.6
1982: April 30	29.5	<1	C	1,080	0.3	0.5
Sept. 25	4.8	<1	C	1,080	0.8	3.0
1983: Jan. 3 2/	3.3	5,476	ER	780-650	99.5	1,622.0

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

2/ Still in progress. As of December 31, 1997, there had been 55 separate episodes. These had destroyed 181 housing units and added 570 acres to the area of the island.

Source: Gordon A. Macdonald, Agatin T. Abbott, and Frank L. Peterson, *Volcanoes in the Sea*, 2nd ed. (1983), pp. 64-65 and 80-81; U.S. Geological Survey, Hawaiian Volcano Observatory, records.

Table 5.18-- MAJOR EARTHQUAKES: 1838 TO 1997

[Includes all earthquakes with magnitudes of 6.0 or greater, 1839 to 1983, and 5.0 or greater, 1984 to 1997. Except for the earthquake of April 2, 1868, magnitudes of earthquakes prior to 1929 are conjectural. Complete through December 31, 1997]

Date and time (HST)	Location	Magnitude (Richter scale)
1838: December 12	Hawaii	6.0
1841: April 7	Hawaii	6.0
1852: March 31	Hawaii	6.0
1868: March 28	Hawaii	6.5
April 2	Hawaii	7.5
1871: February 19	Molokai or Maui	6.5
1875: November 23	Hawaii	6.0
1887: January 24	Hawaii	6.0
1913: October 25	Hawaii	6.5
1918: November 1	Hawaii	6.5
1919: September 14	Hawaii	6.5
1929: October 5	Hawaii	6.5
1938: January 23	N. of Pauwela Point, Maui	6.75
1940: June 17	Hawaii	6.0
1941: September 28	Hawaii	6.0
1950: May 30	Hawaii	6.25
1951: April 23	Hawaii	6.5
August 21	Hawaii	6.9
1952: May 23	Hawaii	6.0
1954: March 30	Hawaii	6.0
March 30	Hawaii	6.5
1961: September 25	Hawaii	5.75-6
1962: June 28	Hawaii	6.1
1973: April 26	Honolulu, Hawaii	6.2
1975: Nov. 29, 4:47 AM	Puna, Hawaii	7.2
1983: Nov. 16, 6:13 AM	S.E. flank of Mauna Loa	6.7
1984: June 8, 5:34 PM	80 miles S. of Honolulu	5.3
1986: April 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
1989: June 25, 5:27 PM	Kalapana area	6.1
1994: Feb. 1, 12:01 AM	Offshore, 12 miles S. of Kilauea	5.2
1997: June 30, 5:47 AM	S. flank of Kilauea, 15 miles S.E. of Kilauea summit	5.1

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, *A Study of Past Earthquakes, Isoleismic Zones of Intensity and Recommended Zones for Structural Design for Hawaii* (University of Hawaii, Center for Engineering Research, Engineering Bulletin, June 15, 1972); information supplied by Wm. Mansfield Adams and Augustine S. Furumoto, Institute of Geophysics, University of Hawaii; Hawaii Institute of Geophysics, records; U.S. Geological Survey, National Earthquake Information Service; U.S. Geological Survey, Hawaiian Volcano Observatory, records.

**Table 5.19-- EARTHQUAKES WITH HONOLULU INTENSITIES OF
V OR GREATER: 1859 TO 1997**

[Complete through December 31, 1997]

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

NA Not available.

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

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

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

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

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

Source: Doak C. Cox, "Earthquake Experience in Honolulu," *The Hawaiian Journal of History*, Vol. 21 (1987), pp. 98-109; U.S. Geological Survey, Hawaiian Volcano Observatory, records.

**Table 5.20-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:
1819 TO 1997**

[Complete through December 31, 1997]

Date	Place of observation	Maximum height in Hawaii 1/		Deaths in Hawaii	Damage in Hawaii
		Meters	Feet		
1819: April 12 2/	W. Hawaii	2.0	7	-	Unknown
1837: Nov. 7	Hilo	6.0	20	16	200 houses
1841: May 17	Hilo	4.6	15	-	Unknown
1868: April 2	Ka'u	12.2	40	47	Great locally
Aug. 14	Hilo	4.6	15	-	Severe
1869: Aug. 24	S.E. Puna	9.1	30	-	Some
1877: May 10	Hilo	4.9	16	5	Severe; \$14,000
1878: Jan. 20	N. Oahu	3.0	10	-	Some houses
1896: June 15	Kona	9.1	30	-	Unknown
1906: Jan. 31	Hilo	3.6	12	-	None
Aug. 16	Maalaea	3.6	12	-	Some
1919: April 9	S. Kona	4.3	14	-	None
April 30	Ka'u	4.2	14	-	None
1922: Nov. 11	Hilo	2.1	7	-	Minor
1923: Feb. 4	Hilo	6.1	20	1	Severe; \$1,500,000
1924: May 30	Lanai	5.0	16	-	Great locally
1933: March 2	Kona	2.9	10	-	Some
1946: April 1	N.E. Hawaii	17.0	56	159	\$26,000,000
1952: Nov. 4	Hawaii	6.1	20	-	\$800,000-1,000,000
1957: March 9	Haena	16.0	52	1	\$5,000,000
1960: May 22	Hilo	10.5	34	61	\$23,000,000
1964: March 27	N. Oahu	4.8	16	-	\$67,590
1975: Nov. 29	Ka'u	14.6	48	2	\$1,500,000

1/ Data before 1946 are approximate and probably low in many cases.

2/ Earliest tsunami for which definite information exists. A tsunami observed at Ho'okena in 1813 or 1814 may have exceeded two meters.

Source: George Pararas-Carayannis, *Catalog of Tsunamis in the Hawaiian Islands* (U.S. Coast and Geodetic Survey, May 1969); Harold G. Loomis, *The Tsunami of November 29, 1975 in Hawaii* (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, *Local Tsunamis and Possible Local Tsunamis in Hawaii* (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977); Doak C. Cox, *Tsunami Casualties and Mortality in Hawaii* (University of Hawaii, Environment Center, June 1987), p. 39; U.S. Geological Survey, Hawaiian Volcano Observatory, records.

Table 5.21-- MAJOR DAMS: 1994

Name	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre-ft.)
Wahiawa Dam	Wahiawa, Oahu	98	460	7,761
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai	58	7,100	4,265
Alexander Dam	Kalaheo, Kauai	119	600	2,500
Ho'omaluhia Dam	Luluku, Oahu	132	2,200	2,500
Nuuanu No. 4	Honolulu, Oahu	73	1,730	1,420
Waimanalo Dam	Waimanalo, Oahu	62	2,118	182

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

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

[Million gallons per day]

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

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

**Table 5.23-- WATER SERVICES AND CONSUMPTION, FOR COUNTY
WATERWORKS: 1995 TO 1997**

[As of June 30]

Geographic area	Number of services			Consumption (million gallons)		
	1995	1996	1997	1995	1996	1997
State total	226,998	229,989	230,952	74,990	75,389	71,810
City and County of Honolulu	150,247	152,184	152,692	51,004	51,343	48,624
Honolulu 1/	61,025	61,091	61,180	25,469	25,376	24,420
Rest of Oahu	89,222	91,093	91,512	25,535	25,967	24,204
Hawaii County	32,828	33,094	33,094	8,378	8,363	7,804
Kauai County	16,463	16,793	16,860	4,114	4,206	3,944
Maui County	27,460	27,918	28,306	11,494	11,477	11,438
Maui	25,960	26,409	26,795	11,150	11,138	11,110
Molokai	1,500	1,509	1,511	344	339	328

1/ Maunaloa to Moanalua.

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

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

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

1/ Among the 50 States.

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

**Table 5.25-- HAZARDOUS WASTE SITES ON THE NATIONAL PRIORITY LIST:
1992 TO 1996**

[Includes both proposed and final sites]

Subject	1992	1993	1994	1995	1996
Number of sites	2	3	4	4	1/ 4
Rank (among the 50 states)	47	47	46	45	45

1/ The national 50-State total was 1,245 sites in 1996.

Source: EPA data cited in *Statistical Abstract of the United States* for 1993 (p. 228), 1994 (p. 235), 1995 (p. 237), 1996 (p. 238), and 1997 (p. 238).

Table 5.26-- POLLUTION ABATEMENT CAPITAL EXPENDITURES AND OPERATING COSTS: 1990 TO 1994

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

Subject and year	Total, including nonmedia	Media				Nonmedia and other
		Total	Air	Water	Solid/ contained waste	
Capital expenditures:						
1990	(NA)	23.2	12.6	(D)	(D)	(NA)
1991	(NA)	4.0	1.8	(D)	(D)	(NA)
1992	2.8	2.8	.5	2.3	-	(Z)
1993	37.3	37.2	1.8	35.3	-	.2
1994	5.7	4.7	2.6	2.1	(Z)	1.1
Operating costs:						
1990	(NA)	12.0	3.5	(D)	(D)	(NA)
1991	(NA)	15.8	(D)	9.0	(D)	(NA)
1992	16.2	12.8	3.3	4.6	4.9	3.4
1993	15.2	12.3	(D)	4.4	(D)	2.8
1994	21.7	20.3	7.4	8.9	4.1	1.4

D Withheld to avoid disclosing data for individual companies.

Z Less than half the unit shown.

NA Not available.

Source: U.S. Bureau of the Census, *Current Industrial Reports, Pollution Abatement Costs and Expenditures, 1994*, MA200(94)-1, May 1996, table 2.

**Table 5.27-- WATER QUALITY AT PUBLIC BEACHES, BY ISLANDS:
1996 AND 1997**

Island	Number of locations	Number of samples	Enterococci density 1/			
			Lowest 2/	Highest 3/	Number over 7	Mean 4/
1996						
State total	170	2,548	1.0	278.3	26	4.1
Hawaii	47	491	1.0	66.3	5	3.2
Hilo Shoreline	21	231	1.7	66.3	3	4.5
Kona Shoreline	26	260	1.0	7.4	2	2.4
Maui	48	570	1.2	26.0	2	2.3
Lanai	2	4	1.0	2.6	0	1.6
Molokai	2	2	2.0	5.0	0	3.2
Oahu	42	1,139	1.0	278.3	11	5.6
Kauai	29	342	1.0	186.4	8	5.5
1997						
State total	162	2,480	1.0	236.9	28	3.8
Hawaii	46	533	1.0	124.0	6	3.0
Hilo Shoreline	21	244	1.2	124.0	5	4.7
Kona Shoreline	25	289	1.0	7.8	1	2.1
Maui	46	523	1.0	23.1	4	2.5
Lanai	2	4	6.6	28.3	1	13.7
Molokai	0	0	-	-	-	-
Oahu	38	1,091	1.0	236.9	10	5.2
Kauai	30	329	1.0	77.8	7	3.8

1/ Geometric mean, number per 100 ml. The geometric mean standard for Enterococci density is 7 per 100 ml.

2/ The lowest average value in 1996 was reported at multiple beaches on the islands of Hawaii, Kauai, Lanai and Oahu. The lowest average value in 1997 was reported at multiple beaches on the islands of Hawaii, Kauai, Maui and Oahu.

3/ The highest average value in 1996 was that reported for the Ala Wai Canal at the McCully Street Bridge on Oahu. The highest average value in 1997 was that reported for the Ala Wai Canal at the Ala Moana Bridge on Oahu.

4/ Not weighted by number of samples.

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

**Table 5.28-- WATER QUALITY AT SELECTED PUBLIC BEACHES:
1996 AND 1997**

Island and beach	Number of samples		Enterococci density 1/	
	1996	1997	1996	1997
Hawaii:				
Hapuna Beach	14	13	1.3	1.5
Kahaluu Beach	12	12	4.9	3.3
Kealakekua Bay (curio stand)	11	11	1.8	2.1
Hilo Bay (Mooheau Park)	-	-	-	-
Spencer Beach Park	11	12	7.3	5.7
Maui:				
Kapalua (Fleming) Beach (north)	12	10	1.7	2.8
Kihei (north)	12	10	1.5	1.8
Makena Beach	12	11	1.4	1.0
Seven Pools	10	10	2.3	1.1
Sheraton Kaanapali (shoreline)	12	11	1.5	1.1
Lanai:				
Hulopoe Bay	2	2	1.0	6.6
Molokai:				
Kaunakakai Harbor	1	-	2.0	-
Oahu:				
Ala Moana Park (center)	2	-	1.0	-
Ewa Beach Park	-	-	-	-
Haleiwa Beach	23	22	3.0	5.6
Hanauma Bay	47	44	4.6	5.0
Kailua Beach Park	15	42	10.6	3.7
Kuhio Beach	46	42	10.9	10.9
Makaha Beach	-	-	-	-
Waimea Beach	47	41	5.6	3.5
Kauai:				
Anini Park Pavilion	12	11	4.2	4.1
Kalapaki Beach (middle)	13	11	20.5	7.2
Kekaha (Oomano Pt.)	12	11	1.7	1.2
Poipu Beach Pavilion	12	11	1.5	1.4
West of Lydgate Park (wading pool)	13	11	2.5	1.5

1/ Geometric mean, number per 100 ml. The geometric mean standard for Enterococci density is 7 per 100 ml.

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

**Table 5.29-- REFUSE AND SEWAGE STATISTICS FOR OAHU:
1987 TO 1997**

[Fiscal years]

Year	Tons of municipal solid waste delivered 1/			Sewage treated 2/ (millions of gallons)
	Total	City and County refuse vehicles	Other vehicles	
1987	678,392	380,810	297,582	38,199
1988	739,820	403,528	336,292	39,757
1989	778,673	302,851	474,822	39,918
1990	825,058	276,178	548,880	41,763
1991	1,015,842	293,857	721,985	44,484
1992	1,049,647	331,269	718,378	42,705
1993	1,023,113	322,901	700,212	42,415
1994	1,017,367	331,602	685,765	42,756
1995	1,017,709	325,381	692,328	43,175
1996	959,793	288,057	671,736	41,403
1997	945,081	302,078	643,003	42,616

Year	Sewage pumped 2/ (millions of gallons)	Miles of sewers 2/	City and County pump stations	City and County treatment plants
1987	49,542	1,752	57	17
1988	51,713	1,769	59	17
1989	51,623	1,805	59	14
1990	50,858	1,828	62	13
1991	52,849	1,859	64	13
1992	53,290	1,890	65	12
1993	52,480	1,914	67	11
1994	53,298	1,945	69	8
1995	53,088	1,893	64	8
1996	52,114	1,910	65	8
1997	54,197	1,940	63	8

1/ Excludes small landfill controlled by armed forces.

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

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

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

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

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

Table 5.31-- AIR QUALITY IN DOWNTOWN HONOLULU: 1986 TO 1996

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

Year	Particulates	Sulfur oxides	Year	Particulates	Sulfur oxides
1986	25	<5	1992	28	<5
1987	26	<5	1993	21	<5
1988	26	<5	1994	21	<5
1989	30	<5	1995	20	<5
1990	30	<5	1996	23	<5
1991	30	<5			

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

Table 5.32-- AIR QUALITY AT SPECIFIED LOCATIONS: 1996

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

Sampling station	PM 10			Sulfur dioxide		
	Annual range		Arithmetic average	Annual range		Arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Downtown Honolulu	1	28	14	0	18	3
Liliha	1	33	16	...	...	...
Pearl City	0	27	14	...	...	...
Kapolei	11	52	19	0	14	2
Makaiwa	...	...	...	0	20	1
West Beach	12	32	18	0	25	3
Waimanalo	10	30	16	...	...	...
Kauai:						
Lihue	9	41	20	...	...	...

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

**Table 5.33-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT
MAUNA LOA: ANNUAL MEAN VALUES, 1958 TO 1997**

[Parts per million]

Year	Annual average	Year	Annual average	Year	Annual average
1958	1/ 315.17	1972	327.26	1986	347.21
1959	315.83	1973	329.45	1987	348.98
1960	316.75	1974	1/ 329.72	1988	351.34
1961	317.49	1975	3/ 331.14	1989	352.89
1962	318.30	1976	332.04	1990	354.26
1963	318.83	1977	333.79	1991	355.45
1964	2/ 319.04	1978	335.35	1992	356.20
1965	319.87	1979	336.73	1993	356.90
1966	321.21	1980	338.72	1994	358.70
1967	322.02	1981	340.12	1995	360.62
1968	322.83	1982	341.21	1996	362.40
1969	323.93	1983	342.87	1997	363.54
1970	325.27	1984	344.48		
1971	326.17	1985	345.85		

1/ Based on data for 8 months.

2/ Based on data for 9 months.

3/ Based on data for 11 months.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Geophysical Monitoring for Climatic Change, records; provided by Saul Price, National Weather Service, Pacific Region, Honolulu (for 1958-1991) and Mauna Loa Observatory (for 1992-1997).

Table 5.34-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature 1/ (°F)		Extreme temperature of record (°F)		Average annual precipitation (inches)
		Coollest month	Warmest month	Lowest	Highest	
Hawaii:						
Hilo Airport	30	71.2	75.9	53	94	128
Hawaii Volcanoes Nat. Park Hdq.	3,970	57.6	63.2	31	93	101
Naalehu	800	70.2	75.1	50	93	47
Kailua	30	72.1	77.3	54	93	25
Puako 2/	5	73.1	79.8	52	98	10
Waimea (Kamuela)	2,670	61.3	66.8	34	90	31
Honokaa	1,070	67.6	75.5	(NA)	(NA)	86
Mauna Kea summit 3/	13,796	31.3	42.5	11	66	20
Maui:						
Hana Airport	60	71.4	77.3	50	94	83
Haleakala summit	10,025	42.6	50.0	14	73	44
Kihei 4/	85	70.9	78.4	49	98	13
Kahului Airport	40	71.5	79.2	48	96	20
Lahaina	45	71.5	78.0	52	97	15
Molokai:						
Kaunakakai	10	(NA)	(NA)	(NA)	(NA)	14
Molokai Airport	450	70.2	77.6	48	91	27
Lanai:						
Lanai City	1,620	65.8	72.8	46	88	37

Continued on next page.

Table 5.34-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature 1/ (°F)		Extreme temperature of record (°F)		Average annual precipitation (inches)
		Coollest month	Warmest month	Lowest	Highest	
Oahu:						
Honolulu International Airport	10	72.6	81.0	53	94	23
Waikiki (Honolulu Zoo)	10	72.8	80.3	51	95	25
Manoa (Lyon Arboretum)	500	69.9	76.1	49	96	158
Kaneohe (State Hospital)	200	71.0	77.5	43	93	71
Kahuku	25	71.6	78.8	49	95	40
Wheeler AFB	845	68.2	75.5	52	89	40
Waianae	10	72.1	79.7	45	96	20
Kauai:						
Kilauea (town)	315	68.7	75.6	49	94	68
Lihue Airport	100	71.3	79.1	50	90	44
Poipu (Makahuena Pt.)	50	72.1	79.4	50	95	35
Kekaha	9	71.0	78.5	48	95	21
Kokee (Kanalohuluhulu)	3,600	54.7	63.8	29	86	70
Northwestern Hawaiian Islands:						
Midway	10	65.0	78.6	52	89	44

NA Not available.

1/ For some stations, data represent 30-year normals.

2/ Temperature data are for Mahukona.

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

4/ Temperature data refer to Puunene Airport.

Source: Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data supplied February 14, 1995.

**Table 5.35-- CLIMATIC NORMALS, MEANS, AND EXTREMES FOR HILO,
KAHULUI, HONOLULU, AND LIHUE AIRPORTS**

Subject	Hilo	Kahului	Honolulu	Lihue
Normal temperatures (°F):				
Daily maximum	81.5	83.9	84.4	81.2
Daily minimum	66.4	67.2	70.0	69.9
Monthly: Coolest month	71.7	71.7	72.9	71.6
Warmest month	76.3	79.3	81.4	79.5
Annual	74.0	75.6	77.2	75.6
Extreme temperatures (°F):				
Record highest	94	97	95	90
Record lowest	53	48	53	50
Normal degree days, base 65°F:				
Heating	-	-	-	-
Cooling	3,284	3,883	4,474	3,883
Precipitation (inches):				
Normal	129.19	20.92	22.02	43.00
Maximum monthly	50.82	14.46	20.79	22.91
Minimum monthly	0.28	0.00	T	T
Maximum in 24 hours	22.30	7.01	17.07	11.54
Normal relative humidity (percent)	79	73	68	75
Wind speed (m.p.h.):				
Mean	7.4	15.0	11.4	12.7
Peak gust	55	54	51	115
Percent of possible sunshine	40	67	70	58
Mean number of days:				
Clear	35.5	130.5	89.7	55.6
Partly cloudy	130.3	145.2	178.5	182.1
Cloudy	196.2	89.5	93.3	124.1
Precipitation .01 inch or more	273.3	100.2	100.7	199.8
Thunderstorms	9.7	4.0	6.7	7.8
Temperature maximum 90° and above	1.0	23.5	31.4	0.1

T Trace amount.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1996* for Hilo, Kahului, Honolulu, and Lihue.

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

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

Continued on next page.

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

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

T Trace amount.

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

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

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

Table 5.37-- AVERAGE TEMPERATURE, PERCENT OF POSSIBLE SUNSHINE, AND PRECIPITATION, FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1950 TO 1996

Year	Average temperature (°F)	Percent of possible sunshine	Precipitation (inches)	Year	Average temperature (°F)	Percent of possible sunshine	Precipitation (inches)
1950	75.7	(NA)	31.68	1974	77.5	61	24.02
1951	76.3	(NA)	39.73	1975	76.2	62	24.39
1952	75.4	(NA)	10.65	1976	76.8	60	12.90
1953	75.9	71	9.97	1977	78.2	68	12.36
1954	75.8	68	27.30	1978	76.8	69	25.05
1955	74.5	62	37.86	1979	77.0	68	16.93
1956	75.9	69	21.23				
1957	76.0	72	24.22	1980	77.5	69	26.90
1958	75.3	70	35.02	1981	77.1	72	13.41
1959	76.7	70	14.14	1982	76.9	56	34.92
				1983	77.2	64	5.03
1960	76.7	70	12.07	1984	78.1	71	17.08
1961	77.2	81	14.26	1985	76.9	69	17.38
1962	76.5	71	13.58	1986	78.3	77	13.93
1963	76.7	64	37.91	1987	77.9	73	23.53
1964	77.0	63	20.12	1988	78.5	75	16.47
1965 1/	76.1	74	42.78	1989	77.5	79	27.52
1966 1/	77.6	68	23.18				
1967 1/	77.6	58	34.34	1990	77.6	77	19.84
1968 1/	77.9	63	37.26	1991	77.7	67	17.94
1969 1/	77.4	68	22.50	1992	77.8	(NA)	19.00
				1993	77.1	88	5.84
1970 1/	78.2	72	15.49	1994	78.8	89	15.59
1971 1/	76.1	70	26.64	1995	79.3	89	13.60
1972	76.2	65	26.94	1996	78.6	(NA)	33.12
1973	77.2	63	14.24				

NA Not available.

1/ Site conditions produced distorted temperature measurements from 1965 to 1971.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual, 1950-1996).

**Table 5.38-- AVERAGE DAILY TEMPERATURE AND DAYS WITH MAXIMUM
OF 90° OR HIGHER; FOR HONOLULU INTERNATIONAL AIRPORT:
1971 TO 1996**

Year	Average daily maximum (°F)	Days 90° or higher	Year	Average daily maximum (°F)	Days 90° or higher
1971	82.7	-	1984	85.5	63
1972	83.2	3	1985	84.6	53
1973	84.4	10	1986	86.2	64
1974	85.0	25	1987	85.7	93
1975	83.6	1	1988	86.1	70
1976	84.1	9	1989	85.2	34
1977	85.2	16	1990	84.0	47
1978	84.2	13	1991	84.9	35
1979	84.7	51	1992	85.2	28
1980	84.6	22	1993	84.5	23
1981	84.6	9	1994	85.5	85
1982	83.5	27	1995	86.8	116
1983	85.1	44	1996	84.0	69

Source: National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual report, 1971-1996).

**Table 5.39-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT:
ANNUALLY, 1986 TO 1996**

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1986	78.3	72.6	82.9	56	94	13.93
1987	77.9	71.2	82.9	55	94	23.53
1988	78.5	73.1	82.1	57	94	16.47
1989	77.5	72.9	81.9	56	92	27.52
1990	77.6	71.5	82.3	57	93	19.84
1991	77.7	72.4	82.4	55	93	17.94
1992	77.8	72.9	82.2	58	92	19.00
1993	77.1	70.9	81.3	54	93	5.84
1994	78.8	72.0	84.3	56	95	15.59
1995	79.3	73.4	83.4	56	94	13.60
1996	78.6	74.0	82.8	56	93	33.12

Year	Relative humidity (percent)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 a.m.	2 p.m.	Annual average	Peak gust		
1986	74	55	10.1	41	77	88
1987	70	54	9.9	41	73	99
1988	71	53	9.8	39	75	88
1989	72	55	10.5	41	79	82
1990	69	54	11.2	46	77	109
1991	69	53	10.0	39	67	86
1992	71	55	9.5	49	(NA)	98
1993	70	53	10.9	46	88	76
1994	72	55	11.9	51	89	80
1995	74	57	10.7	41	89	81
1996	73	56	9.6	40	(NA)	106

NA Not available.

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

Table 5.40-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F)	February	Mauna Kea summit	23.5
Lowest monthly average daily temp. (°F)	February	Mauna Kea summit	31.3
Highest monthly average maximum temp. (°F)	September	Kawaihae 1/	91.9
Highest monthly average daily temp. (°F)	September	Kawaihae 1/	80.8
Lowest average annual rainfall (inches)		Kawaihae	8.7
Highest average annual rainfall (inches)		Waialeale	444
Single events:			
Lowest temperature of record (°F)	Jan. 20, 1970	Mauna Kea summit 2/	1.4
Highest temperature of record (°F)	April 27, 1931	Pahala	100
Lowest annual rainfall of record (inches)	1953	Kawaihae	0.2
Highest annual rainfall of record (inches)	1982	Waialeale	666
Highest wind speed of record (m.p.h.)	Sept. 11, 1992	Makahuena Pt. 3/	143

1/ Puukohola Heiau National Historical Site, Kawaihae, Hawaii.

2/ Recorded by Dr. Alfred Woodcock 60 meters inside the Mauna Kea summit cone, at 6:50 a.m. The rim at that time had a temperature of 39°F.

3/ Makahuena Point Coast Guard Station, Poipu, Kauai.

Source: Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, Climatological Section, data supplied February 14, 1995.

**Table 5.41-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY,
1986 TO 1996**

[In inches]

Year	Hawaii				Maui		
	Hilo Airport	Lalamilo	Kona Village	Naalehu	Kahului Airport	Kihei	Lahaina
1986	171.03	34.67	12.41	64.55	18.39	7.25	7.38
1987	142.41	19.43	10.24	49.13	24.31	14.03	19.72
1988	140.19	12.52	11.70	38.21	26.79	17.03	14.91
1989	166.71	(NA)	13.32	74.79	40.63	27.00	26.95
1990	211.22	23.54	19.80	89.83	35.20	19.17	19.84
1991	153.04	15.73	8.88	44.45	16.09	6.62	11.11
1992	119.89	12.72	9.90	40.57	16.98	11.03	9.73
1993	114.49	20.67	5.91	40.56	12.69	5.82	11.76
1994	182.81	11.87	4.62	63.34	13.93	5.61	8.02
1995	85.92	6.04	5.72	26.55	13.45	8.21	6.30
1996	120.21	25.35	24.70	59.07	31.00	22.32	22.81

Year	Oahu				Kauai		
	Waikiki	University of Hawaii	Nuuanu Res. 4	Kaneohe 1/	Koloa	Lihue Airport	Princeville
1986	22.39	32.39	120.60	77.66	64.64	27.99	90.28
1987	27.56	46.52	134.29	77.79	72.53	42.95	94.61
1988	24.50	(NA)	124.42	81.10	63.23	43.06	77.10
1989	(NA)	39.53	129.50	88.20	87.81	56.77	116.65
1990	26.15	40.66	137.81	131.69	73.27	39.37	86.44
1991	26.10	42.83	115.02	90.59	71.30	41.63	82.01
1992	(NA)	35.10	118.58	(NA)	52.53	50.17	(NA)
1993	16.92	24.14	81.62	63.55	52.98	22.27	48.02
1994	20.16	33.68	125.48	77.34	60.73	32.99	72.15
1995	12.25	20.98	99.26	67.78	56.76	46.57	86.94
1996	29.96	42.11	116.76	99.28	(NA)	56.14	85.53

NA Not available.

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

Source: U.S. Department of Commerce, National Climatic Data Center, *Climatological Data, Annual Summary, Hawaii and Pacific* (annual); and Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records.

Table 5.42-- MAJOR HURRICANES: 1950 TO 1997

[Complete to November 5, 1997]

Hurricane name	Date 1/	Islands most affected	Maximum recorded winds ashore (m.p.h.)		Deaths	Property damage (mil. dol.)
			Sustained	Peak gusts		
Hiki	Aug. 15-17, 1950	Kauai	68	(NA)	1	0.2
Della	Sept. 4, 1957	French Frigate Shoals	82	109	-	Minor
Nina	Dec. 1-2, 1957	Kauai	(NA)	92	1	0.1
Dot	Aug. 6, 1959	Kauai	81	103	-	5.5+
Fico	July 18-20, 1978	Hawaii	(NA)	58+	-	0.2
Iwa	Nov. 23, 1982	Kauai, Oahu	65	117	1	234.0
Estelle	July 22, 1986	Maui, Hawaii	(NA)	55	-	2.0
Iniki	Sept. 11, 1992	Kauai, Oahu	92	143	8	1,900

NA Not available.

1/ Period affecting the Hawaiian Islands.

Source: Samuel L. Shaw, *A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979* (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981); Hawaii State Department of Defense, Civil Defense Division, *Catalogue of Natural and Man-Caused Incidents and Disasters in the Hawaiian Islands* (December 1978); The Governor's Ad Hoc Committee on the Economic Impact of Hurricane Iwa, *Hurricane Iwa's Economic Impact on Hawaii* (January 1983); "The History of Hurricanes in Hawaii," *Honolulu Star-Bulletin*, July 18, 1983, p. A-5; "20-Foot Waves Hit Big Isle As Storm Brushes Coastline," *The Honolulu Advertiser*, July 23, 1986, pp. A1, A2; "Hawaii Hurricanes," *Honolulu Star-Bulletin*, August 4, 1988, p. A-8; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records.

**Table 5.43-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN
HAWAIIAN WATERS, BY MONTHS**

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature 4/ (°F)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan.	42	9	1	19	74.7	71.1
Feb.	55	7	1	16	75.6	70.3
March	61	10	1	12	76.5	71.8
April	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June	91	7	15	-	81.1	77.7
July	95	10	16	-	81.1	78.3
Aug.	94	7	15	-	81.9	79.2
Sept.	83	4	10	2	81.9	78.4
Oct.	71	4	1	12	81.1	77.2
Nov.	64	8	-	19	79.3	74.5
Dec.	57	9	-	20	75.9	71.4
Annual	73	92	71	110	78.6	74.8

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

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

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

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

Source: Paul Haraguchi, *Weather in Hawaiian Waters* (Honolulu: Pacific Weather, Inc., 1979), pp. 14, 22, 56, and 74; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data provided February 14, 1995.

Table 5.44-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[In Fahrenheit degrees]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1983.*

Table 5.45-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT SELECTED LOCATIONS, AT BEGINNING OF EACH SEASON: 1997

[Hawaiian Standard Time]

Subject	Hilo	Kahului	Honolulu	Lihue	Barking Sands
Sunrise (a.m.):					
March 20	6:24	6:29	6:35	6:41	6:42
June 20	5:42	5:45	5:50	5:55	5:56
Sept. 22	6:09	6:15	6:21	6:26	6:28
Dec. 21	6:51	6:58	7:05	7:12	7:14
Sunset (p.m.):					
March 20	6:32	6:37	6:43	6:49	6:51
June 20	7:02	7:10	7:16	7:23	7:25
Sept. 22	6:16	6:21	6:27	6:33	6:35
Dec. 21	5:47	5:50	5:55	6:00	6:01
Hours of daylight:					
March 20	12:08	12:08	12:08	12:08	12:09
June 20	13:20	13:25	13:26	13:28	13:29
Sept. 22	12:07	12:06	12:06	12:07	12:07
Dec. 21	10:56	10:52	10:50	10:48	10:47

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

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

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

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

Source: Bishop Museum Planetarium, records.

**Table 5.47-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE
HONOLULU AREA: 1994 TO 1997**

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

Species	1994	1995	1996	1997
All species:				
Species	49	43	46	57
Individual birds	20,112	10,220	9,781	17,836
Endemic species: 1/				
'Apapane	153	105	6	16
Hawaiian Coot	64	37	62	58
Hawaiian Stilt	388	100	155	148
Oahu 'Amakihi	118	62	34	38
Indigenous species: 2/				
Great Frigatebird	33	60	111	23
Red-footed Booby	1,640	1,044	1,246	125
Alien species: 3/				
Cattle Egret	235	120	231	40
Common Myna	2,527	1,265	1,146	2,136
Common Waxbill	856	339	622	1,117
House Sparrow	392	349	244	480
Japanese White-eye	913	300	303	547
Java Sparrow	2,053	1,096	396	1,754
Red-vented Bulbul	2,302	582	710	1,743
Rock Dove	79	86	239	304
Spotted Dove	1,259	889	703	1,239
Zebra (Barred) Dove	3,506	1,713	1,424	3,505
Visitor species: 4/				
Pacific Golden-Plover	1,201	815	763	1,351
Ruddy Turnstone	422	365	340	288

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

2/ Native to Hawaii, but also found elsewhere.

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

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

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

Table 5.48-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA, BY TYPE OF SPECIES: 1995 TO 1997

[Annual changes reflect differences in numbers of bird counters and counting time in the field, as well as changes in bird populations. Party-hours in the field numbered 102 in 1994, 73 in 1995, 54 in 1996, and 80 in 1997. Totals by species are also affected by the types of habitats studied]

Type of species	Number of species			Number of individuals		
	Dec. 1995	Dec. 1996	Dec. 1997	Dec. 1995	Dec. 1996	Dec. 1997
All species	43	46	57	10,220	9,781	17,836
Endemic	6	7	7	312	277	281
Indigenous	6	5	4	1,154	1,463	171
Alien	21	26	34	7,535	6,881	15,695
Visitor	10	8	12	1,219	1,160	1,689

Source: Hawaii Audubon Society, records.

**Table 5.49-- TREES ALONG STREETS OR IN PARKS UNDER THE
JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1992 TO 1997**

[As of June 30]

Location	1992	1993	1994 2/	1995	1996	1997
Along City and County streets and highways 1/	127,056	130,458	131,817	132,286	134,270	135,626
In City and County parks	98,685	99,025	99,412	100,377	101,063	102,083

1/ Excludes Federal, State, and private thoroughfares.

2/ Revised.

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

Table 5.50-- ESTIMATED NUMBER OF SPECIES IN HAWAII: 1995 TO 1997

[Excludes viruses and bacteria]

Category	Species		
	1995	1996	1997
Total in Hawaii and surrounding waters	21,383	22,077	22,462
Endemic to Hawaii	8,759	8,805	8,864
Nonindigenous protists, fungi, plants, and animals	4,532	4,573	4,598
Terrestrial	15,000	(NA)	(NA)
Found in fresh water	300	(NA)	(NA)
Marine-inhabiting	5,500	6,500	(NA)

NA: Not available.

Source: A. Allen, S. E. Miller and G. M. Nishida, "Hawaii Biological Survey: a model for the Pacific Region," *Marine and Coastal Biodiversity in the Tropical Island Pacific Region*, Volume I (1995): 349-355, East-West Center and Pacific Science Association, Honolulu; L. G. Eldredge and S. E. Miller, "How many species are there in Hawaii?," *Bishop Museum Occasional Papers* 41 (1995): 3-18; L. G. Eldredge and S. E. Miller, "Numbers of Hawaiian species: Supplement 2, including a review of freshwater invertebrates," *Bishop Museum Occasional Papers* 48 (1997): 3-22; L. G. Eldredge and S. E. Miller, "Numbers of Hawaiian species: Supplement 3, with notes on fossil species," *Bishop Museum Occasional Papers* 55 (1998): 3-15.

**Table 5.51-- THREATENED AND ENDANGERED SPECIES, FOR THE
UNITED STATES AND HAWAII: 1995**

Geographic area	Total	Bird	Mammal	Plant	Snail
Hawaii	273	31	2	199	41
Niihau	8	1	1	6	-
Kauai	83	13	2	68	-
Oahu	129	7	2	79	41
Molokai	59	6	1	52	-
Lanai	42	4	1	37	-
Kahoolawe	4	-	-	4	-
Maui	78	12	2	64	-
Hawaii	67	14	2	51	-
United States	...	88	...	526	...

Source: *National Geographic*, September 1995, pp. 14-15.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in Section 7, military land in Section 10, agriculture in Section 19, forests in Section 20, and sugar cane land in Section 22.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 339,757 acres to 688,130.

Tabulations by the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Hawaii State Department of Land and Natural Resources, Hawaii State Department of Business, Economic Development & Tourism and its Land Use Commission, City and County of Honolulu Department of Finance, and City and County of Honolulu Planning Department provided the data for this section. *Historical Statistics of Hawaii*, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 6, 7, and 23 of the *Statistical Abstract of the United States: 1997*.

Table 6.01-- LAND OWNERSHIP, COVER, OR USE: 1982 TO 1992

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

Land ownership, cover, or use	1982 1/	1987 1/	1992	
			Estimated value	Sampling variation 2/
Total surface area	4,093.3	4,093.3	4,093.3	227.8
LAND OWNERSHIP				
Federal land 3/	350.8	430.4	431.9	131.1
Nonfederal land	3,701.5	3,621.8	3,620.8	236.2
Developed	123.4	128.5	149.8	29.2
Rural	3,578.1	3,493.3	3,471.0	237.7
Water area	41.0	41.1	40.6	22.9
LAND COVER OR USE				
Cropland	303.1	294.1	274.3	43.1
Cultivated	268.2	252.2	228.6	39.3
Noncultivated	34.9	41.9	45.7	20.0
Grazing land	1,019.7	996.6	1,013.4	132.7
Forest land	1,575.3	1,538.4	1,482.5	199.4
Minor land cover/uses	656.8	643.0	680.4	189.0
All other land cover/uses	538.4	621.2	642.7	132.7

1/ Revised from *Data Book 1993-94*, table 6.1.

2/ 95-percent confidence interval, plus or minus.

3/ Includes ceded land; excludes leased land and submerged land.

Source: U.S. Department of Agriculture, Natural Resources Conservation Service (formerly the Soil Conservation Service), 1992 National Resources Inventory.

**Table 6.02-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU:
1989 AND 1994**

[1994 figures were revised]

Subject	June 1989: Oahu total	June 1994		
		Oahu total	Honolulu district	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	375,455	375,146	54,124	321,022
Residential	29,219	31,110	9,798	21,312
Industrial	11,865	8,658	3,788	4,869
Commercial	4,404	4,177	1,523	2,653
Hotel	301	319	132	187
Agriculture	74,229	70,400	300	70,100
Usable vacant	38,218	38,632	2,531	36,101
Other	217,218	221,851	36,051	185,800
STRUCTURES BY YEAR BUILT 1/				
All structures	151,105	160,693	64,259	96,434
Before 1930	7,668	6,777	5,220	1,557
1930 to 1939	9,296	8,537	5,486	3,051
1940 to 1949.	15,548	14,477	8,357	6,120
1950 to 1959	30,314	29,516	14,189	15,327
1960 to 1969	41,366	40,846	15,420	25,426
1970 to 1979	28,210	28,324	8,145	20,179
1980 to 1989	18,703	20,244	5,245	14,999
1990 and later	-	11,972	2,197	9,775
DWELLING UNITS BY TYPE 1/				
All dwelling units	263,203	280,846	150,182	130,664
Single family and duplex	139,904	148,850	57,623	91,227
Low density multi-family	13,592	20,639	1,391	19,248
High density multi-family	109,707	111,357	91,168	20,189

1/ Data exclude structures on military bases.

Source: City and County of Honolulu, Planning Information Branch, records.

**Table 6.03-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU:
1992 AND 1997**

Subject	June 1992: Oahu total	June 1997		
		Oahu total	Honolulu district	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	375,220	374,899	54,117	320,783
Residential	30,162	32,109	9,914	22,194
Industrial	9,361	9,594	3,790	5,804
Commercial	4,464	4,277	1,544	2,733
Hotel	305	317	130	187
Agriculture	69,927	56,846	300	56,545
Usable vacant	39,769	48,270	2,431	45,839
Other	221,233	223,487	36,007	187,480
STRUCTURES BY YEAR BUILT 1/				
All structures	156,126	165,734	64,450	101,284
Before 1930	7,922	6,387	5,016	1,371
1930 to 1939	8,770	8,268	5,287	2,981
1940 to 1949.	14,788	14,139	8,180	5,959
1950 to 1959	29,744	29,180	14,002	15,178
1960 to 1969	40,999	40,618	15,325	25,293
1970 to 1979	28,096	28,252	8,126	20,126
1980 to 1989	20,245	20,206	5,220	14,986
1990 and later	5,562	18,684	3,294	15,390
DWELLING UNITS BY TYPE 1/				
All dwelling units	271,108	290,716	152,041	138,675
Single family and duplex	144,815	153,593	58,107	95,486
Low density multi-family	15,760	23,672	1,392	22,280
High density multi-family	110,533	113,451	92,542	20,909

1/ Data exclude structures on military bases.

Source: City and County of Honolulu, Planning Information Branch, records.

**Table 6.04-- ESTIMATED ACREAGE OF LAND USE DISTRICTS:
1964 TO 1997**

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes, as amended. All data are approximate]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
UNADJUSTED 3/					
1964: August	4,111,500	117,800	1,862,600	2,124,400	6,700
1969: August	4,111,500	140,163	2,009,087	1,955,875	6,375
1974: March	4,111,500	147,472	1,986,429	1,968,727	8,872
1978: December	4,111,500	151,929	1,976,106	1,974,230	9,235
1983: December	4,112,388	156,568	1,975,473	1,970,146	10,201
1984: December	4,112,388	158,620	1,969,351	1,974,236	10,181
1985: December	4,112,388	163,211	1,968,804	1,970,189	10,184
1986: December	4,112,388	165,165	1,967,638	1,969,401	10,184
1987: December	4,112,388	166,507	1,967,168	1,968,524	10,189
ADJUSTED 3/					
1987: December	4,112,388	165,607	1,967,247	1,969,345	10,189
1988: December	4,112,388	171,230	1,967,194	1,963,766	10,198
1989: December	4,112,388	175,285	1,960,976	1,965,935	10,192
1990: December	4,112,388	178,114	1,960,608	1,963,491	10,175
1991: December	4,112,388	181,407	1,959,621	1,961,294	10,066
1992: December	4,112,388	180,912	1,960,615	1,960,795	10,066
1993: December	4,112,388	187,697	1,958,897	1,955,704	10,090
1994: December	4,112,388	189,418	1,974,549	1,938,505	9,916
1995: December	4,112,388	190,257	1,976,016	1,936,197	9,918
1996: December	4,112,388	191,941	1,974,994	1,935,526	9,927
1997: December	4,112,388	192,158	1,974,994	1,935,305	9,931

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5. The increase in the 1984 total area reflects additions to the Urban District on Oahu at Honolulu International Airport (Reef runway and South Ramp refill) created from former submerged lands.

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

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

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

Table 6.05-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS: DECEMBER 31, 1997

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes, as amended. All data are approximate]

Island	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
State total	4,112,388	192,158	1,974,994	1,935,305	9,931
Hawaii	2,573,400	52,855	1,305,706	1,214,183	656
Maui	465,800	20,836	194,836	246,369	3,759
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	3,228	38,197	46,678	2,397
Molokai	165,800	2,539	49,768	111,627	1,866
Oahu	386,188	98,364	156,618	131,206	-
Kauai	353,900	14,336	198,769	139,542	1,253
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands 3/	1,900	-	1,900	-	-

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

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

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

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

Table 6.06-- LAND OWNERSHIP OR TENURE, BY ISLANDS: FALL 1988

[In acres. Government land leased to private users is included with privately owned land]

Island	All land 1/	Land owned by government 2/			Privately owned land
		Federal	State	Counties	
State total 3/ Percent	4,035,601 100.0	338,035 8.4	1,188,242 29.4	14,898 0.4	2,494,426 61.8
Hawaii	2,497,055	229,848	817,391	1,278	1,448,537
Maui	448,170	26,875	102,345	1,568	317,381
Kahoolawe	28,800	28,800	-	-	-
Molokini	19	19	-	-	-
Lanai	88,985	5	124	14	88,843
Molokai	170,910	211	47,601	265	122,831
Oahu	403,154	48,861	69,541	11,162	273,590
Kauai	351,292	3,158	150,984	610	196,540
Niihau	46,705	-	-	-	46,705
Lehua and Kaula	512	256	256	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

3/ Data exclude the Northwestern Hawaiian Islands (1,722 acres).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records. Tabulation by State Department of Business, Economic Development & Tourism.

Table 6.07-- LAND PARCELS, BY COUNTIES: 1991 TO 1997

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1991	431,271	227,449	52,362	126,497	24,963
1992	438,388	231,893	53,414	127,444	25,637
1993	446,276	236,138	55,379	128,543	26,216
1994	452,568	240,652	56,108	128,954	26,854
1995	459,646	245,257	57,044	129,708	27,637
1996	467,966	250,320	57,992	131,060	28,594
1997	471,942	252,587	58,866	131,658	28,831

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

**Table 6.08-- PROPERTY TAX EXEMPTIONS FOR CEMETERIES,
CHURCHES, HOSPITALS AND SCHOOLS, BY COUNTIES: 1997**

[Exempt from real property taxes, in number of parcels and exemptions in thousands of dollars.]

Category	Cemeteries	Churches	Hospitals	Schools
PARCELS				
State total	106	1,434	83	174
Honolulu	47	800	68	121
Maui	4	216	10	12
Hawaii	46	288	1	38
Kauai	9	130	4	3
AMOUNT				
State total	47,591	1,323,525	544,480	800,115
Honolulu	42,427	1,072,976	494,302	734,794
Maui	1	124,606	28,340	15,228
Hawaii	2,734	83,383	10,799	36,434
Kauai	2,428	42,560	11,040	13,659

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1997-1998 Tax Year, State of Hawaii* (July 1997).

**Table 6.09-- LAND OWNED IN FEE SIMPLE BY SELECTED LARGE
LANDOWNERS: 1995 TO 1997**

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

Landowner	1995	1996	1997
Eight large landowners	999,726	999,063	996,226
Percent of total land area 1/	24.3	24.3	24.2
Bernice P. Bishop Estate 2/	3/ 366,198	366,184	366,098
Parker Ranch	3/ 137,547	137,007	136,602
Castle & Cooke, Inc.	101,119	100,510	100,023
Dole Food Company, Inc.	28,757	28,746	28,745
Samuel M. Damon Estate	121,608	121,600	121,595
Alexander and Baldwin Properties	90,800	93,160	93,020
C. Brewer and Company, Ltd.	81,997	80,156	79,343
James Campbell Estate	3/ 71,700	71,700	70,800

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

2/ As of July 1.

3/ Revised.

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

Table 6.10-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1992 TO 1994

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

Footnote and source on next page.

Table 6.10-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1992 TO 1994 -- Con.

1/ The U.S. percentage was 29.8. The Hawaii percentage ranked 16th among the 50 States and D.C.

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

Source: U.S. General Services Administration, *Summary Report of Real Property Owned by the United States Throughout the World* (annual) and *Summary Report of Real Property Leased by the United States Throughout the World* (annual).

**Table 6.11-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE,
LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1997**

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

Subject	State total	Hawaii	Maui	Molokai	Oahu	Kauai
Acreage 1/ In homestead use	197,075 40,464	114,574 27,238	30,266 447	25,384 11,005	6,721 959	20,130 815
Homestead leases 2/ Residential	6,428 5,087	1,778 1,035	576 510	813 388	2,797 2,739	464 415
Agricultural	1,043	473	66	399	58	47
Pastoral	298	270	-	26	-	2
Applicant waiting list 2/ Residential	29,162 15,815	11,120 4,839	5,743 2,743	1,630 711	7,284 6,014	3,385 1,527
Agricultural	11,535	5,130	2,684	780	1,270	1,671
Pastoral	1,813	1,151	336	139	-	187

1/ Data based on latest figures from the trust resolution project. Acreages are rounded to the nearest acre and include 7,939 acres of new lands out of the 16,518-acre land transfer from the Public Land Trust. Oahu total includes 14.4 acres of Kalawahine land provided under Act 150, SLH 1990, 1,356 acres at Lualualei under Executive Orders to the the U.S. Navy, 53.615 acres at Princess Kahanu Estates, and 20.114 acres at Waianae Kai.

2/ Residence, agriculture, or pasture. Since applicants may apply for two types of leases, duplications occur. The Department estimates the unduplicated Statewide total number of applicants at about 16,000. Data are subject to audit.

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

**Table 6.12-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY,
BY COUNTIES: JANUARY 10, 1995**

[In thousands of acres]

Type of document	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All types	1,409.8	72.3	980.2	155.4	201.9
Public lands	431.1	19.5	327.5	38.1	46.0
General lease 1/	358.1	10.4	295.5	39.5	12.7
Revocable permit 2/	163.7	3.9	70.1	37.4	52.3
Unencumbered lands 3/	94.0	13.2	67.1	3.2	10.5
Lands set aside to other government agencies	768.4	42.6	536.5	96.6	92.7
Executive order	269.3	17.7	200.1	26.1	20.4
Governor's proclamation	517.2	29.2	340.3	72.7	75.0
Dept. of Hawaiian Home Lands	191.6	4.8	107.8	19.0	60.0
University of Hawaii	1.7	0.7	0.5	0.4	0.1
Hawaii Housing Authority	1.5	1.2	0.1	0.05	0.1
Highways and roads	15.2	3.4	7.7	1.2	2.9

1/ Long-term leases. Mostly agricultural and pasture land. Includes land covered by water licenses not set aside to other government agencies.

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

3/ Parcels with no documents and not in use.

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

Section 7

RECREATION AND TRAVEL

Statistics on tourism, recreation, sports, museums, parks, pets, and the performing arts appear in this section. Additional information on recreational and resort land use is given in Section 6; on transportation, in Section 18; and on hotels and hotel workers, in Sections 12, 13, 15 and 23.

Information on recreation and tourism is issued periodically by the Hawaii Visitors & Convention Bureau (particularly in its annual research reports), the State Parks Division of the Hawaii State Department of Land and Natural Resources, the Hawaii State Department of Business, Economic Development & Tourism, U.S. National Park Service, County park and recreation departments, and other organizations. Long-term trends are summarized in *Historical Statistics of Hawaii*, Section 11. National statistics are given in Section 7 of the *Statistical Abstract of the United States: 1997*.

Table 7.01-- TRAVEL CHARACTERISTICS FOR HAWAII AND THE UNITED STATES: 1977 AND 1995

[Trips of 100 miles or more, one way. Excludes travel outside the U.S.]

Subject	Hawaii			United States		
	1977	1995	Percent change	1977	1995	Percent change
People who live in area						
Percent traveling households	67	75	12.5	72	80	10.8
Trips per household	1.3	3.1	138.5	4.1	5.5	34.1
Trips per traveling household	1.9	4.2	121.1	5.7	6.9	21.1
Trips per capita	0.5	1.9	280.0	2.0	4.0	66.7
Trips per traveler	(NA)	2.7	(NA)	4.0	4.8	20.0
Miles per traveler	(NA)	7,392	(NA)	2,836	3,943	39.0
Miles per trip	(NA)	2,704	(NA)	709	827	16.6
People who visit area						
Trips per traveler	2.1	3.4	61.9	4.0	4.8	20.0
Miles per traveler	14,654	16,538	12.9	2,836	3,943	39.0
Miles per trip	7,013	4,885	-30.3	709	827	16.6

NA Not available.

Source: U.S. Bureau of Transportation Statistics, *1995 American Travel Survey, State Highlights, Hawaii* (1997), table 1.

Table 7.02-- PERSON TRIPS TO, FROM, AND WITHIN HAWAII, BY CENSUS DIVISIONS OR STATES OF DESTINATION OR ORIGIN: 1995

[Trips of 100 miles of more, one way. Excludes travel outside the U.S.]

Census division or selected state of destination or origin 1/	Destination of person trips from Hawaii (1,000)	Origin of person trips to Hawaii (1,000)
Total person trips	2,086	4,624
Within Hawaii 2/	1,322	1,322
To or from other states	764	3,302
New England	9	69
Mid-Atlantic	36	189
East North Central	36	269
West North Central	18	146
South Atlantic	71	188
East South Central	13	42
West South Central	33	214
Texas	26	182
Mountain	263	236
Nevada	218	35
Pacific (except Hawaii)	285	1,949
Washington	56	261
California	210	1,530

1/ Top three states in each category are listed.

2/ Trips with both origin and destination within Hawaii.

Source: U.S. Bureau of Transportation Statistics, *1995 American Travel Survey, Summary Travel Characteristics, Hawaii* (1997), Pub. No. BTS/ATS95-ESTC/HI (Oct. 1, 1997), tables 6-11.

**Table 7.03-- PERSON TRIPS TO, FROM, AND WITHIN HAWAII, BY
SELECTED TRAVELER CHARACTERISTICS: 1995**

[Trips of 100 miles or more, one way. Excludes travel outside the U.S.]

Travel characteristics	Origin in Hawaii			Destination in Hawaii 1/	
	Total	Dest. in Hawaii	Dest. outside Hawaii	Total	Origin outside Hawaii
All person trips (1,000)	2,086	1,322	764	4,624	3,302
Age (percent):					
Under 25 years	18.7	20.5	15.8	17.2	15.8
60 years and over	16.5	11.4	25.4	14.6	15.9
Female (percent)	46.1	45.3	47.4	47.3	48.1
Race (percent):					
White	36.2	34.8	38.6	65.4	77.6
Black	1.7	1.1	2.7	2.0	2.3
Asian or Pacific Islander	55.7	56.2	54.8	29.2	18.4
Household income over \$60,000 (percent)	50.9	49.1	53.9	53.3	54.9
Married-couple household (percent)	74.3	71.8	78.5	74.9	76.1
Bachelor's degree or higher (percent) 2/	39.9	40.8	38.6	45.9	47.8
Activity status (percent): 2/					
Working full time	69.1	73.5	62.1	68.4	66.5
Retired	13.3	8.5	20.9	9.8	10.3
All household trips (1,000)	1,494	939	555	2,992	2,054
Mean round-trip distance (miles)	2,769	359	6,842	4,731	6,729
Business trip (percent)	41.6	48.4	30.1	30.3	22.0
Vacation trip (percent)	43.7	35.2	58.1	61.6	73.7
Mean nights away from home	6.7	3.4	10.7	8.6	10.3
Lodging at destination (percent):					
Friend's or relative's home	40.6	46.4	33.6	27.0	20.9
Hotel, motel, or resort	50.5	43.6	58.8	51.9	54.6

1/ Includes "destination in Hawaii, origin in Hawaii," same as figures in second column of data.

2/ Persons 16 years and over.

Source: U.S. Bureau of Transportation Statistics, *1995 American Travel Survey, Summary Travel Characteristics, Hawaii*, Pub. No. BTS/ATS95-ESTC/HI (Oct. 1, 1997), tables 1 and 11.

**Table 7.04-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND
TRANSIT STATUS: 1988 TO 1997**

Direction and status	1988	1989	1990	1991	1992
All directions	7,894,680	8,236,250	8,507,330	8,272,760	8,405,740
Landing	6,715,600	7,149,700	7,453,550	7,286,140	7,266,350
Intransit	1,179,080	1,086,550	1,053,780	986,620	1,139,390
Westbound 1/	5,443,980	5,734,910	5,692,950	5,444,070	5,295,770
Landing	4,793,580	5,115,410	5,127,690	4,913,650	4,664,350
Intransit	650,400	619,500	565,260	530,420	631,420
Eastbound 2/	2,450,700	2,501,340	2,814,380	2,828,690	3,109,970
Landing	1,922,020	2,034,290	2,325,860	2,372,490	2,602,000
Intransit	528,680	467,050	488,520	456,200	507,970
Direction and status	1993	1994	1995	1996	1997
All directions	7,878,950	7,909,250	7,957,220	8,049,980	7,984,660
Landing	6,945,630	7,263,820	7,466,710	7,648,880	7,723,580
Intransit	933,320	645,430	490,510	401,100	261,080
Westbound 1/	5,039,640	5,197,640	5,056,770	5,078,740	5,147,470
Landing	4,520,430	4,772,380	4,725,150	4,801,570	4,907,620
Intransit	519,210	425,260	331,620	277,170	239,850
Eastbound 2/	2,839,310	2,711,610	2,900,450	2,971,240	2,837,190
Landing	2,425,200	2,491,440	2,741,560	2,847,310	2,815,960
Intransit	414,110	220,170	158,890	123,930	21,230

1/ Arriving from North America.

2/ Arriving from Asia or Oceania.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.05-- PASSENGER STATUS OF PARTIES AND PASSENGERS
ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL: 1992 TO 1994**

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

NA Not available.

1/ Not surveyed for intransit passengers.

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

**Table 7.06-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS:
1965 TO 1997**

[For earlier years, 1921-1964, see *Data Book 1987*, table 210]

Year	Visitors staying overnight or longer			Average number of visitors present		
	Total	West-bound	East-bound	Total	West-bound	East-bound
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709
1981	3,934,623	2,974,791	959,832	95,968	85,449	10,519
1982	4,242,925	3,278,525	964,400	105,310	94,740	10,570
1983	4,367,880	3,395,880	972,000	108,040	97,390	10,650
1984	4,855,580	3,721,380	1,134,200	118,660	106,260	12,400
1985	4,884,110	3,708,610	1,175,500	116,700	103,820	12,880
1986	5,606,980	4,256,390	1,350,590	132,910	118,110	14,800
1987	5,799,830	4,204,010	1,595,820	134,270	116,780	17,490
1988	6,142,420	4,264,730	1,877,690	141,410	115,760	25,650
1989	6,641,820	4,705,320	1,936,500	169,670	135,480	34,190
1990	6,971,180	4,719,730	2,251,450	162,070	125,590	36,480
1991	6,873,890	4,584,460	2,289,430	157,590	121,330	36,260
1992	6,513,880	3,980,120	2,533,760	153,390	113,860	39,530
1993	6,124,230	3,764,520	2,359,710	148,750	108,090	40,660
1994	6,430,300	3,997,820	2,432,480	159,200	115,220	43,980
1995	6,629,180	3,933,110	2,696,070	159,060	113,040	46,020
1996	6,829,800	4,004,450	2,825,350	161,610	114,440	47,170
1997	6,876,140	4,077,950	2,798,190	157,810	114,960	42,850

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

**Table 7.07-- CITIZENSHIP OF OVERNIGHT AND LONGER VISITORS TO
HAWAII: 1996 AND 1997**

Country of citizenship	1996			1997		
	Total	West-bound	East-bound	Total	West-bound	East-bound
All visitors	6,829,800	4,004,450	2,825,350	6,876,140	4,077,950	2,798,190
United States 1/	3,641,310	3,284,260	357,050	3,726,540	3,387,180	339,360
Canada	348,830	269,230	79,600	327,200	250,710	76,490
Asia						
Japan	2,090,190	77,200	2,012,990	2,092,480	65,200	2,027,280
Taiwan	77,380	7,910	69,470	60,880	7,390	53,490
Korea	122,000	16,780	105,220	116,740	15,330	101,410
Hong Kong	24,000	6,400	17,600	19,430	5,550	13,880
China	27,140	15,550	11,590	31,320	18,830	12,490
Philippines	16,460	11,480	4,980	13,570	6,320	7,250
Singapore	14,620	1,470	13,150	12,960	1,510	11,450
Indonesia	19,120	10,340	8,780	20,410	10,010	10,400
Other Asia	26,490	10,870	15,620	29,680	13,930	15,750
Oceania						
Australia	85,130	43,490	41,640	74,740	29,760	44,980
New Zealand	32,960	15,460	17,500	36,950	14,910	22,040
Other Oceania	11,360	2,100	9,260	17,550	3,090	14,460
Europe						
United Kingdom	76,570	53,150	23,420	82,180	60,930	21,250
Germany	86,230	74,000	12,230	76,090	69,580	6,510
Other Europe	97,850	81,580	16,270	102,890	87,130	15,760
Other foreign countries	32,160	23,180	8,980	34,530	30,590	3,940

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

**Table 7.08-- VISITOR DAYS, BY DIRECTION OF TRAVEL:
1991 TO 1997**

Year	Total	Westbound	Eastbound
1991	57,518,790	44,285,880	13,232,910
1992	56,139,630	41,671,860	14,467,770
1993	54,294,750	39,452,170	14,842,580
1994	58,111,440	42,057,070	16,054,370
1995	58,054,840	41,258,320	16,796,520
1996	59,149,400	41,886,550	17,262,890
1997	57,603,990	41,962,110	15,641,880

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

**Table 7.09-- AVERAGE VISITOR CENSUS, BY COUNTIES AND ISLANDS:
1996 AND 1997**

[Westbound data based largely on intended island visits and length of stay, as reported on arrival in Hawaii. Eastbound data reflect actual visits]

County or island	1996			1997		
	Total	West-bound	East-bound	Total	West-bound	East-bound
State total	161,610	114,440	47,170	157,810	114,960	42,850
Oahu	84,490	45,370	39,120	77,020	42,230	34,790
Hawaii County	19,150	16,650	2,500	21,360	18,960	2,400
Kauai County	15,330	14,200	1,130	16,160	14,770	1,390
Maui County	42,640	38,220	4,420	43,270	39,000	4,270
Lanai	1,860	1,840	20	1,860	1,770	90
Maui	39,320	34,930	4,390	39,940	35,810	4,130
Molokai	1,460	1,450	10	1,470	1,420	50

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

Table 7.10-- VISITOR ARRIVALS, WESTBOUND AND OTHER, BY AREAS VISITED: 1996 AND 1997

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

Areas visited 1/	1996			1997		
	Total	West-bound	East-bound	Total	West-bound	East-bound
State total 2/	6,829,800	4,004,450	2,825,350	6,876,140	4,077,950	2,798,190
Oahu	4,989,090	2,357,750	2,631,340	5,017,940	2,279,850	2,738,090
Kauai	962,350	828,340	134,010	1,007,980	856,930	151,050
Maui County 2/	2,325,030	1,830,140	494,890	2,352,120	1,879,320	472,800
Maui	2,266,700	1,772,300	494,400	2,282,280	1,820,830	461,450
Molokai	74,010	72,910	1,100	84,350	71,050	13,300
Lanai	93,240	91,150	2,090	104,550	94,750	9,800
Hawaii County 2/	1,165,300	882,940	282,360	1,205,750	915,410	290,340
Hilo side	376,780	277,280	99,500	379,790	289,330	90,460
Kona side	984,830	772,120	212,710	1,023,360	797,780	225,580
One island only	4,797,220	2,649,580	2,147,640	4,825,850	2,744,280	2,081,570
Oahu only	3,244,840	1,267,100	1,977,740	3,251,920	1,223,730	2,028,190

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

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

Source: Hawaii Visitors & Convention Bureau, records.

Table 7.11-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS, BY DIRECTION OF TRAVEL: 1996 AND 1997

Subject	Total	Westbound	Eastbound
1996			
Residence (percent):			
United States	53.3	82.0	12.6
Pacific and Mountain States	30.4	48.6	4.5
California	19.4	31.4	2.3
Males per 100 females	133.0	127.0	143.0
Average age (years)	39.6	43.7	33.7
High-status occupations 1/ (percent)	36.4	42.2	28.1
Persons per party	1.8	1.9	1.7
Arriving June-August (percent)	27.0	27.0	28.0
Repeat visitors 2/ (percent)	54.8	62.5	43.9
Pleasure trip (percent)	83.0	78.1	89.8
In hotel only	66.8	55.5	82.7
Destined beyond Hawaii (percent)	(NA)	5.7	(NA)
1997			
Residence (percent):			
United States	54.2	83.1	12.1
Pacific and Mountain States	(NA)	(NA)	(NA)
California	18.4	(NA)	(NA)
Males per 100 females	(NA)	(NA)	(NA)
Average age (years)	(NA)	(NA)	(NA)
High-status occupations 1/ (percent)	39.0	43.1	33.1
Persons per party	2.1	1.9	2.5
Arriving June-August (percent)	27.0	27.0	27.0
Repeat visitors 2/ (percent)	58.1	63.2	50.8
Pleasure trip (percent)	82.8	78.2	89.7
In hotel only	65.5	54.6	81.4
Destined beyond Hawaii (percent)	9.3	4.9	15.7

NA Not available.

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

2/ Party heads.

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.12-- WESTBOUND VISITORS FROM OTHER STATES BY
AREA OF RESIDENCE: 1996 AND 1997**

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

Residence	1996	1997
United States	3,284,260	3,387,180
Pacific	1,633,730	1,663,760
Alaska	31,730	30,970
California	1,257,670	1,262,570
Oregon	111,970	121,700
Washington	232,360	248,520
Mountain	313,490	339,620
West North Central	167,450	166,100
West South Central	179,870	191,440
East North Central	337,980	334,600
East South Central	67,920	67,500
New England	93,520	90,190
Middle Atlantic	208,620	203,840
South Atlantic	272,510	270,350
Other	9,170	59,780

Source: Hawaii Visitors & Convention Bureau, records.

Table 7.13-- TRIP CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL: 1996 AND 1997

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

Subject	Westbound		Eastbound	
	1996	1997	1996	1997
All visitors 1/	4,004,450	4,077,950	2,825,350	2,798,190
Purpose of visit: 1/				
Pleasure	3,128,890	3,187,090	2,536,910	2,509,780
Honeymoon	258,660	262,320	301,940	358,890
Meetings, conventions, incentive 1/	341,680	340,400	87,500	103,170
Convention	217,560	211,310	38,300	38,780
Corporate meeting	69,810	74,400	20,410	33,130
Incentive	58,990	60,020	29,720	32,800
Other business	171,330	176,250	52,680	23,430
Visit friends or relatives	345,940	346,410	72,940	64,080
Government or military	53,710	54,490	29,910	19,040
Attend school	10,790	10,800	12,930	23,840
Traveler method:				
Tour group	405,100	383,760	1,670,330	1,240,530
Package	1,486,650	1,463,640	2,078,030	1,925,720
Group tour and package	322,790	306,660	1,628,090	1,193,720
True independent	2,435,500	2,537,210	705,080	825,660
Accommodations:				
Hotel	2,487,160	2,490,310	2,379,850	2,322,780
Hotel only	2,222,480	2,226,280	2,337,430	2,276,690
Condo	1,022,170	1,076,430	255,450	316,810
Condo only	842,940	895,550	234,870	283,220
Friends, relatives	456,870	459,850	90,120	70,340
Cruise ship	60,790	55,420	4,390	6,600
Other accommodations	124,190	131,530	50,430	50,430

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

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.14-- CHARACTERISTICS OF VISITOR PARTY HEADS,
BY DIRECTION OF TRAVEL: 1993**

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

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

Source: Hawaii Visitors Bureau, records.

Table 7.15-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY DIRECTION OF TRAVEL: 1996 AND 1997

Length of stay	1996			1997		
	Total	West-bound	East-bound	Total	West-bound	East-bound
All visitors	6,829,800	4,004,450	3,933,110	6,876,140	4,077,950	2,798,190
1 to 6 days	(NA)	1,005,980	(NA)	3,275,900	1,033,890	2,242,010
7 to 12 days	(NA)	2,129,230	(NA)	2,656,240	2,184,450	471,790
13 to 30 days	(NA)	782,110	(NA)	855,130	774,700	80,430
31 to 365 days	(NA)	87,120	(NA)	(NA)	84,910	(NA)
Median (days)	(NA)	9.31	(NA)	(NA)	(NA)	(NA)
Mean (days)	8.66	10.46	6.11	8.38	10.29	5.59

NA Not available.

Source: Hawaii Visitors and Convention Bureau, records.

**Table 7.16-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES:
1992 TO 1997**

Subject	1992	1993	1994	1995	1996	1997
Arrivals (1,000)	1,637	1,592	1,756	1,999	2,090	2,092
Average stay (days)	5.7	6.1	6.1	6.0	5.8	(NA)
Expenditures (mil. dol.)	3,237	3,026	3,657	4,286	3,504	3,213

NA Not available.

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

Table 7.17-- FAMILY INCOME, EDUCATION, TRIP CHARACTERISTICS, AND SATISFACTION OF MAINLANDERS VISITING HAWAII: 1993 AND 1996

Subject	1993	1996 1/
Sample size	1,153	1,319
Family income before taxes (percent)	100.0	100.0
Under \$25,000	5.6	7.6
\$25,000 to \$49,999	23.7	23.9
\$50,000 to \$74,999	24.0	22.0
\$75,000 to \$99,999	16.2	14.9
\$100,000 to \$149,999	13.3	12.2
\$150,000 and over	7.2	8.6
Not reported	9.8	10.7
Median income (dollars)	67,115	64,886
Mean income (dollars)	79,712	(NA)
Education (percent):		
Associate degree	9	(NA)
Bachelor's or higher	56	(NA)
Using travel agent (percent)	79.8	(NA)
Islands visited (percent):		
Oahu	67.3	81.1
Kauai	18.5	21.6
Maui	59.5	32.7
Hawaii	32.8	25.1
Overall satisfaction (percent):		
Excellent	55	58
Above average	36	29
Average or below average	8	12

NA Not available.

1/ Study not conducted in 1994 and 1995.

Source: Hawaii Visitors & Convention Bureau, "The 1996 Hawaii Visitors & Convention Bureau Visitor Opinion Survey," and unpublished data.

Table 7.18-- MEETINGS AND CONVENTIONS: 1989 TO 1994

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

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

Table 7.19-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1993 AND 1994

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

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

Table 7.20-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1997

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

Year	Mainlanders	Japanese	Year	Mainlanders	Japanese
1931-32 1/	17.50	(NA)	1988	121.44	350.00
1951	28.00	(NA)	1989	126.57	322.00
1960-61	32.00	(NA)	1990	136.30	294.04
1965-66 1/	37.23	(NA)	1991	140.54	344.29
1974	46.20	123.00	1992	117.14	344.68
1977	54.62	146.85	1993	116.15	306.54
1980	71.24	185.00	1994	133.79	340.88
1983	85.88	227.32	1995	132.73	356.15
1986	95.40	299.00	1996	137.04	286.89
1987	102.49	324.00	1997	157.07	279.58

NA Not available.

1/ Oahu only.

Source: Hawaii Visitors Bureau, *1983 Visitor Expenditure Survey* (1985), p. 31; *1989 Expenditures, Westbound Visitors to Hawaii* (1990), pp. 29 and 30; *1991 Visitor Expenditure Report* (1992), pp. 6 and 68; *1992 Visitor Expenditure Report* (1993), p. 61; Hawaii Visitors & Convention Bureau, *Hawaii Visitors & Convention Bureau 1995 & 1996 Research Report*, pp.109-110, and records.

Table 7.21-- AVERAGE EXPENDITURE PER VISITOR DAY IN CONSTANT DOLLARS, FOR VISITORS FROM THE MAINLAND: 1931 TO 1997

Year	U.S. CPI (1982-84=100)	Average expend. per vis. day 1/	Year	U.S. CPI (1982-84=100)	Average expend. per vis. day 1/
1931-32 2/	14.4	122	1989	124.0	102
1951	26.0	108	1990	130.7	104
1960-61	29.8	107	1991	136.2	103
1965-66 2/	32.0	116	1992	140.3	83
1974	49.3	94	1993	144.5	80
1977	60.6	90	1994	148.2	90
1980	82.4	86	1995	152.4	87
1983	99.6	86	1996	156.9	88
1986	109.6	87	1997	160.5	98

1/ In constant (1982-84) dollars.

2/ Oahu only.

Source: Preceding table; U.S. Bureau of Labor Statistics, *CPI Detailed Report*, and <http://stats.bls.gov/blshome.htm>.

Table 7.22-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM THE MAINLAND AND JAPAN, BY EXPENDITURE TYPE: 1996 AND 1997

[In dollars. Excludes transpacific travel costs]

Expenditure type	Visitors from Mainland		Visitors from Japan	
	1996	1997	1996	1997
All items	137.04	157.07	286.89	279.58
Food and beverage	30.76	31.85	39.45	40.09
Restaurants	20.61	18.49	24.77	21.71
Dinner shows	3.70	5.07	3.34	5.81
Dinner or lunch cruise	1.10	3.02	5.32	6.04
Nightclubs, bars	1.92	2.15	0.69	0.63
Groceries	3.43	3.12	5.32	5.89
Entertainment	7.44	12.54	10.74	15.41
Attractions	3.08	7.81	5.22	10.18
Sports, recreation	3.90	3.37	5.25	5.05
Other entertainment	0.46	1.36	0.27	0.18
Transportation	20.05	23.96	12.21	16.52
Ground transportation	0.69	1.00	1.57	2.78
Rental vehicles	8.58	7.29	1.24	2.49
Interisland travel	4.71	6.01	4.11	3.32
Gasoline	1.01	1.27	0.07	0.15
Parking	0.55	0.84	0.04	0.01
Sightseeing tours	4.51	7.55	5.18	7.64
Clothing	8.01	8.38	30.74	29.19
Other fashion 1/	5.95	6.23	69.39	66.98
Agriculture	1.79	1.79	4.58	5.13
Communication	0.68	0.64	0.62	0.76
Personal service	1.32	1.43	2.08	2.39
Lodging	49.33	59.78	73.49	79.60
Souvenirs	4.43	5.04	12.08	13.60
All other	5.56	3.81	7.81	7.30
Adjustment 2/	1.72	1.62	23.70	2.61
Duty-free	-	-	21.13	-
Not duty-free	137.04	157.07	265.76	279.58

1/ Jewelry, cosmetics, leather goods, etc.

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

Source: Hawaii Visitors & Convention Bureau, records.

**Table 7.23-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM
MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS:
1995 AND 1996**

[Dollars]

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1995	1996	1995	1996
All visitors	132.73	137.04	356.15	286.89
Islands:				
Oahu	118.53	117.03	(NA)	(NA)
Neighbor Islands	153.63	155.52	(NA)	(NA)
Group tour status:				
Organized group tour	130.42	126.36	(NA)	(NA)
Individually arranged	135.98	136.83	(NA)	(NA)
Arrived on package tour:				
Yes	128.98	133.85	(NA)	(NA)
No	135.68	137.04	(NA)	(NA)
Accommodations:				
Hotel only	135.72	138.50	(NA)	(NA)
Condo only	114.57	119.35	(NA)	(NA)
Guests of friends and relatives	134.60	114.13	(NA)	(NA)
Other	112.30	122.01	(NA)	(NA)
Length of stay:				
1 to 6 days	131.85	133.76	(NA)	(NA)
7 to 12 days	133.35	136.17	(NA)	(NA)
13 days or longer	116.71	123.10	(NA)	(NA)
Previous visits:				
First trip	134.54	136.46	(NA)	(NA)
Repeat visitors	130.58	133.96	(NA)	(NA)

Continued on next page.

**Table 7.23-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM
MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS:
1995 AND 1996 - Con.**

Visitor or trip characteristics	Visitors from Mainland		Visitors from Japan	
	1995	1996	1995	1996
Party size:				
1 person	204.25	192.89	(NA)	(NA)
2 persons	143.52	151.09	(NA)	(NA)
3 persons	113.56	117.87	(NA)	(NA)
4 persons or more	93.39	96.76	(NA)	(NA)
Purpose of trip:				
Pleasure	132.17	135.03	(NA)	(NA)
Business: Meetings, conventions, incentive	161.65	144.49	(NA)	(NA)
Other business	161.48	145.10	(NA)	(NA)
Time of year:				
First quarter	136.27	135.13	(NA)	(NA)
Second quarter	128.54	129.01	(NA)	(NA)
Third quarter	127.91	131.71	(NA)	(NA)
Fourth quarter	135.87	144.39	(NA)	(NA)
Children in party:				
Yes	97.78	98.47	(NA)	(NA)
No	141.91	147.45	(NA)	(NA)
On honeymoon:				
Yes	154.40	180.46	(NA)	(NA)
No	130.27	130.46	(NA)	(NA)

NA Not available.

Source: Hawaii Visitors & Convention Bureau, records.

Table 7.24-- ESTIMATED VISITOR EXPENDITURES: 1951 TO 1997

[Millions of dollars. Excludes expenditures by Hawaii residents for all years and additional business expenditures by MCI (meetings, conventions, and incentive) visitors before 1985]

Year	Personal expenditures	Year	Personal expenditures	Year	Personal expenditures	Additional business expend. 1/
1951	24	1967	380	1983	3,974	...
1952	33	1968	440	1984	4,582	...
1953	43	1969	550	1985	4,942	301.6
1954	49	1970	595	1986	5,753	351.1
1955	55	1971	705	1987	6,473	395.1
1956	65	1972	840	1988	8,038	490.6
1957	78	1973	1,020	1989	8,748	533.9
1958	83	1974	1,225	1990	9,363	375.4
1959	109	1975	1,360	1991	9,820	813.5
1960	131	1976	1,640	1992	8,862	697.3
1961	137	1977	1,845	1993	8,014	664.0
1962	154	1978	2,146	1994	9,893	709.9
1963	186	1979	2,537	1995	10,403	1,040.1
1964	205	1980	2,875	1996	10,086	598.0
1965	225	1981	3,200	1997	10,381	388.8
1966	280	1982	3,700			

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

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

**Table 7.25-- VISITOR EXPENDITURES, BY COUNTRY OF RESIDENCE:
1985 TO 1997**

[In thousands of dollars]

Year	Total expenditures	Personal (diary) expenditures				Additional business (MCI) expenditures
		All countries	United States	Japan	Other countries	
1985	5,243,645	4,942,011	3,403,234	983,312	555,465	301,634
1986	6,103,776	5,752,663	3,826,699	1,295,783	630,181	351,113
1987	6,867,631	6,472,578	4,034,545	1,702,125	735,908	395,053
1988	8,528,070	8,037,503	4,659,896	2,553,464	824,143	490,567
1989	9,281,843	8,747,916	5,197,905	2,513,723	1,036,288	533,927
1990	9,738,602	9,363,244	5,661,847	2,500,138	1,201,259	375,358
1991	10,633,836	9,820,302	5,751,981	2,796,973	1,271,348	813,534
1992	9,558,880	8,861,601	4,230,817	3,236,739	1,394,045	697,279
1993	8,677,585	8,013,625	3,909,751	3,025,880	1,077,994	663,960
1994	10,603,172	9,893,275	4,810,573	3,657,124	1,425,578	709,897
1995	11,443,746	10,403,593	4,750,290	4,285,607	1,367,696	1,040,153
1996	10,684,756	10,086,740	4,954,892	3,503,800	1,628,048	598,016
1997	10,770,141	10,381,299	5,691,122	3,213,750	1,476,427	388,842

Source: Hawaii Visitors Bureau, "Revised Historical Visitor Expenditures Estimate," table, June 7, 1993; *Visitor Expenditures 1993* (1994), p. 59; *1994 Annual Research Report* (1996), p.47; Hawaii Visitors & Convention Bureau, *Hawaii Visitors & Convention Bureau 1995 & 1996 Research Report*, p. 109-110, and records.

Table 7.26-- VISITOR EXPENDITURES, BY DIRECTION OF TRAVEL AND ISLANDS: 1993 TO 1997

[In thousands of dollars]

Direction of travel and island	1993	1994	1995	1996	1997
Total	8,677,585	10,603,172	11,443,746	10,684,756	10,770,141
Direction of travel:					
Westbound	5,120,468	6,253,033	6,490,241	6,297,727	6,904,454
Eastbound	3,557,117	4,350,139	4,953,505	4,387,029	3,865,687
Island:					
Oahu	4,870,071	6,107,237	(NA)	(NA)	(NA)
Maui	2,126,709	2,531,596	(NA)	(NA)	(NA)
Kauai	547,702	637,734	(NA)	(NA)	(NA)
Hawaii	1,012,636	1,185,845	(NA)	(NA)	(NA)
Molokai	68,227	68,334	(NA)	(NA)	(NA)
Lanai	52,240	72,426	(NA)	(NA)	(NA)

NA Not available.

Source: Hawaii Visitors Bureau, *1991 Island Supplement* (1992), p. 20; *1992 Island Supplement* (1993), p. 21; *Visitor Expenditures 1993* (1994), p. 59; *1994 Annual Research Report* (1996), p. 43; Hawaii Visitors & Convention Bureau, *Hawaii Visitors & Convention Bureau 1995 & 1996 Research Report*, p. 109-110, and records.

**Table 7.27-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES:
1985 TO 1995**

[In millions of dollars]

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

1/ Includes airline and ship crews' expenditures. Estimated by the Hawaii Visitors Bureau.

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

3/ Preliminary estimate.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Hawaii's Economy, First Quarter 1996*, p. 6.

Table 7.28-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1985 TO 1995

Year	Visitor-related expenditures 1/ (million dollars)	Gross State Product (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs 2/ (1,000)
1985	5,436.6	3,648.0	2,207.3	343.4	129.8
1986	6,296.1	4,224.7	2,556.2	397.7	133.1
1987	7,128.9	4,783.5	2,894.3	496.4	139.7
1988	8,813.8	5,914.0	3,578.4	618.6	147.4
1989	9,613.4	6,450.6	3,903.1	680.3	156.7
1990	10,109.2	6,783.3	4,104.3	714.0	163.1
1991	11,039.5	7,407.5	4,482.1	797.6	168.1
1992	10,020.1	6,723.5	4,068.2	732.8	168.8
1993	9,125.1	6,122.9	3,704.8	669.6	163.0
1994	11,035.7	7,405.0	4,480.5	838.5	161.6
1995 3/	11,485.5	7,706.8	4,663.1	888.2	160.2

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

2/ Direct and indirect.

3/ Preliminary estimate.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Hawaii's Economy, First Quarter 1996*, p. 7.

Table 7.29-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES: 1980 TO 1997

Year	Implicit price deflator 1/ (1987=100)	Average daily room rate 2/ (dollars)	1-way air fares (dollars)		Honolulu consumer price index 5/ (1982-84=100)		
			San Francisco-Honolulu 3/	Honolulu-Kahului 4/	Eating out	Apparel, upkeep	All items
1980	74.7	47.28	211.08	41.00	81.0	89.8	83.0
1981	78.0	49.73	296.09	51.00	88.5	94.5	91.7
1982	83.7	51.78	328.10	48.00	95.5	98.4	97.2
1983	87.2	54.78	353.14	49.95	100.1	101.4	99.3
1984	90.5	59.25	353.14	49.95	104.5	100.2	103.5
1985	93.5	68.84	364.00	44.95	108.6	99.6	106.8
1986	95.6	73.20	364.00	46.95	111.4	99.8	109.4
1987	100.0	80.09	486.00	48.95	115.6	102.5	114.9
1988	105.3	87.94	494.00	48.95	121.0	106.8	121.7
1989	110.6	95.83	524.00	44.95	122.2	104.3	128.7
1990	117.7	102.10	560.00	54.95	128.0	107.0	138.1
1991	125.0	101.89	642.00	65.95	133.6	110.5	148.0
1992	131.0	105.59	400.00	69.95	137.8	114.2	155.1
1993	134.5	103.26	566.00	74.00	141.9	116.5	160.1
1994	137.8	105.46	566.00	74.00	146.4	118.7	164.5
1995	140.5	110.27	596.00	74.00	149.2	117.5	168.1
1996	142.6	127.95	530.00	85.00	150.8	118.5	170.7
1997	143.5	135.94	521.00	80.00	152.6	117.3	171.9

NA Not available.

1/ Hawaii State Department of Business, Economic Development, & Tourism, calculations.

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

3/ Unrestricted Coach or Economy weekday fare, including taxes as of July 1, by United Airlines. From chronology in *Data Book*, 1980-1995.

4/ Regular fare, including taxes, as of July 1, by Hawaiian Airlines. From chronology in *Data Book*, 1984-1996 and Hawaiian Airlines, records.

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

Source: See above footnotes.

Table 7.30-- HAWAII VISITORS & CONVENTION BUREAU INCOME AND EXPENDITURES: 1994 TO 1998

[In dollars. Years ended June 30]

Year	Income					Expenditures
	Total	State appropriations 1/	Private subscriptions	Advertising co-op 2/	Other 3/	
1994	24,795,443	22,638,211	2,056,916	(NA)	100,316	24,848,553
1995	31,834,278	25,450,629	2,159,198	3,997,378	227,073	34,728,853
1996	32,806,193	23,000,000	1,931,298	7,751,664	123,231	30,140,658
1997	49,834,793	34,550,000	2,168,905	13,016,147	99,741	49,530,885
1998	35,808,190	29,150,000	2,478,190	4,000,000	180,000	(NA)

NA Not available.

1/ Net after refunds (if any) to the state.

2/ Cash or in-kind contributions from the private sector to match state funding for generic advertising that promotes the Hawaiian Islands as a preferred visitor destination. Not included as a separate category prior to fiscal year 1995.

3/ May include income from Federal grants, mainland promotional programs, literature sales, convention servicing, and interest.

Source: KPMG Peat Marwick LLP, *Hawaii Visitors Bureau, Financial Statements and Schedules* (annual); *Hawaii Visitors & Convention Bureau, Financial Statements and Schedules June 30, 1995 to 1997*. and records.

**Table 7.31-- RETURNING RESIDENTS AND AVERAGE NUMBER ABSENT,
BY DIRECTION OF TRAVEL: 1990 TO 1997**

Year	Number returning			Average number absent		
	Total	Westbound	Eastbound	Total	Westbound	Eastbound
1990	444,200	378,640	65,560	17,970	14,400	3,570
1991	387,560	311,760	75,800	16,590	12,520	4,070
1992	706,400	642,440	63,960	37,080	32,960	4,120
1993	779,350	716,100	63,250	49,117	44,890	4,227
1994	792,450	738,540	53,910	50,190	46,150	4,040
1995	795,531	755,941	39,590	50,562	47,862	2,700
1996	786,920	760,700	26,220	51,692	49,840	1,851
1997	847,440	829,670	17,770	(NA)	(NA)	(NA)

NA Not available.

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

**Table 7.32-- PASSPORTS ISSUED BY THE HONOLULU PASSPORT AGENCY:
1993 TO 1996**

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

Mailing address	1993	1994	1995	1996
Issued by Honolulu Office	55,696	58,527	60,149	65,404
Mailed to Hawaii addresses	38,870	40,047	41,638	43,243
Mailed outside the state	16,826	18,480	18,511	22,161

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

Table 7.33-- PERFORMING ARTS, FOR OAHU: 1995-1996 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	148	1,127	735,243
Diamond Head Theatre	7	110	42,414
Hawaii Pacific University (Hawaii Loa Campus)	2	31	2,325
Honolulu Department of Auditoriums, total	93	327	495,062
Dance	20	171	172,729
Classical concerts	26	43	52,179
Operas	3	10	21,389
Pop/rock shows	32	37	162,874
Stage shows	12	66	85,891
Honolulu Theatre for Youth	9	354	123,265
Manoa Valley Theatre	6	128	16,276
U.S. Army Community Theatre	4	36	16,418
University of Hawaii at Manoa	27	141	39,483

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

**Table 7.34-- SYMPHONY ORCHESTRA ACTIVITIES:
1986-1987 TO 1996-1997**

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
HONOLULU SYMPHONY ORCHESTRA				
1986-1987 1/	80	85	139,703	2,394,804
1987-1988	79	127	184,897	4,143,347
1988-1989	80	134	215,808	4,234,275
1989-1990	80	141	183,434	4,978,813
1990-1991	80	101	160,214	5,465,467
1991-1992	80	127	204,253	6,160,301
1992-1993	80	127	194,866	5,983,729
1993-1994 2/	-	-	-	1,380,547
HAWAII SYMPHONY ORCHESTRA				
1994-1995 3/	62	115	120,000	4,700,000
HONOLULU SYMPHONY ORCHESTRA				
1995-1996 4/	80	45	65,000	2,343,305
1996-1997 5/	80	47	73,596	3,919,708

1/ Season shortened by musicians' strike, August 8-November 26, 1986.

2/ Concert season eliminated by musicians' strike.

3/ First season in operation. The attendance total is estimated.

4/ The Honolulu Symphony Society and the Musicians' Union reached a collective bargaining agreement on December 15, 1995 for a 14-week season, a shorter season than prior years.

5/ Recording of expenses in compliance with FASB 116 & 117 pertaining to not-for-profit corporations, for 18 week season.

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

**Table 7.35-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRactions: 1994 TO 1996**

[Calendar year data unless otherwise specified]

Island and cultural attraction	1994	1995	1996
OAHU			
Bernice P. Bishop Museum 1/	517,947	475,360	445,508
Byodo-In Temple	119,638	98,496	106,712
The Contemporary Museum 2/	34,165	27,565	34,343
Damien Museum and Archives	13,096	13,551	10,131
Diamond Head State Monument 3/	66,000	(NA)	1,000,000
Foster Botanical Garden	66,500	65,242	51,497
Fred Ohrt Water Museum 1/	6,673	6,165	(NA)
Halawa Shaft 1/	9,032	11,010	(NA)
Halawa Xeriscape Garden 1/	13,425	12,474	(NA)
Harold L. Lyon Arboretum	29,000	29,000	29,500
Hawaii Children's Museum 4/	16,362	-	-
Hawaii Maritime Center	74,106	(NA)	(NA)
Hawaii Nature Center	1/ 39,000	44,511	50,875
Honolulu Academy of Arts 5/	260,162	277,771	217,888
The Honolulu Advertiser Gallery	28,000	20,000	17,000
Honolulu Zoo	755,860	715,014	639,754
Ho'omaluhia Botanical Garden	73,934	83,318	79,706
Iolani Palace State Monument 1/	74,000	71,190	67,892
Judiciary History Center	36,541	41,369	56,059
Mission Houses Museum	28,364	29,478	25,000
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center) 6/	144,667	119,331	120,472
National Memorial Cemetery of the Pacific	(NA)	(NA)	(NA)
Pacific Aerospace Museum	45,610	58,630	46,220
Paradise Park 7/	-	-	-
Polynesian Cultural Center	942,459	938,547	940,253
Puu o Mahuka Heiau State Monument 1/	2,000	(NA)	(NA)
Queen Emma Summer Palace	27,836	32,324	31,773
Royal Mausoleum State Monument 1/	115,000	(NA)	(NA)
Sea Life Park Hawaii	596,675	550,500	515,000
Senator Fong's Plantation and Gardens	99,518	93,704	95,975
Tropic Lightning Museum 8/	9,208	9,524	9,733
Ulu Po Heiau State Monument 1/	2,000	(NA)	(NA)
U.S. Army Museum, Ft. DeRussy 8/	88,816	98,061	114,969
U.S.S. Arizona Memorial	1,534,649	1,468,298	1,423,805
Visiting either Memorial or Visitor Center	1,462,391	1,381,181	(NA)
Aboard non-landing tour boats	72,258	87,117	(NA)

Continued on next page.

**Table 7.35-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1993 TO 1995 - Con.**

Island and cultural attraction	1994	1995	1996
OAHU - con.			
U.S.S. Bowfin Submarine Museum	174,503	172,105	180,227
University of Hawaii Art Gallery	50,000	50,000	50,000
Wahiawa Botanical Garden	31,599	14,448	(NA)
Waikiki Aquarium 9/	120,885	421,306	373,818
Waimea Falls Park	433,497	420,000	402,900
Waipahu Cultural Garden Park	92,000	72,000	29,527
HAWAII			
Astronaut Ellison S. Onizuka Space Center	20,775	17,452	20,159
Hawaii Tropical Botanical Garden	56,038	55,271	39,419
Greenwell Store Museum	6,000	6,000	6,000
Hawaii Volcanoes National Park 10/	2,498,785	2,476,710	2,490,227
Hulihee Palace 11/	22,927	16,987	21,657
Kealakekua Bay State Historical Park 1/	218,000	(NA)	(NA)
Lapakahi State Historical Park 1/	336,000	(NA)	(NA)
Lava Tree State Monument 1/	143,000	(NA)	(NA)
Lyman House Memorial Museum 12/	16,076	15,800	8,142
Panaewa Rainforest Zoo	71,606	75,563	74,840
Parker Ranch Historic Homes	16,117	14,778	14,444
Parker Ranch Visitor Center	17,121	14,690	15,428
Volcano Art Center 13/	90,000	75,000	85,000
Wailoa Center 1/	21,000	38,000	53,000
MAUI			
Alexander & Baldwin Sugar Museum	30,830	29,831	23,676
Halekii-Pihana Heiaus State Monument 1/	7,000	6,433	9,050
Hana Cultural Center	11,100	14,052	11,680
Hawaii Nature Center	10,000	11,400	10,600
Iao Valley State Monument 1/	449,000	624,200	651,600
Kula Botanical Gardens	22,500	23,030	22,470
Lahaina Restoration Foundation	225,570	208,530	202,350
Baldwin Missionary Home Museum	57,020	53,600	48,250
Brig <i>Carthaginian</i>	72,400	65,160	65,300
Hale Pa'ahao (Old Lahaina Prison)	33,500	31,800	30,800
Hale Pa'i Printing House	5,050	8,430	8,200
Wo Hing Temple Museum	57,600	49,540	49,800
Maui Historical Society Bailey House Museum	10,594	13,511	14,140
Maui Tropical Plantation	322,786	307,774	(NA)

Continued on next page.

**Table 7.35-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1994 TO 1996 - Con.**

Island and cultural attraction	1994	1995	1996
MAUI - con.			
Maui Zoological & Botanical Gardens 14/ Whale Center of the Pacific	62,000 400,000	60,000 504,061	- 445,384
KAUAI			
Grove Farm Homestead 15/ Ho'opulapula Haraguchi Rice Mill 16/ Kauai Museum	2,709 - 27,255	3,007 - 23,565	2,356 - 24,835
Kilauea National Wildlife Refuge 17/ Kokee Natural History Museum	80,000 105,813	(NA) 115,813	400,000 128,190
National Tropical Botanical Garden 18/ Russian Fort Elizabeth State Historical Park 19/ Waioli Mission House 20/	- 75,000 1,112	8,439 (NA) -	21,920 (NA) 2,793
MOLOKAI			
Kalaupapa Settlement Molokai Ranch Wildlife Conservation Park 21/ Molokai Museum & Cultural Center (R. W. Meyer Sugar Mill)	4,047 1,903 4,060	6,729 1,891 (NA)	8,995 - (NA)

NA Not available.

1/ Years ended June 30.

2/ The Contemporary Museum also manage the Honolulu Advertiser Gallery (1996 attendance--17,000) and the First Hawaii Center Gallery (1996 attendance--5,300)

3/ Years ended June 30. 1996 Data estimates.

4/ Closed May 1994 to 1996 will reopen as Children's Discovery Center.

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

6/ Different method of counting in 1995.

7/ Closed January 1, 1994.

8/ Fiscal Year starts in October 1 and ends in September 30.

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

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

11/ Closed for repairs 3-1/2 months in 1995, and 1-1/2 months in 1996.

12/ Closed to the public for a major building addition and renovations from June to December 1996. Reopened on March 3, 1997.

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

14/ Closed permanently December 31, 1995.

15/ Closed September 11, 1992 to January 1994.

Continued on next page.

**Table 7.35-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1994 TO 1996 - Con.**

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

17/ Closed September 11, 1992 to May 12, 1994. 1996 Data estimates.

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

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

20/ Closed September 11, 1992 to September 1993.

21/ Closed permanently in 1996.

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

**Table 7.36-- CHARACTERISTICS OF MUSEUMS AND
OTHER CULTURAL ATTRACTIONS: 1996**

Characteristic	Amount
Number of establishments	94
Museums, galleries, arboretums	65
Annual revenues (\$1,000)	153,563.8
Percent from sources outside Hawaii	29.7
Total paid employment	3,302
Full-time equivalent	2,168
Full-time employment	1,900
Part-time employment	1,402
Full-time equivalent	268
Labor income (\$1,000)	74,809.5
Wages and salaries	59,294.5
Fringe benefits	15,514.6
Average earning per full-time employee (dollars)	34,506
Total attendance (1,000)	20,129.8
Total impact on--	
State economic output (\$1,000)	339,400
Household income (\$1,000)	142,500
Employment	5,163

Source: Juanita C. Liu, *The Economic Impact of Hawai'i Museums on the Local Economy* (Hawai'i Museums Association, September 8, 1997), tables 1 and 3.

Table 7.37-- NATIONAL PARKS: 1990 TO 1997

Year and area	Acreage, Dec. 31 1/			Visits
	Total	Federal	Non-federal	
1990	247,349	235,885	11,464	5,607,148
1991	247,349	235,885	11,464	5,853,497
1992	247,349	235,885	11,464	5,701,769
1993	247,349	235,885	11,464	5,828,583
1994	247,349	235,885	11,464	6,077,475
1995	247,349	235,885	11,464	6,213,924
1996	247,349	235,885	11,464	6,192,178
1997	247,349	235,885	11,464	6,738,001
AREAS: 1996				
Hawaii Volcanoes National Park	207,643	207,643	-	2,490,227
Haleakala National Park	27,350	27,350	-	1,582,432
Pu'uuhonua o Honaunau National Historical Park	181	181	-	458,035
Kaloko-Honokohau National Historical Park	1,161	616	545	48,836
Pu'ukohola Heiau National Historic Site	100	60	40	188,843
U.S.S. Arizona Memorial 2/ Kalaupapa National Historical Park	12 10,902	12 23	- 10,879	1,423,805 (NA)
AREAS: 1997				
Hawaii Volcanoes National Park	207,643	207,643	-	2,977,956
Haleakala National Park	27,350	27,350	-	1,634,830
Pu'uuhonua o Honaunau National Historical Park	181	181	-	478,023
Kaloko-Honokohau National Historical Park	1,161	616	545	44,258
Pu'ukohola Heiau National Historic Site	100	60	40	190,450
U.S.S. Arizona Memorial 2/ Kalaupapa National Historical Park	12 10,902	12 23	- 10,879	1,412,484 (NA)

NA Not available.

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

2/ The U.S.S. Arizona Memorial is wholly within the Pearl Harbor Naval Base. The acreage figure is the approximate extent of the total area over which the National Park Service has been granted use rights by the U.S. Navy.

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

Table 7.38-- STATE PARKS AND HISTORIC SITES: 1984 TO 1994

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1984	74	24,751	979.1	19,406
1985	74	24,799	882.1	19,908
1986	74	24,865	882.1	19,680
1987	76	24,909	883.6	20,068
1988	76	24,853	884.9	18,488
1989	77	24,877	887.6	17,270
1990	77	24,857	887.3	19,727
1991	77	24,896	897.3	19,023
1992	80	25,056	921.7	19,255
1993 1/	70	24,779	772.7	15,112
1994	69	24,790	772.2	14,260
ISLANDS: 1993 1/				
Hawaii	18	1,373.5	275.2	7,160
Maui	9	330.8	37.9	2,284
Molokai	1	233.7	10.0	34
Oahu	31	9,090.8	318.5	2,094
Kauai	11	13,750.3	131.1	3,540
ISLANDS: 1994				
Hawaii	18	1,375.3	275.2	7,271
Maui	9	330.8	37.9	1,931
Molokai	1	233.7	10.0	36
Oahu	31	9,090.8	318.5	2,103
Kauai	10	13,759.8	130.6	2,919

1/ Declines since 1992 reflect transfer of 9 areas to the counties, and also closure of all Kauai state parks from Sept. 11, 1992 to March 20, 1993 because of damage caused by Hurricane Iniki.

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

Table 7.39-- MAJOR STATE PARKS: 1993 AND 1994

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

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

1/ Declines since 1992 reflect transfer of 9 areas to the counties, and also closure of all Kauai state parks from Sept. 11, 1992 to March 20, 1993 because of damage caused by Hurricane Iniki.

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

**Table 7.40-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS:
1996 AND 1997**

[As of December 31]

Island	Total sites	Listed Hawaii Register only	Listed National Register only	Listed both Hawaii and National Register	Eligible for National Register 1/
1996					
State total	615	260	109	211	35
Hawaii	121	55	23	38	5
Maui	62	38	4	19	1
Kahoolawe	1	-	1	-	-
Lanai	2	-	-	2	-
Molokai	93	41	10	40	2
Oahu	255	88	67	78	22
Kauai	81	38	4	34	5
1997					
State total	629	271	109	214	35
Hawaii	121	54	23	39	5
Maui	63	38	4	20	1
Kahoolawe	1	-	1	-	-
Lanai	2	-	-	2	-
Molokai	93	41	10	40	2
Oahu	268	101	67	78	22
Kauai	81	37	4	35	5

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

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

Table 7.41-- ZOOS: 1993 TO 1996

Subject and zoo	1993	1994	1995	1996
Species: 1/				
Honolulu Zoo	264	276	289	300
Maui Zoological & Botanical Gardens 2/	30	32	32	-
Molokai Ranch Wildlife Conservation Park 3/	11	9	(NA)	(NA)
Panaewa Rainforest Zoo (Hilo)	52	54	54	59
Individuals: 1/				
Honolulu Zoo	1,252	1,369	1,353	1,311
Maui Zoological & Botanical Gardens 2/	109	114	119	-
Molokai Ranch Wildlife Conservation Park 3/	680	682	(NA)	(NA)
Panaewa Rainforest Zoo (Hilo)	144	156	182	191
Attendance:				
Honolulu Zoo	742,000	755,860	715,046	639,754
Maui Zoological & Botanical Gardens 2/	56,000	62,000	60,000	-
Molokai Ranch Wildlife Conservation Park 3/	2,155	1,903	1,891	(NA)
Panaewa Rainforest Zoo (Hilo)	80,390	71,606	75,563	73,400

NA Not available.

1/ Animal and bird inventory, December 31.

2/ Closed permanently, December 31, 1995.

3/ Closed from August 1993 to May 1994 for renovation, closed permanently in 1996.

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

Table 7.42-- AQUATIC COLLECTIONS: 1996 AND 1997

[For annual attendance, see table 7.33]

Phylum or class	Sea Life Park, Dec. 31, 1997		Waikiki Aquarium, June 30, 1996		Waikiki Aquarium, June 30, 1997	
	Species	Individuals	Species	Individuals	Species	Individuals
Total	255	6,125	347	1,895	403	2,172
Fishes	145	2,000	193	584	198	535
Reptiles	2	30	1	1	1	2
Mammals	1/ 6	1/ 78	1	3	1	3
Invertebrates	95	4,000	152	1,307	203	1,632
Birds	7	17	-	-	-	-

1/ Plus 2 hybrid dolphin/whales.

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

Table 7.43-- COUNTY PARKS, BY ISLANDS: 1994 TO 1996

[As of December 31]

Island	Number			Acreage		
	1994	1995	1996	1994	1995	1996
State totals	615	622	625	9,099	9,362	9,278
Hawaii	134	135	135	1,332	1,361	1,361
Maui	118	118	118	1,122	1,231	1,231
Lanai	4	4	4	15	15	15
Molokai	13	13	13	73	73	73
Oahu	286	291	291	6,021	6,146	6,195
Kauai	60	61	64	536	536	403

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

Table 7.44-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1996

Beach park	Estimated attendance 1/	Rescues	Drownings	Surfing accidents
All parks	18,969,113	1,748	3	293
Ala Moana	1,601,162	260	-	16
Waikiki	7,882,618	529	-	114
Hanauma	1,900,007	164	1	-
Sandy	644,645	122	1	45
Makapuu	299,287	45	-	8
Bellows	113,598	9	-	-
Kailua	505,027	38	-	2
Kualoa	149,403	3	-	1
Waimanalo	298,798	24	1	4
Sunset	638,512	31	-	13
Ehukai	551,375	28	-	22
Ke Waena	370,431	23	-	11
Waimea	708,485	93	-	11
Alii	390,115	40	-	7
Nanakuli	519,591	25	-	3
Depots	269,746	33	-	1
Maili	615,925	52	-	13
Pokai Bay	596,239	110	-	8
Makaha	619,472	100	-	8
Keauwaula	294,677	19	-	6

1/ Based on headcounts taken at approximately two-hour intervals by Water Safety Officers over an 8-hour work day.

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

Table 7.45-- SWIMMING AND SURFING SITES, BY ISLANDS

Subject	Six islands	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Miles of sandy shoreline 1/	184.9	19.4	32.6	18.2	23.2	50.3	41.2
Primary 2/	24.4	1.2	7.9	-	-	12.5	2.8
Other	160.5	18.2	24.7	18.2	23.2	37.8	38.4
Number of surfing sites 3/	1,600	185	212	99	180	594	330

1/ Surveyed in 1962.

2/ Safe, clean, accessible, and generally suitable for swimming.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Shoreline* (1965), p. 7; Surfing Education Association, *The 1971 Statewide Surfing Site Survey*, Vol. 1, p. 93.

Table 7.46-- COUNTY TENNIS FACILITIES: 1995 AND 1996

[As of December 31]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Locations:							
1995	88	20	11	1	1	46	9
1996	89	20	11	1	1	47	9
Courts:							
1995	286	44	39	2	2	1/ 177	22
1996	291	45	39	2	2	181	22

1/ 122 lighted.

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

Table 7.47-- GOLF COURSES, BY NUMBER OF HOLES, OWNERSHIP, AND ISLANDS: EARLY 1996

Status, island, and ownership	Number of golf courses						Number of holes
	Total	9-hole	18-hole	27-hole	36-hole	54-hole	
State total	73	11	54	1	5	2	1,386
Hawaii	16	2	12	-	2	-	306
Municipal	1	-	1	-	-	-	18
Private	15	2	11	-	2	-	288
Maui	9	1	3	-	3	2	279
Municipal	1	-	1	-	-	-	18
Private	8	1	2	-	3	2	261
Lanai	3	1	2	-	-	-	45
Private	3	1	2	-	-	-	45
Molokai	2	1	1	-	-	-	27
Private	2	1	1	-	-	-	27
Oahu	35	5	30	-	-	-	585
Military	9	3	6	-	-	-	135
Municipal	6	1	5	-	-	-	99
Private	20	1	19	-	-	-	351
Kauai	8	1	6	1	-	-	144
Municipal	1	-	1	-	-	-	18
Private	7	1	5	1	-	-	126

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

Table 7.48-- AVERAGE ANNUAL GOLF ROUNDS, TOTAL GOLF REVENUES AND TOTAL MIX OF PLAY: 1995 AND 1996

Subject	1995	1996
Average annual rounds played per course (Statewide)	55,155	58,499
Oahu	65,769	69,632
Maui County	35,743	36,849
Kauai	31,727	32,410
Big Island	48,434	48,185
Total golf revenues (million dollars)	309	328
Green fees	199	209
Merchandise	77	85
Food and beverage	23	24
Rental clubs/shoes	3	3
Driving range	6	7
Total mix of play (percent)		
Resident	77	73
Tourist	23	27

Source: Coopers & Lybrand, records.

**Table 7.49-- COUNTY GOLF COURSES AND CAMPING PERMITS,
FOR OAHU: 1990 TO 1996**

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
1990	5	81	519,563	9,865
1991	5	81	580,888	9,633
1992	5	81	654,726	9,938
1993	5	81	638,972	10,251
1994	5	81	580,120	8,778
1995	6	99	650,934	10,514
1996	6	99	685,191	10,622

1/ By the City and County of Honolulu.

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

Table 7.50-- HAWAIIAN OPEN SCORES AND PURSES: 1991 TO 1998

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

Year	Holes	Winning score		Purse (dollars)	
		Total	Below par	Total	Winner
1991	72	270	18	1,100,000	198,000
1992	72	265	23	1,200,000	216,000
1993	72	269	19	1,200,000	216,000
1994	72	269	19	1,200,000	216,000
1995	72	269	19	1,200,000	216,000
1996	72	277	11	1,200,000	216,000
1997	72	271	17	1,200,000	216,000
1998	72	260	28	1,800,000	324,000

Source: *Honolulu Star-Bulletin*, various issues.

Table 7.51-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: OCTOBER 30, 1997

Island	Public hunting areas		National Wildlife Refuges		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total	57	1,015.6	18	520.5	9	80.6
Hawaii	27	748.4	1	32.7	4	79.5
Maui	7	90.3	3	0.7	1	0.1
Lanai	1	35.6	-	-	-	-
Molokai	1	16.0	1	0.0	-	-
Oahu	10	18.6	3	0.2	4	0.7
Kauai	11	106.7	3	1.4	-	-
Other islands	-	-	7	485.5	(1/)	0.3

1/ The Hawaii State Seabird Sanctuary is comprised of 36 islets offshore all major islands, including Kure Atoll in the Northwestern Hawaiian Islands. This sanctuary is administered out of the Oahu District office.

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

Table 7.52-- FISHING AND HUNTING LICENSES ISSUED: 1992 TO 1997

[Years ended June 30]

Type of license	1992	1993	1994	1995	1996	1997
Freshwater fishing	12,588	11,072	9,612	7,740	6,557	6,505
Hunting	10,685	10,683	11,073	10,863	10,969	9,888

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

Table 7.53-- FISHING, HUNTING, AND WILDLIFE-ASSOCIATED RECREATION OF PERSONS 16 YEARS OF AGE AND OLDER: 1996

[For 1980 survey results, see *Data Book 1984*, table 251]

Subject	All activities	Hunting and fishing			Wildlife watching
		Both	Fishing	Hunting	
Hawaii residents: 1/					
Participants (1,000)	201	136	132	21	123
Expenditures (million dollars)	182	112	(NA)	(NA)	70
Taking place in Hawaii: 2/					
Participants, total (1,000)	(NA)	(NA)	260	23	255
Hawaii residents	(NA)	(NA)	130	23	51
Residents of other states	(NA)	(NA)	130	(B)	204
Expenditures (million dollars)	445	150	130	16	295

B Sample size too small to report data reliably.

NA Not available

1/ Estimated population 16 years old or more was 900,000.

2/ Excludes foreign residents.

Source: U.S. Fish and Wildlife Service and U.S. Bureau of the Census, *1996 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation* (November 1997), pp. 97-103, 107, 111, 113.

**Table 7.54-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND
WINNING TIMES: 1991 TO 1997**

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1991	14,605	13,038	2:18:24	2:40:11
1992	30,905	23,515	2:14:19	2:32:13
1993	29,514	23,640	2:13:16	2:32:20
1994	32,771	25,833	2:15:04	2:37:06
1995	34,434	27,022	2:16:08	2:37:29
1996	30,864	24,414	2:13:23	2:34:28
1997	33,682	26,495	2:12:17	2:33:14

NA Not available.

Source: Honolulu Marathon Association, records; Honolulu Marathon Records & Statistics, at <http://www.honolulumarathon.org/stats.html>

**Table 7.55-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP
PARTICIPANTS, FINISHERS, AND WINNING TIMES: 1991 TO 1997**

Year	Number of participants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1991	1,379	1,312	8:18:32	9:07:52
1992	1,379	1,298	8:09:08	8:55:29
1993	1,438	1,353	8:07:45	8:58:23
1994	1,405	1,290	8:20:27	9:20:14
1995	1,444	1,325	8:20:34	9:16:46
1996	1,421	1,288	8:04:08	9:06:49
1997	1,478	1,365	8:33:01	9:31:43

Source: Ironman Triathlon World Championship, records; October 7, 1995 race from JTL Timing Systems Hawaii at <http://www.ironmantri.com/1995.html>; and October 26, 1996 race from JTL Timing Systems Hawaii at <http://www.ironmantri.com/1996.html>; and October 18, 1997 race from JTL Timing Systems Hawaii at <http://www.ironmantri.com/1997.html>

**Table 7.56-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES
AND WINNING TIMES: 1985 TO 1997**

[The Honolulu Race, sponsored by the Transpacific Yacht Club of Los Angeles,
is run biennially between San Pedro, California, and Diamond Head Lighthouse,
a great circle distance of 2,217 nautical miles]

Year	Boats entered	Winning times (days, hours, minutes, seconds)	
		Elapsed	Corrected
1985	65	13:06:31:19	9:14:07:40
1987	55	8:12:00:40	8:00:56:41
1989	45	8:12:50:35	8:02:54:08
1991	42	10:08:59:35	9:22:34:13
1993	42	9:09:11:17	8:28:09:06
1995	35	9:01:32:02	8:22:41:48
1997	39	8:06:31:00	7:01:46:11

Source: Transpac 97' website, <http://www.kenwoodcorp.com/transpac97/finalstdgs.html>

**Table 7.57-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:
1992-1993 TO 1997-1998 SEASONS**

Bowl	1992- 1993	1993- 1994	1994- 1995	1995- 1996	1996- 1997	1997- 1998
Aloha Bowl	21,709	23,645	20,092	20,780	19,467	34,419
Hula Bowl 1/ Pro Bowl	19,952	25,726	17,074	14,933	14,725	20,079
Pro Bowl	48,237	47,560	45,828	47,066	47,205	49,995

1/ The 1998 Hula Bowl was played at Maui's War Memorial Stadium.
Source: Aloha Stadium, records; *Honolulu Star-Bulletin*, various issues.

**Table 7.58-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF
HAWAII AT MANOA: 1994-1995 TO 1996-1997**

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

Sports	Games played 1/				Home games	
	Total	Won	Lost	Tied	Home dates	Attendance
1994-1995:						
Baseball	54	30	24	-	38	92,047
Basketball (men's)	29	16	13	-	17	143,763
Basketball (women's)	26	6	20	-	16	13,747
Football	12	3	8	1	8	306,989
Volleyball (men's)	23	18	5	-	23	45,916
Volleyball (women's)	30	25	5	-	18	72,652
1995-1996:						
Baseball	55	29	26	-	39	129,696
Basketball (men's)	28	10	18	-	16	110,594
Basketball (women's)	29	23	6	-	17	54,010
Football	7	4	8	-	7	242,433
Volleyball (men's)	30	27	3	-	18	2/ 137,344
Volleyball (women's)	32	31	1	-	24	145,006
1996-1997:						
Baseball	56	22	34	-	39	108,537
Basketball (men's)	29	21	8	-	19	145,416
Basketball (women's)	29	21	8	-	18	22,725
Football	12	2	10	-	8	263,986
Volleyball (men's)	29	18	11	-	18	142,732
Volleyball (women's)	38	35	3	-	22	184,314

1/ Volleyball data refer to matches.

2/ Includes one MPSF play-off that UH did not play in.

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

**Table 7.59-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:
1994-1995 AND 1995-1996 SEASONS**

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
1994-1995: 3/ Baseball	Boys	321	16,650	134,032
Basketball	Boys and girls	562	60,583	256,530
Football	Boys	157	169,742	446,858
1995-1996: Baseball	Boys	323	18,700	141,254
Basketball	Boys and girls	562	73,928	281,955
Football	Boys	157	163,259	469,383

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

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

3/ Because of possible changes in data collecting, numbers may not be comparable to those published in previous years.

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

Table 7.60-- PROFESSIONAL BOXING: 1993 TO 1997

Year	Number of promoters	Number of shows	Paid attendance	Gross receipts (dollars)
1993	1	1	472	12,385
1994	3	6	8,022	191,150
1995	2	4	2,636	48,280
1996	3	3	2,653	64,781
1997	2	3	1,967	44,645

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

Table 7.61-- DOG LICENSES ISSUED, BY ISLANDS: 1993 TO 1997

[Dogs are licensed on a biennial basis]

Year	State total	Hawaii	Maui 1/	Lanai	Molokai	Oahu	Kauai
1993	27,586	4,006	2,427	26	46	20,081	1,000
1994	29,010	4,099	3,171	26	57	19,485	2,172
1995	28,442	4,911	1,446	82	48	20,030	1,925
1996	30,376	5,381	699	32	58	21,245	2,961
1997	28,395	5,871	1,378	33	80	19,713	1,320

1/ Beginning in January 1995, the number of registrations issued by the animal shelter were not included in the count. Therefore, the figures for 1995, 1996, and 1997 were affected by this change.

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the County Departments of Finance; Hawaiian Humane Society (for Oahu, 1995-1997).

Section 8

ELECTIONS

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

The official results of primary, general, and special elections are published by the Hawaii State Office of Elections. Additional information is often available from the various county clerks. Earlier figures for Hawaii appear in *Historical Statistics of Hawaii*, Section 24. National statistics appear in the *Statistical Abstract of the United States: 1997*, Section 8.

Table 8.01-- POPULARLY ELECTED OFFICIALS OF STATE AND LOCAL GOVERNMENTS: 1967 TO 1992

Year	Elected State and local officials			Elected State officials	Elected local officials
	Number	Rank 1/	Rate 2/		
1967	184	50	2.5	89	95
1977	172	50	1.9	87	85
1987	160	50	1.5	91	69
1992	183	50	1.7	91	92

1/ Among the 50 States.

2/ Per 10,000 population. In 1992, Hawaii ranked 50th among the 50 States in this rate.

Source: U.S. Bureau of the Census, *1987 Census of Governments*, Vol. 1, *Government Organization*, No. 2, *Popularly Elected Officials*, GC87(1)-2, January 1990, table 2; *1992 Census of Governments*, GC92(1)-2, *Popularly Elected Officials* (June 1995), tables 2 and 3.

**Table 8.02-- POPULATION OF VOTING AGE AND PERCENT VOTING:
1988 TO 1998**

Subject	1988	1990	1992	1994	1996	1998
Persons of voting age 1/ (1,000)	804	837	858	871	875	878
Percent casting votes for--						
Presidential electors	44.0	(X)	43.1	(X)	40.8	(NA)
U.S. Representatives	42.3	40.5	41.4	40.3	40.3	(NA)

X Not applicable.

NA Not available.

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

Source: *Statistical Abstract of the United States: 1997*, p. 290; U.S. Bureau of the Census, "Projections of the Voting-Age Population for States: November 1998," *Current Population Reports*, P25-1132, April 1998, p. 14.

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

[Civilian noninstitutional population of voting age]

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

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

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

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

**Table 8.04-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND
GENERAL ELECTIONS, BY COUNTIES: 1996**

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

Source: Office of Elections, records.

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

Type and date of election	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTIONS:					
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20	384,858	186,982	197,876	264,041	68.6
1982: Sept. 18	385,307	185,763	199,544	272,691	70.8
1984: Sept. 22	398,858	190,525	208,333	221,957	55.6
1986: Sept. 20	398,197	189,655	208,542	281,352	70.7
1988: Sept. 17 1/	419,441	199,643	220,225	275,673	65.7
1990: Sept. 22	436,323	207,897	228,426	276,407	63.3
1992: Sept. 19	432,723	206,642	226,081	251,582	58.1
1994: Sept. 17	468,739	225,986	242,753	309,700	66.1
1996: Sept. 21	531,892	257,616	274,276	275,548	51.8
GENERAL ELECTIONS:					
1976: Nov. 2	363,045	180,265	182,780	309,025	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	79.0
1982: Nov. 2	405,005	195,259	209,746	325,459	80.4
1984: Nov. 6	418,904	200,424	218,480	349,253	83.4
1986: Nov. 4	419,794	200,233	219,561	344,416	82.0
1988: Nov. 8	443,742	211,539	232,203	368,567	83.0
1990: Nov. 6	453,389	216,433	236,956	354,144	78.1
1992: Nov. 3	464,495	222,721	241,774	382,882	82.4
1994: Nov. 8	488,889	236,251	252,638	377,011	77.1
1996: Nov. 5	544,916	264,084	280,832	370,230	67.9

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

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

**Table 8.06-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, SEPTEMBER 21, 1996**

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

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

**Table 8.07-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTIONS:
1986 TO 1996**

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

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

**Table 8.08-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTION,
BY COUNTIES: SEPTEMBER 21, 1996**

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

1/ Includes count of overseas ballots.

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

**Table 8.09-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES
CAST, BY ISLANDS: NOVEMBER 5, 1996**

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

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

Source: Office of Elections, records.

Table 8.10-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 5, 1996

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

Source: Office of Elections, records.

**Table 8.11-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1986 TO 1996**

Office and election year	Total votes cast 1/	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1988	354,461	Dukakis, M.	192,364	Bush G.	158,625	3,472
1992	372,842	Clinton, W.	179,310	Bush, G.	136,822	56,710
1996	360,120	Clinton, W.	205,012	Dole, R.	113,943	41,165
U.S. SENATOR						
1986	328,797	Inouye, D.	241,887	Hutchinson, F.	86,910	-
1988	323,876	Matsunaga, S.	247,941	Hustace, M.	66,987	8,948
1990	349,666	Akaka, D. 2/	188,901	Saiki, P.	155,978	4,787
1992	363,662	Inouye, D.	208,266	Reed, R.	97,928	57,468
1994	376,768	Akaka, D.	256,189	Hustace, M.	86,320	14,393
U.S. REPRESENTATIVE, DISTRICT 1						
1986	168,377	Hannemann, M.	63,061	Saiki, P.	99,683	5,633
1988 3/	177,020	Bitterman, M.	76,394	Saiki, P.	96,848	3,778
1990	162,711	Abercrombie, N.	97,622	Liu, M.	62,982	2,107
1992	177,476	Abercrombie, N.	129,332	Sutton, W.	41,575	6,569
1994	176,706	Abercrombie, N.	94,754	Swindle, O.	76,623	5,329
1996	172,206	Abercrombie, N.	86,732	Swindle, O.	80,053	5,421
U.S. REPRESENTATIVE, DISTRICT 2						
1986	162,819	Akaka, D.	123,830	Hustace, M.	35,371	3,618
1988	162,808	Akaka, D.	144,802	None	-	18,006
1990	178,288	Mink, P.	118,155	Poepoe, A.	54,625	5,508
1992	180,955	Mink, P.	131,454	Price, K.	40,070	9,431
1994	177,396	Mink, P.	124,431	Garner, R.	42,891	10,074
1996	180,963	Mink, P.	109,178	Pico, T.	55,729	16,056

Continued on next page.

**Table 8.11-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1986 TO 1996 -- Con.**

Office and election year	Total votes cast 1/	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
STATE GOVERNOR						
1986	334,115	Waihee, J.	173,655	Anderson, D.	160,460	-
1990	340,132	Waihee, J.	203,491	Hemmings, F.	131,310	5,331
1994	369,013	Cayetano, B.	134,978	Saiki, P.	107,908	(4/)
CITY & COUNTY OF HONOLULU, MAYOR 5/						
1988	263,882	Bornhorst, M.	117,479	Fasi, F.	146,403	-
1992	263,328	O'Connor, D.	124,719	Fasi, F.	127,939	10,670
1996 6/	254,780	-	-	-	-	254,780

1/ Excludes over votes and blank votes.

2/ D. Akaka was appointed by the Governor to fill the seat made vacant by the death of Senator Matsunaga. He was sworn in on May 16, 1990 and elected on Nov. 8, 1990.

3/ For special election to fill unexpired term of Representative Heftel, Sept. 20, 1986, see table 280.

4/ The total for other parties, 126,127, included 113,158 for F. Fasi (Best) and 12,969 for K. Dudley (Green).

successor. This special election was held in conjunction with the 1994 primary election, with all 14 candidates running on a nonpartisan, winner-take-all basis. A total of 213,616 votes was cast, excluding over votes and

6/ Nonpartisan election. The top two candidates in the Primary Election faced each other in the General Election. J. Harris received 146,034 votes and A. Morgado received 108,746 votes.

Source: Office of Elections, *Results of Votes Cast, General Elections, 1986-1996*,

**Table 8.12-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, NOVEMBER 5, 1996**

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

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

2/ Includes counts of overseas ballots.

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

**Table 8.13-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD
OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES:
NOVEMBER 5, 1996**

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

Source: Office of Elections, records.

Table 8.14-- CAMPAIGN EXPENDITURES: 1992 ELECTIONS

[Dollars. Table excludes national races. No reports covering the 1994 and 1996 elections have been published]

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

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

**Table 8.15-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU:
1983 TO 1997**

Year	Number of boards		Board seats elected	Ballots mailed	Voters (ballots cast)
	In operation, Dec. 31	Holding elections			
1983	28	28	416	231,622	61,425
1985	30	30	438	255,045	74,583
1987	30	30	438	260,155	83,072
1989	30	30	438	273,954	91,285
1991	30	30	438	260,923	85,457
1993	30	30	444	279,392	97,476
1995	31	31	447	281,437	85,597
1997	32	32	456	273,768	83,278

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

**Table 8.16-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE:
1987 TO 1997**

Regular session	House of Representatives				Senate			
	Total	Democrats	Republicans	Other	Total	Democrats	Republicans	Other
1987	51	40	11	-	25	20	5	-
1989	51	45	6	-	25	22	3	-
1991	51	45	6	-	25	22	3	-
1993	51	47	4	-	25	22	3	-
1995	51	44	7	-	25	23	2	-
1997	51	39	12	-	25	23	2	-

Source: Office of Elections, records.

Table 8.17-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1995 AND 1997

[As of January]

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

Source: Office of Elections, records.

Table 8.18-- LENGTH OF LEGISLATIVE SESSIONS: 1991 TO 1997

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1991	Jan. 16	111	June 24	5
1992	Jan. 15	107	None	-
1993	Jan. 20	104	Aug. 23	22
1994	Jan. 19	104	None	-
1995	Jan. 18	104	2/ June 5	3/ 7
1996	Jan. 17	104	None	-
1997	Jan. 15	107	-	-

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

2/ The Second Special Session of 1995 convened Sept. 20.

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

Source: Legislative Reference Bureau, records.

**Table 8.19-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
1995 TO 1997**

Action	Session				
	1995			1996 Regular	1997 Regular
	Regular	First Special	Second Special		
House bills:					
Carried over from previous year	-	-	-	2,179	-
Introduced	2,354	22	-	1,793	2,329
Passed 1/	175	20	-	200	242
Vetoed	39	-	-	17	6
Became law 2/	136	20	-	182	235
Senate bills:					
Carried over from previous year	-	-	-	1,799	-
Introduced	1,951	15	-	1,271	1,958
Passed 1/	152	15	-	145	157
Vetoed	44	1	-	10	8
Became law 3/	107	14	-	133	148
House resolutions:					
Offered	340	2	-	337	242
Adopted	138	2	-	112	117
House concurrent resolutions:					
Offered	342	-	-	345	290
Adopted	54	-	-	29	37
Senate resolutions:					
Offered	266	3	1	238	150
Adopted	118	3	1	71	32
Senate concurrent resolutions:					
Offered	309	-	-	289	279
Adopted	52	-	-	23	25

1/ Includes bills for constitutional amendments: S.B. 887 in 1995; H.B. 4142, S.B. 2211, and S.B. 3091 in 1996; H.B. 117 and S.B. 209 in 1997.

2/ The 1995 total includes H.B. 1220, which includes a vetoed item. The 1995 First Special total includes H.B. 17 which became law without the Governor's signature. The 1996 total includes H.B. 2800, which includes vetoed items. The 1997 total includes H.B. 118 which became law without the Governor's signature.

3/ The 1995 total includes H.B. 1220, which includes S.B. 171, S.B. 1375, and S.B. 1509 which became law without the Governor's signature. The 1996 total includes S.B. 659, which became law without the Governor's signature.

Source: Legislative Reference Bureau, records.

Section 9

GOVERNMENT FINANCES AND EMPLOYMENT

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

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the Hawaii State Department of Health. Separate municipal governments do not exist.

Important sources for statistics on government in Hawaii include the quinquennial U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, *Government in Hawaii: A Handbook of Financial Statistics*. Data extending back to the middle of the 19th century are summarized in *Historical Statistics of Hawaii*, Section 25. Comparable national statistics appear in the *Statistical Abstract of the United States: 1997*, Sections 9 and 10.

**Table 9.01-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1980 TO 1996**

[In thousands of dollars. For fiscal years ended September 30 for federal, June 30 for others]

Year	All levels	Federal	State and counties		
			Total	State	Counties
1980	2,966,128	1,670,459	1,295,669	1,255,622	40,047
1981	3,245,507	1,826,363	1,419,144	1,371,490	47,655
1982	3,314,106	1,876,628	1,437,478	1,132,699	304,779
1983	3,451,664	1,897,858	1,553,806	1,225,010	328,796
1984	3,655,283	1,980,467	1,674,816	1,331,551	343,265
1985	3,922,942	2,116,773	1,806,169	1,440,553	365,616
1986	4,296,653	2,337,028	1,959,625	1,562,195	397,429
1987	4,997,831	2,809,135	2,188,696	1,776,430	412,266
1988	5,765,935	3,310,750	2,455,185	2,033,181	422,004
1989	6,464,598	3,731,845	2,732,753	2,283,891	448,862
1990	7,212,998	4,264,127	2,948,871	2,441,273	507,598
1991	7,904,148	4,570,534	3,333,614	2,753,562	580,052
1992	7,975,930	4,542,943	1/ 3,432,986	2,772,325	660,662
1993	8,033,353	4,489,142	3,544,211	2,829,710	714,501
1994	8,346,552	4,613,645	3,732,906	2,991,811	741,096
1995	8,211,146	4,461,739	3,749,407	3,012,835	736,572
1996	(NA)	4,573,256	(NA)	(NA)	(NA)

NA Not available.

1/ Correction of typographical error showing \$3,432,966 in *Data Book 1996*. Other data are correct.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual) and U.S. Department of the Treasury, Internal Revenue Service, *Annual Report of the Commissioner* (annual), and *Data Book, 1993-94, 1995*, and for 1996, <http://www.irs.ustreas.gov/tax_stats/96CR 3CL.exe>.

Table 9.02-- FEDERAL TAX COLLECTIONS, BY SOURCE: 1993 TO 1996

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

Source	1993	1994	1995	1996
Federal collections	4,489,142	4,613,644	4,461,739	4,573,256
Corporate income and excess profits	339,372	389,484	371,960	403,869
Indiv. income and employment	4,009,669	4,060,861	3,968,349	4,045,271
Income tax not withheld & SECA 1/	879,235	873,167	834,124	892,202
Income tax withheld & FICA 2/	3,109,314	3,165,905	3,113,111	3,133,796
Railroad retirement	-	2	4	-
Unemployment insurance	21,120	21,787	21,110	19,273
Estate	71,433	85,516	55,593	65,512
Gift	5,517	6,995	4,817	6,940
Excise	63,151	70,788	61,020	51,664

1/ SECA Self employment insurance contributions.

2/ FICA Federal Insurance Contributions Act, includes old-age, survivors, disability, and hospital insurance taxes on wages and salaries.

Source: U.S. Department of the Treasury, Internal Revenue Service, *Annual Report of the Commissioner* (annual), and *Data Book, 1993-94, 1995*, and for 1996, <http://www.irs.ustreas.gov/tax_stats/96CR_3CL.exe>.

**Table 9.03-- STATE AND COUNTY TAX COLLECTIONS, BY SOURCE:
1985 TO 1995**

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

Source	1985	1993	1994	1995
Total State and county tax collections	1,806,169	3,544,211	3,732,906	3,749,407
State collections 1/	1,440,553	2,829,710	2,991,811	3,012,835
General excise and use	684,028	1,303,584	1,332,891	1,363,920
Transient accommodations 2/	-	80,317	76,527	98,046
Fuel	58,539	130,450	135,918	134,031
Liquor	20,635	39,349	38,997	38,362
Tobacco	19,717	32,239	32,658	35,386
Insurance	28,705	66,869	63,726	62,271
Public service companies	62,305	86,229	92,292	100,505
Banks and other financial institutions	3,881	23,783	29,434	17,048
Corporate income 3/	44,837	29,344	38,995	30,249
Indiv. income, net income 4/	429,256	922,912	962,543	925,704
Inheritance and estate	12,260	11,771	28,120	16,438
Real property 5/	50	-	-	-
Conveyance	1,861	3,760	7,665	6,952
Environmental response (FY94)	-	-	1,470	1,953
Rental vehicle surcharge	-	20,914	20,366	21,465
Hospital and nursing home 6/	-	-	26,718	16,601
Licenses, permits, and others	5,778	12,558	14,913	21,104
Unemployment compensation	68,701	65,633	88,578	122,801
County collections 1/	365,616	714,501	741,096	736,572
Real property	308,156	603,821	624,815	612,149
Liquor licenses and fees	3,214	4,439	4,461	4,366
Utility franchise	18,779	21,194	25,181	24,718
Motor vehicle weight 7/	26,253	63,046	62,623	69,057
Licenses, permits, and others	9,214	22,000	24,015	26,282

1/ Article VIII, Section 3 of the State Constitution, as amended in 1978, mandated transfer of real property tax administration, including collection of the tax, to the counties, effective July 1, 1981. State collections represent real property taxes for prior years.

2/ Effective January 1, 1987.

3/ Includes payments of estimated taxes less refunds.

4/ Includes withheld and estimated taxes less refunds.

5/ Reflects correction of source data (inadvertent row deletion).

6/ Hospital tax repealed in 1994.

7/ Includes State motor vehicle weight tax.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual), table 13. *Government in Hawaii*, 1996 as corrected.

**Table 9.04-- ESTIMATED STATE AND LOCAL TAXES PAID BY A
FAMILY OF FOUR, FOR HONOLULU AND THE MEDIAN AND
AVERAGE OF 51 MAJOR CITIES: 1995 AND 1996**

Gross family income level (dollars)	Honolulu		51-city median 1/		51-city average 2/	
	Taxes (dollars)	Percent of income	Taxes (dollars)	Percent of income	Taxes (dollars)	Percent of income
1995						
25,000	2,023	8.1	1,985	7.9	2,043	8.2
50,000	4,525	9.1	4,048	8.1	4,305	8.6
75,000	7,643	10.2	7,030	9.4	7,195	9.6
100,000	10,427	10.4	9,490	9.5	9,676	9.7
1996						
25,000	1,934	7.7	1,989	8.0	2,071	8.3
50,000	4,453	8.9	4,092	8.2	4,312	8.6
75,000	7,457	9.9	6,989	9.3	7,025	9.4
100,000	10,229	10.2	9,555	9.6	9,486	9.5
150,000	16,907	11.3	14,659	9.8	14,476	9.7

1/ Largest city in each state and District of Columbia.

2/ Largest city in each state and District of Columbia. Based on cities actually levying tax.

Source: For 1995: *Statistical Abstract of the United States: 1997*, p. 316. For 1996: Government of the District of Columbia, *Tax Rates and Tax Burdens In the District of Columbia- A National Comparison 1996*, (July 1997), table 1.

Table 9.05-- HAWAII STATE GOVERNMENT FINANCES: 1996

[Amount in thousands of dollars, per capita in dollars. Fiscal year ended June 30]

Category 1/	Amount	Percent distribution	Per capita
Total revenue	6,383,347	100.0	5,391.34
General revenue	5,379,231	84.3	4,543.27
Intergovernmental revenue	1,227,974	19.2	1,037.14
Taxes	3,079,404	48.2	2,600.85
General sales	1,431,802	22.4	1,209.29
Selective sales	472,881	7.4	399.39
License taxes	85,456	1.3	72.18
Individual income	999,976	15.7	844.57
Corporation net income	65,547	1.0	55.36
Other taxes	23,742	0.4	20.05
Current charges	755,596	11.8	638.17
Miscellaneous general revenue	316,257	5.0	267.11
Insurance trust revenue	1,004,116	15.7	848.07
Total expenditure	5,946,676	100.0	5,022.53
General expenditure, by function:	5,229,112	87.9	4,416.48
Education	1,548,266	26.0	1,307.66
Public welfare	914,957	15.4	772.77
Hospitals	181,127	3.0	152.98
Health	305,725	5.1	258.21
Highways	269,998	4.5	228.04
Police protection	8,618	0.1	7.28
Correction	105,997	1.8	89.52
Natural resources	75,358	1.3	63.65
Parks and recreation	109,075	1.8	92.12
Governmental administration	268,141	4.5	226.47
Interest on general debt	332,513	5.6	280.84
Other and unallocable	1,109,337	18.7	936.94
Utility expenditure	168	-	0.14
Liquor stores expenditure	0	0.0	0.00
Insurance trust expenditure	717,396	12.1	605.91
General expenditure	5,229,112	87.9	4,416.48
Intergovernmental expenditure	144,333	2.4	121.90
Direct expenditure	5,084,779	85.5	4,294.58
Debt at end of fiscal year	5,116,982	100.0	4,321.78
Cash and security holdings	9,675,590	100.0	8,171.95

1/ Utility revenue, and Liquor stores revenues and expenditures are zero.

Source: U.S. Department of Commerce, <<http://www.census.gov/govs/state/96sthi.html>>.

Table 9.06-- STATE GOVERNMENT REVENUES: 1994 AND 1995

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

Source of revenues	1994 All funds	1995		
		All funds	General fund	Special funds
Total 1/	5,141,218	5,045,203	2,907,945	2,137,258
Tax revenues	3,000,067	2,829,709	2,594,746	234,963
General excise	1,330,239	1,358,262	1,358,262	-
Specific excises 2/	469,964	379,587	238,123	141,464
Individual income	969,108	925,338	925,338	-
Corporate income	36,840	30,249	30,249	-
Transient accommodations	3,895	4,135	4,135	-
Unemployment compensation	85,174	62,687	-	62,687
Other taxes, licenses, permits 3/	104,847	69,451	38,639	30,812
Fines, forfeits, and escheats	17,407	17,821	15,926	1,895
Federal grants-in-aid	938,322	964,769	17,583	947,186
Revenues from other agencies	33,440	34,098	6,442	27,656
Rents, royalties, land income 4/	122,203	145,021	6,479	138,542
Earnings: general departments	460,681	493,845	123,192	370,653
Earnings: auxiliary enterprises	52,415	56,141	-	56,141
Earnings: public service enterprises	230,326	190,701	-	190,701
Interest earned	152,172	151,314	78,203	73,111
Miscellaneous	134,185	161,784	65,374	96,410

1/ Excludes transfers and repayments except as shown.

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

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

4/ Includes investment and unallocable interest income.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1996*, table 12.

**Table 9.07-- STATE GOVERNMENT OPERATING EXPENDITURES,
BY FUNCTION: 1985 TO 1995**

[In thousands of dollars. For fiscal years ended June 30. Data include general, special, and proprietary fund expenditures; unemployment trust fund treated as a special fund. Interfund transfers eliminated to avoid duplication]

Functions	1985	1994	1995
Total 1/	2,529,814	5,573,617	5,781,263
General government: Control	51,793	113,666	118,535
Staff	82,218	366,848	395,249
Public safety: Police and fire	2,066	11,218	12,287
Other protection	78,853	176,163	164,653
Highways	58,534	125,105	140,776
Natural resources	21,031	42,560	47,372
Health and sanitation	104,350	186,710	189,114
Hospitals and institutions	87,233	331,924	315,107
Public welfare 1/	321,112	851,575	1,009,033
Education: Higher	272,478	542,443	587,231
Public education	414,815	843,958	894,437
Libraries and other	21,854	46,352	46,305
Recreation	14,256	37,985	43,184
Utilities and other enterprises	160,692	286,438	280,063
Debt service 2/	240,078	460,258	504,790
Retirement and pension	142,354	275,168	190,630
Employees' health and hosp. Insurance	32,644	622	738
Unemployment compensation	79,562	243,985	219,539
Grants-in-aid to counties	18,173	2,375	3,843
Urban redevelopment and housing	229,545	142,609	135,101
Miscellaneous	35,668	112,760	189,671
Cash capital improvements	60,504	372,896	293,603

1/ Reflects Source correction for Total for 1994 of \$5,636,090,973 and Public welfare \$831,575,136; and revision of Cash capital improvements of \$455,369,454 to \$372,895,882.

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

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

**Table 9.08-- COUNTY GOVERNMENT OPERATING REVENUES,
BY SOURCE: 1995**

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

Subject	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total 1/	1,379,350	948,802	149,601	158,154	122,793
Taxes	725,744	504,324	85,904	102,329	33,188
Real property taxes	612,149	419,113	74,270	91,200	27,566
Liquid fuel	58,567	44,708	5,745	5,613	2,501
Utility franchise	24,718	17,146	2,970	3,216	1,386
Motor vehicle weight	30,310	23,357	2,919	2,300	1,734
Liquor licenses and fees	4,366	2,050	1,126	849	341
Parking meter fees	4,787	4,651	-	136	-
Other 2/	25,022	19,578	2,104	2,639	702
Fines, forfeits, and penalties	2,196	638	980	578	-
Departmental earnings 3/	279,150	234,012	28,347	8,750	8,042
Mass transit	25,924	25,924	-	-	-
State grants	127,476	40,686	24,135	23,136	39,520
Unrestricted 4/	78,747	34,680	17,930	14,627	11,510
Others	51,730	6,006	6,205	11,509	28,009
Federal grants	108,549	49,215	5,314	14,320	39,701
Hawaii Housing Authority	93	70	23	-	-
Miscellaneous	73,041	67,654	1,669	2,418	1,300

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

2/ Other licenses, permits and fees.

3/ Includes rentals, interest, and other earnings.

4/ Designated for "improvements to infrastructures and/or tourism-related activities."

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1996*, tables 24-27.

**Table 9.09-- COUNTY GOVERNMENT OPERATING EXPENDITURES,
BY OBJECT: 1995**

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

Subject	All counties	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	1,392,297	934,131	178,903	147,112	132,151
General government:	163,434	93,415	12,127	17,175	40,718
Control	15,770	8,429	2,602	2,869	1,871
Staff	147,665	84,987	9,525	14,306	38,847
Public safety:	284,803	182,792	34,771	52,223	15,017
Police and fire	244,619	161,304	29,784	41,132	12,399
Other protection	40,184	21,488	4,987	11,092	2,618
Highways	45,119	27,780	8,283	4,919	4,137
Health and sanitation	180,462	151,701	15,092	10,337	3,332
Public welfare	45,779	-	15,303	13,667	16,808
Public schools	410	-	-	294	116
Recreation	82,978	57,857	10,588	10,694	3,839
Interest	102,487	87,114	6,738	6,245	2,390
Bond redemption	70,082	54,431	6,951	5,335	3,365
Pension and retirement	74,648	51,277	8,498	10,080	4,793
Salary adjustment	275	-	-	-	275
Econ. and urban devel. 2/	31,022	31,022	-	-	-
Mass transit 3/	110,109	108,534	-	1,575	-
Miscellaneous	116,002	78,119	17,403	12,674	7,806
Cash capital improvements	84,687	10,090	43,149	1,892	29,556

1/ All funds expended by the county excepting certain bond, revolving, loan, and enterprise funds.

2/ Includes expenditures from redevelopment grants.

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

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1996*, tables 36-39.

**Table 9.10-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME
REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS:
TAX YEARS 1980 TO 1995**

Tax year	Number of returns	Number of exemptions 1/	Adjusted gross income (less deficit)		
			Total (\$1,000)	Per return (dollars)	Per exemption 1/ (dollars)
1980	424,177	936,056	7,320,740	17,259	7,821
1981	437,977	957,338	7,870,617	17,970	8,221
1982	445,953	1,027,743	8,236,603	18,470	8,014
1983	450,097	1,037,030	8,652,808	19,224	8,344
1984	461,424	1,055,297	9,322,406	20,204	8,834
1985	470,745	1,071,202	9,965,599	21,170	9,303
1986	485,014	1,096,934	10,959,168	22,596	9,991
1987	506,302	1,112,189	12,670,065	25,025	11,392
1988	520,575	1,087,534	14,215,978	27,308	13,072
1989	542,943	1,120,071	15,851,813	29,196	14,153
1990	555,488	1,145,166	17,462,616	31,437	15,249
1991	567,412	1,173,631	17,778,657	31,333	15,148
1992	569,334	1,179,166	18,398,690	32,316	15,603
1993	556,041	1,173,229	18,519,252	33,306	15,785
1994	554,077	1,172,855	18,507,502	33,402	15,780
1995	549,519	1,171,533	19,057,384	34,680	16,267

1/ Exemptions for age or blindness excluded through 1981 and included thereafter.

Source: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income. Individual Income Tax Returns* (annual); *SOI Bulletin*, Summer 1985, p. 93, Winter 1985-86, p. 97, Winter 1986-87, p. 83, Fall 1990, pp. 11-57, Winter 1990-91, p. 58, Spring 1993, p. 148, Fall 1994, p. 148, Spring 1995, p. 132, Spring 1996, p. 118, Spring 1997, p. 151, and records.

**Table 9.11-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF
ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX
RETURNS: TAX YEARS 1994 AND 1995**

Tax year 1/ and size of adjusted gross income	Number of returns	Adjusted gross income less deficit (\$1,000)	Total income tax liability		
			Number of returns	Amount (\$1,000)	Average (dollars)
1994					
All returns	554,077	18,507,502	474,703	2,469,841	5,203
Under \$15,000 2/	181,559	796,634	107,400	65,005	605
\$15,000 under \$30,000	150,125	3,290,528	145,612	280,339	1,925
\$30,000 under \$50,000	106,471	4,151,767	105,926	450,498	4,253
\$50,000 under \$75,000	67,999	4,132,959	67,890	502,040	7,395
\$75,000 under \$100,000	27,295	2,328,285	27,268	334,223	12,257
\$100,000 under \$200,000	16,586	2,138,929	16,570	390,126	23,544
\$200,000 or more	4,042	1,668,400	4,037	447,610	110,877
Median income	24,540	...	...	...	...
1995					
All returns	549,519	19,057,384	470,977	2,510,724	5,331
Under \$15,000 2/	175,882	936,599	103,253	65,554	635
\$15,000 under \$30,000	146,996	3,228,230	141,982	269,925	1,901
\$30,000 under \$50,000	105,961	4,129,834	105,259	440,150	4,182
\$50,000 under \$75,000	69,182	4,209,997	69,030	504,077	7,302
\$75,000 under \$100,000	29,031	2,479,519	29,000	349,389	12,048
\$100,000 under \$200,000	18,175	2,337,642	18,163	418,716	23,053
\$200,000 or more	4,292	1,735,563	4,290	462,912	107,905
Median income	25,090	...	...	...	...

1/ Filed in following year.

2/ Includes returns with adjusted gross deficit.

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin, Spring 1996*, p. 118, and *Spring 1997*, p. 151.

Table 9.12-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1994 AND 1995

Subject	Number of returns		Amount (\$1,000)	
	1994	1995	1994	1995
All returns and adjusted gross income (AGI)	554,077	549,519	18,507,502	19,057,384
Salaries and wages	471,022	463,559	14,477,561	14,513,519
Interest income	382,347	380,518	554,448	646,838
Dividends	125,979	129,732	337,716	380,466
Net capital gain (less loss)	62,311	63,301	510,761	483,270
Taxable pensions and annuities	91,034	96,647	1,292,467	1,440,819
Unemployment compensation	39,304	44,883	139,204	151,478
Itemized deductions	178,656	179,128	3,028,356	3,180,579
Taxable income	463,834	459,157	12,055,572	12,235,452
Tax liability	474,703	470,977	2,469,841	2,510,724
Earned income credit	61,251	60,156	52,150	63,234

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin, Spring 1996*, p. 118, and *Spring 1997*, p. 151.

Table 9.13-- INTERNAL REVENUE SERVICE OPERATIONS: 1992 TO 1996

Subject	1992	1993	1994	1995	1996
Internal revenue collections (\$1,000)	4,542,943	4,489,142	4,613,645	4,461,739	4,573,256
Indiv. income and employment taxes	4,003,114	4,009,669	4,060,861	3,968,349	4,045,271
Total number of returns filed	1,000,625	1,018,633	1,005,219	994,156	980,494
Individual income tax	563,865	658,089	554,871	553,326	549,941
Total no. of returns filed electronically	(NA)	(NA)	(NA)	(NA)	(NA)
Individual income tax	30,902	31,741	35,013	29,077	39,434
Number of returns examined	3,627	3,930	3,216	4,171	4,203
Individual	2,283	2,667	2,543	3,660	3,317
Additional tax and penalties recommended after examination (\$1,000)	59,773	88,674	111,540	42,295	60,714
Individual	19,975	17,938	29,933	23,379	32,098
Costs incurred (\$1,000)	14,079	14,758	12,594	12,566	10,656

Source: Internal Revenue Service, *Annual Report, 1991, 1992, and 1993*, and *Ibid. Data Book, 1993-94, 1995, and 1996*; and <http://www.irs.ustreas.gov/prod/tax_stats/soi/other_ia.html>.

**Table 9.14-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1982 TO 1995**

Year income was received	Number of resident returns	Adjusted gross income 1/ (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
1982	422,535	6,912,014	4,469,031	339,108
1983	424,194	7,088,769	4,695,499	360,551
1984	422,245	7,604,199	4,980,484	387,300
1985	427,572	8,060,406	5,284,942	415,544
1986	426,532	8,370,257	5,493,138	437,263
1987	468,363	10,147,149	7,170,035	556,135
1988	483,913	11,504,190	8,387,106	658,879
1989	510,512	13,091,785	9,540,367	729,649
1990	520,785	13,958,079	10,260,825	794,478
1991	527,993	14,648,266	10,745,622	840,485
1992	531,758	15,284,606	11,117,647	877,623
1993	532,533	15,307,960	11,178,223	884,048
1994	545,715	15,951,730	11,617,978	923,601
1995	521,194	15,307,772	11,115,466	883,119

1/ Exclusive of losses.

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

**Table 9.15-- SOURCES OF INCOME REPORTED BY RESIDENT
TAXPAYERS: TAX YEARS 1994 AND 1995**

[In thousands of dollars]

Source of Income	1994	1995	Percent change 1994-1995
Total income	15,973,571	15,330,827	-4.0
Salaries and wages	13,148,321	12,689,379	-3.5
Interest	512,356	559,732	9.2
Ordinary dividends	305,933	289,713	-5.3
Sole proprietorships	661,365	528,239	-20.1
Capital assets or other property	444,072	309,943	-30.2
Rents and royalties	85,991	31,247	-63.7
Partnerships and S-Corporations	240,238	183,055	-23.8
Estates and trusts	88,137	72,149	-18.1
Unemployment compensation	129,572	143,127	10.5
All other sources	357,586	524,243	46.6

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals: 1995*, p. 13.

Table 9.16-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1995, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (dollars)	Net taxable income (dollars)	Tax liability (dollars)
All resident returns	521,194	15,307,771,575	11,115,465,881	883,118,586
Taxable resident returns	423,498	15,074,079,371	11,115,465,881	883,118,586
Under \$5,000	33,712	107,585,923	42,528,094	1,114,555
\$5,000, under \$10,000	48,103	351,768,482	196,351,858	8,732,822
\$10,000, under \$20,000	86,167	1,292,769,893	915,416,528	56,837,868
\$20,000, under \$30,000	77,700	1,928,234,997	1,464,153,446	106,149,018
\$30,000, under \$40,000	50,702	1,761,741,361	1,333,532,079	102,471,521
\$40,000, under \$50,000	35,299	1,580,804,050	1,158,613,143	90,829,412
\$50,000, under \$75,000	53,277	3,246,992,577	2,357,753,826	191,668,977
\$75,000, under \$100,000	21,271	1,822,735,328	1,315,398,798	112,192,776
\$100,000, under \$150,000	11,768	1,379,946,588	1,032,300,192	91,771,633
\$150,000, under \$200,000	2,497	428,445,402	331,792,333	30,457,918
\$200,000 and over	3,002	1,173,054,770	967,625,584	90,892,086
Nontaxable resident returns	97,696	233,692,204	...	...
Loss	5,278	(126,864,180)	...	...
Under \$5,000	80,330	83,348,158	...	...
\$5,000, under \$10,000	6,985	48,792,853	...	...
\$10,000 and over	5,103	101,551,193	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, 1995*, table 1.

**Table 9.17-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE
INCOME TAX RETURNS, BY TYPE OF RETURN, 1982 TO 1995,
AND BY COUNTIES, 1994 AND 1995**

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Joint	Other 1/	All returns	Joint	Other 1/
1982	11,178	23,737	6,080	15,466	27,285	9,636
1983	11,297	25,047	6,432	15,937	29,076	10,009
1984	12,035	25,290	6,858	16,565	28,935	10,540
1985	12,488	25,838	7,087	17,124	29,870	10,710
1986	12,941	26,576	7,768	17,747	31,755	11,557
1987	13,252	29,036	7,709	17,977	34,063	11,131
1988	14,749	31,787	8,910	18,956	36,706	12,452
1989	15,614	34,581	9,382	20,502	39,305	13,748
1990	16,297	35,355	10,351	21,250	40,924	14,286
1991	17,737	37,709	11,607	22,502	43,322	15,321
1992	18,042	38,707	11,909	23,462	45,138	16,389
1993	18,504	39,838	11,913	24,196	46,222	17,296
1994	18,827	39,782	2/ 12,070	25,265	46,778	2/ 17,922
1995	19,602	39,147	13,401	25,277	46,714	18,439
COUNTIES: 1994 2/						
Honolulu	19,709	42,768	12,593	26,460	50,213	18,443
Maui	19,386	37,286	13,835	23,719	42,638	17,373
Hawaii	13,313	30,933	7,383	22,075	37,791	14,709
Kauai	17,508	30,574	12,603	22,926	39,953	16,925
COUNTIES: 1995						
Honolulu	20,342	42,092	13,745	25,898	49,310	18,807
Maui	21,025	36,962	14,749	25,697	42,599	19,192
Hawaii	15,417	31,212	10,015	22,058	40,051	16,249
Kauai	16,643	32,256	12,154	22,180	38,476	16,969

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

2/ Data for 1994 have been revised, as published in *Hawaii Income Patterns: Individuals 1995*.

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

**Table 9.18-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:
1996 AND 1997**

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

Source of revenue	Tax base		Tax collections	
	1996	1997	1996	1997
All sources	48,337,123	46,864,169	1,469,766	1,433,012
Sources taxed at 4 percent	33,703,303	32,478,980	1,348,132	1,299,159
Retailing	16,091,429	15,713,571	643,657	628,543
Services	5,618,027	5,343,706	224,721	213,748
Contracting	3,285,106	2,871,423	131,404	114,857
Theater, amusement, radio	246,232	226,080	9,849	9,043
Interest	208,969	201,579	8,359	8,063
Commissions	676,243	643,443	27,050	25,738
Hotel rentals	2,057,800	2,040,454	82,312	81,618
All other rentals	3,801,655	3,789,318	152,066	151,573
Use (4 percent)	478,411	487,035	19,136	19,481
All others (4 percent)	1,239,433	1,162,371	49,577	46,495
Sources taxed at other rates 1/	14,633,820	14,385,189	70,745	69,363
Insurance solicitors	692,623	732,185	1,039	1,098
Sugar processing	14,490	6,097	72	30
Pineapple canning	5,126	4,549	25	25
Producing 2/	479,009	495,721	2,395	2,476
Manufacturing 2/	622,889	580,844	3,114	2,904
Wholesaling	8,153,155	7,946,650	40,766	39,733
Services (intermediary)	292,250	279,242	1,461	1,396
Use (1/2 percent)	4,374,280	4,339,900	21,871	21,699
Unallocated net collections 3/	-	-	50,889	64,489

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

2/ 1997 tax base and collections reflect Department of Taxation corrections to "Calendar Year Summary 01-21-98".

3/ Includes electronic fund payments not identified by source, penalty and interest, assessments and corrections, delinquent collections, refunds, protested payments and settlements, etc.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" and "General Excise and Use Tax Collections" (calendar year summary tables).

**Table 9.19-- TOBACCO TAX BASE, RATE, AND COLLECTIONS:
1995 TO 1997**

Subject	1995	1996	1997
Cigarettes:			
Tax base (number sold) 1/	1,156,122,400	1,194,538,600	1,095,942,933
Tax rate (dollars per cigarette) 2/	0.03	0.03	0.03
Tax collections (dollars)	34,683,672	35,836,158	32,878,288
Other tobacco products:			
Tax base (wholesale value, in dollars) 1/	6,912,930	4,512,828	6,694,598
Tax rate (percent of wholesale value) 2/	40	40	40
Tax collections (dollars)	2,765,172	1,805,131	2,677,839

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

2/ As set by Act 220, SLH 1993, effective July 1, 1993. Before that date, all tobacco products were taxed at 40 percent of wholesale value; see HRS, 1985 Replacement, section 245-3.

Source: Hawaii State Department of Taxation, "Tobacco Tax Collections and Licenses" (annual release) and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.20-- LIQUOR TAX COLLECTIONS: 1990 TO 1997

[In thousands of dollars]

Year	Total	Year	Total
1990	42,094	1994	38,753
1991	40,125	1995	37,486
1992	40,983	1996	38,624
1993	38,286	1997	38,624

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

Table 9.21-- REAL PROPERTY TAX VALUATIONS: 1986 TO 1998

[In thousands of dollars. For fiscal years ended June 30. Government parcels assessed at \$1, 1985-1987, and at 100 percent thereafter]

Year 1/	Assessor's gross valuation 2/			rate purposes
	Total	Land	Improvement	
1986	51,231,020	25,507,708	25,723,312	43,581,421
1987	52,814,463	26,442,872	26,371,591	45,222,885
1988	54,655,038	27,396,477	27,258,561	46,629,959
1989	67,628,063	36,730,370	30,897,693	50,219,249
1990	76,926,745	42,778,927	34,147,818	57,526,564
1991	99,942,540	61,554,968	38,387,572	71,080,524
1992 2/	132,952,299	88,359,248	44,593,051	95,943,417
1993	130,733,131	84,299,686	46,433,445	111,593,106
1994	136,239,310	87,785,946	48,453,364	115,954,097
1995	137,202,083	86,552,575	50,649,508	116,389,670
1996	136,153,769	84,102,966	52,050,803	115,115,001
1997	135,073,354	82,035,301	53,038,053	114,303,125
1998	131,536,224	78,049,699	53,486,525	110,955,447

1/ As of January 1 for Hawaii, Kauai, and Maui Counties; for the City and County of Honolulu only through 1996, and October 1 thereafter.

2/ Beginning in 1992, values shown for gross valuation exclude nontaxable properties.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1997-1998 Tax Year, State of Hawaii* (July 1997) and earlier reports.

**Table 9.22-- REAL PROPERTY TAX VALUATIONS FOR THE STATE,
1995 TO 1998, AND BY COUNTY, 1998**

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

Subject: State	1995	1996	1997	1998
Assessor's gross valuation 1/ Land	137,202,083 86,552,575	136,153,769 84,102,916	135,073,354 82,035,301	131,536,224 78,049,699
Improvement	50,649,508	52,050,803	53,038,053	53,486,525
Exemptions 1/	18,028,152	18,089,945	18,447,003	18,639,707
Assessor's net taxable valuation	119,173,931	118,063,824	116,626,351	112,896,517
Half of valuation on appeal	2,784,261	2,948,823	2,323,222	1,941,070
Number of appeals	7,753	8,658	6,172	5,396
Valuation for tax rate purposes	116,389,670	115,115,001	114,303,125	110,955,447
Land	77,591,215	75,496,496	74,076,214	70,423,702
Improvement	38,798,455	39,618,505	40,226,911	40,531,745
Amount to be raised by taxation 2/	620,751	605,004	593,983	582,877
Subject: Tax Year 1998	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/ 2/ Land	97,540,481 60,308,680	15,342,982 7,912,682	12,307,838 6,432,590	6,344,923 3,395,747
Improvement	37,231,801	7,430,300	5,875,248	2,949,176
Exemptions 1/	14,165,278	1,592,015	2,027,706	854,708
Assessor's net taxable valuation	83,375,203	13,750,967	10,280,132	5,490,215
Half of valuation on appeal	1,642,219	94,064	123,230	81,557
Number of appeals	3,240	802	824	530
Valuation for tax rate purposes	81,732,984	13,656,903	10,156,902	5,408,658
Land	54,096,203	7,412,398	5,839,910	3,075,191
Improvement	27,636,781	6,244,505	4,316,992	2,333,467
Amount to be raised by taxation	393,005	74,686	83,576	31,610

1/ Beginning in 1992, data exclude nontaxable properties.

2/ As of January 1, but beginning in 1997, as of October 1 for the City and County of Honolulu only.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1997-1998 Tax Year, State of Hawaii* (July 1997) and earlier reports.

**Table 9.23-- REAL PROPERTY TAX EXEMPTIONS FOR THE STATE, BY TYPE:
TAX YEARS 1997 AND 1998**

Type of exemption	1997		1998	
	Number	Amount 1/ (\$1,000)	Number	Amount 1/ (\$1,000)
All exemptions, Statewide	223,644	39,229,169	222,118	39,036,467
Federal government	469	4,429,864	514	4,435,568
State government	7,524	10,784,678	7,574	10,712,787
County government	3,594	4,489,490	3,976	4,399,728
Government leases - Total	148	66,044	153	69,670
Government leases - Portion	108	21,310	102	19,669
Hawaiian Homes Commission	1,665	271,244	1,806	304,517
Hawaiian Homes Land - Basic	617	62,925	609	59,901
Hawaiian Homes Land - Multiple	298	36,793	324	38,653
Hawaiian Homes Land - Total land	2,619	514,710	2,675	499,717
Hawaiian Homes Land - Vacant land	136	745	137	731
Hawaiian Homes - 7 Year	282	57,930	300	54,592
Homes - fee (Basic)	91,884	3,780,593	92,196	3,794,146
Homes - fee (Multiple)	79,883	7,770,239	81,041	7,889,230
Homes - lease (Basic)	7,225	292,289	6,514	263,610
Homes - lease (Multiple)	5,670	551,522	5,457	527,394
Additional home exemption	1,539	59,312	1,094	41,368
Blind	476	12,514	469	12,344
Deaf	144	3,943	139	3,795
Leprosy	9	237	9	225
Totally disabled	5,884	165,587	5,897	166,061
Totally disabled veterans	491	133,627	529	134,568
Cemeteries	111	42,524	106	47,591
Charitable organizations	888	1,019,167	905	1,005,062
Churches	1,448	1,379,457	1,434	1,323,525
Civil - Condemnation	58	19,913	69	22,495
Credit Unions	62	67,708	67	68,946
Crop shelters	56	3,698	51	3,412
Foreign consulates	10	22,924	9	20,388
Forest reserve	7	4,119	7	4,119
Historic residential properties	71	55,779	83	62,271
Hospitals	77	546,976	83	544,480
Landscaping, open-space	50	22,010	48	22,435
Low-moderate income housing	1,257	936,834	795	912,137
Public utilities	790	786,881	806	739,015
Roadways and waterways	5,848	12,078	5,870	11,872
Schools	147	784,187	174	800,115

Continued on next page.

**Table 9.24-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES:
FISCAL YEAR 1997- 1998**

[In thousands of dollars. For fiscal year ended June 30, 1998]

Land use class	Gross valuation, January 1, 1997 1/			Amounts to be raised by taxation, fiscal 1997-98
	Total	Land	Improvement	
All classes	131,536,224	78,049,699	53,486,525	582,877
Improved residential 2/	53,475,958	37,592,791	15,883,167	159,321
Apartment	25,573,892	9,700,610	15,873,282	87,589
Commercial	14,905,228	8,777,444	6,127,784	106,834
Industrial	7,333,025	5,046,760	2,286,265	57,351
Agricultural	4,841,450	3,320,817	1,520,633	35,077
Conservation	1,283,018	1,146,844	136,174	9,175
Hotel/resort	10,415,827	4,602,046	5,813,781	87,667
Unimproved residential 2/	2,305,956	2,049,667	256,289	8,209
Homeowner 3/	7,947,167	3,829,918	4,117,249	20,119
Single family 4/	1,721,408	1,105,463	615,945	7,276
Homestead 4/	1,733,295	877,339	855,956	4,259

1/ Excludes nontaxable properties. Beginning in 1997, valuation for the City and County of Honolulu is as of October 1.

2/ Excludes Kauai.

3/ Maui and Hawaii only.

4/ Kauai only.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1997-1998 Tax Year, State of Hawaii* (July 1997).

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

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

1/ As of July 1, 1994.

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

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

Table 9.26-- RESIDENTIAL PROPERTY TAX RATES IN HONOLULU AND THE MEDIAN OF 51 MAJOR CITIES: 1985 TO 1996

Year	Effective tax rate per \$100 2/			Nominal tax rate per \$100	Honolulu assessment level (percent)
	Median city 3/	Honolulu	Rank		
1985	(NA)	0.61	50	1.06	61.2
1986	(NA)	0.60	51	0.66	90.8
1987	(NA)	0.59	51	0.66	89.0
1988	(NA)	0.59	51	0.66	89.0
1989	(NA)	0.64	48	0.64	100.0
1990	(NA)	0.48	51	0.48	100.0
1991	(NA)	0.37	51	0.37	100.0
1992	1.49	0.30	51	0.35	84.3
1993 1/	(NA)	(NA)	(NA)	(NA)	(NA)
1994	1.60	0.33	51	0.35	93.4
1995	1.59	0.33	51	0.35	93.4
1996	1.54	0.33	51	0.35	95.0

1/ Both *Statistical Abstract 1994* and *1995* contained data for 1992 and none contained 1993 data.

2/ Adjusted to 100-percent assessment level.

3/ Largest city in each state, including D.C. For the listing of cities, see source.

Source: Data from D.C. Department of Finance and Revenue cited in *Statistical Abstract of the United States, 1987* (p. 279), *1988* (pg. 281), *1989* (pg. 291), *1990* (pg. 298), *1991* (pg. 304), *1992* (pg. 303), *1993* (pg. 316), *1994* (pg. 310), *1996* (p. 311), *1997* (p. 316), and for 1996 data, Government of the District of Columbia, *Tax Rates and Tax Burdens In the District of Columbia - A National Comparison 1996*, (July 1997), Table 1.

Table 9.27-- REAL PROPERTY TAX RATES, BY COUNTIES: 1998

[In dollars per \$1,000 net taxable value. For fiscal year ended June 30, 1998]

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

X Not applicable.

1/ Single family residential.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1997-1998 Tax Year, State of Hawaii* (July 1997).

Table 9.28-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1997

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

Fiscal year	Amount	Fiscal year	Amount	Fiscal year	Amount
1968	848	1978	2,507	1988	4,957
1969	988	1979	2,659	1989	5,422
1970	964	1980	3,151	1990	5,461
1971	1,075	1981	3,811	1991	6,162
1972	1,173	1982	3,505	1992	6,497
1973	1,435	1983	4,054	1993	7,052
1974	1,644	1984	4,232	1994	7,603
1975	2,060	1985	4,568	1995	7,529
1976	2,162	1986	4,643	1996	8,016
1977	2,066	1987	4,759	1997	8,266

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), *Federal Outlays in Hawaii* (annual report, 1968-1976) and *Geographic Distribution of Federal Funds in Hawaii* (annual report, 1977-1980); U.S. Bureau of the Census, *Federal Expenditures by State* (annual report, 1981-1997), and <<http://www.census.gov/prod/2/gov/fes97.pdf>>.

Table 9.29-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES: 1992 TO 1997

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

Type of expenditure	1992	1993	1994	1995	1996	1997
All categories	6,497	7,052	7,603	7,529	8,016	8,266
Grants to State and local governments	839	984	1,088	1,162	1,126	1,184
Salaries and wages	2,369	2,385	2,498	2,310	2,409	2,330
Direct payments for individuals	2,456	2,732	2,898	3,111	3,238	3,430
Procurement	695	743	905	777	1,027	1,077
Other direct expenditure	138	208	213	169	217	244
Department of Defense	2,893	2,928	3,196	2,899	3,259	3,179
Other federal agencies	3,604	4,123	4,407	4,631	4,758	5,087

Source: U.S. Bureau of the Census, *Federal Expenditures by State* (annually) tables 1 and 10, and <<http://www.census.gov/prod/2/gov/fes97.pdf>>.

REVISED 10/28/98

Table 9.30-- PER CAPITA FEDERAL EXPENDITURES IN THE UNITED STATES AND HAWAII, BY TYPES: FISCAL YEAR 1997

[For fiscal years ended September 30]

Category	Per capita federal expenditures			
	United States (dollars)	Hawaii (dollars)	Hawaii as percent of U.S.	Hawaii rank 1/
1997				
All categories	5,263.01	6,963.76	132.3	5
Grants to State and local governments	846.38	997.84	117.9	15
Salaries and wages	611.99	1,963.35	320.8	2
Direct payments for individuals	2,880.03	2,889.66	100.3	31
Procurement	711.18	907.62	127.6	20
Other direct expenditure	213.43	205.28	96.2	32
Department of Defense	803.51	2,678.30	333.3	2
All other Federal agencies	4,459.50	4,285.46	96.1	2/ 29

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

2/ Correction as of October 28, 1998.

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1997* (April 1998), tables 8, 10, and 12; <<http://www.census.gov/prod/2/gov/fes97.pdf>>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 9.31-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS
IN HAWAII, BY COUNTIES: 1997**

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

County	All agencies	Department of Defense	All other agencies
State total 1/	8,159.3	3,178.6	4,980.7
City and County of Honolulu	6,532.5	3,050.1	3,482.4
Hawaii County	575.3	37.8	537.5
Kauai County	247.9	45.0	202.8
Maui County	380.5	45.6	334.8
State undistributed	423.2	0.0	423.2

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

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report, Fiscal Year 1997: County Areas* (April 1998) pp.14-15; and <<http://www.census.gov/prod/2/gov/cffr97.pdf>>.

**Table 9.32-- PUBLIC BONDED DEBT OF STATE AND COUNTY
GOVERNMENTS: 1980 TO 1996**

[In millions of dollars. As of December 31]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0
1983	2,545.4	2,235.8	219.5	19.0	52.1	19.0
1984	2,715.7	2,391.5	221.0	33.5	50.9	18.8
1985	3,131.5	2,621.2	404.0	30.8	56.7	18.8
1986	3,311.8	2,720.4	456.8	47.2	69.3	18.0
1987	3,298.4	2,700.7	448.7	48.8	67.3	32.9
1988	3,382.3	2,728.8	513.6	43.1	65.1	31.6
1989	3,710.4	2,969.9	559.5	73.6	72.4	35.0
1990	4,484.5	3,394.4	846.3	110.5	100.0	33.2
1991	5,298.1	4,214.0	831.2	108.5	96.9	47.4
1992	6,170.0	4,842.4	1,044.0	140.2	93.5	49.9
1993	6,924.7	5,219.7	1,362.6	170.4	124.5	47.6
1994	6,913.5	5,015.4	1,544.6	185.1	119.5	49.0
1995	6,867.3	5,126.1	1,600.3	193.4	114.1	45.5
1996 2/	7,072.5	5,088.1	1,578.2	199.5	139.7	41.7

1/ Outstanding state and county bonds, both general obligation and revenue bonds. Gross debt exclusive of cash reserves. Excludes bonds not chargeable to public funds and short-term bond anticipation notes.

2/ Estimated as of June 30, 1996. Does not include anticipated issues.

Source: Tax Foundation of Hawaii, *Government in Hawaii*, table 52 (annual).

Table 9.33-- STATE GENERAL OBLIGATION BOND DEBT: 1990 TO 1997

[In thousands of dollars. As of June 30]

Year	Debt	Year	Debt
1990	2,026,100	1994	2,872,488
1991	2,274,846	1995	2,934,965
1992	2,328,546	1996	2,869,639
1993	2,767,691	1997	3,102,288

Source: Hawaii State Department of Accounting and General Services, *State of Hawaii, Comprehensive Annual Financial Report*, Schedule I-2, annual (fiscal years 1994-97) and records.

Table 9.34-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 1997

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

Year	Government jobs (annual averages)				State civil service workers 1/	State retirement system members 2/
	All levels	Federal	Terr. or State	County		
1940	22,136	11,139	6,245	4,752	2,616	8,352
1945	78,846	66,248	7,231	5,367	3,772	12,662
1950	33,140	18,891	7,955	6,294	5,280	16,120
1960	49,510	27,010	14,620	7,880	6,790	24,092
1970	73,640	33,380	30,600	9,660	10,166	38,912
1980	89,050	30,000	45,150	13,900	17,327	48,868
1990	105,600	34,150	57,050	14,400	20,654	53,509
1992	111,100	33,250	62,600	15,250	22,920	57,401
1993	111,600	31,800	64,250	15,500	24,267	59,518
1994	111,850	31,250	65,000	15,600	26,731	61,082
1995	111,400	31,050	63,950	16,450	(NA)	60,687
1996 3/	110,550	31,100	62,800	16,600	(NA)	59,275
1997	111,650	30,650	64,250	16,750	(NA)	59,500

NA Not available.

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

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

3/ Revised on March 5, 1998.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1978), pp. 616-617; *Data Book 1978*, p. 158; Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual); Hawaii State Department of Human Resources Development, records; *Employees' Retirement System of the State of Hawaii, Comprehensive Annual Report* (annual).

**Table 9.35--STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLL
BY FUNCTION: OCTOBER 1995**

[In number of jobs and thousands of dollars]

Government function	Full-time equiv. employment	Total October payroll	Full-time employment	Payroll for full-time employees	Part-time employment	Payroll for part-time employees	Part-time hours paid (October)
Hawaii Total	65,458	175,297	58,919	159,933	21,088	15,364	#####
Financial admin.	1,773	4,887	1,766	4,876	22	11	1,290
Other gov't admin.	1,387	4,188	1,287	3,937	119	251	17,822
Judicial and legal	2,696	8,304	2,672	8,220	80	84	4,276
Police protect.-officer	2,542	9,553	2,542	9,553	-	-	-
Police protect.-other	749	1,922	701.0	1,842	206	80	8,516
Firefighters	1,554	5,065	1,554	5,065	-	-	-
Fire-other	71	200	71	200	-	-	-
Correction	2,131	5,128	2,119	5,091	21	37	1,988
Streets & highways	1,799	4,575	1,795	4,567	10	8	752
Air transportation	993	2,169	993	2,169	-	-	-
Water trans./terminal	188	476	188	476	-	-	-
Public welfare	1,171	2,892	1,169	2,886	6	6	474
Health	3,032	7,617	2,991	7,494	76	124	7,136
Hospitals	3,189	7,876	3,109	7,552	164	324	13,890
Social insurance adm	300	815	297	805	5	10	580
Solid waste mgt	628	1,684	628	1,684	-	-	-
Sewerage	882	2,708	881	2,707	3	1	132
Parks & recreation	2,114	4,692	1,761	4,084	1,274	609	62,530
Hous. & community d	181	470	179	468	5	3	328
Natural resources	1,460	4,223	1,394	4,006	308	218	11,608
Water supply	995	2,894	985	2,878	28	16	1,800
Electric power	-	-	-	-	-	-	-
Gas supply	-	-	-	-	-	-	-
Transit	91	248	89	246	3	2	302
Elem & sec sch. instr	15,979	40,540	13,945	35,584	6,059	4,956	315,282
Elem & sec sch.-othe	7,251	13,313	5,245	10,664	6,051	2,649	310,932
Higher educ.-instruc.	2,755	12,833	2,132	9,920	1,922	2,913	110,184
Higher educ.-other	4,309	12,646	3,335	9,811	4,344	2,836	172,486
Other education	135	366	134	363	3	3	240
Libraries	579	1,223	523	1,157	186	67	9,964
State liquor stores	-	-	-	-	-	-	-
Other & unallocable	4,524	11,787	4,434	11,630	193	156	15,754

Source: U.S. Department of Commerce, Bureau of the Census, Local Government Employment and
<<http://www.census.gov/govs/www/apesloc.html>>.

**Table 9.36-- FULL-TIME EQUIVALENT CIVIL SERVICE AND EXEMPT
EMPLOYMENT, BY DEPARTMENT, IN THE HAWAII STATE EXECUTIVE
BRANCH: 1994 TO 1997**

[As of December 31. In number of employees]

Department	1994	1995	1996	1997
Total 1/	45,604.035	42,724.379	42,638.339	43,239.136
Accounting and General Services	910.000	816.500	804.000	992.500
Agriculture	454.750	366.000	350.600	356.750
Attorney General	558.462	523.250	529.500	555.975
Budget and Finance	711.500	601.500	579.000	382.500
Business, Econ Dev & Tourism	317.250	249.640	266.500	260.990
Commerce & Consumer Affairs	439.250	380.000	407.200	409.200
Defense	248.100	236.000	245.500	245.675
Education	17,846.425	17,671.110	17,804.878	18,194.987
Governor	225.612	152.990	69.490	70.990
Hawaiian Home Lands	138.000	121.000	134.600	132.600
Health	6,537.390	6,177.400	6,216.550	6,199.700
Human Resources Development	166.050	141.000	134.000	125.000
Human Services	2,390.975	2,210.600	2,251.975	2,229.475
Labor and Industrial Relations	930.235	776.305	754.715	753.575
Land and Natural Resources	806.570	711.460	719.270	730.390
Lieutenant Governor	67.500	37.000	52.977	38.495
Public Safety	2,218.050	1,987.800	1,976.275	2,079.975
Taxation	409.750	359.000	358.000	361.500
Transportation	2,427.500	2,235.350	2,243.650	2,330.950
University of Hawaii	7,800.666	6,970.474	6,739.659	6,787.909

1/ Employee is defined as a person holding a position, civil service or exempt from civil service; permanently or temporarily; on a full-time or part-time basis; and paid regularly either hourly or salaried. For this report, emergency hires are included. Full-time equivalency (FTE) means that one FTE indicates a 40-hour workweek, so two part-time employees, each working 20-hour week are 1.000 FTE.

Source: Hawaii Department of Human Resource Development, *Hawaii State Government Workforce Profile 1995* (February, 1996), p. 7; and Department of Human Resource Development "Composition of Executive Branch Workforce", quarterly.

Table 9.37-- EMPLOYMENT, BY TYPE, IN THE HAWAII STATE EXECUTIVE BRANCH: DECEMBER 31, 1997 1/

Department	Civil Service and Exempt					Paid casual employees 2/
	Employees	Full time	Part time	Full-time equivalent (FTE)	FTE change since Dec. 31, 1994	
Total	45,619	41,107	4,512	43,239.136	-1,975.470	17,448
Accounting & General Services	996	989	7	992.500	82.500	192
Agriculture	359	355	4	356.750	-98.000	0
Attorney General	558	554	4	555.975	-2.487	12
Budget and Finance	384	381	3	382.500	0.329	1
Business, Econ Dev. & Tourism	263	259	4	260.990	-56.260	16
Commerce & Consumer Affairs	410	408	2	409.200	30.050	33
Defense	248	244	4	245.675	-2.425	0
Education	19,147	17,167	1,980	18,194.987	348.562	12,007
Governor	74	68	6	70.990	-154.622	0
Hawaiian Home Lands	134	131	3	132.600	-5.400	7
Health	6,399	6,039	360	6,199.700	-337.690	66
Human Resources Dev.	125	125	0	125.000	-41.050	0
Human Services	2,233	2,226	7	2,229.475	-161.500	45
Labor and Industrial Relations	778	728	50	753.575	-176.660	88
Land and Natural Resources	732	728	4	730.390	-76.180	15
Lieutenant Governor	39	38	1	38.495	-29.005	0
Public Safety	2,087	2,073	14	2,079.975	-138.075	3
Taxation	362	361	1	361.500	-48.250	0
Transportation	2,337	2,322	15	2,330.950	-96.550	49
University of Hawaii	7,954	5,911	2,043	6,787.909	-1,012.757	4,914

1/ Employee is defined as a person holding a position, civil service or exempt from civil service; permanently or temporarily; on a full-time or part-time basis; and paid regularly either hourly or salaried. For this report, emergency hires are included.

2/ A paid casual employee is defined as a person employed temporarily, intermittent or on-call, full-time or part-time, such as event workers at Aloha Stadium, classroom cleaners, adult supervisors, substitutes in the public schools, students, etc. and on the payroll as of above date.

Source: Hawaii Department of Human Resource Development, "Composition of Executive Branch Workforce as of December 31, 1997".

Table 9.38-- PUBLIC EMPLOYEES INCLUDED IN COLLECTIVE BARGAINING UNITS: 1996

[As of December 31, 1996, unless otherwise indicated]

Bargain- ing unit	Union	Job category	Total	State of Hawaii	City & County of Honolulu	County of Hawaii	County of Maui	County of Kauai	Dept. of Educ.	Judici- ary	Univer- sity of Hawaii
		Total	53,825	22,781	8,165	1,763	1,613	859	12,819	1,428	4,397
1	UPW	Blue-collar nonsupervisors	8,844	5,430	2,177	409	456	318	-	54	-
2	HGEA	Blue-collar supervisors	858	491	272	43	34	16	-	2	-
3	HGEA	White-collar nonsupervisors	11,861	8,144	1,712	487	453	199	-	866	-
4	UPW	White-collar supervisors	608	338	157	27	20	11	-	55	-
5	HSTA	Hawaii State Teachers Assn.	12,103	-	-	-	-	-	12,103	-	-
6	HGEA	Educational officers	716	-	-	-	-	-	716	-	-
7	UHPA	University of Hawaii faculty	3,161	-	-	-	-	-	-	-	3,161
8	HGEA	Admin. & prof. technicians	1,236	-	-	-	-	-	-	-	1,236
9	HGEA	Registered professional nurse	1,239	1,237	-	-	-	-	-	2	-
10	UPW	Institutional health & corrections workers	2,508	2,291	184	-	-	-	-	33	-
11	HFFA	Firefighters	1,702	136	946	286	224	110	-	-	-
12	SHOPO	Police officers	2,498	-	1/ 1,740	337	300	121	-	-	-
13	HGEA	Professional & scientific work	6,491	4,714	977	174	126	84	-	416	-

1/ As of January 31, 1997.

Source: State of Hawaii Labor Relations Board, *HLRB Informational Bulletin* No. 34, March 11, 1997.

Table 9.39-- PUBLIC EMPLOYEES INCLUDED IN COLLECTIVE BARGAINING UNITS: 1997

[As of December 31, 1997, unless otherwise indicated]

Bargain- ing unit	Union	Job category	Total	State of Hawaii	City & County of Honolulu	County of Hawaii	County of Maui	County of Kauai	Dept. of Educ. 1/	Judici- ary	Univer- sity of Hawaii
		Total	53,773	22,869	8,155	1,776	1,629	869	12,651	1,421	4,403
1	UPW	Blue-collar nonsupervisors	8,761	5,415	2,091	428	460	315	-	52	-
2	HGEA	Blue-collar supervisors	862	495	269	44	35	16	-	3	-
3	HGEA	White-collar nonsupervisors	11,835	8,119	1,737	486	452	198	-	843	-
4	UPW	White-collar supervisors	603	337	154	25	26	10	-	51	-
5	HSTA	Hawaii State Teachers Assn.	11,927	-	-	-	-	-	11,927	-	-
6	HGEA	Educational officers	724	-	-	-	-	-	724	-	-
7	UHPA	University of Hawaii faculty	3,164	-	-	-	-	-	-	-	3,164
8	HGEA	Admin. & prof. technicians	1,239	-	-	-	-	-	-	-	1,239
9	HGEA	Registered prof. nurses	1,234	1,232	-	-	-	-	-	2	-
10	UPW	Institutional health & corrections workers	2,569	2,362	173	-	-	-	-	34	-
11	HFFA	Firefighters	1,706	143	939	280	226	118	-	-	-
12	SHOPO	Police officers	2,524	-	1,776	331	295	122	-	-	-
13	HGEA	Prof. & scientific workers	6,625	4,766	1,016	182	135	90	-	436	-

1/ As of February 2, 1998.

Source: State of Hawaii Labor Relations Board, *HLRB Informational Bulletin* No. 35, April 2, 1998.

Table 9.40-- SALARIES OF SELECTED GOVERNMENT OFFICIALS: 1976 TO 1997

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

Government official	1976	1990	1994	1995	1996	1997
Governor	50,000	94,780	94,780	94,780	94,780	94,780
Lieutenant Governor	45,000	90,041	90,041	90,041	90,041	90,041
Mayor, Honolulu	44,903	84,725	100,000	100,000	100,000	100,000
Mayor, Hawaii	43,644	63,792	76,848	76,848	76,848	76,848
Mayor, Maui	36,070	80,000	87,098	87,098	87,098	87,098
Mayor, Kauai	34,000	58,500	69,969	73,118	73,118	73,118
Chief Justice, Supreme Court	47,500	94,780	94,780	94,780	94,780	94,780
Assoc. Justice, Supreme Court	45,000	78,500	93,780	93,780	93,780	93,780
President, University of Hawaii	45,000	95,000	150,000	153,000	156,060	156,060

Source: *HRS, 1992 Supplement, Vol. I, Section 26-51*; Salary Commission of the City and County of Honolulu, *Final Report and Salary Schedule*; Hawaii, Maui, and Kauai County ordinances; Hawaii State Department of Business, Economic Development & Tourism telephone surveys; newspaper articles; for 1996: *Pacific Business News*, July 1 (p. 34), 8 (p. 33), and 22 (p. 45), 1996. For 1997: *Pacific Business News 1998 Book of Lists*, "Highest Paid Public Officials, Part I", (originally published July 7, 1997), p. 25; "Part II", (originally published July 14, 1997), p. 26; and "Part III", (originally published July 21, 1997), p. 27.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard expenditures & strength, civilian employment in national defense, veterans, land controlled by the Department of Defense (DOD), military housing, and expenditures by the armed forces. Additional information appears in sections 1, 2, 12, and 23.

The Hawaii State Department of Business, Economic Development & Tourism (DBEDT) has compiled periodic reports on military personnel and dependents since 1959. Other published sources include reports of the U.S. Department of Defense, U.S. Bureau of the Census, Administrator of Veterans Affairs; and the Hawaii State Department of Labor and Industrial Relations and Department of Defense. Definitions used by these sources differ to some degree, and care is necessary in comparing data issued by two or more agencies. In mid-1996, for example, the number of armed forces in Hawaii was reported as 36,392 by DOD, 47,986 by the Bureau of the Census, and 43,019 by the local commanding officers reporting to DBEDT. *Historical Statistics of Hawaii*, Section 26, includes series on the armed forces dating back to 1795. Section 11 of the *Statistical Abstract of the United States: 1997* presents data on national defense and veterans affairs for other states and the U.S. as a whole.

Table 10.01-- HAWAII RESIDENTS ON ACTIVE DUTY WITH THE U.S. ARMED FORCES WORLDWIDE: 1950 TO 1995

[As of June 30, unless otherwise specified. 1950-1979 based on pre-service residence; 1980-1995, on home of record]

Year	Number	Year	Number	Year	Number
1950	7,699	1966	15,875	1981	11,927
1951	10,958	1967	18,048	1982	11,926
1952	16,594	1968	22,433	1983	11,641
1953	16,217	1969	15,856	1984	11,466
1954	16,189	1970	15,331	1985	10,827
1955	15,175	1971	13,600	1986	10,882
1956	15,243	1972	11,600	1987	10,896
1957	14,687	1973	10,200	1988	10,548
1958	13,310	1974	10,810	1989 2/	10,501
1959	12,596	1975	10,640	1990	10,052
1960 1/	12,662	1976	10,600	1991	10,076
1961	11,340	1977	10,640	1992	8,432
1962	13,464	1978	10,715	1993	7,621
1963	14,944	1979 1/	11,069	1994	5,098
1964	15,000	1980	11,851	1995 3/	4,237
1965	15,109				

1/ As of March 31 or April 1.

2/ U.S. military personnel stationed abroad as of December 31, 1989 included 3,782 whose home of record was Hawaii and 5,049 whose last duty station was Hawaii (data from U.S. Bureau of the Census, Press Clippings, CB90-28, July 23, 1990).

3/ For 1995, Defense Manpower Data Center does not include home-of-record for U.S. Air Force.

Source: 1950-1969 estimates by U.S. Bureau of the Census, in Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1977* (Statistical Report 120, September 9, 1977), table 5; 1970-1995 from U.S. Department of Defense, Defense Manpower Data Center, records.

**Table 10.02-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES:
1980 TO 1996**

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ from similar series compiled by the Bureau of the Census and Department of Defense]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1980: April 1	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1	127,887	60,804	56,321	4,483	67,083	31,415
1985: July 1	122,286	58,005	53,848	4,157	64,281	29,997
1986: July 1	124,794	58,584	53,616	4,968	66,210	29,481
1987: July 1	125,127	60,277	56,322	3,955	64,850	32,038
1988: July 1	133,958	64,053	60,621	3,432	69,905	34,535
1989: July 1	116,644	56,370	53,263	3,107	60,274	31,652
1990: April 1	113,833	53,898	50,681	3,217	59,935	30,934
1991: July 1	117,141	53,813	51,197	2,616	63,328	28,655
1992: July 1	109,959	52,965	50,206	2,759	56,994	23,751
1993: July 1	107,603	45,437	44,152	1,285	62,166	25,952
1994: July 1	98,531	44,193	42,790	1,403	54,338	27,478
1995: July 1	92,490	45,971	43,839	2,132	46,519	21,700
1996: July 1	98,356	43,019	40,457	2,562	55,337	24,667

1/ Ship crews living ashore are included with the total ashore.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers. Air Force and Marine Corps data for 1993 partly estimated.

**Table 10.03-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES,
BY SERVICE AND ISLAND: JULY 1, 1995 AND 1996**

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense]

Island and service	Personnel and dependents	Military personnel				Dependents in Hawaii	Military families
		Ashore and afloat	Living ashore		Living aboard ship		
			In hsg. units	In barracks			
1995							
State total	92,490	45,971	30,139	13,700	2,132	46,519	21,700
By island:							
Oahu	91,974	45,700	29,891	13,677	2,132	46,274	21,593
Hawaii	59	41	41	-	-	18	7
Maui	48	25	25	-	-	23	15
Kauai	409	205	182	23	-	204	85
By service:							
Air Force	11,589	4,684	4,128	556	-	6,905	3,075
Army	36,958	18,448	12,744	5,704	-	18,510	8,152
Coast Guard	3,060	1,500	1,324	100	76	1,560	700
Marine Corps	11,212	6,198	2,039	4,159	-	5,014	2,252
Navy	29,671	15,141	9,904	3,181	2,056	14,530	7,521
1996							
State total	98,356	43,019	27,890	12,567	2,562	55,337	24,667
By island:							
Oahu	97,867	42,811	27,711	12,538	2,562	55,056	24,531
Hawaii	105	42	42	-	-	63	30
Maui	77	29	29	-	-	48	19
Kauai	307	137	108	29	-	170	87
By service:							
Air Force	11,303	4,801	4,059	742	-	6,502	3,136
Army	37,504	15,827	10,894	4,933	-	21,677	8,965
Coast Guard	3,174	1,429	1,224	76	129	1,745	748
Marine Corps	11,091	5,876	2,197	3,679	-	5,215	2,849
Navy	35,284	15,086	9,516	3,137	2,433	20,198	8,969

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

**Table 10.04-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS:
1989 TO 1997**

[As of September 30. Excludes Coast Guard]

Year	Active-duty shore-based military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel 3/
1989	45,935	54,724	20,246
1990	41,887	51,727	19,857
1991	44,092	50,006	18,978
1992	44,864	47,671	17,893
1993	42,958	45,612	17,341
1994	42,161	39,989	17,038
1995	38,172	58,788	17,179
1996	36,392	57,786	16,824
1997	34,826	57,720	17,216

1/ Excludes Navy personnel afloat or temporary shore-based, e.g., 5,600 in 1995.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Includes Army personnel performing civil functions.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, *Department of Defense Selected Manpower Statistics* (annual), and at <<http://web1.whs.osd.mil/diorhome.htm>> and at <<http://web1.whs.osd.mil/mmids/mo1/fy96>>, and for 1997 <<http://web1.whs.osd.mil/mmids/m02/97city.htm>>, June 8, 1998.

Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1996 AND 1997

Category	All services	Army	Navy	Air Force	Marine Corps
1996					
Total	94,178	42,993	29,169	10,941	11,075
Military personnel 1/ Dependents 2/	36,392 57,786	15,225 27,768	10,643 18,526	4,571 6,370	5,953 5,122
1997					
Total	(NA)	(NA)	(NA)	(NA)	(NA)
Military personnel 1/ Dependents 3/	34,826 (NA)	15,249 (NA)	9,840 (NA)	3,614 (NA)	6,123 (NA)

NA Not available.

1/ Active duty. Data exclude personnel afloat or temporary shore-based.

2/ Dependents of active-duty military personnel.

3/ Data on dependents of active-duty military personnel are limited to foreign countries only.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1996*, <<http://web1.whs.osd.mil/mmids/m02/m02city.htm>>, <<http://web1.whs.osd.mil/military/309A996.htm>>, <<http://web1.whs.osd.mil/mmids/m01/fy96/sms41ar.htm>>, *Ibid.*, *September 30, 1997* and <<http://web1.whs.osd.mil/military/309A996.htm>>.

Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SELECTED LOCATIONS: SEPTEMBER 30, 1997

Installation or geographic area	Total DOD	Military personnel 1/	Civilian personnel 2/
State total	52,042	34,826	17,216
Aiea	765	544	221
Barbers Point NAS	1,321	926	395
Camp H.M. Smith	705	666	39
Ford Island	466	131	335
Fort Shafter	2,584	1,287	1,297
Hickam AFB	5,069	3,255	1,814
Honolulu	508	222	286
Kaneohe	6,085	5,471	614
Kunia	1,408	1,317	91
Lualualei	385	141	244
Pearl City	130	0	130
Pearl Harbor	15,134	7,310	7,824
Schofield Barracks	11,398	10,056	1,342
Tripler Army Med Ctr	2,548	1,416	1,132
Wahiawa	715	561	154
Wheeler AFB/Army Fld	2,007	1,339	668
Hawaii Island	116	2	114
Kauai Island	265	118	147
Other	433	64	369

1/ Active duty. Navy figure includes Marine Corps and excludes personnel afloat or temporary shore-based.

2/ Direct hire. Army data include civil function personnel.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports at <http://web1.whs.osd.mil/mmids/m02/97cityi.htm>.

**Table 10.07-- FEDERAL DEFENSE EXPENDITURES ON HAWAII GROSS
STATE PRODUCT AND EMPLOYMENT: 1985 TO 1997**

[In millions of dollars unless otherwise indicated]

Year	Gross State Product (GSP)	Federal Defense				
		Expenditures			Employment	
		Total	Percent change from year previous	As percent of GSP	Civilian jobs	Armed forces 1/
1985	17,139.7	3,054.9	(NA)	17.3	20,736	56,383
1986	18,483.0	3,031.4	-0.8	15.9	20,223	58,122
1987	20,027.3	3,023.6	-0.3	14.6	20,008	58,122
1988	22,324.0	3,145.6	4.0	13.7	20,280	56,815
1989	24,574.7	3,269.3	3.9	12.9	20,060	56,360
1990	27,033.6	3,335.8	2.0	12.0	19,466	55,333
1991	28,614.4	3,649.9	9.4	12.4	18,956	54,738
1992	30,259.6	3,833.9	5.0	12.3	17,955	55,099
1993	31,171.9	3,722.4	-2.9	11.6	17,450	52,674
1994	31,965.3	3,797.2	2.0	11.5	16,850	52,845
1995	32,723.7	3,744.2	-1.4	11.1	16,750	50,729
1996	33,509.1	3,939.0	5.2	11.4	16,719	47,986
1997	34,179.3	4,109.1	4.3	11.7	16,477	44,542

1/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. See table 1.03 for historical data.

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

**Table 10.08-- FEDERAL EXPENDITURES FOR ARMY AND AIR
NATIONAL GUARD FOR HAWAII: 1997**

[In dollars. Fiscal year ended September 30]

Category	Army	Air
Total Federal support for National Guard in Hawaii	53,006,291	78,454,685
Total Funds allotted by National Guard to Hawaii	35,700,186	59,065,615
National Guard Personnel Appropriation	8,211,257	1,263,630
Military pay, transportation, and subsistence	7,322,995	929,349
Military uniform	619,645	193,708
Subsistence	268,617	140,573
Oper. and maintenance, military construction approp. - Army	25,224,219	57,801,985
Civilian pay	14,399,003	38,450,571
Transportation and travel	1,241,014	720,847
Personnel	367,709	688,633
Equipment and supplies	873,305	32,214
Equipment, supplies and service	5,664,430	18,630,567
Organizational equipment	865,781	755,644
Petroleum, oils and lubricants	623,306	(NA)
Repair parts and services	1,711,888	(NA)
Other operating supplies and services	2,463,455	(NA)
Supplies	(NA)	3,691,567
Depot level repairables	(NA)	7,818,694
Aviation fuel	(NA)	0
Other operating supplies and services	(NA)	1,060,291
Construction repairs	(NA)	5,304,371
Major construction	(NA)	2,730,303
Major construction/major repairs	(NA)	1,128,168
Operations and maintenance agreements	(NA)	1,445,900
Construction, repairs, and utilities	3,919,772	(NA)
Armory construction	188,698	(NA)
Architectural and engineering services	81,562	(NA)
Non-armory construction	425,000	(NA)
Maintenance, repairs, and minor construction	3,069,311	(NA)
Utilities	155,201	(NA)
Oper. and maintenance Def. Approp.-Army Youth ChalleNGe	2,264,710	(NA)
Total Funded directly by National Guard Bureau	17,306,105	19,389,070
Army drill pay	7,083,150	(NA)
AGR pay	10,222,955	(NA)
Annual training pay	(NA)	2,287,224
Other active duty pay	(NA)	2,321,827
Inactive duty training pay	(NA)	6,720,394
Basic training pay	(NA)	803,083
Active Guard Reserve pay	(NA)	7,256,542

NA Not available.

Source: Hawaii Department of Defense, *Annual Report Fiscal Year 1997*, p. 47.

Table 10.09-- NATIONAL GUARD STRENGTH: 1990 TO 1997

[Actual strength 1/]

Year	Total	Air National Guard	Army National Guard
1990	5,711	2,124	3,587
1991	5,632	2,078	3,554
1992	5,628	2,128	3,500
1993	5,632	2,241	3,391
1994	5,611	2,131	3,480
1995	5,668	2,310	3,358
1996	5,415	2,386	3,029
1997	5,511	2,391	3,120

1/ As of late June for 1990-1995, late November for 1996, September 30 for 1997.

Source: Hawaii State Department of Defense, records for 1990-96 and Ibid., *Annual Report Fiscal Year 1997*, p. 47.

**Table 10.10-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND
NAVY: ANNUAL AVERAGES, 1990 TO 1997**

Service	1990	1991	1992	1993	1994	1995	1996	1997
Total	19,350	18,850	18,100	17,450	16,850	16,750	16,800	16,300
Air Force	2,300	2,250	2,200	2,150	2,000	2,100	1/ 2,100	2,050
Army	5,600	5,400	4,800	4,600	4,600	4,450	1/ 4,850	5,000
Navy	11,450	11,200	11,100	10,700	10,250	10,200	1/ 9,850	9,250

1/ Revised.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book*, May 1997, p. 11; <<http://www.hawaii.gov/workforce/cess90s.txt>>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.11-- ACTIVE-DUTY RECRUITMENT IN HAWAII AND THE PACIFIC,
BY BRANCH OF SERVICE: 1992 TO 1996**

[By fiscal year]

Branch of Service	1992	1993	1994	1995	1996
Air Force 1/	(NA)	(NA)	(NA)	265	362
Army 2/	254	278	323	379	403
Marine Corps	(NA)	(NA)	(NA)	53	80
Navy: Hawaii	117	119	128	159	200
Navy: Guam	43	50	73	82	126

NA Not available.

1/ Total includes Hawaii, Alaska, Guam, American Samoa, and other Pacific Islands, Americans in Asia.

2/ Total includes Hawaii, Guam, American Samoa, and other Pacific Islands, Americans in Asia.

Source: *Honolulu Star Bulletin*, January 2, 1997, pp. A-1 and 11.

**Table 10.12-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM:
1993 TO 1997**

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

Procurement program 1/	1993 2/	1994	1995	1996	1997
Total	631,020	803,297	673,640	928,480	957,353
Airframes and spares	-	-	-	39	581
Aircraft engines and spares	-	-	-	89	-
Other aircraft equipment	164	-	34	67	-
Missile and space systems	6,592	7,975	20,452	6,088	9,694
Ships	11,615	22,049	23,789	18,140	18,394
Electronics and communication equipment	24,888	25,855	26,485	30,838	36,222
Petroleum	56,939	26,056	34,574	33,633	47,883
Containers and hauling equipment	-	-	1,039	-	-
Textiles, clothing, and equipage	-	-	75	124	-
Building supplies	559	811	747	584	576
Subsistence	15,322	13,121	11,544	8,436	9,158
Production equipment	30	26	-	-	-
Construction	272,165	484,046	318,231	513,290	524,134
Construction equipment	-	-	-	-	124
Transportation equipment	-	-	-	-	64
Medical and dental supplies and equipment	1,091	1,876	1,245	6,255	5,823
Photographic supplies and equipment	79	39	45	-	-
Materials handling equipment	-	-	-	-	8,089
All other supplies and equipment	21,153	23,891	34,841	55,974	40,487
Services	220,423	197,551	200,537	253,294	256,123

1/ Procurement programs with no expenditures for the 1993-97 period are: Combat vehicles, Non-combat vehicles, Weapons, Ammunition, and Other fuels and lubricants.

2/ Revised.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Prime Contract Awards by Region and State, Fiscal Years 1993, 1992, and 1991*, p. 29; and <<http://web1.whs.osd.mil/peidhome/geostats/P06/P6Hawaii.htm>>.

**Table 10.13-- ACREAGE OWNED OR CONTROLLED BY THE U.S.
DEPARTMENT OF DEFENSE, BY BRANCH OF SERVICE AND
BY ISLANDS: 1992**

Branch of service and island	Total acreage	Owned in fee or ceded	Leased land
All branches	238,937	167,248	71,689
Branch of service:			
Air Force	5,867	5,286	581
Army	151,927	105,633	46,294
Marines	27,950	3,643	24,307
Navy	53,193	52,686	507
Island:			
Hawaii	101,882	84,822	17,060
Maui	8	5	3
Kahoolawe	28,777	28,777	-
Lanai	-	-	-
Molokai	6,319	12	6,307
Oahu	81,459	51,602	29,857
Kauai	20,384	1,922	18,462
Niihau	-	-	-
Kaula	108	108	-
Northwestern Hawaiian Islands, exc. Midway	-	-	-

Source: *The Honolulu Advertiser*, November 16, 1992, p. A2.

**Table 10.14-- HOUSING UNITS OWNED BY THE ARMED FORCES, BY
SERVICE AND GEOGRAPHIC AREA: APRIL 1, 1995**

Geographic area	All services	Air Force	Army	Coast Guard	Marine Corps	Navy
State total	21,060	3,189	8,389	326	2,095	7,061
Oahu	20,971	3,189	8,386	309	2,095	6,992
Other islands	89	-	3	17	-	69

Source: Hawaii State Department of Business, Economic Development & Tourism, *Statistical Report 230, Housing Unit Estimates for Hawaii, 1980-1995* (September 1996).

**Table 10.15-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:
1970 TO 1995**

Veteran status	Civilian males		All civilians 1/			
	1970	1980	1980	1990	1994	1995
Civilians 16 and over	223,573	316,651	665,036	801,517	(NA)	(NA)
Veterans	89,098	98,633	103,774	119,256	116,000	116,000
War Veteran	75,026	82,230	85,322	87,301	86,000	85,000
Persian Gulf War	-	-	-	-	5,000	6,000
Vietnam era	20,548	36,441	38,136	41,860	42,000	42,000
Korean conflict	20,006	21,860	22,351	22,362	21,000	20,000
World War II	34,486	31,170	32,156	32,551	28,000	27,000
World War I	2,501	824	854	132	(Z)	-
Peacetime veterans only	14,072	16,403	18,452	31,955	30,000	31,000
Nonveterans	134,475	218,018	561,262	682,261	(NA)	(NA)

Z Less than 500.

NA Not available.

1/ Not available for female civilians before 1980.

2/ Detail adds to more than subtotal because some veterans served in more than one war.

Source: U.S. Bureau of the Census, *1970 Census of Population, PC(1)-C13*, table 50; *1980 Census of Population, PC80-1-D13*, table 204; *1990 Census of Population, Social and Economic Characteristics, Hawaii, 1990 CP-2-13* (Sept. 1993), table 23; 1990 Census of Population tapes tabulated by Hawaii State Data Center; *Statistical Abstract of the United States: 1996*, p. 362; and *Ibid.*, 1997, p. 365.

**Table 10.16-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1996 AND 1997**

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
1996				
Department of Defense	13,885	12,525	18,998	1,517
Army	5,591	4,949	6,806	1,375
Navy	3,892	3,531	5,649	1,600
Marine Corps	919	821	1,460	1,778
Air Force	3,483	3,224	5,083	1,577
Addendum 3/: Coast Guard	249	241	449	1,863
1997				
Department of Defense	14,049	12,659	19,624	1,550
Army	5,619	4,972	7,006	1,409
Navy	3,934	3,561	5,818	1,634
Marine Corps	941	843	1,525	1,809
Air Force	3,555	3,283	5,275	1,607
Addendum 3/: Coast Guard	251	240	442	1,842

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc. Calculated by Hawaii State Department of Business, Economic Development & Tourism as Monthly Payment (in dollars) divided by Number Paid by DOD.

3/ Payments made by the U.S. Department of Transportation, shown for informational purposes only, and not included in the DOD totals.

Source: U.S. Department of Defense, Office of the Actuary, *FY 1996 DOD Statistical Report on the Military Retirement System* (1997), p. 20 and *ibid: FY 1997* (1998).

Section 11

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on disability, United Way campaigns, foundations, and the quality of life. Related data are cited in Sections 9 and 13.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Human Services, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. *Historical Statistics of Hawaii*, Section 8, contains data for earlier years. Section 12 of the *Statistical Abstract of the United States: 1997* presents comparable national data.

Table 11.01-- PERSONS SERVED AND AVERAGE PAYMENTS FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES: 1986 TO 1996, MONTHLY AVERAGES

[Years ended June 30]

Year	Financial assistance programs 1/		Average monthly financial assistance payments 2/ (dollars)		Service cases 3/	Medical payments: recipients 4/
	Cases	Recipients	Per case	Per recipient		
1986	21,119	56,140	368.25	138.67	7,186	12,710
1987	19,531	50,954	367.00	140.86	7,402	13,858
1988	18,394	48,108	414.00	158.00	7,217	13,731
1989	18,851	49,389	473.00	181.00	6,108	16,829
1990	19,891	51,696	505.00	195.00	5,846	18,773
1991	20,772	53,327	524.00	204.00	(NA)	18,744
1992	23,217	59,206	542.00	213.00	(NA)	20,532
1993	26,295	66,263	557.00	221.00	10,218	22,680
1994	30,236	74,711	566.00	229.00	14,509	25,518
1995	32,966	80,947	565.88	230.46	(NA)	(NA)
1996	33,232	81,774	554.37	225.29	(NA)	(NA)

NA Not available.

1/ Old age assistance, aid to the blind, aid to disabled, aid to families with dependent children (AFDC), AFDC unemployed parents, AFDC foster care, and general assistance, excluding SSI recipients.

2/ Gross obligation basis.

3/ Social services include adoption, alcohol and drug, chore, daycare, employment, family planning, foster care, health, homemaker, family adjustment, protection, and residential rehabilitation type of services.

4/ Ineligible for money assistance, receiving medical assistance only.

Source: Hawaii State Department of Human Services, DHS Obligations Report, HMSA MR65 report; and Social Services printout.

**Table 11.02-- PERSONS SERVED AND AVERAGE PAYMENTS FOR
PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF
HUMAN SERVICES, BY COUNTIES: 1995 AND 1996, MONTHLY AVERAGES**

[Years ended June 30]

Year	Financial assistance programs 1/		Average monthly financial assistance payments 2/ (dollars)	
	Cases	Recipients	Per case	Per recipient
1995				
Hawaii	7,038	17,759	583.97	231.43
Maui	2,395	6,120	573.13	224.29
Honolulu	22,242	53,710	558.37	231.23
Kauai	1,291	3,358	583.15	224.19
1996				
Hawaii	6,989	17,869	576.67	225.55
Maui	2,431	6,319	572.54	220.26
Honolulu	22,491	54,070	544.11	226.33
Kauai	1,321	3,516	577.51	216.98

1/ Old age assistance, aid to the blind, aid to disabled, aid to families with dependent children (AFDC) AFDC unemployed parents, AFDC foster care, and general assistance, excluding SSI recipients.

2/ Gross obligation basis.

Source: Hawaii State Department of Human Services, DHS Obligations Report.

Table 11.03-- SELECTED SOCIAL WELFARE EXPENDITURES: 1984 TO 1994

[Thousands of dollars. Years ended June 30. Covers expenditures by the Hawaii State Department of Human Services in selected categories]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Admin- istration	Medical payments 1/	Money payments	Social service costs
1984	335,986	148,902	187,084	35,482	185,730	107,508	7,266
1985	294,406	127,052	167,354	33,604	145,559	103,611	11,632
1986	328,804	147,865	180,939	41,637	175,887	98,738	12,541
1987	314,025	141,185	172,840	37,899	172,966	91,909	11,251
1988	341,573	150,412	191,161	35,445	196,270	98,294	11,564
1989	375,992	169,142	206,850	39,315	207,059	114,620	14,998
1990	433,862	198,515	235,347	49,350	235,901	134,350	14,261
1991	485,240	210,593	274,647	52,813	267,295	145,199	19,933
1992	573,466	259,382	314,084	36,121	353,089	162,316	21,940
1993	822,778	300,983	521,795	42,330	547,539	183,785	49,124
1994	731,006	298,946	432,060	41,040	427,528	211,705	50,733

1/ These amounts are for benefits provided to both the Medicaid only recipients and financial assistance recipients under the major programs. Effective 1990, medical payments' administrative costs are included in total administration costs.

Source: Hawaii State Department of Human Services, DHS Fiscal Accounting records.

**Table 11.04-- FINANCIAL ASSISTANCE PAYMENTS AND CASES:
1993 AND 1994**

[Years ended June 30]

Program	Total yearly payments (\$1,000)		Cases (monthly average)		Average monthly payment (dollars)	
	1993	1994	1993	1994	1993	1994
All programs	247,059	280,837	41,266	46,133	499	507
Old age assistance 1/	22,600	25,404	6,315	6,967	298	309
Aid to the blind 1/	742	721	171	161	362	371
Aid to disabled 1/	46,106	48,903	9,222	9,966	417	412
Aid to families with dependent children 2/	138,515	158,373	17,875	19,921	646	662
Child welfare foster care	5,255	5,551	887	941	494	492
General assistance	33,841	41,885	6,796	8,177	415	427

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent.

Source: Hawaii State Department of Human Services, DHS Obligations FY report; Social Security Bulletin, tables 2.A8 and 2.A9; DHS Foster Care and PW5 Service for Kids report.

Table 11.05-- FOOD STAMP PROGRAM: 1993 TO 1996

[Years ended June 30]

Subject	1993	1994	1995	1996
Households, total participating (monthly averages)	42,175	48,142	53,855	58,028
Receiving food stamps and financial assistance	23,581	27,139	30,037	30,238
Receiving only food stamps	18,585	21,003	23,818	27,790
Persons, total participating (monthly averages)	99,571	111,409	122,121	129,430
Receiving food stamps and financial assistance	66,074	74,511	81,680	82,735
Receiving only food stamps	33,498	36,898	40,441	46,695
Value of food stamps given to recipients (\$1,000)	126,789	147,149	171,642	191,797

Source: Hawaii State Department of Human Services, HAWI Food Stamp Program Monthly Summary.

**Table 11.06-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE,
RACE, AND SEX: 1994 TO 1996**

[December data. Based on 10-percent samples]

Age, race, and sex	1994	1995	1996
Total	161,840	166,020	169,300
Age:			
17 years or under	9,870	10,270	10,890
18 to 64 years	27,290	27,980	27,820
65 to 69 years	37,730	37,160	36,900
70 to 74 years	36,480	37,370	37,090
75 years or older	50,470	53,240	1/ 56,600
Race:			
White	41,790	42,310	42,790
Black	2,290	2,930	3,390
Other	116,490	119,530	121,880
Beneficiaries other than children:			
Men	67,210	68,470	69,980
Women	82,380	84,910	86,120

1/ 75-79, 27,380; 80-84, 16,820; 85-89, 8,230; 90-99, 4,070; 100 or older, 100.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1995, 1996, and 1997, table 5.J5 in each.

**Table 11.07-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT STATUS,
BY TYPE OF BENEFIT: 1995 AND 1996**

[December data. Based on 10-percent samples]

Type of benefit	Number of OASDI beneficiaries		Amount of monthly benefits (\$1,000)	
	1995	1996	1995	1996
Total	166,020	169,300	107,600	113,990
Retirement program:				
Retired workers	116,050	118,750	1/ 82,250	2/ 87,100
Spouses	10,810	10,530	3,690	3,740
Children	2,710	2,700	820	870
Survivor program:				
Widows, widowers, and parents	16,860	15,550	10,090	10,320
Children	6,360	6,820	3,080	3,390
Disability program:				
Disabled workers	10,040	10,800	6,930	7,750
Spouses	820	470	100	90
Children	3,570	3,680	640	730
Age 65 and over	127,770	130,590	87,291	92,390
Men	56,680	57,830	44,450	46,988
Women	71,090	72,760	42,840	45,402

1/ Average monthly benefit was \$708.80; median was \$710.00.

2/ Average monthly benefit was \$717.30; median was \$687.00.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1996 and 1997, tables 5.J2, 5.J3, 5.J4, 5.J6.

**Table 11.08-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT
STATUS, BY COUNTIES: 1994 AND 1995**

[December data]

Year and county	Number of OASDI beneficiaries		Amount of monthly benefits (\$1,000)	
	Total	Age 65 and over	Total	Age 65 and over
1994				
State total 1/	162,463	124,813	101,717	82,720
Hawaii	22,835	16,365	14,145	10,964
Honolulu	114,850	89,825	71,869	59,177
Kalawao	105	90	61	54
Kauai	8,805	6,765	5,514	4,507
Maui	15,660	11,635	9,995	7,930
Unknown	210	120	121	77
1995				
State total 1/	166,089	127,698	107,660	87,455
Hawaii	23,587	16,805	15,097	11,615
Honolulu	117,397	91,930	76,094	62,631
Kalawao	10	10	3	3
Kauai	9,032	6,955	5,854	4,771
Maui	16,056	12,000	10,606	8,436
Unknown	7	5	5	6

1/ Because of special rounding procedures, county detail may not add exactly to State totals, and State totals may differ somewhat from corresponding values in other OASDI tables in this section.

Source: U.S. Department of Health and Human Services, *OASDI Beneficiaries by State and County* for December 1994 and 1995, tables 4 and 5.

**Table 11.09-- SOCIAL SECURITY BENEFICIARIES AND BENEFITS PAID:
1991 TO 1996**

Year	Number of beneficiaries, December	Monthly benefits, December (\$1,000)	Annual benefits paid (million dollars)
1991	151,390	85,182	971
1992	154,950	90,840	1,041
1993	158,370	95,812	1,106
1994	161,840	101,506	1,169
1995	168,020	107,600	1,243
1996	169,300	113,990	1,317

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement, 1997*, tables 5.J1, 5.J2, and 5.J4, and corresponding data in earlier reports.

**Table 11.10-- MEDICARE BENEFICIARIES ENROLLED AND BENEFIT
PAYMENTS: 1996 AND 1997**

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments 1/ (\$1,000)	
	1996	1997	1996	1997	1996	1997
Hospital and/or medical insurance	153,113	155,186	141,280	(NA)	612,461	655,491
Hospital insurance	152,024	154,130	140,191	(NA)	-	-
Supplementary medical insurance	142,945	144,339	132,501	(NA)	-	-
Hospital and medical insurance (both)	141,856	143,333	131,412	(NA)	-	-

NA Not available.

1/ Fiscal years.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, Office of Health Care Information Systems, records.

**Table 11.11-- DISABILITY OF CIVILIAN NONINSTITUTIONALIZED
PERSONS, FOR THE STATE AND OAHU: 1990**

Disability status	State total	Oahu only
Persons 16 to 64 years	672,828	503,514
With a mobility or self-care limitation	27,080	20,873
With a mobility limitation	11,029	8,176
With a self-care limitation	21,245	16,573
With a work disability	44,370	31,079
In labor force	19,765	13,938
Prevented from working	20,330	14,013
Persons 65 years and over	120,972	88,604
With a mobility or self-care limitation	21,251	15,973
With a mobility limitation	15,280	11,205
With a self-care limitation	13,477	10,333

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (Sept. 1993), table 34.

**Table 11.12-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM:
1992 TO 1997**

Year	Member- ship, 1/ March 31	Pensioners and beneficiaries, March 31	Assets, 2/ June 30 (\$1,000)	Total benefits paid 3/ (\$1,000)	Average monthly pension 3/ (dollars)	Adminis- tration expenses 3/ (dollars)
1992	57,401	21,787	4,551,348	284,194	4/ 950	2,446,107
1993	59,518	22,387	4,987,341	309,245	4/ 1,004	2,274,981
1994	61,082	22,905	5,416,206	331,393	4/ 1,057	2,875,676
1995	60,687	25,360	5,599,698	408,206	4/ 1,143	2,896,684
1996	59,275	26,926	6,063,298	457,713	1,220	2,960,240
1997	59,500	27,173	7,888,168	436,397	1,276	3,217,348

1/ State and county employees. Includes former vested employees but excludes all pensioners.

2/ Prior to June 30, 1997, assets are reported at cost. Effective June 30, 1997, assets are reported at fair value.

3/ Year ended June 30. Data on total benefits paid exclude the employers' share of social security contributions.

4/ Data revised.

Source: Employees' Retirement System of the State of Hawaii, *Comprehensive Annual Financial Report*, and records.

Table 11.13-- CHILD ADOPTIONS: 1989 TO 1994

Type of adoption	1989	1990	1991	1992	1993	1994
Total	830	678	592	557	404	500
By relatives	577	479	408	375	287	345
By nonrelative	253	190	176	182	117	155
Placed by social agencies	207	174	153	172	95	120

Source: Hawaii State Department of Human Services, tabulations from SRS-NCSS-280 Adoption Cards.

Table 11.14-- UNEMPLOYMENT INSURANCE: 1987 TO 1997

[Covering private industry, Federal, State and County governments and nonprofit organizations]

Calendar year	Covered employment	Insured unemployment		Average weekly total wages (dollars)	Benefit payments (\$1,000)	Average weekly benefits (dollars)	Average benefit duration (weeks)
		Weekly average	Percent coverage				
1987	470,179	7,329	37	364.79	49,900	149.50	13.4
1988	485,707	6,708	42	392.73	50,659	162.51	13.5
1989	508,673	5,238	40	415.75	40,833	170.03	12.0
1990	533,229	5,722	38	444.92	50,269	189.40	11.4
1991	541,415	8,106	51	463.43	83,530	205.70	13.0
1992	544,718	11,933	1/ 45	492.94	144,741	235.48	14.8
1993	542,333	13,227	1/ 53	503.02	165,877	246.31	17.6
1994	540,015	15,228	1/ 43	514.13	193,878	258.72	17.4
1995	535,640	1/ 15,819	48	518.88	208,316	262.21	16.0
1996	533,123	15,351	41	526.04	200,050	261.07	17.8
1997	(NA)	13,819	36	(NA)	176,659	259.30	17.1

NA Not available.

1/ Revised.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book, 1998*; *Labor Force Data Book* (annual); and records.

**Table 11.15-- CHILD DAY CARE SERVICES (SIC 835) WITH PAYROLL, BY
FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA:
1987, 1992 AND 1995**

[Child day care services without payroll subject to Federal income tax, not included in this table,
numbered 1,235 establishments in 1992 with receipts of \$9,069,000]

Geographic area	Number of establishments		Receipts or revenue (\$1,000)		Paid employees, March 12	
	Subject to tax	Tax exempt	Subject to tax	Tax exempt	Subject to tax	Tax exempt
1987						
State total	32	89	3,049	15,748	225	999
Oahu	22	69	2,379	14,470	183	902
Neighbor Islands	10	20	670	1,278	42	97
1992						
State total	42	120	5,105	27,580	234	1,353
Oahu	24	91	3,274	22,416	162	1,129
Neighbor Islands	18	29	1,831	5,164	72	224
1995						
State total	154		(NA)		1,664	
Oahu	117		(NA)		1,391	
Neighbor Islands	13		(NA)		112	

Source: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), tables 1a, 1b, 8a, and 8b; *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 1b, 7a, 7b, 8a, and 8b; *1992 Census of Service Industries, Nonemployer Statistics Series, Summary*, SC92-N-1 (March 1995), table 3; *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), tables 1b and 2.

**Table 11.16-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS:
1995 TO 1997**

[Thousands of dollars]

Year and island	Total revenues	Contributions	Total outlays	Agency allocation
1995				
Total reported	16,468	14,799	15,585	11,255
Aloha United Way (Oahu)	13,430	11,799	12,803	8,956
Hawaii Island United Way	1,051	1,005	965	681
Kauai United Way	543	543	830	636
Maui United Way	1,393	1,393	944	944
Friendly Isle United Way (Molokai)	51	59	43	38
1996				
Total reported	16,632	14,799	14,961	10,733
Aloha United Way (Oahu)	13,800	12,030	12,800	9,034
Hawaii Island United Way	1,006	967	951	677
Kauai United Way	505	505	518	334
Maui United Way	1,265	1,265	669	669
Friendly Isle United Way (Molokai)	56	32	23	19
1997				
Total reported	(NA)	(NA)	(NA)	(NA)
Aloha United Way (Oahu)	(NA)	(NA)	(NA)	(NA)
Hawaii Island United Way	1,067	990	1,035	744
Kauai United Way	505	505	539	350
Maui United Way	1,440	1,440	1,090	1,090
Friendly Isle United Way (Molokai)	71	26	20	26

Source: Aloha United Way, records; Hawaii Island United Way, Inc., records; Kauai United Way, records; Maui United Way, records; Friendly Isle United Way, records.

Table 11.17-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE AND HONOLULU METROPOLITAN STATISTICAL AREA: 1993 TO 1998

Area, authority, and year of publication	Number of areas ranked	Hawaii or Honolulu rank
State:		
Morgan Quitno, 1993	50	9
Morgan Quitno, 1994	50	20
Thomas, 1995	50	2
Morgan Quitno, 1995	50	24
Morgan Quitno, 1996	50	27
Morgan Quitno, 1997	50	33
Morgan Quitno, 1998	50	30
Honolulu MSA:		
<i>Money</i> , 1993	300	124
<i>Money</i> , 1994	300	155
<i>Money</i> , 1995	300	102
<i>Money</i> , 1996	300	88
<i>Money</i> , 1997	300	167
<i>Money</i> , 1998 1/	23	16

1/ Comparison limited to medium-size MSAs (250,000 to 1,000,000 inhabitants) in the West.

Source: Morgan Quitno (publisher), *State Rankings* (annual); G. Scott Thomas, *The Rating Guide to Life in America's Fifty States*, cited in *American Demographics*, Feb. 1995, pp. 13-14; "Best Places to Live in America" (annual survey), *Money*, July 1997 and earlier issues; <http://mouth.pathfinder.com/money/best-cities-97>; <http://pathfinder.com/money/bestplaces>.

Section 12

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by occupation, industry, and class of worker, payrolls, wage rates, hours, industrial safety, unionization, and strikes. Related series appear in Sections 3, 9, 10, and 19 through 23.

Principal sources for the data on labor force, employment, place of work, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's Current Population Survey, reports by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. *Historical Statistics of Hawaii*, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 13 of the *Statistical Abstract of the United States: 1997*.

Table 12.01-- LABOR FORCE STATUS, BY SEX: 1960 TO 1990

Sex and labor force status	1960	1970	1980	1990
BOTH SEXES				
Persons 16 years and over	402,937	522,018	723,479	855,518
Labor force	263,450	344,269	494,223	602,348
Percent in labor force	65.4	65.9	68.3	70.4
Armed forces	47,255	49,785	58,443	54,001
Civilian labor force	216,195	294,484	435,780	548,347
Employed	207,456	285,556	415,181	529,059
Unemployed	8,739	8,928	20,599	19,288
Percent of civ. labor force	4.0	3.0	4.7	3.5
Not in labor force	139,487	177,749	229,256	253,170
MALE				
Persons 16 years and over	219,822	272,726	370,683	434,203
Labor force	186,507	222,221	290,420	335,651
Percent in labor force	84.8	81.5	78.3	77.3
Armed forces	46,626	48,860	54,032	47,441
Civilian labor force	139,881	173,361	236,388	288,210
Employed	135,481	168,940	225,331	277,735
Unemployed	4,400	4,421	11,057	10,475
Percent of civ. labor force	3.1	2.6	4.7	3.6
Not in labor force	33,315	50,505	80,263	98,552
FEMALE				
Persons 16 years and over	183,115	249,292	352,796	421,315
Labor force	76,943	122,048	203,803	266,697
Percent in labor force	42.0	49.0	57.8	63.3
Armed forces	629	925	4,411	6,560
Civilian labor force	76,314	121,123	199,392	260,137
Employed	71,975	116,616	189,850	251,324
Unemployed	4,339	4,507	9,542	8,813
Percent of civ. labor force	5.7	3.7	4.8	3.4
Not in labor force	106,172	127,244	148,993	154,618

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960, Detailed Characteristics, Hawaii*, PC(1)-13D (1962), table 115; *1970 Census of Population, General Social and Economic Characteristics, Hawaii*, PC(1)-C13 (December 1971), table 53; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 24.

Table 12.02-- LABOR FORCE CHARACTERISTICS, BY COUNTIES: 1990

Subject	State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Population 16 years and over	855,518	88,999	651,920	130	38,348	76,121
Female	421,315	44,417	320,345	55	19,124	37,374
Percent in labor force	70.4	64.2	71.1	31.5	68.9	72.5
Female	63.3	58.6	63.6	25.5	63.7	66.2
Civilian labor force	548,347	56,986	410,023	41	26,185	55,112
Percent unemployed	3.5	4.6	3.5	-	3.6	2.7
Worked in 1989	639,859	62,296	490,444	55	28,258	58,806
40 or more weeks	509,005	47,196	393,023	42	22,290	46,452
Usually worked 35 or more hours per week, 50 to 52 weeks	369,436	33,652	287,224	35	15,594	32,931
Females with own children under 6 years	68,218	7,584	51,261	-	3,228	6,145
Percent in labor force	63.4	60.5	63.1	-	70.5	65.5
Own children under 6 years in families and sub- families, all parents in household in labor force	57,489	6,274	42,594	-	2,983	5,638

Source: U.S. Bureau of the Census *1990 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, Hawaii*, 1990 CPH-5-13 (April 1992), table 6.

**Table 12.03-- SELECTED LABOR FORCE AND COMMUTING CHARACTERISTICS,
BY GEOGRAPHIC AREA: 1990**

Subject	State total	Oahu	Other islands
LABOR FORCE STATUS			
Females 16 years and over	421,315	320,345	100,970
With own children under 6 years	68,218	51,261	16,957
Percent in labor force	63.4	63.1	64.3
With own children 6 to 17 years only	68,083	50,385	17,698
Percent in labor force	81.6	81.6	81.4
Own children under 6 years in families and subfamilies	95,622	71,395	24,227
All parents present in household in labor force	57,489	42,594	14,895
Own children 6 to 17 years in families and subfamilies	171,939	124,553	47,386
All parents present in household in labor force	126,493	91,916	34,577
Persons 16 to 19 years	57,184	43,946	13,238
Not enrolled in school and not high school graduate	4,267	3,096	1,171
Employed or in Armed Forces	2,063	1,440	623
Unemployed	564	408	156
Not in labor force	1,640	1,248	392
COMMUTING TO WORK			
Workers 16 years and over	567,765	437,518	130,247
Percent drove alone	60.5	57.6	70.1
Percent in carpools	20.5	20.9	18.9
Percent using public transportation	7.4	9.3	0.9
Percent using other means	2.6	2.8	2.0
Percent walked or worked at home	9.0	9.3	8.0
Mean travel time to work (minutes)	23.8	24.8	20.3

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), tables 36 and 37.

Table 12.04-- LABOR FORCE STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGES, 1994 TO 1995

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
1994				
Civilian noninstitutional population	856	402	453	55
Civilian labor force	583	298	284	26
Percent of population	68.1	74.1	62.8	47.3
Employment	547	277	270	22
Percent of population	64.0	68.9	59.6	39.3
Unemployment	35	21	14	4
Rate 1/	6.1	7.1	5.0	16.9
Not in civilian labor force	273	104	169	29
1995				
Civilian noninstitutional population	862	398	464	59
Civilian labor force	580	296	284	27
Percent of population	67.3	74.3	61.2	45.3
Employment	546	275	270	22
Percent of population	63.3	69.3	58.2	38.2
Unemployment	34	20	14	4
Rate 1/	5.9	6.8	4.9	15.7
Not in civilian labor force	282	102	180	32

1/ Percent of civilian labor force. The 1995 error ranges for these rates, at the 90-percent confidence level, are: both sexes, 5.2-6.6; men, 5.7-7.9; women, 3.9-5.8; 16-19 years (both sexes), 10.9-20.6.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1994* (Bulletin 2469, December 1995), p. 39, and *Geographic Profile of Employment and Unemployment, 1995* (Bulletin 2486, February 1997), p. 39.

**Table 12.05-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, BY RACE
AND HISPANIC ORIGIN: 1995**

Race or origin 1/	Both sexes	Female
All races	579,800	274,450
White	188,450	86,900
Asian or Pacific Islander	372,800	178,850
Japanese	144,500	69,000
Filipino	95,150	46,900
Hawaiian	65,900	31,000
Chinese	38,450	18,050
Korean	12,650	6,850
Other Asian or Pacific Islander	16,150	7,100
Black	7,400	3,650
American Indian, Eskimo, Aleut	2,800	1,400
Other race	8,350	3,600
Minority group	391,300	187,550
Hispanic (all races)	35,300	16,500

1/ Based on census definitions. Persons of mixed race are classified by self-identification or race of mother.
Source: Hawaii State Department of Labor and Industrial Relations, unpublished estimates.

**Table 12.06-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:
ANNUAL AVERAGES, 1980 TO 1997**

Year	Civilian labor force	Civilian employed	Unemployed	
			Number	Percent
1980	440,000	418,000	21,000	4.9
1981	451,000	427,000	24,000	5.4
1982	461,000	430,000	31,000	6.7
1983	472,000	442,000	30,000	6.5
1984	472,000	445,000	27,000	5.6
1985	479,000	452,000	27,000	5.6
1986	492,000	468,000	24,000	4.8
1987	514,000	494,000	20,000	3.8
1988	518,000	502,000	16,000	3.1
1989	524,000	511,000	13,000	2.5
1990	542,000	527,000	15,000	2.8
1991	573,750	557,750	16,000	2.8
1992	584,050	557,450	26,650	4.6
1993	586,000	560,900	25,100	4.3
1994	580,150	545,000	35,150	6.1
1995	576,400	542,650	33,800	5.9
1996	590,200	552,550	37,650	6.4
1997	592,000	554,150	37,900	6.4

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and Internet site <http://www.hawaii.gov/workforce/index.html>.

**Table 12.07-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1987 TO 1997**

[Island data may not add exactly to State totals in preceding table]

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
CIVILIAN LABOR FORCE							
1987	383,400	54,050	24,900	51,600	1,000	48,050	2,600
1988	384,100	54,900	26,000	52,750	1,050	49,200	2,450
1989	384,500	56,900	27,600	55,000	1,450	51,300	2,250
1990	402,300	57,500	25,750	56,500	1,400	52,400	2,700
1991	419,850	63,800	28,600	61,500	1,550	57,300	2,650
1992	423,350	65,350	29,450	65,900	1,600	61,250	3,050
1993	426,400	65,300	28,350	66,000	1,550	61,600	2,850
1994	420,350	65,350	28,650	65,800	1,500	61,400	2,900
1995	418,150	64,150	28,350	65,800	1,600	61,200	2,950
1996	426,850	66,850	28,850	67,650	1,650	62,900	3,100
1997	425,950	68,750	28,500	68,800	1,700	64,300	2,850
CIVILIAN EMPLOYED							
1987	369,850	50,950	23,850	49,350	850	46,250	2,250
1988	373,500	52,200	25,050	51,000	950	47,800	2,250
1989	375,950	54,700	26,800	53,550	1,300	50,200	2,050
1990	393,300	55,200	24,700	53,800	1,300	50,300	2,200
1991	411,250	60,900	27,400	58,200	1,450	54,350	2,400
1992	410,700	60,050	26,400	60,250	1,500	56,200	2,550
1993	413,250	60,400	24,700	62,500	1,400	58,500	2,600
1994	400,850	58,300	24,550	61,300	1,350	57,350	2,600
1995	398,950	57,600	25,100	61,000	1,550	56,850	2,600
1996	404,300	60,200	25,350	62,700	1,550	58,550	2,600
1997	403,400	61,750	25,300	63,650	1,600	59,650	2,400

Continued on next page.

Table 12.07-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1987 TO 1997 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1987	13,550	3,100	1,100	2,250	150	1,800	300
1988	10,600	2,700	950	1,750	100	1,450	200
1989	8,550	2,200	800	1,450	100	1,100	200
1990	8,950	2,300	1,050	2,700	100	2,100	500
1991	8,600	2,900	1,200	3,300	100	2,950	250
1992	12,650	5,250	3,050	5,650	150	5,050	500
1993	13,150	4,850	3,600	3,450	150	3,100	250
1994	19,500	7,100	4,100	4,500	100	4,050	300
1995	19,200	6,550	3,250	4,800	100	4,400	350
1996	22,550	6,650	3,500	4,950	100	4,350	500
1997	22,500	7,000	3,200	5,150	100	4,650	400
PERCENT UNEMPLOYED							
1987	3.5	5.8	4.3	4.4	14.9	3.7	12.2
1988	2.8	4.9	3.7	3.3	7.5	2.9	8.8
1989	2.2	3.9	2.8	2.6	8.3	2.2	9.8
1990	2.2	4.0	4.1	4.8	5.9	4.1	18.1
1991	2.0	4.5	4.1	5.4	6.7	5.1	10.1
1992	3.0	8.1	10.3	8.6	7.8	8.3	16.0
1993	3.1	7.5	12.8	5.3	8.9	5.0	8.4
1994	4.6	10.8	14.3	6.8	7.1	6.6	10.8
1995	4.6	10.2	11.4	7.3	5.3	7.2	11.4
1996	5.3	9.9	12.2	7.3	5.8	6.9	16.0
1997	5.3	10.2	11.3	7.5	6.0	7.2	14.8

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and Internet site <http://www.hawaii.gov/workforce/laus.htm>.

**Table 12.08-- CHARACTERISTICS OF THE INSURED UNEMPLOYED:
ANNUAL AVERAGES, 1996**

[Percent distributions. Includes all eligible claimants who filed new claims for unemployment insurance benefits during the year. Includes both intrastate and interstate agent claimants]

Characteristic	Percent	Characteristic	Percent
Total	1/ 100.0	Industry--con.:	
Age:		Finance	4.1
Under 22 years	2.6	Services	22.9
22 to 24 years	5.3	Hotel	4.2
25 to 34 years	28.2	Others	4.3
35 to 44 years	29.3	Occupation:	
45 to 54 years	21.1	Prof., tech., mgr.	19.1
55 to 64 years	10.5	Clerical, sales	18.7
65 years and over	3.0	Services	11.8
Sex:		Farm, fish., forest	4.1
Male	65.9	Processing	0.8
Female	34.1	Machine trades	2.0
Industry:		Bench work	0.8
Government	6.0	Structural work	33.9
Agriculture	4.1	Miscellaneous	7.3
Construction	30.6	Not available	1.7
Manufacturing	4.5	Duration:	
Trans., commun., util.	6.5	1 to 4 weeks	33.5
Wholesale, retail trade	17.0	5 to 14 weeks	38.0
		15 weeks and over	28.5

1/ Percentages may not add exactly to indicated total, due to rounding.

Source: Hawaii State Department of Labor and Industrial Relations, *Characteristics of the Insured Unemployed in Hawaii 1996*.

**Table 12.09-- WAGE AND SALARY JOBCOUNT: ANNUAL AVERAGES,
1980 TO 1997**

[Persons holding more than one job are counted in each position. As a result, these data differ from corresponding estimates of employment, reported elsewhere in this section. Active-duty armed forces are excluded, unless also employed in civilian jobs. Persons not working because of labor disputes are excluded]

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1980	414,900	335,750	31,750	16,700	30,750
1981	416,300	335,050	32,600	16,700	31,950
1982	410,700	328,400	32,500	16,550	33,300
1983	417,400	332,750	33,150	17,100	34,400
1984	423,450	336,900	34,200	17,000	35,400
1985	436,150	344,950	35,700	18,000	37,550
1986	448,700	354,050	36,550	19,150	38,950
1987	470,500	369,300	39,000	20,600	41,600
1988	488,050	380,800	40,650	22,200	44,400
1989	515,100	397,900	44,950	24,350	47,900
1990	537,950	412,950	48,950	25,100	50,850
1991	548,700	417,850	51,650	26,400	52,850
1992	552,100	420,250	51,300	25,650	54,900
1993	547,450	416,900	50,800	23,550	56,200
1994	544,200	413,600	50,250	24,050	56,300
1995	540,150	410,250	49,600	24,450	55,850
1996	538,150	406,750	50,700	24,150	56,200
1997	539,050	405,300	51,900	24,100	57,150

Source: Hawaii State Department of Business, Economic Development and Tourism, computed from data provided by Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and Internet site <http://www.hawaii.gov/workforce/index.html>.

**Table 12.10-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES,
1992 TO 1997**

[Data rounded to nearest 50. Totals may not add due to rounding or residual categories]

Industry	1992	1993	1994	1995	1996	1997
Nonagriculture, wage and salary	542,800	538,900	536,200	532,850	530,750	531,850
Construction, mining	31,550	32,350	29,200	26,300	23,650	22,300
Manufacturing	19,700	19,150	17,750	17,000	16,650	16,600
Durable goods	4,250	4,100	4,100	3,550	3,450	3,250
Nondurable goods	15,450	15,050	13,650	13,400	13,200	13,350
Food processing 1/	8,350	7,850	6,700	6,350	6,300	6,450
Sugar	2,200	2,050	(NS)	(NS)	(NS)	(NS)
Pineapple	1,200	900	(NS)	(NS)	(NS)	(NS)
Other	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Textile, apparel 2/	2,100	2,250	2,250	2,200	2,150	2,250
Printing, publishing	3,500	3,500	3,350	3,300	3,200	3,100
Other nondurable goods	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
Transp., commun., utilities	43,250	41,300	41,800	40,700	41,050	41,400
Transportation 3/	32,900	31,350	31,900	30,700	31,000	31,350
Communication	6,900	6,400	6,250	6,250	6,400	6,500
Utilities	3,400	3,550	3,650	3,750	3,700	3,600
Trade	135,750	133,000	133,300	135,800	135,200	134,550
Wholesale	22,500	21,950	21,550	21,550	21,400	20,950
Retail	113,250	111,100	111,750	114,250	113,850	113,600
Finance, insur., real estate	37,950	38,950	38,400	37,150	36,900	36,100
Services and miscellaneous	163,550	162,550	163,900	164,500	166,650	169,200
Hotels	40,950	38,000	38,000	37,750	38,350	38,450
Other services, misc.	122,600	124,550	125,900	126,750	128,300	130,750
Government	111,100	111,600	111,850	111,400	110,550	111,650
Federal	33,250	31,800	31,250	31,050	3,110	30,650
Air Force	2,200	2,150	2,000	2,100	2,100	2,050
Army	4,800	4,600	4,600	4,450	4,850	5,000
Navy	11,100	10,700	10,250	10,200	9,850	9,250
Other	(NS)	(NS)	(NS)	(NS)	(NS)	(NS)
State	62,600	64,250	65,000	63,950	62,250	64,250
Local 3/	15,250	15,500	15,600	16,450	16,600	16,750
Agriculture, wage and salary	9,300	8,550	8,000	7,300	7,400	7,200
Sugar	2,850	2,500	(NS)	(NS)	(NS)	(NS)
Pineapple	1,450	1,350	(NS)	(NS)	(NS)	(NS)
Other	5,000	4,700	(NS)	(NS)	(NS)	(NS)
Nonagric., self-employed 2/	34,850	38,300	34,050	(N/A)	(N/A)	(N/A)
Agric., self-employed 3/	4,350	3,950	3,850	(N/A)	(N/A)	(N/A)
Labor disputes	-	(Z)	(Z)	-	-	-

Footnotes and source on next page.

**Table 12.10-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES,
1992 TO 1997 -- Con.**

NS Not shown separately.

Z Fewer than 50.

1/ Data beginning with 1994 are not directly comparable with data for earlier years.

2/ Data for 1993 and 1994 are not directly comparable with data for earlier years.

3/ Data for 1995 are not directly comparable with data for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations Internet site <http://www.hawaii.gov/workforce/ces.htm#jci>.

Table 12.11-- EMPLOYMENT BY INDUSTRY: 1970 TO 1990

Industry	1970	1980	1990
Employed persons 16 years and over	285,556	415,181	529,059
Agriculture, forestry, and fisheries	13,161	14,560	16,509
Mining	322	233	323
Construction	26,637	29,888	42,071
Manufacturing	31,188	32,914	32,348
Nondurable goods	21,173	21,234	18,976
Durable goods	10,015	11,680	13,372
Transportation, communications, and other public utilities	26,403	36,478	46,953
Wholesale and retail trade	61,044	98,542	121,627
Finance, insurance, and real estate	14,356	31,648	39,506
Business and repair services	8,978	17,832	23,629
Personal services	20,301	31,288	43,721
Entertainment and recreation services	3,756	6,862	10,312
Professional and related services	48,310	73,363	109,110
Public administration	31,100	41,573	42,950

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 26.

**Table 12.12-- JOBCOUNT BY INDUSTRY, BY COUNTIES:
ANNUAL AVERAGES, 1997**

[Data rounded to nearest 50. Totals may not add due to rounding or residual categories]

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	531,850	403,350	49,450	23,300	55,200
Construction, mining	22,300	17,300	2,100	950	1,950
Manufacturing	16,600	12,750	1,650	400	1,850
Durable goods	3,250	2,800	200	50	250
Nondurable goods	13,350	9,950	1,450	400	1,600
Food processing	6,450	3,950	1,000	200	1,300
Textile, apparel	2,250	2,050	(NS)	(NS)	(NS)
Printing, publishing	3,100	2,550	200	150	250
Other nondurable goods	1,550	1,400	250	50	50
Transp., commun., utilities	41,400	33,400	2,650	1,550	3,700
Transportation	31,350	25,450	1,750	1,200	2,900
Communication	6,500	5,450	400	(NS)	(NS)
Utilities	3,600	2,500	500	(NS)	(NS)
Trade	134,550	99,850	12,850	6,600	15,050
Wholesale	20,950	17,350	1,700	500	1,350
Retail	113,600	82,500	11,150	6,100	13,700
Finance, insur., real estate	36,100	28,950	2,600	1,500	3,100
Services and miscellaneous	169,200	122,350	17,400	8,300	22,050
Hotels	38,450	17,500	6,750	3,350	11,000
Other services, misc.	130,750	104,850	10,650	4,950	11,050
Government	111,650	89,750	10,250	3,950	7,500
Federal	30,650	28,850	900	400	500
Air Force, Army, Navy	16,300	16,000	100	200	-
Other	14,350	12,850	800	200	500
State	64,250	49,350	7,150	2,550	5,100
Local	16,750	11,550	2,200	1,050	1,900
Agriculture, wage and salary	7,200	1,950	2,450	800	1,950
Labor disputes	-	-	-	-	-

NS Not shown separately.

Z Fewer than 50.

Source: Hawaii State Department of Labor and Industrial Relations Internet site <http://www.hawaii.gov/workforce/ces.htm#jci>.

Table 12.13-- OCCUPATION: 1970 TO 1990

Occupation	1970	1980	1990
Employed persons 16 years and over	285,556	415,181	529,059
Managerial and professional specialty occupations	58,242	97,606	139,523
Executive, administrative, and managerial occupations	25,048	48,671	67,907
Professional specialty occupations	33,194	48,935	71,616
Technical, sales, and administrative support occupations	83,698	132,651	172,654
Technicians and related support occupations	7,442	11,982	18,404
Sales occupations	28,227	47,475	66,596
Administrative support occupations, including clerical	48,029	73,194	87,654
Service occupations	44,024	74,149	92,882
Private household occupations	2,131	1,547	1,075
Protective service occupations	4,304	7,578	10,956
Service occupations, except protective and household	37,589	65,024	80,851
Farming, forestry, and fishing occupations	12,572	14,154	15,328
Precision production, craft, and repair occupations	43,484	48,198	55,518
Operators, fabricators, and laborers	43,536	48,423	53,154
Machine operators, assemblers, and inspectors	13,589	14,000	15,380
Transportation and material moving occupations	13,767	16,430	18,796
Handlers, equipment cleaners, helpers, and laborers	16,180	17,993	18,978

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 25.

Table 12.14-- EMPLOYMENT BY CLASS OF WORKER: 1940 TO 1990

[Persons 14 years and over through 1960; 16 years and over, 1970 to 1990]

Year	All employed civilians	Private wage and salary workers	Government workers	Self-employed workers	Unpaid family workers
1940	153,796	113,551	18,553	15,967	5,725
1950	167,571	111,036	34,400	19,192	2,943
1960	209,370	144,602	46,078	17,009	1,681
1970	285,556	200,912	70,547	12,832	1,265
1980	415,181	300,315	90,401	22,965	1,500
1990	529,059	385,061	107,777	34,291	1,930

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii*, Final Report PC (1)-13C (February 1962), table 56; *1970 Census of Population, General Social and Economic Characteristics, Hawaii*, PC(1)-C13 (December 1971), table 56; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), table 67; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 27.

**Table 12.15-- CIVILIAN EMPLOYMENT, FULL- AND PART-TIME:
ANNUAL AVERAGES, 1995**

[Thousands]

Year, sex, and age	Full- and part-time	Full-time	Part-time			
			Total	Non-economic reasons	Economic reasons	Not at work
Total	545	441	104	82	17	6
Male	275	242	33	25	6	2
Female	270	199	71	57	11	4
16 to 19 years (both sexes)	23	6	17	14	2	1

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1995* (Bulletin 2486, February 1997), table 13.

**Table 12.16-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX:
ANNUAL AVERAGES, 1995**

Occupation	Both sexes	Men	Women
All occupations (number in thousands)	546	275	270
Percent	100.0	100.0	100.0
Managerial and professional specialty:			
Executive, administrative, and managerial	13.4	13.6	13.2
Professional specialty	13.9	11.0	16.8
Technical, sales, and administrative support:			
Technicians and related support	2.4	3.2	1.6
Sales	14.1	11.9	16.5
Administrative support, including clerical	16.5	6.7	26.4
Service occupations	18.2	17.3	19.0
Precision production, craft, and repair	9.7	18.2	1.1
Operators, fabricators, and laborers:			
Machine operators, assemblers, and inspectors	1.7	2.0	1.5
Transportation and material moving	3.3	5.8	0.9
Handlers, equipment cleaners, helpers, and laborers	3.4	5.5	1.3
Farming, forestry, and fishing	3.3	4.8	1.8

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1995* (Bulletin 2486, February 1997), table 15.

**Table 12.17-- MULTIPLE JOBHOLDER LEVELS AND RATES:
MAY 1991 AND ANNUAL AVERAGES FOR 1994 AND 1996**

Subject	May 1991	Annual average	
		1994	1996
Employed, 16 years and over (1,000)	(NA)	554,000	555,000
Multiple jobholders (1,000)	52,000	48,000	52,000
Percent of employed	9.9	1/ 8.7	1/ 9.4
Rank (50 States and D.C.)	7	9	9

NA Not available.

1/ The U.S. percentage was 6.0 for 1994 and 8.4 for 1996.

Source: Unpublished data from Current Population Survey microdata, supplied by the U.S. Bureau of Labor Statistics, and the Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office.

**Table 12.18-- WORKERS 16 YEARS AND OVER, BY PLACE OF RESIDENCE
AND PLACE OF WORK, FOR OAHU: 1990**

Place of work	Place of residence		
	Oahu	Honolulu CDP 1/	Remainder of Oahu 1/
Total	437,518	193,364	244,154
Oahu	432,293	191,982	240,311
Honolulu CDP 1/	277,583	171,387	106,196
Remainder of Oahu 1/	154,710	20,595	134,115
Remainder of State	1,610	550	1,060
Out of State	3,615	832	2,783

1/ Not corrected for erroneous omission of Aliamanu and Fort Shafter from Honolulu CDP in census tabulations. Honolulu CDP is coterminous with Honolulu District and Honolulu Census County Division.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Population and Housing Characteristics for Census Tracts and Block Numbering Areas, Honolulu, HI MSA*, 1990 CPH-3-174 (May 1993), table 17.

**Table 12.19-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES: 1986 TO 1996**

Year	Number of reporting units, December 1/	Average employment	Wages and salaries	
			Total (\$1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1986	24,510	446,756	8,072,318	18,069
1987	24,686	468,027	8,920,628	19,060
1988	24,787	484,483	9,909,719	20,454
1989	26,149	510,232	11,038,771	21,635
1990	27,277	534,432	12,350,266	23,109
1991	29,688	543,397	13,069,372	24,051
1992	30,496	547,883	13,988,506	25,532
1993	30,944	542,481	14,399,646	26,544
1994	31,031	539,559	14,426,932	26,718
1995	30,479	535,750	14,456,304	26,983
1996	31,254	533,310	14,591,094	27,359
EXCLUDING GOVERNMENT				
1991	29,682	439,337	10,183,763	23,180
1992	30,490	440,881	10,837,155	24,581
1993	30,938	434,931	11,013,510	25,322
1994	31,025	431,500	11,066,502	25,647
1995	30,473	428,058	11,099,619	25,930
1996	31,248	426,936	11,256,765	26,366
PRIVATE NON-AGRICULTURAL				
1991	29,031	427,001	9,933,990	23,265
1992	29,823	429,022	10,584,046	24,670
1993	30,254	423,006	10,741,597	25,393
1994	30,330	420,136	10,814,225	25,740
1995	29,774	417,728	10,865,476	26,011
1996	30,548	416,873	11,032,864	26,466

1/ Beginning in 1986, includes employers reporting 1 or more employees at any time during the year, even if they reported no employees for December. Beginning in 1991, data were collected at the establishment (rather than county) level.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual) and records.

**Table 12.20-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES, BY COUNTIES: 1996**

County	Number of employers, December	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	31,254	533,310	14,591,094	27,359
City and County of Honolulu	21,938	403,279	11,430,002	28,343
Hawaii County	3,795	49,896	1,183,789	23,725
Kauai County	1,757	24,274	585,998	24,141
Maui County	3,770	55,861	1,391,306	24,907
EXCLUDING GOVERNMENT				
State total	31,248	426,936	11,256,765	26,366
City and County of Honolulu	21,935	317,939	8,757,569	27,545
Hawaii County	3,792	40,120	876,686	21,852
Kauai County	1,754	20,350	462,879	22,746
Maui County	3,767	48,528	1,159,631	23,896

Source: Hawaii State Department of Labor and Industrial Relations, *1996 Employment and Payrolls in Hawaii* (October 1997).

**Table 12.21-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1996**

Industry	Number of reporting units, Dec.	Average employment	Total wages (\$1,000)	Average annual wage (dollars)
All industries	31,254	533,310	14,591,094	27,359
Government	6	106,374	3,334,329	31,345
Federal	1	31,319	1,072,896	34,257
State	1	58,430	1,682,436	28,794
County	4	16,624	578,996	34,829
Private	31,248	426,936	11,256,765	26,366
Agriculture, forestry, fisheries 1/	700	10,063	223,901	22,250
Mining	9	317	15,855	50,016
Construction	2,707	23,442	993,417	42,378
Manufacturing 1/	998	16,644	497,057	29,814
Food processing 1/	230	6,295	157,541	25,026
Other manufacturing	768	10,349	339,516	32,807
Transportation	1,366	30,870	932,477	30,207
Communications	167	6,351	273,595	43,079
Utilities	89	3,673	199,399	54,288
Wholesale trade	2,549	21,445	671,244	31,301
Retail trade	7,313	113,882	1,920,599	16,865
Eating and drinking places	2,579	47,049	608,337	12,930
Other retail trade	4,734	66,833	1,312,262	19,635
Finance, insurance, real estate	3,961	36,814	1,220,282	33,147
Services	11,165	163,077	4,299,878	26,367
Hotels, rooming houses, etc.	335	38,271	937,093	24,486
Health services	2,350	34,077	1,280,737	37,584
Other services	8,480	90,729	2,082,048	22,948
Nonclassifiable establishments	224	360	9,060	25,168

1/ Separate data for sugar and pineapple are no longer available.

Source: Hawaii State Department of Labor and Industrial Relations, *1996 Employment and Payrolls in Hawaii* (October 1997).

**Table 12.22-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED BY
THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT
COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND
CONSTANT DOLLARS: 1969 TO 1996**

[Including government]

Year	Current dollars	1982-1984 dollars 1/	Year	Current dollars	1982-1984 dollars 1/
1969	6,876	17,452	1983	16,115	16,229
1970	7,424	17,889	1984	16,714	16,149
1971	7,677	17,771	1985	17,335	16,231
1972	7,989	17,913	1986	18,069	16,516
1973	8,479	18,195	1987	19,060	16,588
1974	9,087	17,645	1988	20,454	16,807
1975	9,767	17,348	1989	21,635	16,810
1976	10,347	17,508	1990	23,109	16,734
1977	10,903	17,557	1991	24,051	16,251
1978	11,630	17,384	1992	25,532	16,462
1979	12,429	16,728	1993	26,544	16,580
1980	13,548	16,323	1994	26,718	16,242
1981	14,471	15,781	1995	26,983	16,052
1982	15,367	15,810	1996	27,359	16,028

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu.

Source: Computed by the Hawaii State Department of Business, Economic Development & Tourism, data from the Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual), and U.S. Bureau of Labor Statistics, semi-annual releases.

**Table 12.23-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED
BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT
COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND
CONSTANT DOLLARS, BY CLASS OF WORKER: 1986 AND 1996**

Class of worker	1986: current dollars	1996		Percent change, 1986-1996	
		Current dollars	1986 dollars 1/	Current dollars	1986 dollars 1/
All classes	18,069	27,359	17,538	51.4	-2.9
Federal	26,457	34,257	21,960	29.5	-17.0
State	20,032	28,794	18,458	43.7	-7.9
County	21,795	34,829	22,326	59.8	2.4
Private	16,886	26,366	16,901	56.1	0.1

1/ The all-items consumer price index (CPI-U) for Honolulu increased 56.0 percent from 1986 to 1996.

Source: Computed by the Hawaii State Department of Business, Economic Development & Tourism, from the Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual), and U.S. Bureau of Labor Statistics, semi-annual CPI reports.

**Table 12.24-- NONGOVERNMENTAL REPORTING UNITS AND
EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1996**

[Excluding government]

Subject	All units	Employment-size class					
		1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 or more
Reporting units	31,248	17,098	6,102	4,040	2,526	850	632
Employment	434,457	29,726	40,355	54,600	76,774	57,682	175,320

Source: Hawaii State Department of Labor and Industrial Relations, *1996 Employment and Payrolls in Hawaii* (October 1997), p. 27.

**Table 12.25-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE:
1986 TO 1996**

Year	Annual wages per employee (dollars)		Hawaii ratio as percent of U.S ratio		Rank 1/	
	Total	Private only	Total	Private only	Total	Private only
1986	18,101	16,907	90.7	85.6	31	38
1987	19,091	18,024	91.5	87.4	25	35
1988	20,444	19,437	93.5	89.8	22	27
1989	21,624	20,646	95.8	92.7	18	24
1990	23,167	22,244	98.2	95.6	13	18
1991	24,104	23,176	98.1	95.9	13	19
1992	25,613	24,585	98.9	96.2	13	19
1993	26,325	25,312	99.9	97.6	12	16
1994	26,746	25,647	99.3	96.8	13	17
1995	26,977	25,913	96.9	94.4	16	21
1996	27,352	26,371	94.4	92.3	22	23

1/ Among 50 States and D.C. Excluding D.C., Hawaii ranked 21st for all workers and 22nd for private workers in 1996.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages* (annual report).

**Table 12.26-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES:
ANNUAL AVERAGES, 1992 TO 1997**

Subject	1992	1993	1994	1995	1996	1997
Average weekly earnings (dollars)						
Construction and mining	792.06	864.88	898.18	922.27	1/ 936.21	956.93
Manufacturing	464.40	476.80	468.03	480.75	487.30	495.73
Food and kindred products	399.34	420.21	414.63	382.69	423.71	427.93
Communication and utilities	788.00	826.10	838.27	845.04	1/ 863.59	886.08
Trade 2/	262.84	275.40	284.45	288.76	1/ 293.78	303.09
Wholesale trade	437.31	441.60	461.23	469.94	1/ 445.94	467.50
Retail trade	229.86	245.10	252.54	257.50	1/ 267.33	273.83
Eating, drinking places	...	183.51	184.94	184.06	185.67	186.21
Banking & credit agencies	387.39	397.17	406.15	414.32	412.91	434.28
Hotels	351.42	367.73	386.46	406.90	411.40	422.73
Average weekly hours						
Construction and mining	36.4	37.9	37.3	36.7	1/ 36.4	35.8
Manufacturing	40.0	39.8	38.3	37.5	38.1	37.9
Food and kindred products	41.0	41.4	40.1	35.9	37.2	35.9
Communication and utilities	44.9	44.2	42.9	42.0	41.8	42.6
Trade 2/	29.8	30.0	30.1	30.3	30.1	30.4
Wholesale trade	38.7	38.3	38.5	38.3	37.1	37.4
Retail trade	28.1	28.5	28.6	28.9	28.9	29.1
Eating, drinking places	...	24.9	25.3	25.6	25.4	25.3
Banking & credit agencies	38.7	38.3	38.1	37.7	39.4	40.1
Hotels	33.5	33.4	33.9	34.6	34.0	33.9
Average hourly earnings (dollars)						
Construction and mining	21.76	22.82	24.08	25.13	25.72	26.73
Manufacturing	11.61	11.98	12.22	12.82	12.79	13.08
Food and kindred products	9.74	10.15	10.34	10.66	11.39	11.92
Communication and utilities	17.55	18.69	19.54	20.12	1/ 20.66	20.80
Trade 2/	8.82	9.18	9.45	9.53	1/ 9.76	9.97
Wholesale trade	11.30	11.53	11.98	12.27	1/ 12.02	12.50
Retail trade	8.18	8.60	8.83	8.91	9.24	9.41
Eating, drinking places	...	7.37	7.31	7.19	7.31	7.36
Banking & credit agencies	10.01	10.37	10.66	10.99	10.48	10.83
Hotels	10.49	11.01	11.40	11.76	12.10	12.47

1/ Revised.

2/ Excludes eating and drinking establishments before 1992.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book, May 1998*, pp. 12-15, and Internet site <http://www.hawaii.gov/workforce/ces.htm#h&e>.

Table 12.27-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1993 TO 1997

[In dollars]

Job classification 1/	1993	1994	1995	1996	1997
ANNUAL RATES					
Clerk, entry level	16,407	17,170	17,794	17,774	18,833
Cashier	22,010	21,616	23,420	23,307	25,503
Secretary	25,016	25,907	26,636	26,846	28,020
Switchboard operator	21,303	22,110	22,870	23,150	24,503
Bookkeeper, full-charge	27,552	28,710	29,827	30,431	32,137
Engineering drafting technician	30,768	32,654	32,193	35,960	35,298
Hospital attendant	20,280	21,350	21,949	22,401	(NA)
Staff nurse	47,196	48,995	50,827	52,560	(NA)
HOURLY RATES					
Housekeeper	9.394	9.85	10.10	10.45	11.07
Cook, general	9.977	11.90	12.94	12.50	13.24
Wait help	5.254	5.45	5.63	5.89	6.03
Laborer, light	8.732	8.96	9.01	9.12	9.38
Carpenter, maintenance	14.859	15.30	15.29	15.64	16.01
Electrician, maintenance	16.145	17.20	17.55	17.51	19.73
Automotive mechanic	14.688	15.22	15.27	15.97	16.04
Truck driver (trailer)	11.642	12.27	12.30	13.40	13.65

NA Not available.

1/ The 16 job titles listed in this table are meant to be only illustrative of the 77 reported in the full 1997 report; see the source for full 1997 information.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (annual).

**Table 12.28-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS
IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1997**

[In dollars]

Job classification 1/	State average	Kauai	Oahu	Maui County	Hawaii County
ANNUAL RATES					
Clerk, entry level	18,833	18,507	18,887	...	16,810
Cashier	25,503	...	26,536	23,854	19,051
Secretary	28,020	25,866	28,187	27,664	25,977
Switchboard operator	24,503	...	24,646	...	...
Bookkeeper, full-charge	32,137	...	32,208	...	32,745
Engineering drafting technician	35,298	...	...	...	...
Hospital attendant	(NA)	(NA)	(NA)	(NA)	(NA)
Staff nurse	(NA)	(NA)	(NA)	(NA)	(NA)
HOURLY RATES					
Housekeeper	11.07	...	11.13	10.91	...
Cook, general	13.24	...	13.50	...	...
Wait help	6.03	...	5.97	...	...
Laborer, light	8.94	...	8.87	...	...
Carpenter, maintenance	16.01	...	16.25	...	...
Electrician, maintenance	19.73	...	20.75	...	...
Automotive mechanic	16.04	14.19	16.79	...	14.83
Truck driver (trailer)	13.65	...	14.15	...	...

... Base too small for reliable computation.

NA Not available.

1/ See preceding table, footnote 1.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (Special Publication No. 252, September 1997).

Table 12.29-- WAGE RATES FOR SPECIFIED JOB TITLES: 1996

[In dollars. Data are shown for only a few of the more than 1,000 job titles listed in the source, primarily to suggest the type of information and occupational detail available there]

Job title	Hourly wage range	
	Minimum	Maximum
Accountant	10.82	20.88
Cannery warehouse worker	6.35	7.35
Clerk, data entry	9.34	10.99
Engineer, civil	13.00	17.90
Host/hostess	8.59	11.90
Laborer, general	8.84	10.04
Nurse, licensed practical	12.16	17.75
Programmer, junior	16.58	20.32
Receptionist	11.02	15.12
Secretary	10.34	18.60

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, *Selected Wage Information for Hawaii* (December 1996).

Table 12.30-- TOTAL COMPENSATION PAID TO EXECUTIVES OF MAJOR CORPORATIONS AND LABOR UNION LEADERS: 1995

Category	Total	Less than \$100,000	\$100,000 to \$249,999	\$250,000 to \$499,999	\$500,000 to \$999,999	\$1,000,000 or more	Highest (\$1,000)
Corporate executives 1/	30	-	-	19	8	3	1,487.5
Union leaders 2/	29	20	8	1	-	-	294.5

1/ Total compensation includes awards of stock and cash paid under long-term incentive plans.

2/ Gross salaries, excluding allowances and expense reimbursements.

Source: *The Honolulu Advertiser*, June 9, 1996, pp. G1 and G2, and June 23, 1996, pp. F1 and F3.

Table 12.31-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1997

[Dollars per hour. As of July 1, unless otherwise specified]

Effective date	Oahu	Other islands	Effective date	State	Effective date	State
1942 1/	0.25	0.20	1962	1.15	1979	2.90
1943	0.30	0.25	1964 2/	1.25	1980	3.10
1945	0.40	0.40	1969	1.40	1981	3.35
1953	0.65	0.55	1970	1.60	1988 2/	3.85
1955	0.75	0.65	1974	2.00	1992 3/	4.75
1957	0.90	0.85	1975	2.40	1993 2/	5.25
1958	1.00	1.00	1978	2.65	1997 4/	5.25

1/ At inception of minimum wage law, April 1, 1942.

2/ January 1.

3/ April 1.

4/ Current minimum as of December 31, 1997.

Source: Hawaii State Department of Labor and Industrial Relations, records.

**Table 12.32-- NUMBER OF PERSONS AT WORK BY WEEKLY HOURS
OF WORK: ANNUAL AVERAGES, 1990 TO 1995**

[In thousands]

Weekly hours at work	1990	1991	1992	1993	1994	1995
Total	496	514	513	526	519	518
1 to 14 hours	19	21	20	18	29	29
15 to 29 hours	51	55	68	59	67	67
30 to 34 hours	42	46	57	47	41	50
35 to 39 hours	23	21	25	23	28	26
40 hours	246	247	223	254	221	218
41 to 48 hours	33	34	38	36	46	41
49 hours and over	82	90	81	90	87	88

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1995*, Bulletin 2486, February 1997, table 18, and earlier reports.

Table 12.33-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1949 TO 1997

Year	Island workers on Mainland 1/	Mainland workers in Hawaii 2/	Ratio 3/	Year	Island workers on Mainland 1/	Mainland workers in Hawaii 2/	Ratio 3/
1949	1,030	711	69	1974	5,924	6,988	118
1950	966	1,105	114	1975	7,607	8,785	115
1951	377	1,139	302	1976	7,458	8,334	112
1952	455	1,667	366	1977	5,846	8,154	139
1953	576	1,775	308	1978	4,313	6,261	145
1954	907	1,698	187				
1955	665	1,812	272	1979	4,272	5,250	123
1956	686	1,617	236	1980	5,211	4,956	95
1957	1,100	1,813	165	1981	5,485	4,396	80
1958	1,547	2,219	143	1982	5,372	4,848	90
				1983	4,414	4,659	106
1959	1,280	2,126	166	1984	4,123	4,220	102
1960	1,716	2,595	151	1985	4,039	3,993	99
1961	2,863	3,235	113	1986	3,664	3,932	107
1962	2,966	3,594	121	1987	3,805	3,161	83
1963	2,683	3,787	141	1988	3,942	2,974	75
1964	2,572	3,705	144				
1965	2,257	3,411	151	1989	3,961	2,679	68
1966	1,859	2,655	143	1990	5,275	2,910	55
1967	2,196	3,102	141	1991	7,197	3,453	48
1968	2,014	2,896	144	1992	9,554	4,432	46
				1993	9,543	4,356	46
1969	2,652	3,600	136	1994	10,121	4,229	42
1970	5,078	6,062	119	1995	10,115	4,000	40
1971	6,215	6,908	111	1996	8,633	3,338	39
1972	6,124	5,994	98	1997	7,051	2,044	29
1973	5,255	6,116	116				

1/ Interstate liable initial claims, State Unemployment Insurance Program (UI), excluding Federal Unemployment Compensation for Federal Employees program (UCFE) and Federal Unemployment Compensation for Ex-Service members program (UCX). Covers Hawaii workers seeking work and filing for benefits on the Mainland.

2/ Interstate agent initial claims (UI), excluding UCFE and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims as a percent of interstate liable initial claims. Ratios under 100 suggest a net out-migration of workers.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book, 1998*, p. 15, and records.

**Table 12.34-- NONFATAL OCCUPATIONAL INJURIES AND ILLNESSES,
PRIVATE SECTOR: 1994 AND 1995**

[Data include the following private industries: agriculture, forestry and fishing with more than 10 employees; oil and gas extraction; construction; manufacturing; transportation and public utilities; wholesale and retail trades; finance, insurance and real estate]

Subject	Injuries and illnesses		Injuries	
	1994	1995	1994	1995
Recordable cases	30,200	27,100	29,300	26,200
Per 100 full-time workers	8.7	8.0	8.5	7.7
Lost workday cases	17,000	13,900	16,500	13,400
Per 100 full-time workers	4.9	4.1	4.8	4.0
Nonfatal cases without lost workdays	13,200	13,100	12,800	12,800

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, *1995 Occupational Injuries and Illnesses Survey*, p. 4.

**Table 12.35-- WORK INJURIES, DEATHS, TIME LOST AND
COMPENSATION COSTS: 1990 TO 1996**

Year	Reported cases	Reported deaths	Time lost (compensated days)	Compensation costs (\$1,000)
1990	53,050	59	1,434,262	218,837
1991	56,738	51	1,636,375	234,971
1992	49,204	42	1,832,901	288,003
1993	46,762	33	1,957,217	323,763
1994	42,658	41	1,821,164	343,080
1995	37,476	26	1,571,539	326,123
1996	33,628	29	1,371,739	288,495

Source: Hawaii State Department of Labor and Industrial Relations, *Workers' Compensation Data Book* (annual).

Table 12.36-- UNION MEMBERSHIP AND EARNINGS, 1986, 1991, AND 1996, AND BY SECTOR, 1996

Subject	1986	1991	1996		
			Total	Private sector workers	Public sector workers
Sample size	1,751	1,873	1,597	1,266	331
Employment (1,000)	406.2	480.2	482.9	384.0	98.8
Percent union members	29.2	29.0	1/ 23.2	16.0	51.1
Percent covered by collective bargaining agreement	31.9	31.1	2/ 24.5	16.8	54.3
Mean earnings (1996 dollars):					
Weekly	542	576	3/ 513	495	580
Hourly	14.11	14.45	13.28	12.86	14.91
Union workers:					
Employment (1,000)	118.5	139.1	111.9	61.4	50.5
Mean earnings (1996 dollars):					
Weekly	627	657	650	641	661
Hourly	15.74	16.56	16.23	16.40	16.03
Nonunion workers:					
Employment (1,000)	287.7	307.1	371.0	322.6	48.3
Mean earnings (1996 dollars):					
Weekly	507	543	471	467	496
Hourly	13.44	13.59	12.39	12.18	13.73

1/ The U.S. percentage was 14.5. Hawaii ranked 3rd among the 50 states.

2/ The U.S. percentage was 16.2. Hawaii ranked 4th among the 50 states.

3/ The U.S. mean was \$529. Hawaii ranked 19th among the 50 states.

Source: Barry T. Hirsch and David A. Macpherson, *Union Membership and Earnings Data Book: Compilations from the Current Population Survey (1997 Edition)*, The Bureau of National Affairs, Inc., 1997, tables 5a, 5b, and 5c.

Table 12.37-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1997

Subject	Total	AFL-CIO affiliated	Independent
Unions and associations	110	98	12
Membership 1/	170,399	148,837	2/ 21,562

1/ Data exclude 5 unions and associations (one of which was the United Public Workers) not reporting membership. The largest memberships were those reported by the Hawaii Government Employees Association (39,200), Longshoremen's and Warehousemen's Union (25,000), and Teamsters, Chauffeurs, Warehousemen and Helpers of America (16,000).

2/ Two labor unions submitted membership figures which were estimates.

Source: Hawaii State AFL-CIO, *Directory of Labor Organizations & Affiliates, 1997*.

**Table 12.38-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE
BARGAINING UNITS, BY EMPLOYING JURISDICTION: 1994 TO 1997**

[As of December 31]

Employing jurisdiction	1994	1995	1996	1997
Total	56,660	53,431	53,825	53,773
State of Hawaii	26,225	22,810	22,781	22,869
City and County of Honolulu	8,127	8,127	8,165	8,155
County of Hawaii	1,704	1,716	1,763	1,776
County of Maui	1,560	1,519	1,613	1,629
County of Kauai	879	881	859	869
Dept. of Education	11,976	12,455	12,819	12,651
Judiciary	1,504	1,440	1,428	1,421
University of Hawaii	4,685	4,483	4,397	4,403

Source: Hawaii Labor Relations Board, *HLRB Informational Bulletin*, No. 35, May 21, 1998, and earlier issues.

Table 12.39-- COLLECTIVE BARGAINING AGREEMENTS: 1987 TO 1998

Year	Number of agreements	Workers covered		Year	Number of agreements	Workers covered	
		Total	Per agreement			Total	Per agreement
1987 1/	1,375	80,400	58	1993	369	65,900	179
1988	433	16,290	38	1994	84	8,000	95
1989	104	50,950	490	1995	270	57,300	212
1990	194	24,300	125	1996	136	49,250	362
1991	107	23,700	221	1997	1,334	62,800	47
1992	1,413	21,400	15	1998	786	18,900	24

1/ For earlier years, 1964-1986, see source.

Source: Industrial Relations Center, University of Hawaii at Manoa, *Duration of Collective Bargaining Agreements in Hawaii, 1998* (December 1997), p. 1.

Table 12.40-- WORK STOPPAGES: 1989 TO 1997

[Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. Data are limited to stoppages begun or in progress during the week containing the 12th of each month]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1989	2	48	3,046
1990	13	7,415	119,509
1991	-	-	-
1992	-	-	-
1993	2	160	6,018
1994 3/	3	12,202	109,529
1995	-	-	-
1996	1	13	715
1997	-	-	-

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

3/ Data exclude HGEA strikers in Hawaii County.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, unpublished estimates.

**Table 12.41-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS:
1984 TO 1997**

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1984	1	1,000	70,000	0.01
1985	1	1,000	11,000	0.01
1986-1993	-	-	-	0
1994	1	15,800	136,500	(NA)
1995-1997	-	-	-	-

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records.

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the Gross State Product accounts and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state product by industry; personal, family and household income; poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 9, 12, and 22; on industrial payrolls, in Sections 12, 15, and 20 through 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 10 and 11; on taxable income, in Section 9.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service; and Hawaii Agricultural Statistics Service, Hawaii State Department of Business, Economic Development & Tourism, and Hawaii Visitors & Convention Bureau. Sections 6 and 7 of *Historical Statistics of Hawaii* present data for earlier years. Comparable data for the country as a whole are given in the *Statistical Abstract of the United States: 1997*, Section 14.

**Table 13.01-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1974 TO 1997**

[In millions of dollars]

Year	Value of production		Defense expenditures	Visitor expenditures 2/
	Raw sugar and molasses 1/	Fresh and processed pineapple		
1974	676.6	127.1	1,311.8	1,225
1975	366.1	136.7	1,442.1	1,360
1976	257.0	144.5	1,499.2	1,640
1977	226.8	161.6	1,576.1	1,845
1978	285.2	162.8	1,644.5	2,146
1979	345.7	206.4	1,707.7	2,537
1980	594.1	226.5	1,865.4	2,875
1981	327.9	217.6	2,041.2	3,200
1982	351.5	206.0	2,385.3	3,700
1983	410.2	219.0	2,566.5	3,974
1984	393.0	249.6	2,653.0	4,582
1985	340.8	222.5	3,054.9	5,244
1986	361.9	238.4	3,031.4	6,104
1987	335.9	251.4	3,023.6	6,868
1988	324.0	247.0	3,145.6	8,528
1989	322.0	241.9	3,269.3	9,282
1990	328.9	215.9	3,335.8	9,739
1991	270.7	224.6	3,649.9	10,634
1992	237.6	197.7	3,833.9	9,559
1993	251.9	140.6	3,722.4	8,678
1994	247.9	134.1	3/ 3,797.2	10,603
1995	200.2	135.0	3/ 3,744.2	3/ 11,444
1996	168.8	147.0	4,029.1	3/ 10,685
1997	(NA)	(NA)	4,215.3	3/ 10,770

NA not available.

1/ Excludes government sugar support payments.

2/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews. Estimates for 1984 and earlier years also exclude additional business expenditures by MCI (meetings, conventions, and incentive) visitors.

3/ Revised estimate.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual), records, and for 1996 <http://www.nass.usda.gov/hi/stats/t_of_c.html>; Hawaii State Department of Business, Economic Development & Tourism, *Hawaii Gross State Product Accounts: 1958-88* (June 1988) and records; and Hawaii Visitors & Convention Bureau, *Annual Research Report* (various) and records.

**Table 13.02-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE
PRODUCT: 1958 TO 1997**

Year	Gross state product		Per capita gross state product 1/	
	Millions of current dollars	Millions of 1987 dollars	Current dollars	1987 dollars
1958	1,415.0	4,962.0	2,337	8,196
1959	1,572.5	5,535.7	2,525	8,890
1960	1,805.1	6,271.5	2,814	9,776
1961	1,886.5	6,273.8	2,864	9,524
1962	1,965.8	6,538.0	2,876	9,565
1963	2,101.8	6,699.4	3,081	9,820
1964	2,301.3	7,370.2	3,288	10,530
1965	2,530.4	8,023.6	3,595	11,400
1966	2,771.4	8,464.8	3,902	11,917
1967	2,990.0	8,758.6	4,138	12,123
1968	3,344.5	9,479.3	4,553	12,906
1969	3,952.3	10,642.2	5,268	14,186
1970	4,414.0	11,142.9	5,721	14,441
1971	4,773.8	11,718.8	5,955	14,619
1972	5,305.4	12,505.1	6,405	15,097
1973	6,009.3	13,124.0	7,056	15,411
1974	6,901.7	13,083.5	7,951	15,073
1975	7,411.3	13,857.9	8,363	15,637
1976	7,933.4	14,036.9	8,774	15,524
1977	8,597.4	14,463.4	9,362	15,750
1978	9,627.6	14,917.1	10,334	16,012
1979	10,906.4	15,501.7	11,441	16,261
1980	12,225.7	16,360.1	12,623	16,892
1981	13,078.3	16,756.9	13,370	17,130
1982	13,691.0	16,360.7	13,777	16,463
1983	14,811.8	16,981.1	14,626	16,768
1984	15,826.5	17,491.6	15,397	17,016
1985	17,139.7	18,336.5	16,485	17,636
1986	18,483.0	19,323.9	17,573	18,373
1987	20,027.3	20,027.3	18,754	18,754
1988	22,324.0	21,206.1	20,674	19,638
1989	24,574.7	22,213.9	22,451	20,294
1990	27,033.6	22,976.7	24,299	20,652
1991	28,614.4	22,887.7	25,290	20,228
1992	30,259.6	23,095.1	26,324	20,091
1993	31,171.9	23,180.1	26,863	19,976
1994	31,965.3	23,190.3	27,260	19,777
1995	32,723.7	23,297.8	27,760	19,764
1996	33,509.1	23,504.4	28,327	19,869
1997	34,238.6	23,859.7	28,854	20,108

Data for 1958-96 have been revised and the constant dollar base year has been shifted from 1982 to 1987.

1/ Based on Hawaii resident population. See Table 1.06.

Source: Hawaii State Department of Business, Economic Development & Tourism.

**Table 13.03-- GROSS STATE (DOMESTIC) PRODUCT, 1977 TO 1996,
AND BY INDUSTRY, 1986 TO 1996**

[Data for 1977-94 are revised]

Year	Millions of current dollars	Millions of chained (1992) dollars	Year	Millions of current dollars	Millions of chained (1992) dollars
1977	9,401	22,043	1987	23,281	28,068
1978	10,538	22,954	1988	25,760	30,060
1979	11,946	24,156	1989	28,756	32,333
1980	13,410	24,798	1990	32,436	34,868
1981	14,537	24,147	1991	33,860	34,910
1982	15,523	24,026	1992	35,193	35,193
1983	17,006	25,018	1993	35,160	36,307
1984	18,532	25,675	1994	35,249	35,621
1985	20,025	26,236	1995	36,034	34,914
1986	21,995	27,340	1996	36,317	34,886
			Millions of current dollars		
Industry	1986	1994	1995	1996	
Total, all industries	21,995	35,249	36,034	36,317	
Farms	350	285	256	254	
Agric. services, forestry, fisheries	79	192	192	192	
Mining	13	27	26	28	
Construction	1,030	2,043	1,908	1,753	
Manufacturing	920	1,134	1,115	1,123	
Transportation, communication, utilities	2,093	3,455	3,625	3,732	
Wholesale trade	845	1,429	1,416	1,446	
Retail trade	2,253	4,096	4,131	4,192	
Finance, insurance, real estate	5,302	7,118	7,863	7,768	
Services	3,896	7,789	7,877	8,077	
Hotels	1,003	1,866	1,901	1,983	
Health services	829	1,913	1,949	1,975	
Other services	2,064	4,010	4,027	4,119	
Federal government	3,510	4,366	4,284	4,453	
Civilian	1,329	1,732	1,670	1,717	
Military	2,181	2,634	2,614	2,736	
State and local government	1,703	3,315	3,340	3,299	

NA Not available.

Source: U.S. Bureau of Economic Analysis, <<http://www.bea.doc.gov/dr1.htm>>, June 2, 1998.

**Table 13.04-- TOTAL AND PER CAPITA PERSONAL INCOME AND
DISPOSABLE PERSONAL INCOME: 1969 TO 1996**

[Data for 1969-96 have been revised. Data in table 13.04 are annual data released in September while data in table 13.08 are annual averages of four quarters and released in April. Data are subject to subsequent revision]

Year	Personal income (thousands of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S average	
	Total	Disposable	Total	Disposable	Total	Disposable
1969	3,331,816	2,825,829	4,484	3,803	116.8	115.3
1970	3,811,203	3,254,731	4,996	4,266	122.5	120.3
1971	4,111,819	3,568,375	5,194	4,508	120.0	118.5
1972	4,523,867	3,871,369	5,530	4,732	117.7	116.2
1973	5,027,995	4,316,837	5,973	5,128	114.6	112.8
1974	5,761,541	4,973,687	6,714	5,796	118.3	117.5
1975	6,194,830	5,471,183	7,079	6,252	116.0	116.3
1976	6,725,874	5,891,520	7,537	6,602	112.7	112.8
1977	7,287,481	6,340,742	7,958	6,924	108.5	108.5
1978	8,090,722	6,996,006	8,711	7,532	106.3	105.8
1979	9,195,439	7,929,719	9,679	8,347	106.2	106.0
1980	10,563,256	9,122,760	10,916	9,427	108.5	108.5
1981	11,376,347	9,812,862	11,630	10,032	104.4	104.7
1982	12,057,114	10,614,591	12,133	10,681	103.4	105.4
1983	13,217,985	11,602,715	13,052	11,457	105.4	106.0
1984	14,138,549	12,520,537	13,754	12,180	101.2	102.2
1985	15,103,404	13,240,749	14,527	12,735	100.5	101.0
1986	16,190,346	14,193,815	15,394	13,495	101.4	101.7
1987	17,409,643	15,036,992	16,302	14,081	102.0	101.5
1988	19,259,989	16,581,855	17,836	15,356	104.5	103.1
1989	21,249,271	18,012,978	19,413	16,456	106.8	104.4
1990	23,991,435	20,442,943	21,563	18,373	112.4	110.1
1991	25,167,741	21,563,705	22,279	19,089	113.2	110.9
1992	26,463,456	22,814,551	23,056	19,877	111.8	109.9
1993	27,666,224	23,882,971	23,851	20,589	111.6	110.1
1994	28,469,184	24,639,800	24,278	21,012	109.5	108.6
1995	29,592,515	25,916,128	25,095	21,978	107.5	108.1
1996	30,071,707	26,118,759	25,404	22,065	104.0	104.6

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Commerce News BEA 97-29 <<http://www.stat-usa.gov/BEN/bea/regional>> dated September 19, 1997; and State Personal Income 1958-96 (CD-ROM RCN-0128, September, 1997); *Survey of Current Business*, October 1997, and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 13.05-- ECONOMIC ESTIMATES AND PROJECTIONS: 1995 TO 2020

Year	Gross state product (millions of 1987 dollars)	Personal income		Total labor income 1/ (millions of 1987 dollars)	Total civilian employment (number of jobs)
		Total (millions of 1987 dollars)	Per capita (1987 dollars)		
1995	23,297.8	21,255.6	18,025.0	15,388.3	579,800
2000	25,994.7	23,671.7	19,113.0	17,115.6	613,200
2005	28,548.0	25,902.1	19,862.0	18,700.6	650,800
2010	31,052.3	28,305.7	20,709.0	20,317.0	687,300
2015	33,588.9	31,051.8	21,705.0	22,069.4	721,900
2020	36,388.5	34,105.1	22,825.0	23,978.2	757,400

1/ Labor income is the sum of wage and salary disbursements, other labor income, and proprietors' income.

Source: Hawaii Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2020, DBEDT 2020 Series*, May 1997.

Table 13.06-- PERSONAL INCOME BY MAJOR SOURCES: 1992 TO 1997

[In millions of dollars. Data for 1992-96 have been revised. Data for 1997 are preliminary.
Data are annual averages of quarterly data released in April. Data are subject to revision]

Item	1992	1993	1994	1995	1996	1997
LABOR AND PROPRIETORS' INCOME (EARNINGS)						
By type	20,328	20,844	21,072	21,144	21,243	21,662
Wage and salary disbursements	16,410	16,647	16,760	16,818	16,974	17,398
Other labor income	1,767	1,885	1,949	1,873	1,803	1,774
Proprietors' income	2,151	2,312	2,363	2,453	2,466	2,490
Farm	13	10	2	6	2	11
Nonfarm	2,137	2,302	2,361	2,447	2,464	2,478
By industry	20,328	20,844	21,072	21,144	21,243	21,662
Farm	200	186	180	187	184	200
Nonfarm	20,128	20,658	20,892	20,956	21,059	21,462
Private	14,962	15,380	15,541	15,625	15,742	16,021
Government and government enterprises	5,166	5,278	5,351	5,331	5,317	5,441
Federal, civilian	1,186	1,205	1,241	1,196	1,221	1,257
Federal, military	1,619	1,586	1,537	1,567	1,584	1,630
State and local	2,362	2,488	2,573	2,570	2,513	2,554
DERIVATION OF PERSONAL INCOME						
Labor and proprietors' income	20,328	20,844	21,072	21,144	21,243	21,662
Less: Personal contributions for social insurance	1,297	1,320	1,354	1,364	1,366	1,388
Net labor and proprietors' income 1/	19,031	19,524	19,718	19,780	19,877	20,273
Plus: Dividends, interest, and rent	3,791	4,183	4,501	5,107	5,321	5,544
Plus: Transfer payments	3,642	3,959	4,251	4,706	4,874	5,075
Total personal income	26,463	27,666	28,469	29,592	30,072	30,892

1/ There is no residence adjustment for Hawaii.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, <http://www/bea.doc.gov/bea/sq.exe> dated April 27, 1998 and *Survey of Current Business*, May 1998; and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 13.07-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTY:
1982 TO 1996**

[Data for 1982-95 have been revised]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
TOTAL (THOUS. DOL.)						
1982	12,057,114	9,844,191	2,212,923	964,313	423,072	825,538
1983	13,217,985	10,702,465	2,515,520	1,079,310	473,330	962,880
1984	14,138,549	11,514,431	2,624,118	1,118,873	487,212	1,018,033
1985	15,103,404	12,282,079	2,821,325	1,181,768	525,973	1,113,584
1986	16,190,346	13,076,407	3,113,939	1,298,903	575,107	1,239,929
1987	17,409,643	14,068,466	3,341,177	1,384,572	612,865	1,343,740
1988	19,259,989	15,469,494	3,790,495	1,527,478	737,054	1,525,963
1989	21,249,271	16,940,601	4,308,670	1,731,074	843,936	1,733,660
1990	23,991,435	19,053,606	4,937,829	1,994,376	951,264	1,992,189
1991	25,167,741	19,937,709	5,230,032	2,125,966	1,020,981	2,083,085
1992	26,463,456	21,261,592	5,201,864	2,233,643	685,930	2,282,291
1993	27,666,264	21,838,982	5,827,282	2,333,581	1,092,014	2,401,687
1994	28,469,048	22,372,398	6,096,650	2,426,660	1,156,951	2,513,039
1995	29,592,153	23,200,100	6,392,053	2,580,144	1,212,785	2,599,124
1996	30,071,834	23,506,902	6,564,932	2,661,580	1,226,896	2,676,456
PER CAPITA (DOLLARS)						
1982	12,133	12,685	10,165	9,760	10,120	10,707
1983	13,052	13,563	11,249	10,711	11,060	12,027
1984	13,754	14,433	11,403	10,807	11,166	12,270
1985	14,527	15,271	11,985	11,159	11,858	13,078
1986	15,394	16,135	12,904	11,987	12,621	14,189
1987	16,302	17,189	13,393	12,392	12,984	14,843
1988	17,836	18,772	14,821	13,465	15,182	16,274
1989	19,413	20,378	16,367	14,848	16,931	17,906
1990	21,564	22,739	17,980	16,421	18,430	19,616
1991	22,244	23,564	18,327	16,695	19,233	19,849
1992	23,021	24,811	17,779	17,021	12,720	21,245
1993	23,842	25,358	19,478	17,398	19,966	21,766
1994	24,279	25,768	20,031	17,812	20,834	22,321
1995	25,103	26,693	20,641	18,628	21,683	22,555
1996	25,421	27,040	20,934	19,056	21,680	22,809

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Metropolitan Area Personal Income, May 4, 1998 <<http://www.bea.doc.gov/bea/dr1.html>>.

**Table 13.08-- PER CAPITA PERSONAL INCOME FOR THE
UNITED STATES AND HAWAII: 1969 TO 1997**

[Data in Table 13.08 are annual averages of four quarters and released in April while data in Table 13.04 are annual data released in September. Data are subject to subsequent revision]

Year	United States		Hawaii			
	In dollars	Percent change	In dollars	Percent change	Per capita rank 3/	Percent of the U.S. average
1969	3,813	...	4,482	...	6	118
1970	4,047	6.1	4,995	11.4	3	123
1971	4,294	6.1	5,188	3.9	3	121
1972	4,659	8.5	5,516	6.3	5	118
1973	5,168	10.9	5,947	7.8	7	115
1974	5,628	8.9	6,674	12.2	3	119
1975	6,045	7.4	7,034	5.4	3	116
1976	6,629	9.7	7,500	6.6	7	113
1977	7,267	9.6	7,917	5.6	8	109
1978	8,117	11.7	8,660	9.4	12	107
1979	9,017	11.1	9,613	11.0	12	107
1980	9,940	10.2	10,860	13.0	10	109
1981	11,009	10.8	11,556	6.4	14	105
1982	11,583	5.2	12,072	4.5	14	104
1983	12,223	5.5	13,040	8.0	12	107
1984	13,332	9.1	13,683	4.9	16	103
1985	14,155	6.2	14,461	5.7	16	102
1986	14,906	5.3	15,312	5.9	17	103
1987	15,638	4.9	16,231	6.0	15	104
1988	16,610	6.2	17,773	9.5	13	107
1989	17,690	6.5	19,229	8.2	11	109
1990	19,142	8.2	21,333	10.9	7	111
1991	19,638	2.6	22,128	3.7	7	113
1992 1/	20,631	5.1	23,021	4.0	7	111
1993 1/	21,368	3.6	23,842	3.6	7	112
1994 1/	22,186	3.8	24,279	1.8	8	109
1995 1/	23,359	5.3	25,103	3.4	9	107
1996 1/	24,436	4.6	25,421	1.3	12	104
1997 2/	25,598	4.8	26,034	2.4	16	102

1/ Data for 1992-96 have been revised.

2/ Data for 1997 are preliminary.

3/ Among the 50 States; District of Columbia is excluded from this ranking.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Accounts Data: April 28, 1997 (for 1969-91) and April 27, 1998 (for 1992-97, <<http://www.bea.doc.gov/bea/sq.exe>> and <<http://www.bea.doc.gov/bea/dr/spitbl-d.htm>>) and tabulations by the Hawaii State Department of Business, Economic Development & Tourism.

Table 13.09-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1949 TO 1989

[In dollars. Based on censuses made in April of following year]

Year	Households	Families	Unrelated individuals with income 1/	Persons with income 1/	
				Male	Female
1949	(NA)	3,568	1,583	2,340	1,247
1959	(NA)	6,366	1,998	3,753	1,796
1969	10,675	11,664	2,981	6,528	3,222
1979	20,473	22,750	7,097	11,505	6,581
1989	38,829	43,176	(NA)	21,095	12,976

NA Not available.

1/ 14 years old and over through 1969, and 15 years old and over thereafter.

Source: U.S. Bureau of the Census, *Census of Population: 1960*, PC(1)-13C (1962), tables 66 and 67 (for 1949 data); *1970 Census of Population*, PC(1)-C13 (December 1971), table 47 (for 1959 data); *1980 Census of Population*, PC80-1-C-13 (June 1983), table 61 (for 1969 and 1979 data); *1990 Census of Population and Housing*, 1990 CP-2-13 (September 1993), table 28 (for 1989 data).

**Table 13.10-- MEDIAN INCOME OF HOUSEHOLDS IN CONSTANT
DOLLARS: 1993 to 1995 and 1994 to 1996**

[Three-year moving average]

	1993-1995		1994-1996	
	United States	Hawaii	United States	Hawaii
Median income (constant dollars)	(NA)	43,766	34,911	43,541
Base year = 100	1995	1995	1996	1996
Standard error	(NA)	1,367	127	1,337
Rank (50 states and D.C.)	(NA)	2	(NA)	3

NA Not available.

Source: U.S. Bureau of the Census, *Current Population Reports, Series P60, Money Income in the United States*; <<http://www.CENSUS.GOV/hhes/income/histinc/h08.prn>>, and Hawaii State Department of Business, Economic Development & Tourism calculations.

Table 13.11-- MEDIAN INCOME OF FOUR-PERSON FAMILIES IN THE UNITED STATES AND HAWAII: 1974 TO 1996

[In dollars, numbers, and percent. Based on small samples and subject to considerable sampling variation. From surveys made in March or April of following year]

Calendar year 1/	Fiscal year 2/	United States	Hawaii	Hawaii rank 3/	Hawaii as % of US
1974	1977	14,747	17,069	2	115.7
1975	1978	15,848	18,825	2	118.8
1976	1979	17,315	20,113	2	116.2
1977	1980	18,723	21,718	2	116.0
1978	1981	20,428	22,475	3	110.0
1979	1982	22,395	24,582	7	109.8
1980	1983	24,332	27,514	4	113.1
1981	1984	26,274	29,295	6	111.5
1982	1985	27,619	30,019	9	108.7
1983	1986	29,184	31,614	10	108.3
1984	1987	31,097	33,445	11	107.6
1985	1988	32,777	34,636	10	105.7
1986	1989	34,716	36,618	11	105.5
1987	1990	36,812	40,878	6	111.0
1988	1991	39,051	42,353	8	108.5
1989	1992	40,763	44,988	8	110.4
1990	1993	41,451	50,234	6	121.2
1991	1994	43,056	49,367	4	114.7
1992	1995	44,615	50,821	4	113.9
1993	1996	45,161	54,856	4	121.5
1994	1997	47,012	56,992	5	121.2
1995	1998	49,687	54,759	6	110.2
1996	1999	51,518	57,909	6	112.4

The methodology used to compute 4-person family median income by state utilizes the most recent data available from the March Current Population Survey (CPS) and the decennial census of population conducted by the Bureau of the Census, as well as per capita personal income estimates produced by the Bureau of Economic Analysis. The Bureau of the Census recommends using three-year moving averages for Hawaii. See Table 13.10.

1/ The term "calendar year" refers to the year the money income was received by the Current Population Survey respondents.

2/ The term "fiscal year" refers to the time period used for eligibility for the Department of Health and Human Services's Low Income Home Energy Assistance Program (LIHEAP). Estimates are as published in the *Federal Register*.

3/ Rank computed among the 50 states and the District of Columbia.

Source: U.S. Bureau of the Census, Median Income for 4-Person Families, By State, 1974-96 (FY 77-99) <<http://www.census.gov/hhes/income/4person.html>>.

**Table 13.12- MEDIAN MONEY INCOME OF HOUSEHOLDS,
FOR THE UNITED STATES AND HAWAII, IN CURRENT
AND CONSTANT DOLLARS: 1984 TO 1996**

Year	Median income in current dollars			
	United States	Hawaii	Hawaii as percent of US	Rank
1984	22,415	28,877	128.8	4
1985	23,618	28,961	122.6	5
1986	24,897	29,003	116.5	9
1987	25,986	35,022	134.8	1
1988	27,225	33,024	121.3	7
1989	28,906	35,035	121.2	7
1990	29,943	38,921	130.0	3
1991	30,126	37,246	123.6	4
1992	30,636	42,113	137.5	1
1993	31,241	42,662	136.6	2
1994	32,264	42,255	131.0	3
1995	34,076	42,851	125.8	3
1996	35,492	41,772	117.7	5

Year	Median income in constant 1996 dollars 1/			
	United States	Hawaii	Hawaii as percent of US	Rank
1984	33,849	43,607	128.8	4
1985	34,439	42,230	122.6	5
1986	35,642	41,520	116.5	9
1987	35,891	48,371	134.8	1
1988	36,108	43,799	121.3	7
1989	36,575	44,331	121.2	7
1990	35,945	46,723	130.0	3
1991	34,705	42,907	123.6	4
1992	34,261	47,096	137.5	1
1993	33,922	46,323	136.6	2
1994	34,158	44,736	131.0	3
1995	35,082	44,116	125.8	3
1996	35,492	41,772	117.7	5

1/ Median income in 1996 CPI-U-X1 adjusted dollars.

Source: U.S. Bureau of the Census, March Current Population Survey, Table H-8.

Median Money Income of Households, by State: 1984 to 1996,

<<http://www.census.gov/hhes/income/histinc/h08.html>>.

**Table 13.13-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, AND
NONFAMILY HOUSEHOLDS, AND PERCENT OF FAMILIES AND
PERSONS BELOW POVERTY LEVEL, FOR COUNTIES AND
SELECTED URBAN PLACES: 1989**

Geographic area	Median income (dollars)			Percent below poverty level 1/	
	Households	Families	Nonfamily households	Persons	Families
The State	38,829	43,176	24,376	8.3	6.0
Counties:					
Hawaii	29,712	33,186	17,375	14.2	10.9
Honolulu	40,581	45,313	25,685	7.5	5.4
Kalawao	(B)	(B)	(B)	(B)	(B)
Kauai	37,425	41,099	20,867	7.2	5.0
Maui	38,771	42,129	25,013	7.9	5.7
Census designated places:					
Hilo	30,014	35,570	15,700	14.5	11.3
Honolulu	37,190	45,227	24,177	8.4	5.5
Kailua (Oahu)	55,259	57,537	30,896	3.4	2.1
Kaneohe	49,770	51,116	30,291	4.9	2.9
Pearl City	50,752	52,879	23,008	3.5	2.4
Waipahu	38,380	40,635	17,691	13.4	12.8

B Base figure too small for statistical reliability.

1/ Based on U.S. poverty thresholds. Thresholds in Hawaii are about 15 percent higher; these statistics accordingly understate the prevalence of poverty in Hawaii.

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), tables 28, 29, 148, 149, 177, and 178.

Table 13.14-- ESTIMATED MEDIAN INCOME AND POVERTY STATUS, BY COUNTY: 1993

Geographic area	Median family income (dollars)	Persons in poverty 1/	
		Number	Percent
The State	39,890	110,972	9.6
Counties:			
Hawaii	31,150	20,329	15.0
Honolulu	43,596	75,992	8.9
Kalawao	10,000	-	-
Kauai	37,002	4,930	8.8
Maui	38,521	9,722	8.6

1/ Based on Mainland poverty thresholds. Official Hawaii thresholds are about 15 percent higher. These data accordingly understate the number and percent of persons below the poverty level in Hawaii. Data also differ from estimates in Table 13.18.

Source: U.S. Bureau of the Census, Small Area Income and Poverty Estimates Program, January 16, 1998.

Table 13.15-- INCOME OF HOUSEHOLDS AND FAMILIES: 1989 AND 1993

[Data refer to income before taxes. Particularly for 1993, based on a small sample subject to considerable sampling variation]

Annual income	Households		Families	
	1989	1993	1989	1993
Total	356,748	398,834	266,439	303,767
Less than \$5,000	13,393	9,548	5,411	5,147
\$5,000 to \$9,999	18,011	16,394	8,763	5,807
\$10,000 to \$14,999	21,657	20,378	13,306	12,255
\$15,000 to \$24,999	53,305	52,230	36,267	41,668
\$25,000 to \$34,999	52,186	62,051	38,048	34,741
\$35,000 to \$49,999	68,063	67,356	53,675	52,834
\$50,000 to \$74,999	73,616	98,013	62,526	86,333
\$75,000 to \$99,999	31,076	42,095	26,985	37,195
\$100,000 to \$149,999	17,640	24,514	14,901	22,849
\$150,000 or more	7,801	6,255	6,557	4,939
Median income (dollars)	38,829	42,662	43,176	49,797

Source: U.S. Bureau of the Census, Release CB92-47 (April 29, 1992), STF-3A, and Current Population Survey, March 1994 (special tabulation by Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center).

**Table 13.16-- MEDIAN INCOME FOR FOUR-PERSON FAMILIES:
FISCAL YEARS 1977 TO 1999**

[In dollars and number. Estimated by U.S. Bureau of the Census from the decennial Census of Population, Bureau of Economic Analysis estimates of per capita personal income, and the Current Population Survey]

Year	United States	Hawaii	Rank 2/
1977	14,747	17,069	2
1978	15,848	18,825	2
1979	17,315	20,113	2
1980	18,723	21,718	2
1981	20,428	22,475	3
1982	22,395	24,582	7
1983	24,332	27,514	4
1984	26,274	29,295	6
1985	27,619	30,019	9
1986	29,184	31,614	10
1987	31,097	33,445	11
1988	32,777	34,636	10
1989	34,716	36,618	11
1990	36,812	40,878	6
1991	39,051	42,353	8
1992	40,763	44,988	8
1993	41,451	50,234	6
1994	43,056	49,367	4
1995	44,615	50,821	4
1995 1/	44,251	50,856	5
1996	45,161	54,856	4
1997	47,012	56,992	5
1998	49,687	54,749	7
1999	51,518	57,909	6

1/ Implementation of 1990 population controls in CPS estimates.

2/ Rank computed among the 50 states and the District of Columbia.

Source: U.S. Dept. of Health and Human Services, Office of Community Services, "State Median Income Estimates for Four-Person Families (Fiscal Year); Notice of the Fiscal Year State Median Income Estimates for Use Under the Low Income Home Energy Assistance Fiscal Administered by the Administration for Children and Families, Office of Community Services, Division of Energy Assistance". For 1977-99 U.S. Bureau of the Census, Median Income for 4-Person Families, By State, 1974-96 (FY 77-99) <<http://www.census.gov/hhes/income/4person.html>>. For 1996, *Federal Register*, March 30, 1995. For 1997-99: Federal Register Online via GPO Access: <<http://wais.access.gpo.gov>>. For 1997: [DOCID: fr19mr96-74], March 13, 1996; for 1998 [DOCID:fr17mr97-117], March 17, 1997; and for 1999: [DOCID:fr20fe98-68], February 20, 1998.

**Table 13.17-- INCOME TYPE AND PER CAPITA INCOME IN 1989, BY
GEOGRAPHIC AREAS: 1990**

Subject	State total	Oahu	Neighbor islands
Households	356,748	265,625	91,123
With wage and salary income	297,748	226,536	71,212
Mean wage and salary income (dollars)	43,025	44,702	37,690
With nonfarm self-employment income	51,415	35,022	16,393
Mean nonfarm self-employment income (dollars)	22,521	22,477	22,617
With farm self-employment income	5,956	2,164	3,792
Mean farm self-employment income (dollars)	10,925	8,272	12,439
With Social Security income	90,377	64,394	25,983
Mean Social Security income (dollars)	7,815	7,712	8,070
With public assistance income	24,240	16,803	7,437
Mean public assistance income (dollars)	5,272	5,264	5,288
With retirement income	71,005	53,219	17,786
Mean retirement income (dollars)	12,116	13,230	8,783
Per capita income (dollars)	15,770	16,256	14,275

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 42.

Table 13.18-- POVERTY STATUS OF PERSONS: 1969, 1975, AND 1979 TO 1996

[Based on Mainland poverty thresholds. Official Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the number and percent of persons below the poverty level in Hawaii. Data are based on censuses or surveys made in March or April of the following year, and exclude inmates of institutions, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years (14 years before 1979)]

Year	Number	Percent	Year	Number	Percent
Census:					
1969	68,543	9.3	1986	109,000	10.7
1975	67,000	7.9	1987	95,000	8.8
1979	91,618	9.9	1988	117,000	11.1
1989	88,408	8.3	1989	122,000	11.3
			1990	121,000	11.0
CPS: 1/			1991	90,000	7.7
1980	81,000	8.5	1992	129,000	11.0
1981	108,000	11.3	1993	91,000	8.0
1982	132,000	13.2	1994	97,000	8.7
1983	135,000	13.4	1995	122,000	10.3
1984	92,000	9.3	1996	(NA)	10.7
1985	109,000	10.7			

NA Not available.

1/ Current Population Survey. Based on small samples and subject to considerable sampling variation.

2/ Standard error in 1995 was 1.68 for the poverty rate. For the entire United States in 1995, the poverty rate was 13.8 percent. Hawaii was the fourteenth lowest state in poverty rate in 1995.

Source: U.S. Bureau of the Census, *1970 Census of Population*, PC(1)-C13 (December 1971), table 58; *Current Population Reports, Consumer Income*, Series P-60, No. 113 (July 1978), p. 179; *1980 Census of Population*, PC80-1-C13 (June 1983), table 72; *1990 Census of Population*, 1990 CP-2-13 (September 1993), table 29; *Current Population Reports, Consumer Income*, Series P-60, No. 175 (August 1991), pp. 219-221, No. 185 (September 1993), p.1 and App. Table D-1, No. 188 (February 1995), tables C and D, No. 194 (Sept. 1996), tables A and B; Release CB95-185 (October 5, 1995), and No. 194 (September, 1997), p. ix. *Statistical Abstract of the United States: 1995* (p. 482), *1996* (p. 474), and *1997* (p. 477).

Table 13.19-- POVERTY STATUS IN 1989, FOR THE STATE AND OAHU: 1990

[Based on nationwide poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the numbers of persons and families below the poverty level in Hawaii. Data refer to to the poverty status in 1989 of families and persons surveyed in April 1990]

Subject	State total	Oahu only
All persons for whom poverty status is determined	1,071,352	803,204
Below poverty level	88,408	60,093
Persons 18 years and over	795,834	601,880
Below poverty level	56,464	39,029
Persons 65 years and over	120,952	88,602
Below poverty level	9,701	6,888
Related children under 18 years	273,746	200,310
Below poverty level	30,440	20,191
Related children under 5 years	80,522	60,206
Below poverty level	10,137	6,907
Related children 5 to 17 years	193,224	140,104
Below poverty level	20,303	13,284
Unrelated individuals	147,440	107,072
Below poverty level	29,435	20,330
All families	266,439	199,597
Below poverty level	16,053	10,733
With related children under 18 years	143,331	106,216
Below poverty level	12,760	8,423
With related children under 5 years	64,476	48,376
Below poverty level	7,213	4,895
Female householder families	35,368	26,101
Below poverty level	6,937	4,445
With related children under 18 years	21,428	14,960
Below poverty level	6,382	4,020
With related children under 5 years	8,220	5,712
Below poverty level	3,426	2,157

Continued on next page.

**Table 13.19-- POVERTY STATUS IN 1989, FOR THE STATE AND OAHU:
1990 -- Con.**

Subject	State total	Oahu only
Percent below poverty level:		
All persons	8.3	7.5
Persons 18 years and over	7.1	6.5
Persons 65 years and over	8.0	7.8
Related children under 18 years	11.1	10.1
Related children under 5 years	12.6	11.5
Related children 5 to 17 years	10.5	9.5
Unrelated individuals	20.0	19.0
All families	6.0	5.4
With related children under 18 years	8.9	7.9
With related children under 5 years	11.2	10.1
Female householder families	19.6	17.0
With related children under 18 years	29.8	26.9
With related children under 5 years	41.7	37.8

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 3.

Table 13.20-- POVERTY INCOME GUIDELINES: 1993 TO 1997

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services to determine eligibility for certain Federal programs for the poor]

Size of family unit	Effective Feb. 12, 1993	Effective Feb. 10, 1994	Effective Feb. 9, 1995	Effective Mar. 4, 1996	Effective Mar. 10, 1997
1	8,040	8,470	8,610	8,910	9,070
2	10,860	11,320	11,550	11,920	12,200
3	13,680	14,170	14,490	14,930	15,330
4	16,500	17,020	17,430	17,940	1/ 18,460
5	19,320	19,870	20,370	20,950	21,590
6	22,140	22,720	23,310	23,960	24,720
7	24,960	25,570	26,250	26,970	27,850
8	27,780	28,420	29,190	29,980	2/ 30,980

1/ Corresponding levels for four-person families elsewhere in the United States were \$16,050 on the Mainland and \$20,070 in Alaska.

2/ For larger families, add \$3,030 for each additional member.

Source: U.S. Department of Health and Human Services, "Annual Update of the HHS Poverty Guidelines," *Federal Register*, February 12, 1993, February 10, 1994, February 9, 1995, March 4, 1996, and March 10, 1997.

Table 13.21-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR HONOLULU: 1990-91 TO 1994-95

[Annual averages for two-year periods]

Item	1990-91	1991-92	1992-93	1993-94	1994-95
Average annual expenditures	36,394	37,273	38,997	43,214	40,999
Food	5,634	6,333	7,104	6,815	5,918
Food at home	3,163	3,455	3,889	3,899	3,292
Cereals and bakery products	451	519	582	606	504
Meats, poultry, fish, and eggs	875	946	1,151	1,144	882
Dairy products	270	278	294	294	258
Fruits and vegetables	611	693	781	751	629
Other food at home	955	1,019	1,080	1,105	1,020
Food away from home	2,471	2,878	3,215	2,916	2,626
Alcoholic beverages	470	449	503	417	440
Housing	11,196	11,863	12,261	14,301	14,168
Shelter	7,432	8,080	8,352	9,957	9,720
Owned dwellings	3,744	3,775	4,163	5,399	5,244
Rented dwellings	3,369	4,000	3,837	3,896	3,734
Other lodging	319	305	351	662	742
Utilities, fuels, and public services	1,272	1,448	1,673	1,835	1,837
Household operations	552	509	430	532	653
Housekeeping supplies	488	514	483	489	446
Housefurnishings and equipment	1,451	1,313	1,324	1,489	1,511
Apparel and services	1,728	2,166	2,086	1,712	1,485
Transportation	6,052	5,628	5,490	2,259	6,350
Vehicle purchases (net outlay)	2,523	2,061	1,809	2,259	2,231
Gasoline and motor oil	852	759	819	937	911
Other vehicle expenses	1,818	1,972	2,083	2,246	2,329
Public transportation	859	837	780	942	879
Health care	1,623	1,557	1,661	1,910	1,848
Entertainment	1,618	1,534	1,652	1,870	1,958
Personal care products and services	498	515	496	528	502
Reading	209	204	203	233	230
Education	693	573	1,043	1,428	1,117
Tobacco products and smoking supplies	181	228	282	257	227
Miscellaneous	1,854	1,837	1,109	1,324	1,275
Cash contributions	1,179	1,139	1,029	1,253	1,113
Personal insurance and pensions	3,459	3,245	4,078	4,781	4,368
Life and other personal insurance	581	446	424	594	546
Pensions and Social Security	2,878	2,799	3,654	4,187	3,822

Continued on next page.

Table 13.21-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR HONOLULU: 1990-91 TO 1994-95--Con.

Item	1990-91	1991-92	1992-93	1993-94	1994-95
Consumer unit characteristics:					
Number of consumer units (thousands)	242,000	266,000	265,000	257,000	274,000
Income before taxes (dollars) 1/	41,499	42,156	46,404	52,064	51,847
Age of reference person	49.0	48.8	48.2	49.3	49.8
Number of persons	2.8	2.6	2.7	2.8	2.7
Number of children under 18	0.7	(NA)	(NA)	0.7	0.6
Number of persons 65 and over	0.4	(NA)	(NA)	0.4	0.4
Number of earners	1.5	1.4	1.6	1.7	1.6
Number of vehicles	1.6	1.5	1.6	1.7	1.6
Percent homeowner	49	44	47	52	51

NA Not available.

1/ Components of income and taxes are derived from "complete income reporters" only.

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Selected Western Metropolitan Statistical Areas: Average Annual Expenditures, Characteristics, and Sources of Income of Consumer Units* (annual) and <<http://stats.bls.gov/csxhome.htm>> then <<ftp://146.142.4.23/pub/special.requests/ce/msa/y9495/west.txt>>.

**Table 13.22-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF
CONSUMER UNITS, FOR THE WESTERN UNITED STATES (INCLUDING HONOLULU): 1994-95**

[Annual averages for two-year periods]

Item	Western United States	Los Angeles	San Fran- cisco	San Diego	Portland	Seattle	Anchor- age	Hono- lulu	Hono- lulu rank 1/
Average annual expenditures	35,257	36,283	41,948	34,054	34,842	36,360	42,621	40,999	3
Food	4,683	4,651	5,220	4,080	4,414	4,495	5,926	5,918	2
Food at home	2,931	2,759	3,160	2,498	2,839	2,780	3,829	3,292	2
Cereals and bakery products	448	420	473	349	435	443	648	504	2
Meats, poultry, fish, and eggs	730	753	789	643	650	621	941	882	2
Dairy products	322	319	336	281	305	306	367	258	7
Fruits and vegetables	472	469	553	454	453	456	669	629	2
Other food at home	960	799	1,009	771	997	954	1,204	1,020	2
Food away from home	1,752	1,892	2,060	1,582	1,574	1,715	2,097	2,626	1
Alcoholic beverages	308	281	405	427	333	370	471	440	2
Housing	12,021	13,661	15,988	12,220	11,699	11,931	13,456	14,168	2
Shelter	7,358	8,974	9,904	8,357	7,313	7,684	8,529	9,720	2
Owned dwellings	4,469	4,907	6,172	4,458	4,779	5,115	4,690	5,244	2
Rented dwellings	2,447	3,583	3,155	3,610	2,069	2,051	3,373	3,734	1
Other lodging	442	484	577	289	465	518	466	742	1
Utilities, fuels, and public services	2,001	2,075	2,023	1,833	1,893	1,852	2,308	1,837	6
Household operations	574	710	695	526	617	575	531	653	3
Housekeeping supplies	445	449	390	438	427	529	333	446	3
Housefurnishings and equipment	1,642	1,453	2,976	1,066	1,450	1,291	1,756	1,511	3
Apparel and services	1,704	2,013	2,049	1,490	1,775	1,467	2,144	1,485	6
Transportation	6,318	6,114	6,458	6,395	6,091	6,778	6,717	6,350	5
Vehicle purchases (net outlay)	2,566	2,270	2,121	2,305	2,738	2,851	2,260	2,231	6
Gasoline and motor oil	1,054	1,078	1,081	1,116	971	997	1,054	911	7

Continued on next page.

Table 13.22-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR THE WESTERN UNITED STATES (INCLUDING HONOLULU): 1994-95-- Con.

Item	Western United States	Los Angeles	San Francisco	San Diego	Portland	Seattle	Anchorage	Honolulu	Honolulu rank 1/
Transportation - con.:									
Other vehicle expenses	2,255	2,353	2,692	2,511	1,908	2,232	2,393	2,329	5
Public transportation	444	413	564	463	474	698	1,010	879	2
Health care	1,661	1,307	1,580	1,454	1,559	1,520	1,938	1,848	2
Entertainment	1,907	1,693	2,061	1,709	1,798	2,422	3,098	1,958	4
Personal care products and services	433	519	438	374	394	345	377	502	2
Reading	184	150	214	183	242	237	236	230	4
Education	460	483	483	439	387	449	638	1,117	1
Tobacco products and smoking supplies	210	179	195	226	267	227	235	227	3
Miscellaneous	885	1,044	899	723	762	982	1,036	1,275	1
Cash contributions	1,005	696	1,539	722	1,163	1,149	1,665	1,113	5
Personal insurance and pensions	3,478	3,493	4,418	3,613	3,958	3,988	4,683	4,368	3
Life and other personal insurance	331	251	316	309	298	274	639	546	3
Pensions and Social Security	3,147	3,242	4,102	3,304	3,660	3,715	4,044	3,822	3
Consumer unit characteristics:									
Number of consumer units (thousands)	21,442	5,128	2,828	876	770	1,065	101	274	6
Income before taxes (dollars)	40,027	43,601	49,142	38,336	39,521	44,007	55,152	51,847	2
Age of reference person	46.6	47.0	45.8	47.9	46.8	44.8	42.9	49.8	1
No. of persons in consumer unit	2.7	2.8	2.5	2.5	2.5	2.4	2.6	2.7	2
No. of children under 18 in consumer unit	0.8	0.9	0.6	0.6	0.6	0.6	0.7	0.6	3
No. of persons 65 and over in consumer unit	0.3	0.3	0.3	0.3	0.3	0.2	0.1	0.4	1
No. of earners	1.4	1.3	1.4	1.3	1.4	1.3	1.5	1.6	1
No. of vehicles	2.1	1.8	2.0	1.8	2.3	2.2	2.1	1.6	7
Percent homeowner	60	50	57	51	62	61	56	51	6

1/ Within the seven Metropolitan Statistical Areas designated for the Western United States.

Source: U.S. Dept. of Labor, Bureau of Labor Statistics, *Selected Western Metropolitan Statistical Areas: Average Annual Expenditures, Characteristics, and Sources of Income of Consumer Units 1994-95* <<http://stats.bls.gov/csxhome.htm>> then <<ftp://146.142.4.23/pub/special.requests/ce/msa/y9495/west.txt>>.

Table 13.23-- TOP WEALTHHOLDERS: 1962 TO 1992

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts, rising from \$60,000 in 1962 to \$600,000 in 1989. All figures are estimates based on estate tax return samples]

Group and year	Number of top wealthholders	Millions of dollars		
		Total assets	Debts and mortgages	Net worth
Gross estate over \$60,000:				
1962	11,323	1,908	231	1,677
1969	36,470	6,327	1,090	5,236
1972	53,700	7,866	1,369	6,497
Gross estate over \$120,000:				
1976	39,000	7,436	1,546	5,890
Gross estate over \$325,000:				
1982	20,300	14,767	3,523	11,244
Gross estate over \$500,000:				
1982	8,700	10,864	2,919	7,946
1986	11,000	11,330	1,475	9,855
Gross estate over \$600,000:				
1989	22,300	28,393	2,447	25,947
1992	32,280	39,198	3,543	35,655

Source: U.S. Internal Revenue Service, *Statistics of Income -1962, Personal Wealth* (1967), pp. 55-56; *Statistics of Income -1969, Personal Wealth* (1973), pp. 57-58; *Statistics of Income- 1972, Personal Wealth Estimated from Estate Tax Returns* (1976), table 33; and *Statistics of Income Bulletin*, Summer 1983, pp. 1-26, Spring 1988, pp. 31-46; Spring 1990, pp. 63-78; Spring 1993, pp. 105-121; and Winter 1997-98, <http://www.irs.treas.gov/prod/tax_stats/soi/est_pw.html/95PERWEL.EXE>, April 2, 1998.

Table 13.24--TOP WEALTHHOLDERS WITH TOTAL ASSETS OF \$600,000 OR MORE AND NET WORTH UNDER \$10,000,000, 1992: TOTAL AND SELECTED ASSETS, DEBTS, AND NET WORTH, U.S. AND HAWAII

[Data are estimates based on samples. Amounts are in millions of dollars]

Category	United States	Hawaii	Hawaii as percent of U.S.
Top wealthholders: Number	3,654,920	32,280	0.9
Total assets: Amount	4,597,627	39,198	0.9
Debts: Number	3,074,310	27,840	0.9
Amount	560,088	3,543	0.6
Net worth: Number	3,654,920	32,280	0.9
Amount	4,037,539	35,655	0.9
Real estate: Number	3,327,000	31,000	0.9
Amount	1,425,542	21,396	1.5
Corporate estate stock: Number	2,778,160	21,530	0.8
Amount	1,028,498	4,544	0.4
Cash and money market accounts: Number	3,573,820	31,790	0.9
Amount	468,701	2,596	0.6
Total bonds: Number	1,950,190	15,510	0.8
Amount	516,723	1,902	0.4

Source: U. S. Department of Treasury, Internal Revenue Service, *Statistics of Income Bulletin*, Winter 1997-98, April 2, 1998, <http://www.irs.treas.gov/prod/tax_stats/soi/est_pw.html/95PERWEL.EXE>.

Table 13.25-- (NET) WORTH OF RICHEST RESIDENTS: 1988 TO 1997

Name	Residence	Age (years)	Net worth (million dollars)	Primary sources
1988				
Anthony, Barbara Cox	Honolulu	65	2,250	Inheritance (Cox Enterprises)
Weinberg, Harry	Honolulu, Baltimore	80	850	Real estate, securities
Campbell family	Hawaii, other locations	...	650	Real estate
Goldman family	Honolulu, NYC, Colorado, Oklahoma	...	400	Inheritance, real estate
Kelley family	Honolulu	...	500	Hotels
Smart, Richard P.K.	Honolulu, Waimea	75	275	Inheritance, ranching
Hemmeter, Christopher B.	Kahala Beach	49	225	Real estate
1989				
Anthony, Barbara Cox	Honolulu	66	2,500	Inheritance (Cox Enterprises)
Weinberg, Harry	Honolulu, Baltimore	81	800	Real estate, securities
Campbell family	Hawaii, other locations	...	650	Real estate
Duke, Doris	Honolulu, NJ, RI	76	850	Inheritance
Kelley family	Honolulu	...	580	Hotels
Smart, Richard P.K.	Honolulu, Waimea	76	310	Inheritance, ranching
1990				
Anthony, Barbara Cox	Honolulu	67	2,600	Inheritance (Cox Enterprises)
Weinberg, Harry	Honolulu, Baltimore	82	950	Real estate, securities
Campbell family	Hawaii, other locations	...	700	Real estate
Duke, Doris	Honolulu, NJ, RI	77	750	Inheritance
Kelley family	Honolulu	...	500	Hotels
Smart, Richard P.K.	Honolulu, Waimea	77	325	Inheritance, ranching
1991				
Anthony, Barbara Cox	Honolulu	68	2,000	Inheritance (Cox Enterprises)
Ward family	Hawaii	...	500	(NS)
Campbell family	Hawaii, other locations	...	675	Real estate
Duke, Doris	Honolulu, NJ, RI	78	750	Inheritance
Kelley family	Honolulu	...	400	Hotels
Smart, Richard P.K.	Honolulu, Waimea	78	300	Inheritance, ranching
1992				
Anthony, Barbara Cox	Honolulu	69	2,100	Inheritance (Cox Enterprises)
Campbell family	Hawaii, other locations	...	700	Real estate
Duke, Doris	Honolulu, NJ, RI	79	750	Inheritance
Kelley family	Honolulu	...	400	Hotels
Smart, Richard P.K.	Honolulu, Waimea	79	265	Inheritance, ranching

Continued on next page.

Table 13.25-- (NET) WORTH OF RICHEST RESIDENTS: 1988 TO 1997 -- Con.

Name	Residence	Age (years)	Net worth (million dollars)	Primary sources
1993				
Anthony, Barbara Cox	Honolulu	70	2,400	Inheritance (Cox Enterprises)
Campbell family	Hawaii, other locations	...	700	Real estate
Duke, Doris	Honolulu, NJ, RI	80	750	Inheritance
Kelley family	Honolulu	...	430	Hotels
Schuler, James K.	Honolulu	55	345	Real estate
1994				
Anthony, Barbara Cox	Honolulu	71	2,900	Inheritance (Cox Enterprises)
Campbell family	Hawaii, other locations	...	800	Real estate
Kelley family	Honolulu	...	440	Hotels
Schuler, James K.	Honolulu	56	290	Real estate
1995				
Anthony, Barbara Cox	Honolulu	72	3,000	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family	Hawaii	...	850	Real estate
Damon family	Hawaii, California	...	700	Banking, real estate
Robinson family	Kauai, Hawaii	...	500	Real estate
1996				
Anthony, Barbara Cox	Honolulu	73	4,000	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family	Hawaii	...	1,000	Land, investments
Damon family	Hawaii, California	...	750	Banking, real estate
Robinson family	Kauai, Hawaii	...	450	Real estate
1997				
Anthony, Barbara Cox 1/	Honolulu	74	5,000	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family	Hawaii	...	1,100	Land, investments

NS Not specified.

1/ Sisters Barbara and Anne Cox Chambers, of Atlanta, share a fortune worth more than \$10 billion; members of the Forbes 400 since 1982.

Source: "The Forbes Four Hundred," *Forbes*, October 27, 1986, pp. 106-312; October 26, 1987, pp. 106-333; October 24, 1988, pp. 142-347; October 23, 1989, pp. 145-358; October 22, 1990, pp. 116-327; October 21, 1991, pp. 145-317; October 19, 1992, pp. 90-270; October 18, 1993, pp. 110-313; October 17, 1994, pp. 100-348; October 16, 1995, pp. 106-368; October 14, 1996, pp. 100-356; and October 13, 1997;

<wysiwyg://9/http://www.forbes.com/tool/toolbox/rich97/index.asp>

Section 14

PRICES

This section presents indexes of consumer prices for Honolulu and for the United States, the implicit price deflator for gross state product, and comparisons of Honolulu living costs with those in other urban areas and cities in foreign countries. Other statistics on prices are reported in Sections 7, 16, 17, 18, 21, and 23.

The Honolulu Consumer Price Index has been compiled by the U.S. Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban households. Prices are expressed as a percent of the average levels reported in the base period, 1982-1984. Current data for Honolulu and other cities are published in *CPI Detailed Report*, issued monthly by BLS.

Official comparisons of Honolulu and Mainland living costs are no longer being made on a regular basis. The annual four-person family budgets estimated by the Bureau of Labor Statistics for Honolulu and the Mainland were discontinued after 1981. Unofficial 1982-1996 estimates by the Bank of Hawaii had been discontinued but were recently restored. A comparison of prices in Hawaii and Washington, D.C., compiled for the U.S. Office of Personnel Management as a basis for cost of living adjustments for Federal employees, was most recently published for 1996. These studies are subject to technical limitations and must be interpreted with considerable caution.

No composite wholesale or producer price index is available for Hawaii. Average wholesale prices of agricultural products are reported in *Statistics of Hawaiian Agriculture*, issued by the Hawaii Agricultural Statistics Service, and in various other publications of the Hawaii State Department of Agriculture. Wholesale price statistics of other commodities are seldom available.

Data on prices and living costs for the nation as a whole and other areas are summarized in the *Statistical Abstract of the United States: 1997*, Section 15. Long-term trends for Hawaii are traced in *Historical Statistics of Hawaii*, Section 5.

**Table 14.01-- IMPLICIT PRICE DEFLATOR FOR EXPENDITURES ON
GROSS STATE PRODUCT: 1958 TO 1997**

[1987 = 100]

Year	Deflator 1987 = 100	Percent change from year previous	Year	Deflator 1987 = 100	Percent change from year previous
1958	28.5	(NA)	1978	64.5	8.6
1959	28.4	-0.4	1979	70.4	9.0
1960	28.8	1.3	1980	74.7	6.2
1961	30.1	4.5	1981	78.0	4.4
1962	30.1	0.0	1982	83.7	7.2
1963	31.4	4.3	1983	87.2	4.2
1964	31.2	-0.5	1984	90.5	3.7
1965	31.5	1.0	1985	93.5	3.3
1966	32.7	3.8	1986	95.6	2.3
1967	34.1	4.3	1987	100.0	4.5
1968	35.3	3.4	1988	105.3	5.3
1969	37.1	5.3	1989	110.6	5.1
1970	39.6	6.7	1990	117.7	6.4
1971	40.7	2.8	1991	125.0	6.2
1972	42.4	4.1	1992	131.0	4.8
1973	45.8	7.9	1993	134.5	2.6
1974	52.8	15.2	1994	137.8	2.5
1975	53.5	1.4	1995	140.5	1.9
1976	56.5	5.7	1996	142.6	1.5
1977	59.4	5.2	1997	143.5	0.6

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

Table 14.02-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES: 1940 TO 1997

[1982-1984 average = 100. Excludes rent before 1963]

Year	Honolulu		United states	
	Annual average	Percent change from year previous	Annual average	Percent change from year previous
1940	14.7	(NA)	14.0	(NA)
1941	15.5	5.4	14.7	5.0
1942	17.6	13.5	16.3	10.9
1943	18.9	7.4	17.3	6.1
1944	19.2	1.6	17.6	1.7
1945	19.7	2.6	18.0	2.3
1946	21.0	6.6	19.5	8.3
1947	24.4	16.2	22.3	14.4
1948	25.7	5.3	24.1	8.1
1949	25.2	-1.9	23.8	-1.2
1950	24.3	-3.6	24.1	1.3
1951	25.7	5.8	26.0	7.9
1952	26.5	3.1	26.5	1.9
1953	26.7	0.8	26.7	0.8
1954	26.9	0.7	26.9	0.7
1955	27.3	1.5	26.8	-0.4
1956	27.7	1.5	27.2	1.5
1957	28.6	3.2	28.1	3.3
1958	30.0	4.9	28.9	2.8
1959	30.5	1.7	29.1	0.7
1960	31.3	2.6	29.6	1.7
1961	32.1	2.6	29.9	1.0
1962	32.8	2.2	30.2	1.0
1963	33.5	2.1	30.6	1.3
1964	33.7	0.6	31.0	1.3
1965	34.4	2.1	31.5	1.6
1966	35.3	2.6	32.4	2.9
1967	36.3	2.8	33.4	3.1
1968	37.7	3.9	34.8	4.2
1969	39.4	4.5	36.7	5.5
1970	41.5	5.3	38.8	5.7
1971	43.2	4.1	40.5	4.4
1972	44.6	3.2	41.8	3.2
1973	46.6	4.5	44.4	6.2
1974	51.5	10.5	49.3	11.0
1975	56.3	9.3	53.8	9.1
1976	59.1	5.0	56.9	5.8
1977	62.1	5.1	60.6	6.5
1978	66.9	7.7	65.2	7.6
1979	74.3	11.1	72.6	11.3

Continued on next page.

**Table 14.02-- CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS
(CPI-U), ALL ITEMS, FOR HONOLULU AND UNITED STATES:
1940 TO 1997--Con.**

Year	Honolulu		U.S.	
	Annual average	Percent change from previous period	Annual average	Percent change from previous period
1980	83.0	11.7	82.4	13.5
1981	91.7	10.5	90.9	10.3
1982	97.2	6.0	96.5	6.2
1983	99.3	2.2	99.6	3.2
1984	103.5	4.2	103.9	4.3
1985	106.8	3.2	107.6	3.6
1986	109.4	2.4	109.6	1.9
1987	114.9	5.0	113.6	3.6
1988	121.7	5.9	118.3	4.1
1989	128.7	5.8	124.0	4.8
1990	138.1	7.3	130.7	5.4
1991	148.0	7.2	136.2	4.2
1992	155.1	4.8	140.3	3.0
1993	160.1	3.2	144.5	3.0
1994	164.5	2.7	148.2	2.6
1995	168.1	2.2	152.4	2.8
1996	170.7	1.5	156.9	3.0
1997	171.9	0.7	160.5	2.3

Source: For Honolulu: 1940-1963 from surveys by Eugene Danaher and Hawaii State Department of Labor and Industrial Relations, cited in Hawaii State Department of Planning and Economic Development, *The Honolulu Consumer Price Index, 1940-1986* (Statistical Report 187, May 30, 1986), as shifted to 1982-1984 base. 1987-1997: U. S. Department of Labor, Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, for Honolulu, BLS FAXSTAT 922; and for the U.S, BLS FAXSTAT Code 9210, February 24, 1998.

**Table 14.03-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY
TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1997**

[1982-1984 average = 100]

Year	All urban consumers (CPI-U)			Urban wage earners and clerical workers (CPI-W)		
	Annual average	First half	Second half	Annual average	First half	Second half
1984	103.5	102.5	104.4	104.3	103.0	105.5
1985	106.8	106.3	107.4	107.9	107.4	108.4
1986	109.4	108.9	109.9	110.3	109.9	110.7
1987	114.9	113.3	116.5	115.9	114.3	117.6
1988	121.7	120.1	123.4	122.8	121.1	124.5
1989	128.7	126.4	131.1	129.7	127.4	132.0
1990	138.1	135.5	140.8	138.9	136.3	141.6
1991	148.0	146.8	149.1	148.9	147.7	150.1
1992	155.1	153.9	156.4	155.9	154.6	157.2
1993	160.1	158.6	161.6	160.7	159.4	162.0
1994	164.5	163.4	165.7	164.7	163.5	165.8
1995	168.1	166.9	169.4	168.4	167.2	169.7
1996	170.7	170.5	171.0	171.0	170.8	171.2
1997	171.9	172.1	171.8	172.2	172.4	172.0

Source: U.S. Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI, FAXSTAT 2265, February 24, 1998.

Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1992 TO 1997

[Unless otherwise specified, 1982-1984 average=100]

Group	1992	1993	1994	1995	1996	1997
All items	155.1	160.1	164.5	168.1	170.7	171.9
Food and beverages	148.5	152.9	153.4	156.8	156.6	159.2
Food	148.3	152.7	153.2	157.0	156.6	159.5
Food at home	155.0	158.0	157.8	162.1	159.5	164.2
Cereals and bakery products	163.3	166.0	163.5	168.4	170.8	168.8
Meats, poultry, fish, and eggs	157.3	154.5	137.9	136.0	135.6	137.8
Meats, poultry, and fish	159.1	156.0	138.1	135.8	135.1	137.2
Dairy products	128.2	130.3	132.4	133.8	139.4	144.9
Fruits and vegetables	172.9	181.0	192.3	201.2	194.9	204.4
Other foods at home	143.2	150.6	164.0	173.4	165.1	172.5
Food away from home	137.8	141.9	146.4	149.2	150.8	152.6
Alcoholic beverages	151.1	155.0	155.8	152.3	156.2	155.2
Housing	161.7	166.5	171.6	174.7	176.8	177.1
Shelter	179.6	183.5	188.7	191.7	193.5	192.4
Renters' costs 1/	185.2	190.4	195.6	197.9	200.3	200.0
Rent, residential	175.8	181.4	185.9	187.0	187.3	185.7
Other renters' costs	201.9	203.1	212.0	220.9	235.3	242.8
Homeowners' costs 1/	185.8	188.9	194.6	197.8	199.3	197.9
Owners' equivalent rent 1/	186.8	189.9	195.6	198.9	200.4	199.0
Fuel and other utilities	106.1	117.5	121.3	128.4	133.8	137.1
Fuels	90.0	102.6	101.9	111.6	115.9	119.8
Gas (piped) and electricity	89.4	101.8	101.1	110.8	115.2	119.1
Electricity	88.0	101.6	101.0	111.1	114.5	118.6
Utility (piped) gas	98.8	96.8	94.2	98.9	114.7	116.1
Household furnishings and operation	137.3	140.0	145.6	146.0	146.4	150.0
Apparel and upkeep	114.2	116.5	118.7	117.5	118.5	117.3
Apparel commodities	111.1	113.2	115.3	114.0	115.0	113.8
Men's and boys' apparel	131.8	135.8	149.8	152.1	149.0	147.3
Women's and girls' apparel	100.5	103.8	95.9	94.6	95.2	94.6
Footwear	104.7	98.0	98.2	94.4	96.8	98.1
Transportation	147.4	150.5	156.4	162.4	167.0	166.0
Private transportation	149.8	152.1	156.7	162.8	168.2	167.2
Motor fuel	117.5	121.3	123.1	125.5	131.9	132.0
Gasoline	119.6	124.1	126.0	128.4	134.9	135.1
Unleaded, regular	(NA)	(NA)	(NA)	(NA)	141.4	141.9
Unleaded midgrade 2/	(NA)	(NA)	(NA)	(NA)	105.9	105.3
Unleaded, premium	(NA)	(NA)	(NA)	(NA)	123.8	123.8
Public transportation	128.3	137.1	152.5	158.4	156.0	156.9

Continued on next page.

Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1992 TO 1997 -- Con.

Group	1992	1993	1994	1995	1996	1997
Medical care	182.6	197.4	206.0	209.8	215.0	217.3
Entertainment	136.3	138.3	142.3	144.2	147.8	147.9
Other goods and services	189.0	200.1	209.6	216.8	226.5	239.0
Personal care	153.3	158.6	162.9	165.8	169.4	169.2
All items	155.1	160.1	164.5	168.1	170.7	171.9
Commodities	138.5	141.4	142.9	145.1	146.3	148.3
Food and beverages	148.5	152.9	153.4	156.8	156.6	159.2
Commodities less food and beverages	130.5	132.1	134.5	135.8	138.1	139.6
Nondurables less food and beverages	133.2	136.8	138.6	139.6	142.2	143.2
Durables	126.5	124.9	128.2	130.0	131.8	134.2
Services	169.9	176.6	183.5	188.3	192.1	192.8
Medical care services	183.6	199.1	208.0	211.7	216.7	217.4
Special indexes:						
All items less shelter	145.6	150.9	155.0	158.9	161.8	164.0
All items less medical care	153.5	158.0	162.2	165.8	168.3	169.4
All items less energy	160.2	164.9	169.7	173.1	175.5	176.7
Energy	104.6	112.6	113.2	119.0	124.4	124.4
All items less food and energy	(NA)	(NA)	(NA)	(NA)	180.5	181.4
Commodities less food	131.4	133.2	135.5	136.6	138.9	140.3
Nondurables less food	134.3	138.0	139.8	140.3	143.0	143.9
Nondurables	141.6	145.7	146.8	149.1	150.1	152.0
Services less rent of shelter 1/	160.9	171.0	179.9	186.8	192.9	195.4
Services less medical care	168.3	174.4	181.1	186.0	189.7	190.3

1/ Indexes on a December 1982=100 base.

2/ Indexes on a December 1993=100 base.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly), CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI; BLS FAXSTAT 9225, August 13, 1996; and for 1995-97, BLS FAXSTAT Codes 2265 and 9225; and <<http://stats.bls.gov/special.requests/sanfrancisco/cpihono.txt>>, February 24, 1998.

**Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U), FOR
THE UNITED STATES AND HONOLULU, DECEMBER 1995 AND 1996**

[Percent of all items]

Group	1995 CPI-U		1996 CPI-U	
	US	Honolulu	US	Honolulu
EXPENDITURE CATEGORY				
All items	100.000	100.000	100.000	100.000
Food and beverages	17.332	19.317	17.484	19.416
Food	15.766	18.021	15.913	18.054
Food at home	9.880	11.793	10.040	11.825
Cereals and bakery products	1.473	1.524	1.479	1.577
Meats, poultry, fish, and eggs	2.936	3.223	3.002	3.242
Meats, poultry, and fish	2.747	3.001	2.797	2.997
Dairy products	1.169	0.874	1.245	0.979
Fruits and vegetables	1.936	3.258	1.974	3.204
Other foods at home	2.365	2.914	2.340	2.824
Food away from home	5.886	6.228	5.873	6.229
Alcoholic beverages	1.566	1.296	1.571	1.363
Housing	41.346	43.149	41.203	42.811
Shelter	28.289	32.523	28.194	32.096
Renters' costs	7.988	9.473	7.994	9.438
Rent, residential	5.762	7.999	7.961	7.846
Other renters' costs	2.227	1.474	2.263	1.592
Homeowners' costs	20.102	22.806	20.000	22.414
Owners' equivalent rent	19.716	22.631	19.616	22.241
Fuel and other utilities	7.014	4.684	7.102	4.844
Fuels	3.792	2.286	3.878	2.385
Fuel oil, and other household fuel	0.356	0.023	0.425	0.023
Fuel oil	0.246	0.001	0.293	0.002
Other household fuel commodities	0.110	0.021	0.131	0.021
Gas (piped) and electricity	3.436	2.263	3.453	2.362
Electricity	2.395	2.091	2.334	2.179
Utility (piped) gas	1.041	0.172	1.119	0.183
Household furnishings and operation	6.043	5.942	5.908	5.871
Apparel and upkeep	5.516	4.296	5.330	4.149
Apparel commodities	4.967	3.970	4.786	3.824
Men's and boys' apparel	1.303	1.285	1.280	1.220
Women's and girls' apparel	2.195	1.453	2.102	1.339
Footwear	0.732	0.452	0.718	0.482

Continued on next page.

**Table 14.05-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX, FOR ALL URBAN CONSUMERS (CPI-U),
FOR THE U.S. AND HONOLULU, DECEMBER 1995 AND 1996 -- Con.**

Group	1995 CPI-U		1996 CPI-U	
	US	Honolulu	US	Honolulu
EXPENDITURE CATEGORY -- Con.				
Transportation	16.953	16.534	17.141	16.529
Private transportation	15.430	14.879	15.499	14.817
Motor fuel	2.908	2.844	3.171	3.019
Public transportation	1.523	1.655	1.642	1.712
Medical care	7.362	5.833	7.346	5.802
Entertainment	4.367	4.030	4.352	4.063
Other goods and services	7.123	6.840	7.145	7.230
Personal care	1.170	1.281	1.445	1.285
COMMODITY AND SERVICE GROUP				
All items	100.000	100.000	100.000	100.000
Commodities	42.916	39.740	42.873	39.832
Food and beverages	17.332	19.317	17.484	19.416
Commodities less food and beverages	25.584	20.423	25.389	20.416
Nondurables less food and beverages	15.075	13.025	15.147	13.013
Durables	10.509	7.398	10.242	7.403
Services	57.084	60.260	57.127	60.168
Medical care services	6.081	4.813	7.346	4.772
Special indexes:				
All items less shelter	71.711	67.477	71.806	67.904
All items less medical care	92.638	94.167	92.654	94.198
All items less energy	93.300	94.871	92.951	94.596
All items less food and energy	77.534	76.850	77.038	76.542
Energy	6.700	5.129	7.049	5.404
Commodities less food	27.150	21.719	26.960	21.779
Nondurables less food	16.641	14.321	16.718	14.376
Nondurables	32.407	32.342	32.631	32.430
Services less rent of shelter	29.414	28.167	29.540	28.500
Services less medical care services	51.004	55.447	51.054	55.396

Source: U.S. Bureau of Labor Statistics, *Relative Importance of Components in the Consumer Price Index, 1995*, Bulletin 2476, February 1996 (p. 17), and for 1996, *Ibid.*, Bulletin 2488, April 1997, (p. 18-19); and <ftp://146.142.4.23/pub/special.requests/cpi/usri96.txt>.

**Table 14.06-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON
FAMILY ON OAHU: 1971 TO 1996**

Year	Dollars	Percent of urban U.S.	Year	Dollars	Percent of urban U.S.
1971	13,108	119.5	1984	35,484	124.4
1972	13,617	119.0	1985	36,926	122.7
1973	14,937	118.3	1986	38,437	123.2
1974	17,019	118.8	1987	41,790	126.7
1975	18,107	117.0	1988	44,414	129.2
1976	19,036	117.2	1989	47,950	130.7
1977	20,883	122.1	1990	2/ 52,137	134.1
1978	23,099	124.0	1991	2/ 55,010	136.3
1979	25,799	125.7	1992	57,345	138.8
1980	28,488	2/ 123.2	1993 1/	59,129	138.7
1981	31,893	125.5	1994 1/	59,412	135.6
1982	33,403	124.5	1995 1/ 2/	61,800	138.1
1983	33,890	124.3	1996 1/	61,361	134.0

1/ Preliminary.

2/ Estimate has been revised.

Source: U.S. Bureau of Labor Statistics, annual releases for 1971-81; 1982-96 estimates by Paul Brewbaker, Bank of Hawaii, Economics Department.

Table 14.07-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY IN THE UNITED STATES AND ON OAHU: 1981 AND 1996

[Hypothetical budgets for a family of specified characteristics, based on 1972-1973 expenditure patterns as updated by the consumer price index and current tax rates. The 1981 values are official estimates published by the U.S. Bureau of Labor Statistics; the 1996 values are preliminary unofficial estimates prepared by the Bank of Hawaii, using comparable assumptions and methodology. Users of these estimates should bear in mind the limitations imposed by the underlying assumptions and methods]

Item	Urban United States (dollars)		Oahu (dollars)		Oahu as percent of urban U.S.	
	1981	1996	1981	1996	1981	1996
Total budget	25,409	45,809	31,893	61,361	125.5	134.0
Consumption	18,242	32,881	21,530	41,220	118.0	125.4
Food	5,843	9,557	7,626	12,863	130.5	134.6
Food at home	4,866	7,915	6,649	11,199	136.6	141.5
Food away from home	977	1,641	977	1,665	100.0	101.4
Housing	5,547	9,896	6,493	13,185	117.1	133.2
Homeowner shelter costs	4,886	9,213	5,467	11,678	111.9	126.8
Renter shelter costs	2,732	5,297	3,991	8,397	146.1	158.5
Housefurnishings and operations	1,199	1,662	1,395	2,327	116.3	140.0
Transportation	2,372	3,641	2,421	4,225	102.1	116.0
Clothing	1,333	1,843	1,432	1,796	107.4	97.4
Personal care	508	853	590	1,142	116.1	134.0
Medical care	1,443	3,973	1,590	4,179	110.2	105.2
Other family consumption 1/	1,196	3,119	1,378	3,830	115.2	122.8
Other items 2/	1,021	1,762	1,137	2,117	4/ 111.4	120.2
Social Security payments	1,703	3,483	2,049	4,554	120.3	130.8
Personal income taxes 3/	4,443	7,422	7,177	13,600	161.5	183.3

1/ Reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

2/ Includes gifts and contributions, life insurance, and occupational expenses.

3/ 1996 values based on 1992 data.

4/ Revised.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release USDL: 82-139, April 16, 1981); 1996 estimates by Paul H. Brewbaker, Bank of Hawaii, Economics Department, in "Hawaii's Cost of Living in 1990: Urban Four-Person Family Budgets at an Intermediate Standard of Living" (1991), as updated to 1996.

Table 14.08-- COMPARATIVE LIVING COSTS FOR HONOLULU AND OTHER METROPOLITAN AREAS: MARCH-APRIL 1995

[Based on a survey of 400 metropolitan areas. Data exclude housing, transportation, and personal income taxes]

Rank	Metropolitan area	Index 1/
1	New York, N.Y. (Manhattan only) 2/	132.1
2	Honolulu, Hawaii 2/	120.5
3	Washington, D.C.	113.0
4	Anchorage, Alaska	108.0
5	Los Angeles, California	108.0
...	U.S. median	100.0
400	Billings, Montana	91.6

1/ Percent of U.S. median.

2/ For the entire New York MSA, the index was lower than that of Honolulu.

Source: Runzheimer International, cited in *Honolulu Star-Bulletin*, November 14, 1995, p. B-1, and *The Honolulu Advertiser*, November 15, 1995, p. D-1.

**Table 14.09-- INDEXES OF COST OF LIVING FOR SELECTED
MAJOR CITIES WORLDWIDE: 1995, 1996 AND 1997**

City	General index			
	March 1995	Sept. 1995	March 1996	Sept. 1997
Honolulu	100	100	100	100
Beijing/Peking	120	125	125	124
Chicago	106	108	(NA)	(NA)
Hong Kong	139	144	147	150
Los Angeles	104	106	106	(NA)
Manila	78	81	83	70
New York	116	118	120	(NA)
Paris	(NA)	(NA)	(NA)	134
San Francisco	105	106	(NA)	(NA)
Seoul	139	144	137	125
Shanghai	(NA)	(NA)	125	123
Singapore	141	140	(NA)	133
Sydney	109	113	121	113
Taipei	142	(NA)	138	132
Tokyo	259	232	202	183
Vancouver	97	102	101	100
Washington, D.C.	(NA)	(NA)	104	103

NA Not available.

Source: Economic Intelligence Unit, *Worldwide Cost of Living Survey*, report for Hawaii State Department of Business, Economic Development & Tourism, March 1995 and 1996, and September 1995 and 1997.

**Table 14.10-- PAY DIFFERENTIALS AND COST OF LIVING INDEXES FOR
FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.,
BY COUNTY: 1990 TO 1997**

Effective Date	Allowance category 1/	Honolulu	Hawaii	Maui	Kauai
	ALLOWANCE RATES				
February 15, 1990	Local retail 2/	22.5	15.0	20.0	17.5
	Commissary, exchange 2/	12.5	...	20.0	17.5
June 18, 1993	Local retail	22.5	15.0	20.0	17.5
	Commissary, exchange	15.0	...	...	17.5
March 28, 1994	Local retail	22.5	15.0	22.5	20.0
	Commissary, exchange	17.5	...	...	...
October 10, 1995	Local retail	22.5	15.0	22.5	20.0
	Commissary, exchange	17.5	...	...	...
November 21, 1996	Local retail	22.5	15.0	22.5	20.0
	Commissary, exchange	17.5	...	...	...
March 25, 1997	All employees 3/	22.5	15.0	22.5	22.5
December 2, 1997	All employees	22.5	15.0	22.5	22.5
	INDEXES				
March 25, 1997	Cost of Living Index 9/	121.95	119.53	121.36	111.89

1/ Based on access to military commissary and exchange facilities. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, exchange," to Federal employees who have unlimited access to and who use military commissary and exchange facilities.

2/ Authorized allowance rate, expressed as a percentage differential, effective February 15, 1990 and reaffirmed January 8, 1993.

3/ Washington, D.C. living costs=100. Based on a survey of comparative costs for Federal employees in February 1996. The Survey was conducted and indexes calculated by Runzheimer International. The detailed methodology is described in the *Federal Register*: March 25, 1997. For previous Index, see *State of Hawaii Data Book 1996*, Table 14.13.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances," *Federal Personnel Manual System*, FPM Letter 591-51 (1990), "Cost-of-Living Allowances and Post Differentials (Nonforeign Areas); Advance Notice of Proposed Rulemaking; Proposed Rule," *Federal Register*, Vol. 56 No. 38, Part II, February 26, 1991, pp. 7902-7986; and "Cost-of-Living Allowances and Post Differentials (Nonforeign Areas); Final Rule," *Federal Register*, Vol. 57, No. 237, December 9, 1992, pp. 58123-58124; For 1995-97, Federal Register Online via GPO Access <<http://www.wais.access.gpo.gov>>, Ibid. Vol. 60, No. 174, pp. 46749-46750; Ibid. Vol. 61, No. 226, pp. 59173-59178; Ibid. Vol. 62, No. 57, pp. 14187-14189; Ibid. Vol. 62, No. 231, pp. 63630-63631.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks, savings and loans, and other financial institutions, insurance, fires, and business firms.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs, the Hawaii State Department of Taxation, county fire departments, major island banks, Dun and Bradstreet, Inc., local health insurance plans, the Hawaii Credit Union League, the *1992 Census of Financial, Insurance, and Real Estate Industries*, and the annual report on *County Business Patterns* issued by the U.S. Bureau of the Census. *Historical Statistics of Hawaii*, Sections 22 and 23, provides information for earlier periods. Comparable national data appear in Sections 16 and 17 of the *Statistical Abstract of the United States: 1997*.

**Table 15.01-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES:
1987 TO 1997**

[Includes main offices, but excludes out-of-State branches of Hawaii-based institutions.
As of December 31]

Type of charter, island, and year	Banks		Savings and loan associations		Trust companies		Financial services loan companies	
	Firms	Locations	Associations	Locations	Firms	Locations	Firms	Locations
1987	10	185	7	148	3	6	64	199
1988	10	182	7	158	4	7	54	185
1989	10	188	7	152	3	6	52	192
1990	10	190	6	146	4	7	46	186
1991	10	188	6	135	4	6	45	187
1992	8	181	6	142	4	6	42	185
1993	8	179	6	146	4	7	66	160
1994	7	184	6	154	1	3	41	155
1995	6	190	6	159	1	3	40	164
1996	6	191	6	161	1	3	42	167
1997	6	191	4	121	-	-	40	157
TYPE OF CHARTER: 1997								
Federal	1	12	2	94	-	-	-	-
State	5	179	2	27	-	-	40	157
ISLANDS: 1997								
Hawaii	5	26	3	10	-	-	10	19
Maui	5	21	4	12	-	-	10	15
Lanai	2	2	1	1	-	-	-	-
Molokai	1	1	1	1	-	-	1	1
Oahu	6	127	4	89	-	-	36	112
Kauai	3	14	3	8	-	-	8	10
Niihau	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

**Table 15.02-- FINANCE, INSURANCE, AND REAL ESTATE
ESTABLISHMENTS WITH PAYROLL AND EMPLOYMENT: 1995**

SIC code	Major group	Establish- ments	Employment, March 12
	Total	3,845	38,917
60	Depository institutions	594	12,747
602	Commercial banks	305	8,943
603	Savings institutions	123	1,834
606	Credit unions	131	1,333
61	Nondepository institutions	231	1,496
62	Security and commodity brokers	100	803
63	Insurance carriers	152	4,445
64	Insurance agents, brokers and service	351	2,912
65	Real estate	2,281	15,480
67	Holding and other investment offices	126	821
-	Administrative and auxiliary	10	213

Source: U.S. Bureau of the Census, *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), p. 10.

Table 15.03-- CHARACTERISTICS OF FINANCIAL, INSURANCE, AND REAL ESTATE INDUSTRIES: 1992

SIC code	Kind of business	Establishments	Revenue (mil. dol.)	Annual payroll (mil. dol.)	Paid employees 1/
60	Depository institutions	575	2,503	349	12,512
61	Nondepository credit institutions	219	292	65	1,573
62	Security and commodity brokers, dealers, exchanges, and services	82	92	38	611
63	Insurance carriers	138	2,363	135	4,477
64	Insurance agents, brokers, and services	375	216	80	2,663
65	Real estate	2,452	1,842	352	14,911
67	Holding and other investment offices 2/	114	774	24	453

1/ Pay period including March 12.

2/ Data exclude SIC 673, trusts.

Source: U.S. Bureau of the Census, *1992 Census of Financial, Insurance, and Real Estate Industries, Summary*, FC92-A-1 (March 1995), table 1.

**Table 15.04-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS:
1985 TO 1995**

[In millions of dollars. As of December 31]

Year	Deposits 1/			Debits to bank demand deposits 2/	Loans 1/	
	All financial institutions	Bank demand deposits 2/			All financial institutions	Banks 2/
		Private	Other			
1985	12,814.0	1,520.4	7,153.8	95,870.4	8,676.4	5,559.9
1986	14,268.6	1,947.5	7,860.2	109,927.9	9,347.9	6,195.8
1987	16,496.3	1,864.2	8,878.9	121,926.3	12,569.4	7,019.8
1988	18,756.2	2,006.0	10,175.3	130,612.3	15,156.5	8,466.4
1989	21,586.3	2,290.7	12,319.6	172,698.3	17,300.3	9,874.5
1990	23,829.2	2,443.2	13,874.8	217,639.4	19,565.5	11,826.9
1991	24,118.6	2,438.9	13,751.6	239,886.5	20,774.5	13,005.9
1992	23,816.0	2,548.2	12,794.2	(NA)	21,026.7	13,660.2
1993	22,619.1	2,653.0	11,667.0	(NA)	22,489.7	13,826.5
1994	22,377.1	2,414.8	11,557.1	(NA)	25,269.3	14,661.8
1995	23,062.5	2,562.4	11,815.3	(NA)	27,110.7	13,526.7

NA Not available.

1/ Revised.

2/ Interbank and public demand deposits included in "other." Out-of-State branches of Hawaii banks are included.

Source: Bank of Hawaii, *Hawaii 1997* (1997), p. 39.

Table 15.05-- CHARACTERISTICS OF STATE-CHARTERED FINANCIAL INSTITUTIONS, BY TYPES: 1995 TO 1997

[Includes out-of-State branches and facilities. As of December 31]

Subject	1995	1996	1997
BANKS			
Number of banks	5	5	5
Number of branches and facilities	199	205	197
Assets (million dollars)	20,259.4	20,697.0	21,468.4
Deposits (million dollars)	13,148.8	14,032.8	14,541.4
SAVINGS AND LOAN ASSOCIATIONS			
Number of associations	2	2	2
Number of branches and facilities	23	24	25
Assets (million dollars)	1,024.8	972.7	1,051.4
Withdrawable shares (million dollars)	619.2	654.0	730.5
TRUST COMPANIES			
Number of companies	1	1	-
Number of branches and facilities	3	3	-
Assets (million dollars)	86.2	75.5	-
FINANCIAL SERVICES LOAN COMPANIES			
Number of companies	41	42	40
Number of branches	127	129	125
Assets (million dollars)	3,578.5	3,628.7	3,372.2

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, *Comparative Statements of Condition* (semi-annual); Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

Table 15.06-- CHARACTERISTICS OF BANKS: SEPTEMBER 30, 1997

[Data for banks headquartered in Hawaii; includes their out-of-State branches and facilities.
Excludes data for banks with branches and facilities in Hawaii but headquartered outside Hawaii. Covers 14 banks with 8,875 employees]

Subject	Million dollars	Subject	Percent of loans
ASSETS AND LIABILITIES		ASSET QUALITY OF LARGE COMMERCIAL BANKS	
Assets	22,499	Loan loss reserve	1.75
Loans	15,122	Net chargeoffs	0.46
Investment securities	4,589	Past due and non-accrual	2.64
Liabilities	20,524	Real estate	3.10
Deposits	15,398	Commercial	1.90
Other borrowings	3,477	Consumer	3.96
Equity capital	1,975	Agricultural	18.69
Loan loss reserve	265		
Unused commitments	9,825		

Source: Federal Reserve Bank of San Francisco, records.

Table 15.07-- CREDIT UNIONS: 1992 TO 1997

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1992	124	3,450,420,974	3,104,578,070	540,758
1993	121	3,521,731,577	3,145,679,650	549,808
1994	116	3,462,241,524	3,049,504,597	556,969
1995	116	3,443,396,724	2,999,651,425	558,874
1996	113	3,474,986,063	2,994,177,447	561,207
1997	113	3,590,818,327	3,079,347,098	569,682

Source: Hawaii Credit Union League, records.

**Table 15.08-- INSURANCE BUSINESS TRANSACTED IN HAWAII:
1991 TO 1996**

[Includes data for all insurance companies, life or other, licensed in Hawaii]

Year	Number of companies licensed, Dec. 31	Premiums paid (\$1,000)	Losses, claims and benefits paid (\$1,000)	Cumulative net investments in Hawaii Dec. 31 1/ (\$1,000)
1991	829	1,927,638	1,094,837	3,156,730
1992	835	1,984,304	1,901,549	3,380,087
1993	863	2,103,143	1,761,801	4,263,248
1994	899	2,219,018	1,169,001	4,127,866
1995	2/ 922	2,307,514	1,274,272	3,592,679
1996	935	2,195,342	1,305,200	3,107,183

1/ Excludes bank balances.

2/ Revised.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii* (annual).

**Table 15.09-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII:
1991 TO 1996**

[Includes fraternal benefit societies]

Year	Number of companies licensed in Hawaii, Dec. 31	Face value of policies written 1/ (\$1,000)	Insurance in force, Dec. 31 2/ (\$1,000)	Premiums 2/ (\$1,000)	Losses, claims, and benefits paid 2/ (\$1,000)
1991	468	3,982,037	39,067,088	371,188	307,872
1992	468	5,181,487	48,994,610	382,367	285,158
1993	468	3/ 9,044,931	3/ 51,739,074	401,726	330,975
1994	486	3/ 9,448,181	3/ 56,757,181	418,684	188,704
1995	4/ 486	3/ 7,844,654	3/ 56,572,022	504,683	457,824
1996	490	3/ 8,851,486	3/ 58,303,390	463,876	558,922

1/ Includes insurance revived, increased, or transferred.

2/ Excludes annuities.

3/ Data not audited.

4/ Revised.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii* (annual), and records.

Table 15.10-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1996

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	2,195,342,168	1,305,200,307
Life 1/ Fraternal	459,535,594 4,340,154	555,804,615 3,117,430
Fire, marine, casualty, and miscellaneous:		
Accident and health	178,330,839	89,283,090
Fire	29,612,454	2,386,475
Allied lines	17,210,323	3,024,905
Multiple peril crop	386,207	-
Farmowners multiple peril	154,500	96,789
Homeowners multiple peril	123,354,599	23,132,461
Commercial multiple peril (fire & allied lines)	62,486,494	8,649,002
Commercial multiple peril (liability portion)	55,882,561	14,655,202
Mortgage guaranty	10,486,555	1,519,276
Ocean marine	6,692,233	2,665,574
Inland marine	22,212,722	10,371,182
Financial guaranty	2,673,943	-
Medical malpractice	19,819,522	13,343,792
Earthquake	1,391,080	20,511
Workers' compensation	269,029,307	163,537,981
Other liability	98,923,571	55,216,804
Products liability	9,145,697	3,765,634
Private passenger auto no-fault	131,473,035	69,717,549
Other private passenger auto liability	289,808,834	143,115,588
Commercial auto no-fault	7,806,871	6,441,898
Other commercial auto liability	72,067,187	36,097,733
Private passenger auto physical damage	138,763,898	67,159,458
Commercial auto physical damage	17,009,098	7,549,228
Aircraft	8,053,441	1,809,320
Fidelity	5,205,337	2,361,946
Surety	18,486,277	4,069,539
Glass	62,795	5,859
Burglary and theft	298,406	84,783
Boiler and machinery	2,602,732	831,610
Credit	2,324,597	757,093
Title	27,246,277	3,688,586
All other	12,803,437	6,714,729
Surplus lines	89,661,591	4,204,665

1/ Excludes annuities.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1997*, p. 8.

**Table 15.11-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY
LOCATION OF HOME OFFICE: 1996**

[Money amounts in millions of dollars. For all insurance companies licensed to do business in Hawaii]

Subject	All companies	Domestic com- panies 1/	Foreign com- panies 2/	Alien com- panies 3/ (U.S. business only)
Number of companies, Dec. 31	935	20	901	14
Life incl. Fraternal Benefit Societies	490	6	477	7
Other than life	445	14	424	7
Financial condition, Dec. 31:				
Assets	2,779,990.4	1,284.9	2,755,949.2	22,756.3
Liabilities exc. capital and surplus	2,443,587.3	891.4	2,423,352.7	19,343.2
Policyholders' surplus incl. capital	336,403.1	393.5	332,596.5	3,413.1
Capital	6,537.7	46.4	6,491.3	-
Net gain or loss	36,862.7	47.2	36,318.0	497.5
Hawaii business:				
Direct premiums written	2,351.2	488.7	1,795.3	67.2
Claims and benefits paid	1,487.8	244.2	1,209.8	33.7
Investments in Hawaii, Dec. 31	3,107.2	182.4	2,890.0	34.8
Mortgage loans (principal indebtedness)	518.7	108.4	410.4	0.02
Collateral loans (amount loaned)	9.1	5.7	3.3	-
State and county bonds 4/	1,113.5	20.2	1,072.8	20.5
Utilities stocks and bonds 4/	308.1	0.3	307.2	0.6
Industrial and misc. stocks and bonds 4/	1,096.7	30.2	1,052.9	13.7
Real estate 5/	61.0	17.7	43.3	-
Balances in Hawaii banks	409.3	30.5	378.7	-

1/ A domestic insurer is one formed under the laws of Hawaii.

2/ A foreign insurer is one formed under the laws of any State of the United States (including the District of Columbia and Commonwealth of Puerto Rico) other than Hawaii.

3/ An alien insurer is one formed under the laws of a nation other than the United States.

4/ Market value.

5/ Market value less encumbrances.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1997*, pp. 15-49.

Table 15.12-- PERCENT OF PERSONS NOT COVERED BY HEALTH INSURANCE: 1992 TO 1996

[This survey does not adequately reflect health insurance coverage through State-specific plans, such as Hawaii's, because the same questions are used for every State]

Subject	1992	1993	1994	1995	1996
Percent not covered 1/	6.1	11.1	9.2	8.9	8.6
Standard error	0.9	1.2	1.1	1.1	1.2
Rank 2/	1	7	4	5	2

1/ The 1996 U.S. percentage was 15.6.

2/ Among 50 states, with lowest percentage ranking 1.

Source: U.S. Bureau of the Census, "Money Income of Households, Families, and Persons in the United States: 1992," *Current Population Reports, Consumer Income*, Series P-60, No. 184, September 1993, table E; Release CB94-159 (October 6, 1994); Release CB95-185 (October 5, 1995); and "Health Insurance Coverage: 1995," *Current Population Reports, Household Economic Studies*, P60-195 (Sept. 1996), table 1; at <http://www.census.gov/hhes/hlthins/cover96/c96tabf.html>.

Table 15.13-- HEALTH PLANS: 1994 TO 1997

Subject	1994	1995	1996	1997
Hawaii Medical Service Association: 1/ Persons covered, Dec. 31 2/ Membership dues 3/ (\$1,000)	754,264 1,092,903	749,600 1,209,241	639,400 1,090,943	614,461 1,147,735
Queen's Health Plans 4/ Persons covered, Dec. 31 2/ Membership dues 3/ (\$1,000)	15,438 20,281	13,393 21,513	33,734 62,892	41,541 66,310
Kaiser Foundation Health Plan: Persons covered: 2/ Annual average Dec. 31 Membership dues 3/ (\$1,000)	189,070 186,996 276,028	185,643 186,066 286,370	191,956 195,607 297,738	203,696 209,756 313,272
Commercial carrier premiums for accident and health insurance (\$1,000)	157,889	163,023	178,331	(NA)

NA Not available

1/ Includes both Straub Health Plan and Pacific Healthcare.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Includes both employers' and employees' contributions.

4/ Includes Queen's Island Care, Queen's Hawaii Care and Queen's Preferred Plan. Figures for 1994 and 1995 are for Queen's Island Care only. Queen's Hawaii Care began in August 1994 and Queen's Preferred Plan began in March 1997.

Source: Data provided by Hawaii Medical Service Association, Queen's Health Plans, and Kaiser Foundation Health Plan, Inc.; Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner* (annual).

Table 15.14-- AVERAGE EXPENDITURES AND PREMIUMS FOR PERSONAL AUTOMOBILE INSURANCE, FOR THE UNITED STATES AND HAWAII: 1991 TO 1995

Year	Average expenditures 1/			Combined average premiums 2/		
	United States (dollars)	Hawaii		United States (dollars)	Hawaii	
		Average (dollars)	Rank 3/		Average (dollars)	Rank 3/
1991	4/ 596.44	874.25	2	4/ 685.56	999.01	1
1992	4/ 617.65	974.39	1	4/ 711.75	1,099.65	2
1993	637.72	953.08	2	730.39	1,078.32	2
1994	650.17	961.59	2	741.63	1,090.32	2
1995	665.52	963.08	2	757.43	1,094.02	2

1/ Total written premiums for all coverages divided by the liability written car years. Assumes that all insured vehicles carry liability coverage but do not necessarily carry collision and/or comprehensive coverage.

2/ Average premiums for each of the major coverages (liability, comprehensive, and collision) added together to estimate the representative average premium for an insured vehicle carrying all coverages.

3/ Among 50 States and D.C.

4/ Revised.

Source: National Association of Insurance Commissioners, *State Average Expenditures & Premiums for Personal Automobile Insurance in 1995* (January 1997), tables 2 and 3.

**Table 15.15-- FIRES, DEATHS, AND LOSSES REPORTED BY COUNTY
FIRE DEPARTMENTS: 1993 TO 1997**

[Years ended June 30]

Subject and year	State total	Honolulu	Hawaii	Kauai	Maui
Number of fires:					
1993	6,379	4,939	710	302	428
1994	5,823	4,478	555	318	472
1995	4,919	3,409	597	316	597
1996	4,134	2,818	561	194	561
1997	3,721	2,623	463	144	491
Fire deaths:					
1993	4	2	2	-	-
1994	-	-	-	-	-
1995	4	-	4	-	-
1996	9	3	5	1	-
1997	12	11	-	-	1
Fire losses (\$1,000):					
1993	19,320	12,992	3,203	865	2,260
1994	17,279	10,488	2,527	1,210	3,054
1995	29,502	18,665	6,424	1,315	3,098
1996	23,613	14,993	4,311	1,622	2,687
1997	26,646	17,333	4,918	1/ 587	3,808

1/ Fire losses includes investigated structural fires only. No estimated loss available for non-structural fires or structural fires that were not investigated.

Source: Compiled by Hawaii State Department of Business, Economic Development & Tourism from Honolulu Fire Department, Hawaii County Fire Department, Kauai Fire Department, and Maui County Department of Fire Control.

**Table 15.16-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS:
1985 TO 1995**

[Data refer to establishments with taxable payrolls. Coverage excludes government and self-employed workers]

Year	Number of employees 1/	Payroll (\$1,000)		Number of establishments by employment-size class 2/			
		First quarter	Annual	Total	1 to 4	5 to 9	
1985	331,196	1,268,106	5,271,750	25,742	14,058	5,261	
1986	345,167	1,382,381	5,790,531	26,212	14,070	5,474	
1987	363,491	1,506,971	6,304,798	27,281	14,508	5,705	
1988	382,943	1,710,738	7,242,782	27,938	14,570	5,971	
1989	410,745	1,924,365	8,253,134	28,443	14,736	6,006	
1990	432,663	2,157,724	9,296,865	29,313	15,243	6,064	
1991	442,743	2,341,662	9,893,345	29,736	15,082	6,392	
1992	449,173	2,490,029	10,470,074	30,467	15,567	6,479	
1993	435,907	2,480,288	10,552,017	30,157	15,456	6,383	
1994	425,987	2,538,482	10,551,036	29,995	15,548	6,326	
1995	423,822	2,611,193	10,695,990	29,942	15,599	6,305	
	Number of establishments by employment-size class 2/--Con.						
Year	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more
1985	3,181	2,084	734	314	58	37	15
1986	3,306	2,128	784	331	68	33	18
1987	3,515	2,246	804	388	62	34	19
1988	3,684	2,379	814	386	77	36	21
1989	3,805	2,443	874	427	86	40	26
1990	3,881	2,619	878	467	93	41	27
1991	4,000	2,715	924	452	100	45	26
1992	4,135	2,737	932	441	99	51	26
1993	4,113	2,704	907	428	99	40	27
1994	4,088	2,602	876	389	94	47	25
1995	4,064	2,515	895	394	102	45	23

1/ For week including March 12.

2/ Data refer to establishments active anytime during the year.

Source: U.S. Bureau of the Census, *County Business Patterns* (annual).

**Table 15.17-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
COUNTIES: 1994 AND 1995**

[Excludes government employees and self-employed persons]

Year and county	Number of establishments 1/	Number of employees 2/	Payroll (\$1,000)	
			First quarter	Annual
1994				
State total	29,995	425,987	2,538,482	10,551,036
Hawaii	3,634	39,095	198,786	812,824
Honolulu	21,063	322,378	2,003,798	8,337,439
Kauai	1,719	(D)	(D)	(D)
Maui	3,578	46,502	244,847	1,021,892
Statewide	1	(D)	(D)	(D)
1995				
State total	29,942	423,822	2,611,193	10,695,990
Hawaii	3,649	37,217	194,117	796,388
Honolulu	21,004	322,339	2,074,582	8,496,193
Kauai	1,649	(D)	(D)	(D)
Maui	3,639	46,141	250,131	1,024,023
Statewide	1	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

Source: U.S. Bureau of the Census, *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), p. 19, table 1e.

**Table 15.18-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
MAJOR INDUSTRY GROUP: 1995**

[Excludes government and self-employed workers. Based on 1987 Standard Industrial Classification Manual and thus not comparable to 1987 and earlier data reported in previous editions, which were based on the 1972 SIC Manual]

Major industry group	Number of establishments 1/	Number of employees 2/	Annual payroll (\$1,000)
Total	29,942	423,822	10,695,990
Agricultural services, forestry, fishing	359	2,717	58,988
Mining	7	217	9,859
Construction	2,443	25,943	999,192
Manufacturing 3/	956	17,067	495,958
Food and kindred products	213	6,491	160,550
Apparel and other textile products	143	1,878	32,894
Printing and publishing	184	3,191	106,196
Transportation and public utilities	1,566	41,693	1,324,939
Wholesale trade	2,213	22,304	675,763
Retail trade 3/	8,034	110,914	1,789,910
Food stores	928	13,621	233,667
Eating and drinking places	2,641	46,527	572,354
Finance, insurance, real estate	3,845	38,917	1,191,584
Services 3/	10,353	163,866	4,144,604
Hotels and other lodging places	283	34,134	750,225
Health services	2,420	38,531	1,355,906
Unclassified establishments	166	184	5,193

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 1995 Hawaii*, CBP-95-13 (October 1997), table 1a, pp. 1-2.

Table 15.19-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1994 AND 1995

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments		Number of employees		Annual payroll (\$1,000)	
	1994	1995	1994	1995	1994	1995
Total	29,995	29,942	425,987	423,822	10,551,036	10,695,990
1 to 4	15,548	15,599	28,578	28,555	794,534	817,009
5 to 9	6,326	6,305	41,828	41,706	938,940	952,014
10 to 19	4,088	4,064	55,181	54,856	1,257,704	1,270,206
20 to 49	2,602	2,515	78,603	76,176	1,805,761	1,780,888
50 to 99	876	895	59,195	60,295	1,416,835	1,447,578
100 to 249	389	394	57,255	57,732	1,506,885	1,553,812
250 to 499	94	102	31,937	34,550	764,617	845,454
500 to 999	47	45	32,877	31,969	829,601	869,320
1,000 or more	1/ 25	2/ 23	40,533	37,983	1,236,159	1,159,709

1/ 1,000-1,499 employees, 15 establishments; 1,500-2,499 employees, 8 establishments; 2,500-4,999 employees, 2 establishments.

2/ 1,000-1,499 employees, 13 establishments; 1,500-2,499 employees, 8 establishments; 2,500-4,999 employees, 2 establishments.

Source: U.S. Bureau of the Census, *County Business Patterns 1994, Hawaii*, CBP-94-13 (September 1996), pp. 3, 14, and 18, and *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), pp. 3, 14, and 18.

**Table 15.20-- CHARACTERISTICS OF BUSINESS AND PROFESSIONAL
FIRMS, BY COUNTIES: 1997**

Characteristic	State total	Honolulu	Maui	Kauai	Hawaii
All businesses	40,906	27,570	5,913	2,535	4,888
Business type, total 1/	22,849	15,681	3,046	1,440	2,687
Corporation	16,841	11,671	2,346	923	1,906
Partnership	874	588	106	73	107
Proprietorship	5,134	3,422	594	444	674
Employees, total 1/	19,625	14,408	2,059	1,142	2,020
1 to 4	10,074	7,136	1,116	697	1,126
5 to 9	3,896	2,909	402	196	392
10 to 19	2,434	1,846	245	109	234
20 to 49	1,833	1,405	169	83	176
50 to 99	727	576	68	33	50
100 to 199	346	284	30	11	21
200 to 499	185	142	17	10	16
500 to 999	64	49	9	2	4
1,000 and over	66	61	3	1	1
Sales volume, total 1/	14,695	11,022	1,384	784	1,509
Under \$500,000	9,207	6,790	804	528	1,089
\$500,000 to \$999,999	2,096	1,582	209	109	196
\$1.0 to \$4.9 million	2,129	1,631	247	104	147
\$5.0 to \$9.9 million	452	346	58	14	34
\$10.0 to \$24.9 million	365	296	35	18	16
\$25.0 million and over	446	377	31	11	27
Year established, total 1/	21,893	16,390	2,120	1,166	2,220
1821 to 1849	25	14	3	2	6
1850 to 1899	156	106	16	12	22
1900 to 1949	1,327	956	113	73	185
1950 to 1959	1,278	1,031	83	54	110
1960 to 1969	2,637	2,110	209	98	220
1970 to 1979	5,969	4,411	676	259	623
1980 to 1989	7,759	5,688	710	522	841
1990 and later	2,742	2,074	310	146	213

1/ Distributions exclude non-responding firms and those for which item (typically sales volume) was not applicable.

Source: CD Systems Corp., *Hawaii Business Directory 1997* (June 1997), pp. ix, xi, xxxiii.

**Table 15.21-- REGISTERED CORPORATIONS AND PARTNERSHIPS:
1994 TO 1997**

[Excludes eleemosynary corporations]

Subject	1994	1995	1996	1997
Domestic (Hawaii) corporations:				
Formed 1/	3,444	3,746	3,860	3,331
Dissolved or merged 2/	2,553	2,665	2,734	2,744
On record, June 30 3/	35,240	36,384	37,488	38,185
Foreign (non-Hawaii) corporations:				
Qualified 1/	772	815	830	939
Withdrawn, merged, or cancelled 2/	326	344	366	370
On record, June 30 3/	6,564	6,814	7,033	7,452
Partnerships:				
Registered 1/	1,208	1,402	1,432	1,141
Dissolved or cancelled 2/	1,259	1,179	1,149	1,126
On record, June 30 3/	8,108	8,245	8,379	8,342
Domestic (Hawaii) Limited Liability Companies: 4/				
Formed 1/	-	-	-	143
Dissolved or merged 2/	-	-	-	-
On record, June 30 3/	-	-	-	143
Foreign (non-Hawaii) Limited Liability Companies: 4/				
Qualified 1/	-	-	-	32
Withdrawn or merged 2/	-	-	-	-
On record, June 30 3/	-	-	-	32
Domestic (Hawaii) Limited Liability Partnerships: 4/				
Formed 1/	-	-	-	8
Dissolved or merged 2/	-	-	-	-
On record, June 30 3/	-	-	-	8
Foreign (non-Hawaii) Limited Liability Partnerships: 4/				
Qualified 1/	-	-	-	-
Withdrawn or cancelled 2/	-	-	-	-
On record, June 30 3/	-	-	-	-

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

3/ Number on record may be inconsistent with data on components of changes, reflecting inaccuracy in manual tabulation.

4/ The Limited Liability Company Act and the Hawaii Limited Liability Partnership Act were signed into law effective April 1, 1997. Data cover the period April 1 to June 30, 1997.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Div., records.

**Table 15.22-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS,
AND PROPRIETORSHIPS: 1987, 1989, AND 1992**

[Money amounts in millions of dollars]

Subject	1987	1989	1992 1/
CORPORATIONS 2/			
Number of corporations	19,493	20,776	23,777
Taxable	9,404	9,969	9,724
Nontaxable	10,089	10,807	13,322
Business receipts	26,583	33,383	40,540.6
Taxable corporations	17,753	20,435	21,963.1
Nontaxable corporations	8,830	12,948	18,577.5
Taxable income, excluding net losses 3/	1,114.3	1,614.1	1,370.0
PARTNERSHIPS			
Number of partnerships	6,752	6,274	5,855
With net profit	3,697	3,853	3,279
With net loss	3,055	2,421	2,252
Number of partners	146,170	219,388	193,063
Business receipts	3,510.2	4,089.7	6,306.3
Businesses with net profit	2,800.5	3,272.9	4,656.4
Businesses with net loss	709.7	816.8	1,649.9
Net profit reported	906.0	1,425.9	1,133.8
Net loss reported	548.5	578.9	1,155.5
PROPRIETORSHIPS			
Number of proprietorships	61,733	65,561	75,054
With net profit	46,870	49,716	51,260
With net loss	14,863	15,845	20,127
Business receipts	1,767.7	2,078.2	2,396.8
Businesses with net profit	1,584.4	1,857.5	2,071.4
Businesses with net loss	183.3	220.7	531.5
Net profit reported	444.2	635.1	659.5
Net loss reported	66.4	60.2	96.3

1/ Data for items other than total numbers of corporations, partnerships, and proprietorships exclude Kauai County.

2/ Includes domestic, foreign, and small business corporations.

3/ Includes taxable income reported by small business corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Corporation, Proprietorship, Partnership* (biennial), and records.

Table 15.23-- LARGEST PUBLIC AND PRIVATE COMPANIES: 1996

[Data may include sales and employment on the Mainland or abroad]

Rank in sales	Company	Year founded 1/	Sales (million dollars)	Employees
1	Dole Food Co. Inc.	1851	3,840	46,000
2	Hawaiian Electric Industries Inc.	1891/1983	1,411	3,327
3	Alexander & Baldwin Inc.	1870/1900	1,233	2,960
4	Pacific Century Financial Corp. 2/	1897/1971	1,153	5,023
5	Hawaii Medical Service Assn. (HMSA)	1938	1,091	1,600
6	BHP Hawaii Inc.	1904	1,072	1,000
7	First Hawaiian Inc.	1858/1974	676	3,384
8	DFS Hawaii	1962	650	1,750
9	GTE Hawaiian Tel	1883	635	2,800
10	Chevron USA Products Co. (Hawaii Region)	1904	588	192

1/ If two years or more are given, the first is the founding date of the original company, the second is when it became a holding company, was sold, or legally changed its name.

2/ Previously ranked as Bancorp Hawaii Inc.

Source: "Hawaii Business Top 250," *Hawaii Business*, August 1997, p. 70.

**Table 15.24-- NET INCOME OR LOSS AND TOTAL REVENUES OF
SELECTED COMPANIES: 1995 AND 1996**

[Based on 1996 ranks for reporting companies]

Company	Net income or loss (\$1,000)		Sales (\$1,000,000)	
	1995	1996	1995	1996
Largest net incomes:				
Pacific Century Financial Corp. 1/	121,800	133,120	1,043.1	1,153.1
Dole Food Co. Inc.	23,331	89,031	3,803.8	3,840.3
First Hawaiian Inc.	77,005	80,296	654.8	676.5
Largest net losses:				
Hawaiian Airlines, Inc.	(5,506)	(2,299)	346.9	384.4
Maui Land & Pineapple Co., Inc.	(1,559)	(747)	125.6	136.3

1/ Previously ranked as Bancorp Hawaii Inc.

Source: "Hawaii Business Top 250," *Hawaii Business*, August 1997, p. 56.

**Table 15.25-- ULTIMATE PARENT COMPANIES HEADQUARTERED IN
HAWAII: 1995**

Category and name 1/	Ultimate parent companies 2/	Subsidiaries 3/			
		Total	In Hawaii	U.S. Mainland	Abroad
Total	64	307	270	25	12
With subsidiaries outside Hawaii	16	108	71	25	12
Alexander & Baldwin	1	27	14	7	6
Bancorporation Hawaii	1	18	15	1	2
Cutter Management Co. Inc.	1	11	10	1	-
With subsidiaries in Hawaii only	48	199	199	-	-

1/ Shown separately for ultimate parent companies with 10 or more subsidiaries.

2/ An ultimate parent company is the topmost U.S. company within the hierarchal structure of an entire organization meeting all of the following criteria: (1) two or more business locations; (2) 250 or more employees at that location, or \$25,000,000 or more in sales volume, or a tangible net worth greater than \$500,000; (3) controlling interest in one or more subsidiary companies.

3/ All subsidiaries in the hierarchy of an ultimate parent.

Source: Dun & Bradstreet, Inc, *America's Corporate Families 1995*, Vol. I, II, III.

Table 15.26-- BUSINESS CLIMATE INDEXES: 1993 TO 1997

Index	1993	1994	1995	1996		1997	
				Index	Rank	Index	Rank
Economic performance	A	A	A	B	14	C	23
Business vitality	F	F	F	F	50	F	48
Development capacity	B	B	B	C	21	B	20

Source: The Corporation for Enterprise Development, *The 1997 Development Report Card for the States* (11th ed., 1997), pp. 15, 17, 19.

Table 15.27-- MINORITY-OWNED BUSINESS ENTERPRISES: 1987 AND 1992

[Firms are classified as minority-owned if the sole owner or at least half of the partners or shareholders are members of specified minority groups]

Year and characteristics	All firms 1/	Firms owned by minorities 2/		
		Black-owned	Hispanic-owned 3/	Owned by Asians and others 4/
1987				
All firms:				
Number	60,928	399	1,226	31,406
Sales and receipts (\$1,000)	6,522,000	12,310	58,098	1,662,269
1992				
All firms:				
Number	79,050	717	3,192	38,392
Sales and receipts (\$1,000)	10,724,000	27,382	187,717	4,766,788
Firms with paid employees:				
Number	10,420	42	277	5,301
Sales and receipts (\$1,000)	8,806,000	16,794	131,663	3,804,639
Employees	99,280	211	2,357	42,461
Annual payroll (\$1,000)	1,799	2,513	39,300	724,331

1/ Whether or not owned by minorities.

2/ Persons of mixed race were instructed to report the race they most closely identified with. Whites (Caucasians), although only 33.4 percent of the 1990 population of Hawaii, were treated as a non-minority group for census purposes.

3/ Persons of Hispanic origin may be members of any race.

4/ Asians, Pacific Islanders (including Hawaiians), American Indians, and Alaska Natives. State detail for individual races is not available. For the United States as a whole, Hawaiians owned 11,587 firms with gross receipts of \$1,058,332,000.

Source: U.S. Bureau of the Census, *1992 Economic Census, Survey of Minority-Owned Business Enterprises, Black*, MB92-1 (Jan. 1996), tables 2 and 11; *Hispanic*, MB92-2 (June 1994), tables 3 and 14; *Asians and Pacific Islanders, American Indians, and Alaska Natives*, MB92-3 (July 1996), tables A, 2, and 11; DBED, *Data Book 1991*, table 442.

Table 15.28-- WOMEN-OWNED BUSINESSES: 1987 AND 1992

Subject	Total firms	Women-owned firms 1/	Percent women-owned 1/
1987			
All firms:			
Number	60,928	21,696	35.6
Sales and receipts 2/	6,522	856,930	13.1
1992			
All firms:			
Number	79,050	29,743	37.6
Sales and receipts 2/	10,724	2,574,800	24.0
Firms with paid employees:			
Number	10,420	3,089	29.6
Sales and receipts 2/	8,806	2,044,345	23.2
Employees	99,280	25,937	26.1
Annual payroll 2/	1,799	421,866	23.5

1/ A firm is classified as women-owned if the sole proprietor or at least half of the partners or shareholders were women.

2/ Dollar amounts in millions for total firms and thousands for women-owned firms.

Source: U.S. Bureau of the Census, *1992 Economic Census, WB92-1, Women-Owned Businesses* (Jan. 1996), tables 2 and 11; DBED, *Data Book 1993-94*, table 15.26.

Table 15.29-- BUSINESS FAILURES, BY INDUSTRY SECTOR: 1994 TO 1997

Industry sector	1994	1995	1996 1/	1997
Firms, all sectors	258	270	396	630
Agriculture, forestry, fishing	6	7	17	(NA)
Mining	-	-	-	(NA)
Construction	25	34	41	(NA)
Manufacturing	8	14	7	(NA)
Transportation, public utilities	19	7	31	(NA)
Wholesale trade	14	23	15	(NA)
Retail trade	44	59	82	(NA)
Finance, insurance, real estate	13	18	30	(NA)
Services	53	103	168	(NA)
Unclassifiable	76	5	5	(NA)

NA Not available.

1/ Preliminary.

Source: The Dun & Bradstreet Corporation, *Business Failure Record* (annual); American City Business Journals Inc., *Pacific Business News*, No. 53, March 16, 1998, p. 2.

Section 16

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the Postal Service and of various communications media: telephone, radio, television, newspapers, periodicals, and books. Sections 12 and 15 contain employment and payroll data for communications establishments.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, Hawaii State Department of Commerce and Consumer Affairs, GTE Hawaiian Telephone Company, Audit Bureau of Circulations, and the Nielsen Station Index. Earlier figures appear in *Historical Statistics of Hawaii*, Section 18. Data on communications for other states and for the nation as a whole are presented in the *Statistical Abstract of the United States: 1997*, Section 18.

Table 16.01-- COMMUNICATION AND RELATED ESTABLISHMENTS: 1995

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
27	Printing and publishing	184	482	Telegraph & other	3
271	Newspapers	27	483	Radio, TV broadcast	55
272	Periodicals	27	484	Cable, other pay TV	19
273	Books	14	489	Commun. services, n.e.c.	7
274	Miscell. publishing	11	5942	Book stores	67
48	Communication	220	731	Advertising	76
481	Telephone	130	7311	Advertising agencies	63

Source: U.S. Bureau of the Census, *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), table 1b.

**Table 16.02-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS:
SEPTEMBER 30, 1997**

Island	Total	Post offices			Stations	
		1st class	2nd class	3rd class	Classified 1/	Contract 2/
State total	131	33	27	12	34	25
Hawaii	34	7	13	5	2	7
Maui	13	9	1	-	2	1
Lanai	1	-	1	-	-	-
Molokai	5	1	-	4	-	-
Oahu	58	12	4	1	27	14
Kauai	20	4	8	2	3	3
Niihau 3/	-	-	-	-	-	-

1/ Staffed by career postal employees.

2/ Operated under a contractual agreement between the Postal Service and an individual contractor.

3/ Niihau is served by the Makaweli Post Office on Kauai.

Source: U.S. Postal Service, Honolulu District, records.

Table 16.03-- POSTAL SERVICE: 1992 TO 1997

[Years ended September 30]

Subject	1992	1993	1994	1995	1996	1997
Post offices, September 30	73	72	72	72	72	72
Stations, September 30 1/	70	73	73	73	61	59
Gross postal receipts (\$1,000)	158,134	161,493	163,493	171,867	172,686	172,714
Pieces of mail 2/ (millions)	478	504	518	539	530	549

1/ Includes both classified and contract stations (see preceding table).

2/ Originating in Hawaii. Excludes mail originating elsewhere.

Source: U.S. Postal Service, Honolulu District, records.

**Table 16.04-- TELEPHONE ACCESS LINES, BY ISLANDS AND TYPE:
1986 TO 1996**

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Definition 1/ and year	Switched access lines	By island		By type		
		Oahu	Other islands	Residence	Business	Other types
Old definition:						
1986	493,079	362,083	130,996	350,790	118,002	24,287
1987	520,057	380,227	139,830	363,951	128,197	27,909
1988	530,022	395,685	134,337	375,238	123,409	31,375
1989	555,966	409,904	146,062	385,247	133,620	37,099
1990	586,065	427,017	159,048	397,762	143,631	44,672
1991	606,899	440,216	166,683	408,603	149,209	49,087
1992	624,093	451,512	172,581	417,595	152,848	53,650
New definition:						
1992	629,214	455,681	173,533	417,595	157,255	54,364
1993	649,268	468,337	180,931	429,652	162,817	56,799
1994	666,246	477,844	188,402	439,104	164,172	62,970
1995	684,826	490,658	194,168	447,188	237,638	
1996	703,879	501,999	201,880	454,574	249,305	

1/ In 1992, GTE Hawaiian Telephone Company changed its definition of total switched access lines.
Source: GTE Hawaiian Telephone Company, data provided Sept. 19, 1996.

**Table 16.05-- TELEPHONE ACCESS LINES AND NON-LIST AND
NON-PUBLISHED NUMBERS IN SERVICE: 1993 TO 1996**

[Data include both residence and business telephone numbers]

Category	1993	1994	1995	1996
Access lines	649,268	666,246	684,826	703,879
Non-list and non-published	193,282	206,537	219,964	227,162
Non-list 1/	2,195	2,498	2,433	2,378
Non-published 2/	191,087	204,039	217,531	224,784

1/ Numbers that are not published in the telephone directory but are available via directory assistance.

2/ Numbers that are not published in the telephone directory and are not available via directory assistance.

Source: GTE Hawaiian Telephone Company, records.

**Table 16.06-- HAWAIIAN TELEPHONE COMPANY OPERATIONS:
1993 TO 1996**

Subject	1993	1994	1995	1996
Operating revenues (\$1,000)	576,433	604,211	611,760	634,921
Operating expenses (\$1,000)	564,713	525,373	520,115	518,142
Net income (\$1,000)	-5,042	2/ 29,799	-225,518	54,701
Net investment in property, plant, and equipment (\$1,000)	1,145,673	1,205,827	809,445	822,473
Total assets (\$1,000)	1,425,045	1,527,249	1,154,815	1,200,985
Access lines 1/	2/ 722,114	2/ 748,343	2/ 782,462	825,196
Number of employees 1/	2/ 3,329	2/ 3,315	2/ 3,043	2,911

1/ Includes Micronesian Telecommunications Corporation.

2/ Revised.

Source: GTE Hawaiian Tel 1996 Form 10-K/Form M.

**Table 16.07-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED
TYPES OF SERVICE, FOR HONOLULU: 1990 TO 1995**

[In dollars. As of July 1. Including state and federal excise taxes where applicable]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California 3/		Monthly charge, indiv. resident line 4/
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1990	0.25	0.98	2.00	0.78	3.50	20.31
1991	0.25	1.35	2.00	0.75	2.50	20.28
1992	0.25	0.94	2.00	0.75	2.58	20.27
1993	0.25	0.94	2.14	0.75	2.80	21.37
1994	0.25	0.94	2.14	(NA)	(NA)	22.19
1995	0.25	0.85	2.05	0.84	4.04	22.86

NA Not available.

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ AT&T Communications, Inc., rates quoted for Honolulu to California calls.

4/ Includes for 1995 basic phone rate (\$14.40), standard desk phone (\$3.95), interstate subscriber charge (\$3.50), TRS (Telephone Relay Service) charge (\$0.09), 911 surcharge (\$0.28), and federal, PUC, and state taxes (\$0.64).

Source: GTE Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

Table 16.08-- CELLULAR TELEPHONE COMPANY REVENUES, BY ISLANDS: 1987 TO 1997

Calendar year	Number of companies	Revenues (\$1,000)				
		Total	Hawaii	Maui	Oahu	Kauai
1987	2	7,162	-	-	7,162	-
1988	2	12,314	-	-	12,314	-
1989	2	21,758	-	-	21,758	-
1990	4	38,732	150	-	38,475	107
1991	4	48,742	1,734	1,653	44,179	1,176
1992	4	62,127	3,184	2,199	54,031	2,713
1993	5	76,420	4,618	3,470	63,596	4,736
1994	5	95,334	6,712	6,237	77,914	4,471
1995	5	109,746	(NA)	(NA)	(NA)	(NA)
1996	7	123,314	(NA)	(NA)	(NA)	(NA)
1997	8	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: Public Utilities Commission, records. Revenues by island no longer available after 1994.

**Table 16.09-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES,
BY COUNTIES: 1995 TO 1997**

County	Number of companies Dec. 31 1/			Subscribers Dec. 31 2/			Basic service revenue (\$1,000)		
	1995	1996	1997	1995	1996	1997	1995	1996	1997
State total	6	4	3	338,838	340,950	340,438	69,722	77,285	85,099
Hawaii	3	2	2	32,223	32,876	32,926	7,020	9,068	9,486
Maui	2	2	2	34,652	35,507	35,937	9,589	9,706	10,200
Honolulu	2	2	2	251,863	252,261	254,167	48,852	53,627	60,045
Kauai	2	2	1	20,100	20,306	17,408	4,261	4,884	5,369

1/ State totals are unduplicated figures; one company provided service to three counties.

2/ Hawaiian Cablevision has redefined multiunit as expressed by Federal rules.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 16.10-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION, 1930 TO 1997 AND BY COUNTIES, 1996 AND 1997

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV 1/	AM	FM	TV 1/
1930: Jan. 1	1	-	-	-	-	-
1945: Jan. 1	4	-	-	-	-	-
1960: Jan. 1	17	1	7	-	2	-
1975: Jan. 1	26	5	10	-	1	2
1990: June 30	28	21	19	-	3	2
1994: June 30	29	29	20	1	3	2
1995: June 30	29	33	20	1	3	2
1996: June 30	28	37	21	1	3	2
1997: June 30	28	36	20	1	5	2
COUNTIES: 1996						
Hawaii	5	11	6	-	-	-
Maui	4	8	5	-	1	1
Honolulu 2/	17	15	10	1	2	1
Kauai	2	3	-	-	-	-
COUNTIES: 1997						
Hawaii	5	11	6	-	-	-
Maui	4	9	5	-	1	1
Honolulu 2/	17	14	9	1	3	1
Kauai	2	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; Broadcasting and R.R. Vowker Publications, *Broadcasting & Cable Yearbook 1997*; Federal Communications Commission, records.

**Table 16.11-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA:
1996 AND 1997**

Subject	January 1996			January 1997		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	391,900	285,800	106,100	393,600	286,300	107,300
With television	381,010	279,060	101,950	382,700	279,830	102,870
Percent	100.0	73.2	26.8	100.0	73.1	26.9

Source: *Nielsen Station Index, Honolulu, Hawaii*, February 1996 and 1997, table 1.

**Table 16.12-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY
TIME OF DAY: 1995 TO 1998**

[In thousands. Mean number of viewers, Sunday through Saturday]

Year and month	Sign-on to sign-off 7 A.M. to 1 A.M.		Prime time 6:30 P.M. to 10 P.M.	
	Households 1/	Persons 2/	Households 1/	Persons 2/
1995: Feb.	170	331	107	187
May	139	276	82	143
Nov.	158	299	112	188
1996: Feb.	155	288	102	177
May	130	244	75	123
Nov.	146	277	84	133
1997: Feb.	159	299	101	177
May	142	255	78	122
Nov.	133	220	77	110
1998: Feb.	131	242	69	110
May	145	264	80	132

1/ Average number with a TV set turned on.

2/ Average number of persons, 2 years and older, in TV households that are viewing any station.

Source: *Nielsen Station Index, Honolulu, Hawaii*, Daypart Summary, issued three times annually.

**Table 16.11-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA:
1996 AND 1997**

Subject	January 1996			January 1997		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	391,900	285,800	106,100	393,600	286,300	107,300
With television	381,010	279,060	101,950	382,700	279,830	102,870
Percent	100.0	73.2	26.8	100.0	73.1	26.9

Source: *Nielsen Station Index, Honolulu, Hawaii*, February 1996 and 1997, table 1.

**Table 16.12-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY
TIME OF DAY: 1995 TO 1998**

[In thousands. Mean number of viewers, Sunday through Saturday]

Year and month	Sign-on to sign-off 7 A.M. to 1 A.M.		Prime time 6:30 P.M. to 10 P.M.	
	Households 1/	Persons 2/	Households 1/	Persons 2/
1995: Feb.	170	331	107	187
May	139	276	82	143
Nov.	158	299	112	188
1996: Feb.	155	288	102	177
May	130	244	75	123
Nov.	146	277	84	133
1997: Feb.	159	299	101	177
May	142	255	78	122
Nov.	133	220	77	110
1998: Feb.	131	242	69	110
May	145	264	80	132

1/ Average number with a TV set turned on.

2/ Average number of persons, 2 years and older, in TV households that are viewing any station.

Source: *Nielsen Station Index, Honolulu, Hawaii*, Daypart Summary, issued three times annually.

**Table 16.13-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY
ENGLISH-LANGUAGE NEWSPAPERS: 1993-94 TO 1996-97**

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the *Hawaii Hochi*, Japanese and English; and *United Chinese Press*, Chinese]

Newspaper	1993-94	1994-95	1995-96	1996-97
Daily:				
The Honolulu Advertiser 1/	104,461	105,793	105,984	104,960
Honolulu Star-Bulletin 2/	82,489	79,796	76,198	71,418
Hawaii Tribune-Herald (Hilo) 3/	19,688	19,773	19,362	19,079
West Hawaii Today (Kailua-Kona) 3/	12,281	11,832	11,560	11,334
Maui News (Wailuku) 4/	19,222	18,816	18,379	17,702
Garden Island (Lihue) 4/	7,679	7,874	7,860	7,551
Sunday morning:				
The Honolulu Advertiser 5/	195,577	195,166	193,318	190,475
Hawaii Tribune-Herald (Hilo)	23,088	23,049	23,005	22,894
West Hawaii Today (Kailua-Kona)	13,455	13,621	13,516	13,668
Maui News (Wailuku)	22,246	23,441	23,860	23,992
Garden Island (Lihue)	8,100	7,981	8,017	7,750

NA Not available.

1/ Mornings, Monday through Saturday.

2/ Afternoons, Monday through Saturday.

3/ Mornings, Monday through Friday.

4/ Afternoons, Monday through Friday.

5/ Data through February 27, 1993 are for the *Sunday Star-Bulletin and Advertiser*; beginning March 7, 1993, for the Sunday *Honolulu Advertiser*.

Source: Data provided by newspaper publishers to Hawaii State Department of Business, Economic Development & Tourism.

**Table 16.14-- POSTAGE RATES AND NEWSPAPER PRICES, FOR
HONOLULU: 1987 TO 1997**

[In cents. As of July 1]

Year	Domestic first-class postage rates			Newspaper price 1/	
	Letters		Postal and post cards	Daily	Sunday
	First ounce	Each added ounce			
1987	22	17	14	35	100
1988	25	20	15	35	125
1989	25	20	15	35	125
1990	25	20	15	35	125
1991	29	23	19	35	125
1992	29	23	19	35	150
1993	29	23	19	50	150
1994	29	23	19	50	150
1995	32	23	20	50	150
1996	32	23	20	50	175
1997	32	23	20	50	175

1/ Street sales, for *The Honolulu Advertiser* (daily, all years), *Honolulu Star-Bulletin* (daily, all years), the *Sunday Star-Bulletin and Advertiser* (through Feb. 27, 1993), and the *Sunday The Honolulu Advertiser* (beginning March 7, 1993).

Source: Postal rates from *Statistical Abstract of the United States, 1997*, p. 577, as updated by the U.S. Postal Service, Customer Information. Newspaper rates from Hawaii Newspaper Agency.

**Table 16.15-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE
UNIVERSITY OF HAWAII PRESS: 1989 TO 1997**

Year	Published titles 1/		New books and journals published 3/		Volumes sold 3/	Book sales revenues 3/ (dollars)
	Cumulative total 2/	In print	Books	Scholarly journals		
1989	918	701	50	9	402,606	2,222,341
1990	971	703	53	13	422,266	2,591,790
1991	1,024	705	53	12	365,790	2,721,480
1992	1,072	717	48	12	350,274	2,611,388
1993	1,123	738	51	12	354,063	2,859,494
1994	1,183	772	60	13	378,807	2,960,051
1995	1,257	790	74	13	385,673	3,014,268
1996	1,323	823	54	12	374,168	2,896,316
1997	1,402	833	65	12	322,378	3,182,690

1/ As of June 30. Excludes journals.

2/ Includes books and other media, but not journals.

3/ Year ended June 30.

Source: The University of Hawaii Press, *Annual Report* (annual) and records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on fuel resources, energy production and consumption, the electric and gas utility industries, research and development, and scientific, engineering, and technological resources. Related series are cited in Sections 12 (utility employment), 14 (prices), and 18 (gasoline consumption).

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy; U.S. Patent and Trademark Office; U.S. Bureau of Labor Statistics; National Science Foundation; Hawaii State Department of Taxation; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy; Hawaii State Department of Business, Economic Development & Tourism, Energy Division; University of Hawaii, Institute of Astronomy; and individual utility companies. *Historical Statistics of Hawaii*, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the *Statistical Abstract of the United States: 1997*, Sections 19 and 20.

**Table 17.01-- CONSUMPTION OF ENERGY, BY SOURCE
(PHYSICAL UNITS): 1970 TO 1993**

Year	Petroleum 1/ (1,000 barrels)	Hydroelectric power 2/ (million kWh)	Geothermal energy (million kWh)	Coal (1,000 short tons)	Other 3/ (million kWh)
1970	34,129	108	0	0	24
1971	36,754	89	0	0	15
1972	37,755	91	0	0	18
1973	38,785	95	0	0	22
1974	36,698	92	0	0	30
1975	37,056	89	0	0	25
1976	37,990	93	0	0	29
1977	40,249	86	0	0	26
1978	40,851	84	0	0	0
1979	44,486	90	0	0	0
1980	43,505	86	0	0	0
1981	38,721	80	0	0	15
1982	35,637	90	0	47	26
1983	36,297	84	0	42	28
1984	37,252	82	21	38	28
1985	40,004	86	19	46	25
1986	38,931	78	18	16	0
1987	39,669	82	13	63	0
1988	46,133	81	16	50	0
1989	47,940	89	14	32	11
1990	48,606	89	0	28	6
1991	45,487	87	0	37	0
1992	44,357	76	0	47	0
1993	38,778	80	0	73	0

1/ For data by type of petroleum, see source.

2/ Includes industrial and electric utility production.

3/ Electricity generated for distribution from biomass fuels and wind, photovoltaic, and solar thermal energy sources. Excludes natural gas and nuclear electric power.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), p. 95.

**Table 17.02-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU):
1970 TO 1993**

[Revised data, 1984-1990]

Year	Total energy consumed	Petroleum 1/	Hydro-electric power 2/	Geo-thermal energy	Coal	Natural gas	Other types 3/
1970	196.9	195.5	1.1	0.0	0.0	0.0	0.3
1971	211.6	210.5	0.9	0.0	0.0	0.0	0.2
1972	217.7	216.6	0.9	0.0	0.0	0.0	0.2
1973	223.7	222.5	1.0	0.0	0.0	0.0	0.2
1974	211.6	210.3	1.0	0.0	0.0	0.0	0.3
1975	213.9	212.7	0.9	0.0	0.0	0.0	0.3
1976	219.3	218.0	1.0	0.0	0.0	0.0	0.3
1977	232.6	231.5	0.9	0.0	0.0	0.0	0.3
1978	236.0	235.2	0.9	0.0	0.0	0.0	0.0
1979	255.2	254.3	0.9	0.0	0.0	0.0	0.0
1980	253.2	249.3	0.9	0.0	0.0	3.0	0.0
1981	226.4	222.6	0.8	0.0	0.0	2.8	0.2
1982	208.5	203.3	0.9	0.0	1.1	2.8	0.3
1983	210.3	205.4	0.9	0.0	1.0	2.7	0.3
1984	220.8	215.8	0.9	0.4	0.9	2.4	0.3
1985	237.4	232.1	0.9	0.4	1.1	2.7	0.3
1986	231.2	226.9	0.8	0.4	0.4	2.7	0.0
1987	236.0	230.5	0.9	0.3	1.6	2.8	0.0
1988	274.6	269.3	0.8	0.3	1.2	2.8	0.0
1989	284.6	279.6	0.9	0.3	0.8	2.9	0.1
1990	288.4	283.8	0.9	0.0	0.7	3.0	0.1
1991	269.6	264.9	0.9	0.0	0.9	2.9	0.0
1992	263.1	258.3	0.8	0.0	1.2	2.9	0.0
1993	229.3	223.8	0.8	0.0	1.8	2.8	0.0

1/ For data by type of petroleum, see source.

2/ Includes industrial and electric utility production.

3/ Electricity generated for distribution from biomass fuels and wind, photovoltaic, and solar thermal energy sources.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), p. 95.

**Table 17.03-- CONSUMPTION OF ENERGY BY END-USE SECTOR:
1970 TO 1993**

[Trillion Btu]

Year	Consumption				Input at electric utilities
	Residential	Commercial	Industrial	Transportation	
1970	16.4	11.6	43.6	125.3	43.2
1971	17.8	11.4	43.5	138.8	47.7
1972	19.6	12.7	48.9	136.5	54.1
1973	20.0	13.5	49.4	140.9	55.6
1974	20.3	13.3	49.4	128.7	57.5
1975	19.6	13.8	49.9	130.5	58.8
1976	21.3	15.3	51.0	131.7	62.5
1977	21.8	16.8	52.7	141.3	65.2
1978	21.8	17.4	52.2	144.6	66.8
1979	22.9	18.1	57.8	156.4	67.7
1980	23.2	20.8	62.4	146.7	69.7
1981	23.0	18.8	60.6	124.1	69.9
1982	21.5	17.6	67.1	102.2	66.9
1983	22.1	17.8	52.6	117.9	68.6
1984	21.0	19.5	50.9	129.3	70.6
1985	20.9	20.3	53.0	143.3	70.0
1986	21.3	22.8	60.2	126.9	72.9
1987	22.8	26.0	62.0	125.1	76.6
1988	23.9	39.2	69.4	142.1	81.9
1989	25.3	38.0	66.9	154.5	85.8
1990	25.1	34.3	72.3	156.7	86.1
1991	23.3	28.2	66.6	151.4	79.2
1992	23.1	32.8	64.3	142.9	74.6
1993	19.8	22.7	60.0	126.8	66.2

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), pp. 96-100.

**Table 17.04-- PRIMARY ENERGY CONSUMPTION AND ELECTRICITY
SALES, TOTAL AND PER CAPITA: 1986 TO 1996**

Year	Primary energy consumption		Electricity sales by utilities	
	Total (trillion Btu)	Per capita 1/ (million Btu)	Total (1,000 kWh)	Per capita 1/ (kWh)
1986	271.05620	232.168	7,025,739	6,018
1987	284.20420	239.532	7,298,178	6,151
1988	306.92120	255.682	7,719,029	6,430
1989 2/	315.08420	252.958	7,970,360	6,399
1990 2/	312.13040	248.314	8,310,537	6,611
1991 2/	322.95240	253.336	8,564,032	6,718
1992 2/	339.09120	267.127	8,643,562	6,809
1993 2/	307.74649	243.259	8,657,905	6,844
1994 2/	327.47780	254.332	8,948,458	6,950
1995 2/	315.11860	244.733	9,187,429	7,135
1996 3/	315.94920	243.262	9,378,962	7,221

1/ Based on estimated de facto population.

2/ Revised.

3/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

**Table 17.05-- PRIMARY ENERGY CONSUMPTION, BY SOURCE:
1986 TO 1996**

[Trillion Btu]

Year	Total		Petroleum	Biomass	Solar hot water
1986	271.0562		242.5857	23.9670	2.1644
1987	284.2042		256.4061	22.1840	2.1914
1988	306.9212		279.1052	22.7080	2.1931
1989 1/	315.0842		289.2301	20.8020	2.3310
1990 1/	312.1304		284.4906	18.1200	2.3400
1991 1/	322.9524		294.6222	17.9000	2.3000
1992 1/	339.0912		305.7758	16.9840	2.3000
1993 1/	307.7465		266.9516	16.8310	2.3000
1994 1/	327.4778		285.5010	16.3660	2.3000
1995 1/	315.1186		273.9590	11.8232	2.8386
1996 2/	315.9492		277.1298	10.3994	3.1225
Year	Hydroelectric	Coal	Wind	Geothermal	Solid waste
1986	1.0562	0.4970	0.6036	0.1823	-
1987	0.9670	1.4875	0.8236	0.1446	-
1988	0.9826	1.3509	0.4185	0.1629	-
1989 1/	1.0183	0.8715	0.4189	0.1435	0.2689
1990 1/	1.0700	0.8900	0.2900	-	4.9298
1991 1/	1.0000	0.8000	0.3060	-	6.0242
1992 1/	0.7226	6.9207	0.2573	0.0168	6.1140
1993 1/	0.8024	13.2237	0.2352	1.5988	5.8038
1994 1/	1.5300	13.5599	0.2251	1.8060	6.1898
1995 1/	1.0632	16.5249	0.2364	2.3045	6.3688
1996 2/	1.1332	16.9294	0.2244	2.3566	4.6539

1/ Revised.

2/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

Table 17.06-- ELECTRICITY GENERATION BY SOURCE: 1989 TO 1996

[Millions of kWh generated]

Year	Total	Petroleum	Biomass	MSW 1/	Hydroelectric
1989	9,280	8,511	614	-	100
1990	9,566	8,589	538	-	105
1991	9,610	8,664	495	-	92
1992	10,104	8,556	460	-	67
1993	10,219	7,576	435	349	78
1994	10,341	7,793	423	379	148
1995	10,563	7,853	292	383	103
1996	10,742	8,027	270	326	110

Year	Geothermal	Wind	Coal	PV 2/	Other 3/
1989	14	41	-	-	(Z)
1990	-	28	-	-	306
1991	-	30	-	-	329
1992	1	21	-	-	999
1993	155	24	1,592	(Z)	10
1994	175	22	1,382	(Z)	19
1995	223	23	1,674	(Z)	12
1996	228	22	1,740	(Z)	19

Z Less than 500,000 kWh.

1/ Electricity generated from Honolulu municipal solid waste plant.

2/ Electricity generated from photovoltaic.

3/ From 1989 to 1992, includes electricity production by coal, geothermal (a test well which ceased operation in 1989), and photovoltaic.

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Hawaii Agriculture Research Center, records.

**Table 17.07-- ELECTRICITY PRODUCTION, BY SOURCE, BY ISLANDS:
1996**

[Million kWh]

Island	Total	Petroleum	Biomass	MSW 1/	Hydroelectric
State total	10,742	8,027	270	326	110
Hawaii	1,014	603	2	-	41
Maui	1,210	1,010	143	-	18
Lanai	28	28	-	-	-
Molokai	38	38	-	-	-
Oahu	7,958	5,999	31	326	-
Kauai	494	349	94	-	51
Island	Wind	Geothermal	Coal	PV 2/	Other
State total	22	228	1,740	-	19
Hawaii	19	228	121	(Z)	-
Maui	-	-	39	(Z)	-
Lanai	-	-	-	-	-
Molokai	-	-	-	-	-
Oahu	3	-	1,580	-	19
Kauai	-	-	-	-	-

Z Less than 500,000 kWh.

1/ Electricity generated from Honolulu municipal solid waste plant.

2/ Electricity generated from photovoltaic.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

**Table 17.08-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY
SOURCE: 1986 TO 1996**

[Millions of dollars]

Year	Total energy expenditures	Fuel expenditures			Less: electric utility fuel expenditures	Plus: electricity purchased by end-user
		Total	Electric utility	Other		
1986	1,564.0	1,147.3	224.6	922.7	224.6	641.3
1987	1,575.1	1,176.2	203.7	972.5	203.7	602.6
1988	1,664.1	1,314.6	238.0	1,076.6	238.0	587.5
1989	1,895.2	1,530.6	277.5	1,253.1	277.5	642.1
1990	2,204.4	1,807.0	352.5	1,454.5	352.5	749.9
1991	2,217.5	1,736.4	304.8	1,431.6	304.8	785.9
1992 1/	2,340.3	1,760.0	238.2	1,521.8	238.2	818.5
1993 1/	2,369.9	1,660.4	213.3	1,447.1	213.3	922.8
1994 1/	2,397.0	1,642.5	201.4	1,441.1	201.4	955.9
1995 1/	2,459.4	1,645.2	223.5	1,421.7	223.5	1,037.7
1996 2/	2,631.8	1,763.7	268.9	1,494.8	268.9	1,137.0

1/ Revised.

2/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records.

Table 17.09-- ELECTRIC UTILITIES: 1987 TO 1997

Year	Customers, Dec. 31 1/			Installed capacity 3/ (kW)	Power sold (1,000 kWh)		
	Total	Residential 2/	Other		Total	Residential 2/	Other
1987	347,085	299,758	47,327	1,535,700	7,297,905	2,069,859	5,228,046
1988	354,887	306,375	48,512	1,570,410	7,719,029	2,148,275	5,570,754
1989	362,281	312,347	49,934	1,517,500	7,969,694	2,238,874	5,730,820
1990	370,952	320,215	50,737	1,655,690	8,310,537	2,320,550	5,989,987
1991	380,963	328,899	52,064	1,572,349	8,460,186	2,363,726	6,076,697
1991 4/	380,963	328,899	52,064	1,572,349	8,524,088	2,385,276	6,178,756
1992 4/	385,055	332,863	52,192	1,650,639	8,666,889	2,430,152	6,213,410
1993 4/	395,402	341,471	53,931	1,717,914	8,657,903	2,453,830	6,204,075
1994 4/	403,595	346,977	56,618	1,710,224	8,948,458	2,551,240	6,397,218
1995 4/	409,983	352,589	57,394	1,714,729	9,187,430	2,597,010	6,590,419
1996 4/	413,830	356,205	57,625	(X)	9,378,962	2,669,654	6,709,308
1997 4/	415,964	358,683	57,281	(X)	9,345,281	2,659,248	6,686,033
Year	Average annual use (kWh 5/)		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 2/	Other	Residential 2/	Other	Total	Residential 2/	Other
1987	6,905	110,466	0.09431	0.07792	602,553	195,198	407,355
1988	7,011	114,832	0.08829	0.07141	587,528	189,689	397,839
1989	7,168	114,772	0.09265	0.07585	642,101	207,436	434,665
1990	7,247	118,060	0.10261	0.08544	749,857	238,103	511,754
1991	7,187	116,716	0.10539	0.08726	779,382	249,104	530,278
1991 4/	7,252	117,524	0.10546	0.08733	785,896	251,553	534,343
1992 4/	7,301	119,049	0.10932	0.08898	818,525	265,667	552,858
1993 4/	7,186	115,037	0.12309	0.10005	922,796	302,054	620,743
1994 4/	7,353	112,989	0.12464	0.09972	955,907	317,984	637,923
1995 4/	7,366	114,828	0.13337	0.10490	1,037,702	346,359	691,343
1996 4/	7,495	116,431	0.14272	0.11268	1,137,045	381,011	756,034
1997 4/	7,414	116,723	0.14840	0.11585	1,169,188	394,620	774,568

X Not applicable.

1/ 1990 based on November data.

2/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

3/ As of December 31. Beginning with 1996, reported as system peak. A system peak is the maximum amount of energy required by the electrical system. The island electrical systems are not interconnected, therefore, peaks are reported separately for each island.

4/ Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai.

5/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.10-- ELECTRIC UTILITIES, BY ISLANDS: 1996

[Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai]

County or island	Customers, Dec. 31			System peak 2/ (mW)	Power sold (1,000 kWh)		
	Total	Residential 1/	Other		Total	Residential 1/	Other
State total	413,830	356,205	57,625	(X)	9,378,962	2,669,654	6,709,308
Oahu	271,602	237,602	33,742	1,209.0	7,091,147	1,863,425	5,227,722
Hawaii	59,349	49,860	9,489	165.8	875,747	330,125	545,622
Kauai	29,128	22,409	6,719	70.4	387,737	129,245	258,492
Maui County	53,751	46,076	7,675	(X)	1,024,331	346,859	677,472
Lanai	1,345	1,179	166	5.0	26,365	6,346	20,019
Maui	49,590	42,578	7,012	174.8	963,625	327,562	636,063
Molokai	2,816	2,319	497	6.7	34,341	12,951	21,390
County or island	Average annual use (kWh) 3/		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	7,495	116,431	0.14272	0.11268	1,137,045	381,011	756,034
Oahu	7,834	154,932	0.12944	0.10063	767,264	241,200	526,064
Hawaii	6,621	57,500	0.18918	0.16469	152,312	62,452	89,860
Kauai	5,768	38,472	0.19608	0.18450	73,034	25,342	47,692
Maui County	7,528	88,270	0.14996	0.13642	144,434	52,016	92,418
Lanai	5,383	120,596	0.18709	0.18715	4,934	1,187	3,747
Maui	7,693	90,711	0.14763	0.13319	133,074	48,359	84,715
Molokai	5,585	43,038	0.19072	0.18496	6,426	2,470	3,956

X Not applicable.

1/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ The system peak is the maximum amount of energy required by the electrical system. The island electrical systems are not interconnected, therefore, peaks are reported separately for each island.

3/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.11-- ELECTRIC UTILITIES, BY ISLANDS: 1997

[Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai]

County or island	Customers, Dec. 31			System peak 2/ (mW)	Power sold (1,000 kWh)		
	Total	Residential 1/	Other		Total	Residential 1/	Other
State total	415,964	358,683	57,281	(X)	9,345,281	2,659,248	6,686,033
Oahu	271,801	238,825	32,976	1,220.0	7,040,291	1,852,175	5,188,116
Hawaii	60,220	50,590	9,630	166.7	894,110	331,125	562,985
Kauai	29,338	22,589	6,749	71.4	382,112	128,248	253,864
Maui County	54,605	46,679	7,926	(X)	1,028,768	347,700	681,068
Lanai	1,362	1,181	181	5.0	26,050	6,442	19,608
Maui	50,385	43,159	7,226	174.7	969,170	328,582	640,587
Molokai	2,858	2,339	519	6.6	33,549	12,676	20,873
County or island	Average annual use (kWh) 3/		Average rate (dollars per kWh)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	7,414	116,723	0.14840	0.11585	1,169,188	394,620	774,568
Oahu	7,755	157,330	0.13360	0.10254	779,425	247,458	531,967
Hawaii	6,545	58,462	0.19672	0.16908	160,332	65,140	95,192
Kauai	5,677	37,615	0.21200	0.19939	77,806	27,188	50,618
Maui County	7,449	85,928	0.15770	0.14212	151,624	54,834	96,791
Lanai	5,455	108,332	0.19033	0.19428	5,036	1,226	3,810
Maui	7,613	88,650	0.15549	0.13885	140,035	51,092	88,943
Molokai	5,419	40,218	0.19844	0.19348	6,554	2,515	4,039

X Not applicable.

1/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ The system peak is the maximum amount of energy required by the electrical system. The island electrical systems are not interconnected, therefore, peaks are reported separately for each island.

3/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.12-- GAS UTILITIES: 1987 TO 1997

[Revised. Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential 1/	Other	Total	Residential 1/	Other
1987	33,895	30,198	3,697	32,408	5,880	26,528
1988	34,103	30,450	3,653	32,733	5,780	26,952
1989	34,304	30,661	3,643	33,865	5,896	27,969
1990	34,477	30,840	3,637	34,806	5,924	28,882
1991	34,973	31,378	3,595	33,974	5,775	28,199
1992	35,236	31,625	3,611	33,662	5,733	27,929
1993	35,908	32,293	3,615	33,268	5,750	27,518
1994	36,403	32,753	3,650	34,010	5,851	28,159
1995	36,619	32,950	3,669	33,740	5,793	27,948
1996	36,641	33,020	3,621	33,531	5,642	27,888
1997	36,575	32,977	3,598	32,980	5,603	27,377

Year	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
1987	195	7,176	1.57204	1.10494	38,556	9,244	29,312
1988	189	7,378	1.54961	1.07840	38,023	8,957	29,066
1989	192	7,677	1.54200	1.06487	38,876	9,092	29,783
1990	192	7,941	1.62847	1.14834	42,813	9,646	33,167
1991	184	7,844	1.78649	1.25285	45,646	10,317	35,329
1992	181	7,735	1.79054	1.25466	45,307	10,265	35,042
1993	178	7,612	1.75962	1.22594	43,853	10,117	33,735
1994	179	7,715	1.71994	1.19455	43,700	10,064	33,637
1995	176	7,617	1.79670	1.25158	45,386	10,407	34,979
1996	171	7,702	2.10399	1.33578	49,124	11,872	37,252
1997	170	7,609	2.29075	1.40013	51,167	12,835	38,332

1/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.13-- GAS UTILITIES, BY ISLANDS: 1996

[Excludes bottled gas]

Island	Customers, December 31			Gas sold (1,000 therms)		
	Total	Residential 1/	Other	Total	Residential 1/	Other
State total	36,641	33,020	3,621	33,531	5,642	27,888
Oahu	33,840	30,599	3,241	30,339	5,203	25,136
Hawaii	1,702	1,388	314	2,360	267	2,094
Kauai	596	596	-	88	88	-
Maui	393	327	66	726	68	658
Molokai	110	110	-	17	17	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	171	7,702	2.10399	1.33578	49,124	11,872	37,252
Oahu	170	7,756	2.08540	1.34819	44,738	10,850	33,888
Hawaii	192	6,668	2.44655	1.23303	3,234	652	2,582
Kauai	147	-	2.27193	-	200	200	-
Maui	208	9,973	1.92138	1.18864	913	131	782
Molokai	155	-	2.28816	-	39	39	-
Lanai	-	-	-	-	-	-	-

1/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.14-- GAS UTILITIES, BY ISLANDS: 1997

[Excludes bottled gas]

Island	Customers, December 31			Gas sold (1,000 therms)		
	Total	Residential 1/	Other	Total	Residential 1/	Other
State total	36,575	32,977	3,598	32,980	5,603	27,377
Oahu	33,860	30,628	3,232	29,836	5,176	24,659
Hawaii	1,634	1,335	299	2,319	250	2,069
Kauai	598	598	-	86	86	-
Maui	392	325	67	720	70	649
Molokai	91	91	-	20	20	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues (\$1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
State total	170	7,609	2.29075	1.40013	51,167	12,835	38,332
Oahu	169	7,630	2.24693	1.40989	46,398	11,631	34,767
Hawaii	188	6,919	3.05080	1.32979	3,515	764	2,751
Kauai	143	-	2.73559	-	234	234	-
Maui	217	9,691	2.22903	1.25364	971	157	814
Molokai	221	-	2.42358	-	49	49	-
Lanai	-	-	-	-	-	-	-

1/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

**Table 17.15-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC COMPANY, INC.,
ON OAHU: 1989 TO 1997**

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Electricity sales (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Generating capability Dec. 31 (kW)
	Total	Residential only					
1989	247,120	216,063	6,617,943	6,254,220	7,534	0.08308	1,271,000
1990	248,692	217,681	6,835,025	6,470,587	7,620	0.09228	1,262,000
1991	255,176	223,304	6,876,964	6,538,952	7,610	0.09354	1,440,000
1992	257,442	225,229	7,061,157	6,650,449	7,711	0.09925	1,666,000
1993	263,478	230,192	7,029,839	6,607,424	7,581	0.11414	1,669,000
1994	264,992	232,115	7,222,978	6,797,364	7,681	0.11342	1,669,000
1995	269,307	235,905	7,359,195	6,962,794	7,732	0.12302	1,669,000
1996	271,602	237,860	7,499,202	7,091,147	7,868	0.12944	1,669,000
1997	271,801	238,825	7,424,259	7,040,291	7,773	0.13360	1,669,000

1/ Net generation plus purchased power.

2/ Based on average number of customers during the year.

Source: Hawaiian Electric Company, Inc., records.

**Table 17.16-- GAS UTILITY SERVICE BY THE GAS COMPANY, INC.,
FOR OAHU: 1989 TO 1994**

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1989	31,812	28,539	30,776	5,446	191
1990	31,974	28,714	31,645	5,469	191
1991	32,487	29,278	30,866	5,331	182
1992	32,598	29,375	30,528	5,285	180
1993	33,206	29,984	30,029	5,287	176
1994	33,597	30,344	30,765	5,372	177

1/ Includes liquefied petroleum gas.

Source: The Gas Company, BHP Petroleum, records.

Table 17.17-- LIQUID FUEL TAX BASE: 1987 TO 1997

[In thousands of gallons]

Year reported 1/	All types		Gasoline	Diesel oil	
	Total	Excluding aviation		Non-hwy.	Hwy. use
1987	1,206,716	512,974	348,474	137,806	21,207
1988	1,216,828	515,273	357,986	131,292	21,057
1989	1,268,597	535,714	369,172	136,465	23,729
1990	1,307,887	557,097	375,382	151,095	24,763
1991	1,299,455	570,077	376,182	163,773	24,991
1992	1,286,118	574,716	381,118	162,983	26,289
1993	1,173,458	573,767	384,444	160,121	24,997
1994	1,240,366	578,758	392,404	152,628	29,692
1995	1,286,038	600,596	396,446	172,684	27,411
1996	1,147,866	588,896	394,989	160,102	29,864
1997	955,834	585,400	400,435	150,737	30,109

Year reported 1/	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1987	3,135	1,142	693,742	123	1,089
1988	3,012	1,071	701,555	63	792
1989	4,301	968	732,883	57	1,022
1990	4,757	834	750,790	78	188
1991	3,575	780	729,378	52	724
1992	3,644	532	711,402	48	102
1993	3,343	477	599,691	35	349
1994	3,210	566	661,608	60	198
1995	3,096	514	685,443	50	395
1996	3,249	413	558,969	50	228
1997	3,587	328	370,433	41	164

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ending November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections" (annual report).

Table 17.18-- LIQUID FUEL TAX BASE, BY COUNTIES: 1997

[In thousands of gallons. Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ending November 30]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	955,834	687,654	111,889	100,279	56,012
Gasoline	400,435	262,768	52,863	61,441	23,364
Diesel oil, non-hwy.	150,737	66,783	32,361	22,212	29,382
Diesel oil, hwy. use	30,109	19,229	3,743	5,718	1,419
Liq. pet. gas, off hwy.	3,587	2,049	609	641	288
Liq. pet. gas, hwy. use	328	277	21	16	13
Small boats, gasoline	41	41	-	-	-
Small boats, diesel oil	164	6	-	158	-
Aviation fuel	370,433	336,501	22,293	10,093	1,546

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections, Calendar Year Ending December 31, 1997" (annual release).

**Table 17.19-- IMPORTS AND EXPORTS OF CRUDE OIL AND
PETROLEUM PRODUCTS: 1996**

[1,000 barrels]

Product	Imports			Exports		
	Total	Domestic	Foreign	Total	Domestic	Foreign
Crude oil	52,043	18,149	33,894	-	-	-
Distillates	102	102	-	542	352	190
Jet fuel	3,586	1,052	2,534	95	95	-
Residual fuel oil	1,071	1,071	-	297	128	169
Naphtha	-	-	-	1,554	-	1,554
Other	672	672	-	2,724	956	1,768

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Energy Information Administration, records.

**Table 17.20-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL, BY
COUNTIES: 1987, 1992, AND 1995**

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County		
					Lanai	Maui	Molokai
1987	355	241	52	26	1	34	1
1992	326	212	57	21	-	35	1
1995	304	194	58	19	(1/)	1/ 33	(1/)

1/ Lanai and Molokai included with Maui.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade, Hawaii*, RC87-A-12 (May 1989), table 5; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 4; and *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997).

**Table 17.21-- BOILERS AND PRESSURE VESSELS, BY ISLANDS:
DECEMBER 31, 1997**

Island	Total	Power boilers	Heating boilers	Pressure vessels
State total	10,126	660	2,803	6,663
Hawaii	1,288	91	235	962
Maui	1,083	75	273	735
Lanai	66	5	12	49
Molokai	64	7	29	28
Oahu	7,166	443	2,129	4,594
Kauai	459	39	125	295
Niihau	-	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

**Table 17.22-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY
SUGAR PLANTATIONS, BY ISLANDS: 1994 TO 1996**

Subject	State total	Hawaii	Kauai	Maui	Oahu
1994					
Electricity (millions of kilowatt-hours)					
Generated 1/	688.54	169.44	153.46	244.01	121.64
Purchased	26.29	1.62	5.63	7.33	11.71
Sold	359.60	117.22	74.89	104.72	62.77
Used	355.23	53.84	84.20	146.62	70.57
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	20,693	6,169	4,652	5,834	4,038
Bagasse 2/	15,888	4,455	3,815	4,726	2,891
Fossil fuels	4,577	1,714	836	1,108	918
Other fuels	228	-	-	-	228
1995					
Electricity (millions of kilowatt-hours)					
Generated 1/	510.88	11.42	142.37	274.07	83.02
Purchased	28.07	0.74	11.78	11.70	3.85
Sold	214.11	-	68.15	102.19	43.77
Used	324.84	12.16	85.99	183.59	43.10
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	15,101	1,278	3,961	7,134	2,728
Bagasse 2/	11,349	1,249	3,664	4,689	1,747
Fossil fuels	3,482	29	296	2,445	712
Other fuels	270	-	-	-	270

Footnotes and source on next page.

Table 17.22-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY SUGAR PLANTATIONS, BY ISLANDS: 1994 TO 1996 -- Con.

Subject	State total	Hawaii	Kauai	Maui	Oahu
1996					
Electricity (millions of kilowatt-hours)					
Generated 1/	464.22	1.80	155.13	255.52	51.77
Purchased	20.72	0.12	10.01	8.50	2.09
Sold	194.68	-	76.09	87.10	31.49
Used	290.26	1.92	89.05	176.92	22.37
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	13,230	249	4,479	6,606	1,898
Bagasse 2/	9,876	244	4,234	4,440	958
Fossil fuels	3,023	5	244	2,166	609
Other fuels	331	-	-	-	331

1/ Includes electricity generated by steam, hydroelectric and diesel engine.

2/ Includes bagasse transferred between factories.

Source: Hawaiian Sugar Planters' Association, *Energy Inventory of Hawaiian Sugar Plantations - 1994* (Energy Report 34, August 1995), pp. 10-11; Hawaiian Sugar Planters' Association, *Energy Inventory of Hawaiian Sugar Plantations - 1995* (Energy Report 35, August 1996), pp. 10-11; and Hawaii Agriculture Research Center, *Energy Inventory of Hawaiian Sugar Plantations - 1996* (Energy Report 36, January 1998), pp. 10-11.

**Table 17.23-- HIGH TECHNOLOGY COMPANIES, EMPLOYEES,
AND REVENUES: 1995**

Subject	All sectors	Manufacturing	Service	Support
Number of companies 1/	195	24	155	16
Employees 2/	6,694	580	5,735	379
Revenues (million dollars) 2/	1,149	394	695	60

1/ Number responding to survey. The estimated total number of high tech companies in Hawaii was 400.

2/ Based on survey response, and excluding Hawaiian Electric.

Source: High Technology Development Corp., Mililani, Hawaii, 1995 survey.

Table 17.24-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT AND R&D PLANT IN HAWAII: 1990 TO 1995

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

Type of obligation	1990	1991	1992	1993	1994	1995
Obligations for R&D	100.0	112.6	150.7	113.0	140.3	480.4
Obligations for R&D plant	1.4	9.2	6.5	19.3	14.3	0.5

Source: National Science Foundation, *Federal Funds for Research and Development: Fiscal Years 1992, 1993 and 1994*, Volume 42, Detailed Statistical Tables, NSF 94-328 (1994), pp. 346-349; <http://www.nsf.gov/sbe/srs/nsf97327/tables.htm>

**Table 17.25-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING,
FOR THE UNIVERSITY OF HAWAII: 1991-92 TO 1995-96**

[Research and non-research awards received through the Office of Research Services, University of Hawaii, and non-competitive awards from the U.S. Department of Agriculture]

Fiscal year	Total		Research		Non-research	
	Awards	Amount (dollars)	Awards	Amount (dollars)	Awards	Amount (dollars)
1991-92	1,221	124,876,638	703	65,791,624	518	59,085,014
1992-93	1,146	131,075,215	636	61,059,928	510	70,015,287
1993-94	1,322	142,563,794	755	77,763,782	567	64,800,012
1994-95	1,147	139,199,221	616	70,222,653	531	68,976,568
1995-96	1,191	134,469,155	697	76,698,552	494	57,770,603

Source: Office of Research Services, University of Hawaii, *1995-1996 Extramural Awards* (1996), p. i.

Table 17.26-- RESEARCH AND DEVELOPMENT EXPENDITURES AT DOCTORATE-GRANTING INSTITUTIONS: 1991 TO 1995

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

Type of expenditure	1991	1992	1993	1994	1995
Total R&D expenditures	78,166	80,258	73,961	70,079	78,429
Federally financed	44,857	47,684	41,362	39,392	44,238
All others	33,309	32,574	32,599	30,687	34,191

Source: National Science Foundation/SRS, *Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1995*.

**Table 17.27-- PATENTS ISSUED TO HAWAII RESIDENTS:
1987 TO 1997**

[Revised. Data include design, plant, reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1987	46	1993	106
1988	62	1994	99
1989	71	1995	84
1990	85	1996	104
1991	80	1997	1/ 93
1992	81		

1/ Hawaii ranked 46th among the 50 states.

Source: U.S. Department of Commerce, U.S. Patent and Trademark Office, *Patent Counts by Country/State and Year, All Patents, All Types, January 1, 1977 -- December 31, 1997* (May 1998) at http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_all.pdf.

**Table 17.28-- ASTRONOMY AND RELATED FACILITIES AT
THE SUMMITS OF MAUNA KEA AND HALEAKALA: 1997**

Facility (mirror diameter in meters)	Capital cost (\$ mil)	Annual operating cost (\$ mil)	Hawaii County based staff	Operational
Mauna Kea:				
UH 0.6-m (Optical)	0.3	(X)	(X)	1969
UH 2.2-m (Optical/Infrared)	5	0.75	8	1970
Canada-France-Hawaii 3.6-m (Optical/Infrared)	30	6.2	50	1979
NASA IRTF 3.0-m (Infrared)	10	3.0	12	1979
United Kingdom Infrared 3.8-m	5	2.7	31	1979
James Clerk Maxwell 15-m Submillimeter	32	3.5	43	1986
Caltech 10.4-m Submillimeter	10	2.1	10	1986
W.M. Keck Observatory (Keck I & II) 10-m x 2 (Optical/Infrared)	170	11.0	85	1992/96
VLBA Antenna 25-m (Radio)	7	0.25	2	1992
Submillimeter Array 8x6-m 1/	80	6.0	2/ 26	1999
Subaru (Japan National Large Telescope) 8-m (Optical/Infrared) 1/	170	8.0	2/ 30	1999
Gemini Northern 8-m (Optical/Infrared) 1/	100	5.0	2/ 30	1999
Mauna Kea Observatories Support Services	n/a	3/ 1.9	24	
Total	619	48.5	351	
Haleakala:				
Mees Solar Observatory	0.5	0.1	2	1964
Lunar Ranging Facility	3.3	0.7	7	1976/84
Haleakala Observatories Projects		0.5	4	
Maui Space Surveillance Site (MSSS) 4/ Advanced Electro-Optical System 3.7-m Telescope (AEOS)	200.0	16.0	120	
Haleakala Support Facilities	50.0	15.0	55	1997
Total	253.8	32.43	194	

X Not applicable.

1/ Under construction.

2/ Approximate expected number when in operation.

3/ Not included in the total since derived from facility operating funds.

4/ Formerly Air Force Maui Optical Station (AMOS).

Source: University of Hawaii at Manoa, Institute for Astronomy, *Fact Sheet*-- February 1, 1998.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic. Other information bearing on transportation appears in Sections 7, 12, 14, and 24.

The chief source for transportation statistics is the Hawaii State Department of Transportation, its Highways, Harbors and Airports Divisions and the Motor Vehicle Safety Office. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, U.S. Census of Transportation, Communications, and Utilities, Honolulu Public Transit Authority, county finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in *Historical Statistics of Hawaii*, Section 17. Another source of long-term trend information is *What People Paid to Travel*, published by the Hawaiian Historical Society in 1991. Similar statistics for other areas are reported in the *Statistical Abstract of the United States: 1997*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 1997

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	26.1	Kaunakakai-Maunaloa	16.5
Hilo-Mauna Kea summit	39.3	Kaunakakai-Airport	7.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	11.5
Hilo-Kailua, via Naalehu	125.2		
Hilo-Kailua, via Saddle Rd.	84.3	OAHU 1/	
Hilo-Kailua, via Hamakua	91.2	Honolulu-Ala Moana Center	1.6
Hilo-Waimea, via Saddle Rd.	57.9	Honolulu-UH, via King Street	3.2
Hilo-Waimea, via Hamakua	55.3	Honolulu-Waikiki	3.2
Hilo-Upolu Pt., via Hamakua	83.7	Honolulu-Waimanalo, via Koko Head	21.8
Hilo-Kawaihae, via Hamakua	69.5	Honolulu-Waimanalo, via Nuuanu	13.3
Waimea-Hawi	21.4	Honolulu-Kailua, via Nuuanu	11.6
Waimea-Kawaihae	11.5	Honolulu-Kaneohe, via Kalihi	10.8
Kawaihae-Hawi	18.0	Honolulu-Kahuku, via Kahaluu	36.2
Kawaihae-Kailua	48.4	Honolulu-Kahuku, via Wahiawa	46.2
Kailua-Keahole Airport	6.8	Honolulu-Kaena Pt., via Wahiawa	42.4
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Waianae	44.3
		Honolulu-Wahiawa	20.5
MAUI		Honolulu-Pearl Harbor Shipyard	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	4.8
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.7	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	33.0
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.1
Wailuku-Makena	17.6	Circle island, via Nuuanu Pali	81.1
Wailuku-Lahaina, via Kahakuloa	38.0		
Wailuku-Lahaina, via Olowalu	20.9	KAUAI	
Kahului-Kihei	7.9	Lihue-Haena	38.0
Lahaina-Wailea	32.4	Lihue-Wailua	5.9
Lahaina-Napili	8.9	Lihue-Lihue Airport	2.0
Lahaina-Kaanapali	3.7	Lihue-Poipu	11.9
LANAI		Lihue-Mana	32.9
		Lihue-Kalalau Lookout	44.6
Lanai City-Lanai Airport	2.7	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	8.0	Poipu-Princeville	40.7

1/ Honolulu distances measured from South King and Bishop Streets; Waikiki, from Kalakaua Avenue and Lewers Street.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1993 AND 1994

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
1993				
State total	4,105.94	96.82	3,811.12	198.00
Hawaii 1/	1,433.10	6.56	1,367.17	59.37
Maui 1/	621.90	3.21	561.99	56.70
Lanai	46.68	-	32.68	14.00
Molokai	129.33	-	117.33	12.00
Oahu	1,471.47	87.05	1,350.98	33.44
Kauai	403.46	-	380.97	22.49
Niihau	-	-	-	-
1994				
State total	4,100.07	77.33	3,824.74	198.00
Hawaii 1/	1,420.89	-	1,361.52	59.37
Maui 1/	609.24	-	552.54	56.70
Lanai	46.59	-	32.59	14.00
Molokai	129.26	-	117.26	12.00
Oahu	1,485.75	77.33	1,374.98	33.44
Kauai	408.34	-	385.85	22.49
Niihau	-	-	-	-

1/ Significant changes from previously published data are due to reinventories of roads to reflect extensive revisions in the functional classification of highway systems.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.03-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1970 TO 1994

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1970	1975	1980	1985	1990	1994
Total mileage	3,529	3,743	3,912	4,070	4,101	4,100
Paved	3,047	3,355	3,591	3,808	3,887	3,902
Unpaved	482	389	321	262	214	198

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.04-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1997

Island	Number of bridges 1/	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State	734	Airport Viaduct	14,890	Nanue	208
Hawaii	133	Hakalau	775	Nanue	208
Maui	99	Honokahua	600	Uaoa	79
Lanai	-	None	-	None	-
Molokai	19	Manawainui	360	Manawainui	50
Oahu	429	Airport Viaduct	14,890	Kipapa	156
Kauai	54	Hanamaulu	1,150	Wahiawa, Koloa	90

1/ Limited to bridges under State jurisdiction and 20 feet or longer.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.05-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1997

Island and name of tunnel	Length (feet)
Oahu:	
Pali No. 1: Inbound (to Honolulu)	1,000
Outbound (from Honolulu)	1,080
Pali No. 2: Inbound	500
Outbound	497
Wilson: Inbound	2,775
Outbound	2,813
H-3: Inbound	4,890
Outbound	5,165
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 18.06-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1987 TO 1997**

[Taxable and exempt vehicles. Includes vehicles registered but subsequently scrapped or shipped out of the State]

Year	All vehicles registered	Motor vehicles			
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1987	818,430	798,317	661,674	54	4,198
1988	838,327	817,609	670,877	52	4,215
1989	876,848	855,057	695,397	54	4,203
1990	911,283	889,096	718,204	55	4,308
1991	920,124	897,193	717,907	54	4,309
1992	908,738	885,761	703,983	53	4,282
1993	903,550	880,152	693,283	48	4,032
1994	898,008	875,144	691,158	53	3,772
1995	901,291	877,756	694,239	54	3,660
1996	907,770	884,617	703,094	59	3,468
1997	906,964	884,267	704,693	54	3,226
		Motor vehicles -- continued			
Year	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor-scooters 2/	Trailers and semi-trailers
1987	119,338	1,220	318	11,515	20,113
1988	129,452	1,176	293	11,544	20,718
1989	141,845	1,107	292	12,159	21,791
1990	152,453	1,043	313	12,720	22,187
1991	159,831	972	323	13,797	22,931
1992	160,952	871	298	15,322	22,977
1993	165,209	757	283	16,540	23,398
1994	162,348	630	249	16,934	22,864
1995	161,609	567	239	17,388	23,535
1996	160,013	504	225	17,254	23,153
1997	158,457	457	220	17,160	22,697

1/ Vans, pickups, and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.07-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1987 TO 1997**

[Taxable and exempt vehicles. Includes passenger cars, ambulances, buses, trucks, motorcycles and vehicles registered but subsequently scrapped or shipped out of the State. Excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1987	798,317	571,738	93,095	43,925	89,559
1988	817,609	579,998	96,360	47,235	94,016
1989	855,057	599,379	103,724	51,455	100,499
1990	889,096	612,742	110,834	55,927	109,593
1991	897,193	613,119	113,265	57,751	113,058
1992	885,761	611,513	113,080	51,165	110,003
1993	880,152	604,602	111,138	54,068	110,344
1994	875,144	600,087	111,532	52,817	110,708
1995	877,756	601,239	111,624	52,364	112,529
1996	884,617	598,772	115,647	52,984	117,214
1997	884,267	595,121	118,364	53,904	116,878

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1997**

[Taxable and exempt vehicles. Includes vehicles registered but subsequently scrapped or shipped
out of the State]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	906,964	607,609	123,522	56,207	119,626
Motor vehicles	884,267	595,121	118,364	53,904	116,878
Passenger vehicles 1/	704,693	484,761	90,281	39,078	90,573
Ambulances	54	30	14	-	10
Buses	3,226	2,633	240	25	328
Trucks 1/	158,457	95,102	25,393	14,027	23,935
Truck tractors	457	201	103	42	111
Truck cranes	220	112	16	13	79
Motorcycles, motorscooters 2/	17,160	12,282	2,317	719	1,842
Trailers and semi-trailers	22,697	12,488	5,158	2,303	2,748

1/ Vans, pickups, and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.09-- VEHICLE REGISTRATION, BY TAXATION STATUS, FOR
COUNTIES: DECEMBER 31, 1997**

[Includes vehicles registered but subsequently scrapped or shipped out of state. Excludes trailers, semi-trailers and motorcycles]

Taxation status	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Total registered	867,107	582,839	116,047	53,185	115,036
Taxable vehicles	799,943	518,793	114,888	52,442	113,820
Exempt vehicles	67,164	64,046	1,159	743	1,216
Federal government	342	329	10	-	3
State government	4,799	4,799	-	-	-
County government	6,070	4,090	553	470	957
Fire department	222	55	109	32	26
Police department	1,568	1,234	331	-	3
Consulates	67	66	-	-	1
Disabled veterans	118	82	8	21	7
Military non-resident	53,556	53,204	84	207	61
Farm	360	135	56	11	158
Horseless carriage	44	35	7	2	-
Electric vehicles	18	17	1	-	-

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.10-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS,
BY COUNTIES: 1990**

Vehicles available	State total	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units	356,267	41,461	265,304	62	16,295	33,145
None	35,159	3,100	29,406	26	777	1,850
1	128,513	14,676	98,542	6	4,573	10,716
2	127,011	16,154	91,032	24	6,699	13,102
3	43,580	5,316	30,415	6	2,874	4,969
4	15,187	1,606	10,996	-	907	1,678
5 or more	6,817	609	4,913	-	465	830

Source: U.S. Bureau of the Census, *1990 Census of Housing, Detailed Housing Characteristics, Hawaii*, 1990 CH-2-13 (August 1993), tables 14 and 67.

Table 18.11-- TRUCK CHARACTERISTICS: 1977 TO 1992

Vehicular and operational characteristics	1977	1982	1987	1992
Total trucks (1,000)	...	...	160.8	280.3
Percent	100.0	100.0	100.0	100.0
Major use: Personal transportation	50.0	54.3	60.5	61.7
Body type: Pickup, panel, or mini-van	85.1	89.1	91.2	93.8
Vehicle size: Light	89.0	92.9	94.6	95.6
Annual miles: Less than 10,000	54.1	59.7	57.0	50.0
Year model: Over 4 years old	68.1	75.8	62.1	66.8
Vehicle acquisition: Purchased new	54.6	47.3	49.6	54.3
Truck type: Single-unit, 2 axles	95.7	96.6	96.4	91.9
Range of operation: Local	87.3	78.2	80.2	79.3
Fuel type: Diesel and LPG	4.6	3.7	5.4	4.7

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Truck Inventory and Use Survey, Hawaii*, TC92-T-12 (December 1994), tables 1 and 2.

**Table 18.12-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1992 TO 1997**

Year	State total	Honolulu	Maui	Hawaii	Kauai
1992	83,357	47,082	17,503	10,928	7,844
1993	79,168	45,833	16,918	10,111	6,306
1994	83,093	46,664	18,940	10,660	6,829
1995	72,526	41,880	15,786	9,359	5,501
1996	68,765	40,425	14,497	8,527	5,316
1997	71,777	40,349	15,629	9,368	6,431

Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.13-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY NAMEPLATE: 1995 TO 1997**

Nameplate 1/	1995		1996		1997	
	Rank	Units	Rank	Units	Rank	Units
All nameplates	...	72,526	...	68,375	...	71,777
Chevrolet/Geo	2	9,348	2	7,902	1	11,848
Ford	1	14,178	1	11,003	2	11,781
Toyota	4	6,572	3	7,355	3	7,634
Dodge	6	5,030	5	5,485	4	6,210
Nissan	3	7,360	4	7,160	5	5,204
Honda	5	5,103	6	4,708	6	4,823
All others	...	24,935	...	24,762	...	24,277

1/ Shown separately for first six in 1997.

Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.14-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
RETAIL AND RENTAL, BY PLACE OF MANUFACTURE: 1996 AND 1997**

Year and place of manufacture	Cars and trucks	Cars			Trucks		
		Total	Retail	Rental	Total	Retail	Rental
1996, total	68,765	61,240	33,955	27,285	7,525	7,525	-
Domestic	42,783	37,948	15,811	22,137	4,835	4,835	-
Imports	25,982	23,292	18,144	5,148	2,690	2,690	-
Percent imports	37.8	38.0	53.4	18.9	35.7	35.7	-
1997, total	71,777	63,952	34,858	29,094	7,825	7,629	196
Domestic	47,187	41,661	15,594	26,067	5,526	5,330	196
Imports	24,590	22,291	19,264	3,027	2,299	2,299	-
Percent imports	34.3	34.9	1/ 55.3	10.4	29.4	30.1	-

1/ Revised by the Hawaii State Department of Business, Economic Development & Tourism.
Source: Hawaii Automobile Dealers Association, *HADA* (annual).

**Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1991 TO 1996**

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1991	699,664	501,260	86,181	38,894	73,329
1992	716,545	510,901	89,436	39,947	76,261
1993	734,381	522,016	92,264	41,910	78,191
1994	745,392	527,756	94,257	42,736	80,643
1995	732,508	516,780	94,048	42,041	79,639
1996	733,486	515,780	94,943	41,775	80,988

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1995 AND 1996**

Age	Both sexes		Male		Female	
	1995	1996	1995	1996	1995	1996
Total	732,508	733,486	390,225	389,483	342,283	344,003
15 to 19 years	38,283	37,456	20,695	20,385	17,588	17,071
20 to 24 years	61,947	59,862	32,941	31,688	29,006	28,174
25 to 34 years	161,342	157,320	84,008	81,578	77,334	75,742
35 to 44 years	174,383	173,455	90,188	89,422	84,195	84,033
45 to 54 years	134,188	139,829	71,529	74,126	62,659	65,703
55 to 64 years	75,702	76,881	40,663	41,416	35,039	35,465
65 to 74 years	60,671	60,687	33,618	33,211	27,053	27,476
75 to 84 years	23,460	25,215	14,769	15,672	8,691	9,543
85 years and over	2,532	2,781	1,814	1,985	718	796
Median age (years)	41.0	41.5	41.4	41.8	40.6	41.1

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.17-- DRIVING COST, FOR HONOLULU AND SELECTED MAINLAND CITIES: 1995

[Total annual vehicle costs shown are based on a 1995 Ford Taurus GL, 6-cylinder, 4-door sedan driven 15,000 miles per year with a 4-year, 60,000-mile retention cycle. Costs include both ownership expenses of insurance, depreciation, license and registration fees and miscellaneous taxes; and operating expenses of fuel, oil, tires and maintenance]

City	Rank 1/	Annual cost (dollars)	Cost per mile (cents)
Los Angeles	1	8,375	55.8
San Francisco	7	7,152	47.7
Honolulu	8	6,832	45.5
Phoenix	9	6,772	45.1
Detroit	10	6,731	44.9
Sioux Falls	80	5,368	35.8

1/ Among 80 cities surveyed.

Source: Runzheimer International, cited in *The Honolulu Advertiser*, April 4, 1995, p. A1.

**Table 18.18-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
1987 TO 1997, AND BY COUNTIES, 1995 TO 1997**

Year and county	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1987	367,984	461	7,217.2	9,041
1988	378,988	464	7,400.8	9,052
1989	395,945	463	7,748.1	9,062
1990	395,185	444	8,065.4	9,071
1991	406,819	453	8,142.2	9,075
1992	405,963	457	8,065.5	9,070
1993	409,940	468	7,945.3	9,063
1994	428,558	490	7,925.2	9,056
1995	422,884	482	7,944.1	9,051
1996	426,370	482	8,005.9	9,050
1997	421,499	477	8,003.0	9,050
COUNTIES: 1995				
Honolulu	279,016	466	5,280.6	8,822
Hawaii	65,609	582	1,098.1	9,735
Kauai	24,625	457	555.3	10,311
Maui	53,634	477	1,010.1	8,977
COUNTIES: 1996				
Honolulu	281,130	471	5,258.9	8,818
Hawaii	65,567	562	1,136.1	9,735
Kauai	24,327	447	561.4	10,308
Maui	55,346	473	1,049.5	8,968
COUNTIES: 1997				
Honolulu	276,658	467	5,225.2	8,813
Hawaii	66,379	556	1,161.5	9,735
Kauai	24,691	463	570.3	10,305
Maui	53,771	461	1,046.0	8,963

1/ Includes gasoline, diesel oil, and butane gas.

2/ Based on motor vehicle total by county of inspection; includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

**Table 18.19-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU
SURVEY SITES: 1995 TO 1997**

Site	1995	1996	1997
Pali Highway at tunnels	55,275	54,626	53,200
Likelike Highway at tunnels	53,515	52,122	50,837
H-1 Freeway at Manoa-Palolo Drainage Canal	110,046	114,229	115,262
H-1 Freeway at Kapalama Drainage Canal Bridge	222,410	222,386	222,253
Nimitz Highway at Kapalama Drainage Canal Bridge	94,794	83,583	83,851
Kalaniana'ole Highway east of Ainakoa Ave.	78,645	82,469	83,720

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.20-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1988 TO 1993

[Average speeds, in miles per hour. Years ended September 30]

Year	Statewide	Urban interstate	Rural	
			Arterials 1/	Major collectors
1988	56.2	59.5	52.0	52.3
1989	55.7	58.2	52.4	53.1
1990	56.7	58.9	53.5	54.9
1991	55.0	57.0	52.0	52.1
1992	56.2	57.8	53.4	55.5
1993	2/ 56.3	58.4	53.6	52.7

1/ Other than freeways and expressways.

2/ The corresponding U.S. average was 56.9. Hawaii ranked 39th among the 50 states.

Source: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* (annual).

Table 18.21-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1984 TO 1994, AND BY COUNTIES, 1992 TO 1994

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1984	17,657	127	12,390	136
1985	19,577	118	12,613	126
1986	20,854	108	10,941	117
1987	23,625	126	11,996	138
1988	26,071	129	12,818	149
1989	26,891	127	12,835	147
1990	26,639	154	14,048	176
1991	21,824	119	12,792	135
1992	21,834	121	13,403	128
1993	21,464	121	13,879	133
1994	(NA)	110	(NA)	122
COUNTIES: 1992				
Honolulu	16,617	64	9,308	66
Hawaii	2,932	26	2,055	27
Kauai	784	10	671	10
Maui	1,501	21	1,369	25
COUNTIES: 1993				
Honolulu	16,456	71	9,803	76
Hawaii	2,857	29	2,165	31
Kauai	680	6	553	9
Maui	1,471	15	1,358	17
COUNTIES: 1994				
Honolulu	(NA)	61	(NA)	65
Hawaii	(NA)	28	(NA)	33
Kauai	(NA)	9	(NA)	12
Maui	(NA)	12	(NA)	12

NA Not available.

1/ Through 1990, includes traffic accidents with damage of \$300 or more or causing injury or death. Effective 1991, includes only accidents with damage of \$1,000 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Motor Vehicle Safety Office, records.

**Table 18.22-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1995 TO 1997**

[As of December 31]

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	1995	1996	1997	1995	1996	1997
Hawaii	129	137	154	3,131	2,395	3,254
Maui	213	213	216	4,393	4,446	5,098
Lanai	-	-	-	55	41	93
Molokai	-	-	-	201	61	154
Oahu	3/ 1,934	3/ 1,904	3/ 1,544	102,636	107,784	99,365
Kauai	-	-	-	1,294	1,049	1,003

1/ Licensed during the calendar year. Taxicabs are licensed annually, except in Kauai County, where registration is not required.

2/ Bicycles with wheels having a diameter of 20 inches or more and all mopeds, both of which were formerly licensed on an annual basis, have, since November 1, 1988, been registered biennially; see SLH 1988, Act 264, sec. 1.

3/ Fiscal year ending on June 30.

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

Table 18.23-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY SIZE OF PASSENGER CAR, FOR OAHU: 1989 TO 1995

[Average rates in dollars for nonresidents, including collision damage waiver insurance, reported by Avis, Hertz, National, and Alamo]

Date	Sub-compact	Compact	Mid-size	Full-size
October 18, 1989	37.93	38.92	43.68	48.94
August 13, 1990	39.97	46.46	49.71	57.21
August 28, 1991	30.62	34.19	37.44	43.19
September 3, 1992	46.49	45.96	50.71	57.96
September 8, 1993	44.73	45.99	49.49	56.99
January 20, 1995	54.23	54.98	61.23	67.23

Source: Information provided by listed companies.

**Table 18.24-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS
(SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES:
1992 AND 1995**

Subject	State total 1/		Counties (SIC 751)			
	SIC 751	SIC 7514	Honolulu	Hawaii	Kauai	Maui
1992						
No. of establishments	82	64	36	18	6	22
Receipts (mil. dol.)	332.1	320.0	195.0	38.6	23.6	74.8
1995 2/						
No. of establishments	78	60	37	13	7	21

1/ Most of the receipts for SIC 751 in 1992 were reported in SIC 7514, passenger car rental. Other subgroups under SIC 751 were SIC 7513, truck rental and leasing, without drivers; SIC 7515, passenger car leasing; and SIC 7519, utility trailer and recreational vehicle rental.

2/ Receipts are not available for 1995.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 6, and 7a, and *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), tables 1b and 2.

**Table 18.25-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES:
SEPTEMBER 1995**

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,345	8,228	223,693	5,518	31,481
Hawaii	119	1,167	36,840	1,391	4,462
Maui	219	1,786	45,926	849	3,979
Honolulu	908	4,517	120,924	2,862	19,990
Kauai	99	758	20,003	416	2,181

1/ Includes mostly tour bus operators; excludes public transit, school buses, taxicabs, and rental car companies.

2/ Includes truckers, moving companies, etc.

Source: Compiled by Hawaii State Department of Transportation, Motor Vehicle Safety Office, from Hawaii State Department of Commerce and Consumer Affairs, Public Utilities Commission.

Table 18.26-- PUBLIC TRANSIT, FOR OAHU: 1987 TO 1997

[Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage 1/	Total passengers 2/	Revenues (dollars)
1987	460	16,733,510	74,066,369	18,659,459
1988	470	17,124,317	74,467,760	18,824,046
1989	475	17,525,608	74,964,453	18,843,083
1990	475	18,080,500	75,648,930	18,914,500
1991	475	18,308,282	76,540,997	19,283,803
1992	475	18,437,228	78,416,523	19,534,923
1993	495	18,507,642	79,343,403	20,751,058
1994	495	19,323,877	79,309,437	24,849,857
1995	525	19,277,975	80,837,153	26,960,330
1996	525	19,407,383	76,363,729	30,262,762
1997	525	19,748,202	74,407,852	29,572,046

1/ Estimated number of vehicle miles.

2/ Estimated number of passengers, including senior citizens and disabled.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

**Table 18.27-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND
AVERAGE BUS SPEED, FOR OAHU: 1995 TO 1997**

[Calendar year data for City and County of Honolulu bus system]

Fare category	1995	1996	1997
All passengers	80,837,153	76,363,729	74,407,852
Adults, full fare	48,159,154	43,800,889	42,191,326
Students	12,180,103	12,898,855	12,657,287
School subsidy	337,839	397,578	419,266
Stadium express	7,231	6,341	6,792
Senior citizens and disabled	16,044,418	15,340,261	14,863,996
Free transfers	4,108,408	3,819,725	3,712,865
Visitor pass	-	100,080	532,294
Average bus speed (m.p.h.)	15.0	15.0	15.0

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

Table 18.28-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1998

[In dollars]

Effective date	Cash fares 1/		Monthly passes	
	Adult	School	Adult	School
March 1, 1971	.25	.15	...	...
March 2, 1971	.25	.10	...	...
June 9, 1972 2/	.25, .50	.10, .25	...	...
March 15, 1974	.25	.10	...	...
November 1, 1979	.50	.25	15.00	7.50
June 18, 1984	.60	.25	15.00	7.50
October 1, 1993	.85	.25	20.00	7.50
July 1, 1995 3/	1.00	.50	25.00	12.50

1/ In addition, there have been special fares for children, disabled persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated and later eliminated.

3/ Most recent change as of April 28, 1998.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

**Table 18.29-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1987 TO 1997**

[The Lahaina Kaanapali & Pacific Railroad operates between Lahaina and Kaanapali on the island of Maui and the Hawaiian Railway operates in the Ewa District on the island of Oahu]

Calendar year	Lahaina Kaanapali & Pacific Railroad		Hawaiian Railway		Calendar year	Lahaina Kaanapali & Pacific Railroad		Hawaiian Railway	
	Miles of track	Passengers	Miles of track	Passengers		Miles of track	Passengers	Miles of track	Passengers
1987	6.0	244,555	(NA)	(NA)	1993	6	388,484	(NA)	(NA)
1988	6.0	285,139	(NA)	(NA)	1994	6	390,862	5.0	1/ 12,821
1989	6.0	296,391	(NA)	(NA)	1995	6	447,211	6.5	16,704
1990	6.0	308,910	(NA)	(NA)	1996	6	418,099	6.5	19,678
1991	6.0	316,079	(NA)	(NA)	1997	6	369,327	6.5	20,850
1992	6.0	385,261	(NA)	(NA)					

NA Not available.

1/ Data incomplete.

Source: Lahaina Kaanapali & Pacific Railroad, records; Hawaiian Railway, records.

**Table 18.30-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
1995 TO 1997**

[As of December 31]

Island	Airports 1/				Heliports 2/	
	State 3/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
1995						
State total	9	7	5	-	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	-	1
Kauai	2	1	-	-	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	-	-	1	-	-	-
1996						
State total	9	7	5	-	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	-	1
Kauai	2	1	-	-	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	-	-	1	-	-	-

Continued on next page.

**Table 18.30-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
1995 TO 1997 -- Con.**

Island	Airports 1/				Heliports 2/	
	State 3/		Military	Semi-private	State: commercial	Semi-private
	Com-mercial	General aviation				
1997						
State total	9	7	4	-	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	-	1
Kauai	2	1	-	-	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	1	-	-	-	-	-

1/ Excludes private airports.

2/ Excludes military and private heliports.

3/ Three airports classified as general aviation fields (Waimea-Kohala, Hana, and Kalaupapa) provide regular air service.

4/ Owned by the U.S. Department of the Interior, Fish and Wildlife Service.

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.31-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN
OPERATIONS AND ENPLANED PASSENGERS: 1991 TO 1993**

Subject	Rank 1/			Number		
	1991	1992	1993	1991	1992	1993
Total aircraft operations	16	22	24	403,570	403,708	358,543
Air carrier operations	21	21	23	196,047	202,559	185,959
Total enplaned passengers 2/	15	15	19	8,772,316	8,740,091	8,484,364

1/ Among all FAA-operated airport traffic control towers in the United States.

2/ For large scheduled certificated air carriers, both scheduled and nonscheduled operations.

Source: U.S. Department of Transportation, Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual).

Table 18.32-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 1995 TO 1997

[An FAA directive dated December 8, 1987, requires all aircraft with 60 seats or less to be designated as air taxis, even if such aircraft are operated by a designated air carrier. This reclassification especially affects the data for Molokai Airport]

Airport	All movements	Air carrier	Air taxi	General aviation	Military
1995					
Honolulu International	373,926	198,248	71,703	80,522	23,453
Hilo International	84,917	21,402	33,084	22,384	8,047
Kahului	179,883	65,791	80,349	30,691	3,052
Lihue	97,400	27,788	56,024	9,597	3,991
Kona International	73,537	25,436	17,556	21,444	9,101
Molokai	45,517	1,194	30,365	9,460	4,498
1996					
Honolulu International	372,268	203,671	62,516	82,541	23,540
Hilo International	87,862	21,109	36,228	22,845	7,680
Kahului	178,590	67,136	78,722	29,976	2,756
Lihue	106,332	29,246	60,489	12,705	3,892
Kona International	77,025	29,195	16,556	21,591	9,683
Molokai	49,221	1,003	34,753	10,744	2,721
1997					
Honolulu International	358,784	185,557	61,894	87,584	23,749
Hilo International	101,521	21,616	47,229	25,020	7,656
Kahului	173,342	64,599	81,105	25,211	2,427
Lihue	111,349	29,996	60,267	17,259	3,827
Kona International	87,358	27,462	14,954	37,549	7,393
Molokai	44,667	1,017	31,290	10,844	1,516

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.33-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1987 TO 1997**

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu Inter- national Airport	Hilo Inter- national Airport 1/	Kona International Airport 2/	Kahului Airport	Lihue Airport	Molokai Airport
1987	385,275	80,123	67,497	165,920	134,495	50,829
1988	377,919	85,267	56,584	173,053	122,268	50,456
1989	403,635	93,202	55,674	177,803	116,742	47,208
1990	407,048	98,755	60,086	182,686	113,860	43,509
1991	403,566	88,206	56,140	180,857	112,679	47,898
1992	403,628	91,055	63,939	178,752	103,686	35,662
1993	358,505	92,297	59,904	172,265	70,910	39,057
1994	359,569	86,292	66,438	179,227	91,582	38,369
1995	373,926	84,917	73,537	179,883	97,400	45,517
1996	372,268	87,862	77,025	178,590	106,332	49,221
1997	358,784	101,521	87,358	173,342	111,349	44,667

1/ Formerly General Lyman Field; new name became effective July 1, 1989.

2/ Formerly Keahole Airport; new name became effective April 26, 1993.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.34-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS SERVING HAWAII: 1994 TO 1997

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines and other air taxi service]

Service	1994	1995	1996	1997
All carriers	46	44	39	40
Transpacific only	28	26	24	25
Domestic	11	12	12	12
Foreign	17	14	12	13
Transpacific and interisland	5	4	5	6
Interisland only	13	14	10	9
Passenger carriers	9	11	6	6
Cargo and mail only	4	3	4	3

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.35-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR
ARRIVING FLIGHTS: 1989 TO 1994**

Year	Total	Westbound and southbound	Eastbound and northbound
1989	11,005,765	7,241,987	3,763,778
1990	11,779,602	7,367,305	4,412,297
1991	11,851,900	7,157,210	4,694,690
1992	11,424,600	6,362,440	5,062,160
1993	10,752,580	5,882,450	4,870,130
1994	9,946,830	5,551,880	4,394,950

Source: Hawaii Visitors Bureau, records.

Table 18.36-- CIVIL FLYING: 1990 TO 1993

Item	1990	1991	1992	1993
Aircraft facilities, Dec. 31	50	48	47	47
Airports	34	33	32	32
Heliports	16	15	15	15
Public aircraft facilities, Dec. 31	16	17	17	18
Paved and lighted facilities, Dec. 31	12	12	13	13
Large aircraft in operation, Dec.	52	56	59	50
Aloha Airlines	17	19	21	17
Hawaiian Airlines	35	29	29	24
Mid Pacific Airlines	-	8	9	9
General aviation: 1/				
Active civil aircraft, Dec.	561	484	372	312
Hours flown (1,000)	278	259	176	140
Active personnel, Dec. 31:				
Pilots, except instructors	3,505	3,339	3,293	3,088
Flight instructors	309	350	388	360
Nonpilot airmen 2/	3,306	3,492	3,711	3,828

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1993, 29.8 percent for aircraft and 42.2 percent for hours).

2/ Mechanics, parachute riggers, ground instructors, dispatchers, flight navigators, and flight engineers.

Source: U.S. Department of Transportation, Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual).

**Table 18.37-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1987 TO 1997**

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Overseas passengers 1/			Inter-island passenger arrivals
	Arrivals	Departures	Through	
1987	6,265,211	6,317,747	1,109,850	8,802,594
1988	6,653,346	6,713,621	1,421,707	8,964,928
1989	7,022,986	7,234,653	1,167,954	9,634,077
1990	7,310,635	7,562,156	1,065,408	9,907,154
1991	7,135,595	7,215,323	1,020,464	9,368,576
1992	7,248,645	7,087,463	1,318,044	9,568,434
1993	6,924,571	6,907,236	1,298,684	9,345,320
1994	7,309,894	7,478,052	956,926	9,920,709
1995	7,517,273	7,692,494	750,495	10,388,281
1996	7,700,229	7,992,620	690,833	10,581,825
1997	7,788,367	7,874,798	706,030	10,448,099

1/ Includes West Coast, Canada, Europe, and the Central and South Pacific.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.38-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1995

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	2/ 7,692,494	7,517,273	168,382	138,208	24,528	59,049
Honolulu	2/ 6,842,155	6,616,072	158,817	130,825	24,503	59,049
Hilo	-	-	50	-	15	-
Kahului	737,044	791,601	6,092	5,586	10	-
Keahole-Kona	113,115	108,972	3,423	1,797	-	-
Lihue	180	628	-	-	-	-
INTERISLAND						
Total	10,388,281	10,388,281	74,587	74,587	13,823	13,823
Honolulu	4,700,528	4,763,644	44,339	28,055	8,751	5,069
Hilo	803,417	824,298	15,121	9,206	1,204	2,045
Upolu	-	-	-	-	-	-
Waimea-Kohala	1,651	1,194	8	10	-	-
Keahole-Kona	1,051,409	1,029,959	5,207	9,085	948	1,762
Kahului	2,295,009	2,231,107	6,020	17,294	2,021	3,145
Hana	6,446	6,273	1	-	-	-
Kapalua	74,014	73,284	249	538	-	-
Molokai	121,371	121,760	162	397	53	29
Kalaupapa	6,211	5,766	-	-	-	-
Lanai	83,138	86,544	6	589	-	66
Lihue	1,235,203	1,234,476	3,474	9,413	846	1,707
Princeville 3/	9,884	9,976	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).

2/ Excludes overseas passengers in transit (750,495, passing through Honolulu International Airport).

3/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.39-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1996

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	2/ 7,992,620	7,700,229	177,733	148,428	24,327	57,204
Honolulu	2/ 7,186,081	6,773,519	167,341	141,060	24,327	57,204
Hilo	-	-	158	19	-	-
Kahului	680,302	768,174	7,184	5,776	-	-
Keahole-Kona	121,704	154,187	3,050	1,573	-	-
Lihue	4,533	4,349	-	-	-	-
INTERISLAND						
Total	10,581,825	10,581,825	80,392	80,392	14,786	14,786
Honolulu	4,785,165	4,891,139	46,743	29,180	9,113	5,389
Hilo	795,216	827,527	15,363	10,092	1,502	2,389
Upolu	-	-	-	-	-	-
Waimea-Kohala	1,014	852	43	46	-	-
Keahole-Kona	1,154,761	1,093,750	7,358	10,505	966	1,482
Kahului	2,270,201	2,187,458	7,505	19,746	2,287	3,641
Hana	5,441	5,258	1	-	-	-
Kapalua	78,381	78,367	200	480	-	-
Molokai	121,872	175,605	126	555	8	76
Kalaupapa	4,216	3,885	-	-	1	6
Lanai	82,882	85,037	19	509	6	83
Lihue	1,276,454	1,276,471	3,034	9,279	903	1,720
Princeville 3/	6,222	6,476	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).

2/ Excludes overseas passengers in transit (690,833, passing through Honolulu International Airport).

3/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.40-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1997

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	2/ 7,874,798	7,788,367	212,495	181,799	25,606	55,168
Honolulu	2/ 6,941,107	6,740,962	201,757	174,411	25,437	55,144
Hilo	-	-	-	-	-	-
Kahului	770,110	828,364	6,988	5,772	167	23
Keahole-Kona	157,671	213,268	3,750	1,616	-	-
Lihue	5,910	5,773	-	-	2	1
INTERISLAND						
Total	10,448,099	10,448,099	86,577	86,577	15,636	15,636
Honolulu	4,645,878	4,846,369	49,983	29,242	10,317	5,284
Hilo	819,946	849,368	15,774	11,966	1,251	2,268
Upolu	-	9	-	-	-	-
Waimea-Kohala	1,300	830	54	21	48	121
Keahole-Kona	1,175,607	1,081,611	7,284	11,966	823	1,399
Kahului	2,208,703	2,070,434	8,984	22,122	2,195	4,643
Hana	5,126	4,955	1	-	-	-
Kapalua	88,485	89,444	236	482	-	-
Molokai	125,471	126,766	263	710	31	35
Kalaupapa	4,393	4,232	1	6	-	-
Lanai	88,777	89,626	154	721	37	31
Lihue	1,284,323	1,284,337	3,843	9,341	934	1,855
Princeville 3/	90	118	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).

2/ Excludes overseas passengers in transit (706,030, passing through Honolulu International Airport).

3/ Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.41-- AIR CARGO AND AIRMAIL: 1987 TO 1997

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
1987	234,098	212,717	23,560	29,004	122,481	17,561
1988	284,783	247,174	27,764	31,028	130,203	18,847
1989	313,402	301,674	28,258	33,542	146,960	20,706
1990	295,326	337,724	32,022	38,198	145,418	22,848
1991	306,376	342,032	33,658	44,281	144,104	23,673
1992	305,224	305,658	39,268	66,052	153,912	25,594
1993	307,302	255,516	52,324	112,970	147,054	26,406
1994	339,086	308,962	47,921	121,964	148,904	27,964
1995	336,764	276,416	49,056	118,098	149,174	27,646
1996	355,466	296,856	48,654	114,408	160,784	29,572
1997	424,990	363,598	51,212	110,336	173,154	31,272

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.42-- HELICOPTER TOURS: 1977 TO 1994

Subject	1977	1982	1987	1991	1992	1993	1994
Companies	9	14	33	33	31	25	25
Aircraft	15	35	72	88	89	87	82

Source: Hawaii Helicopter Operators Association, records.

**Table 18.43-- FLIGHTS SCHEDULED TO DEPART HONOLULU
INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1994**

[Data for the 652 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination	Flights during week		
	Total	Final destination	Intermediate point
Tokyo	83	64	19
Nagoya	14	14	-
Osaka	22	22	-
Fukuoka	11	11	-
Sapporo	4	4	-
Taipei	19	19	-
Seoul	27	20	7
Manila	12	12	-
Sydney	11	11	-
Auckland	13	13	-
Guam	24	19	5
Vancouver	9	9	-
Toronto	4	4	-
Seattle	21	14	7
San Francisco	74	60	14
Los Angeles	153	97	56
Las Vegas	9	9	-
Denver	14	7	7
Dallas/Fort Worth	28	21	7
Chicago	35	28	7
Atlanta	12	12	-
New York	7	7	-
All others	123	91	32

Source: Greeters of Hawaii, *Jiffisked* ^[tm] July 1994. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 18.44-- AIR FARES BETWEEN HONOLULU AND SELECTED MAINLAND CITIES, BY UNITED AIRLINES: 1993 TO 1998

[As of July 1. Unrestricted one-way weekday coach fares in dollars]

Between Honolulu and--	1993	1994	1995	1996	1997	1998 1/
San Francisco	566	566	596	530	521	521
Los Angeles	586	586	716	530	521	521
Chicago	886	886	916	-	925	924

1/ As of July 27.

Source: United Airlines, Customer Relations, records.

Table 18.45-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1993 TO 1998

[As of July 1. Prior to May 21, 1997, fares were identical between Honolulu and each of the Neighbor Islands]

Category	1993	1994	1995	1996	1997 1/		1998
					Zone 1	Zone 2	
Regular fare	74	74	74	85	78	80	88
Kamaaina fare: 2/							
Monday - Thursday	51	56	56	48	45	47	3/ 55
Friday - Sunday	59	64	64	48	47	49	3/ 57

1/ Fares based upon zones were used for only a short period of time.

2/ Available only to Hawaii residents.

3/ Lowest of three levels of kamaaina fares.

Source: Hawaiian Airlines, records.

Table 18.46-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR MAJOR AIRLINES: JULY 2-8, 1998

[Dollars. Includes taxes but does not reflect \$3.00 airport charge where applicable]

Carrier and fare category	Los Angeles	San Francisco	Seattle
United Airlines, one-way:			
First class	986	1/ 1,229	986
Coach (unrestricted)	522	1/ 522	522
United Airlines, round-trip:			
First class	1,975	2,458	2,626
Coach (unrestricted)	878	1,044	1,020
Major carriers, lowest round-trip: 2/			
United Airlines	497	494	447
Lowest carrier	497	494	447
Highest carrier	497	494	680

1/ For annual midyear (July 1) data on United Airlines unrestricted one-way coach fares, 1980-1997, see *Data Book 1997*, table 7.29. For earlier years, see Robert C. Schmitt, *What People Paid to Travel* (Hawaiian Historical Society, January 1991), table 12, pp. 40-41.

2/ Restrictions apply. Fares are subject to change without notice. Payment up to 21 days before travel may be required. Fare may not be available for travel on certain days of the week or holidays.

Source: *Honolulu Star-Bulletin*, July 3, 1998, p. D-1; United Airlines, records.

Table 18.47-- STATE COMMERCIAL HARBORS: 1997

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,787	122	566
Kawaihae	40	35	1,500	1,450	1,562	23	427
Maui:							
Kahului	35	35	2,400	2,050	3,019	86	888
Molokai:							
Kaunakakai	23	23	1,500	600	691	7.4	129
Oahu:							
Honolulu: 1/ Main	} 45	40	{ 3,300	1,520	} 29,308	1,380	8,460
Kapalama			{ 3,400	1,000			
Barbers Point	42	38	2,100	1,800	1,860	-	1,647
Kauai:							
Nawiliwili	40	35	1,950	1,540	2,068	70	1,379
Port Allen	35	35	1,500	1,200	1,200	35	32

1/ The piers were 28,631 linear feet in 1996. All other figures in this table are identical in 1996 and 1997.
 Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 18.48-- HARBOR DEPTHS: 1996

[In feet]

Harbor	Controlling depth		Project depth	
	Entrance channel	Basin	Entrance channel	Basin
Hilo	...	34	...	35
Kawaihae	42	36	40	35
Kahului	...	34	...	35
Honolulu	45	40	45	40
Barbers Point	42	37	42	38
Nawiliwili	41	34	40	35

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1996*, Part 4 (November 1997), pp. 49-56.

**Table 18.49-- SMALL CRAFT MOORING FACILITIES CAPACITY,
BY ISLANDS: DECEMBER 31, 1994**

Island	State-operated 1/				Non-State	
	Catwalks and piers		Other moorage		Slips	Other moorage 2/
	Total	Vacant	Total	Vacant		
State total	1,740	113	481	40	2,748	1,747
Hawaii	251	2	121	2	-	375
Maui	46	-	144	-	-	50
Lanai	28	3	5	-	-	10
Molokai	2	-	27	2	-	50
Oahu	1,331	100	154	22	2,748	1,211
Kauai	82	74	30	8	-	51

1/ 2,068 vessels were moored (1,627 at catwalks and piers, 441 at other moorage), and valid applications on file numbered 2,072.

2/ Includes moorings (142), ramps (16), and dry storage (1,589).

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly), and records.

**Table 18.50-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS:
1997**

[Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

Island	Number of aids to navigation				Lighthouses	Greatest nominal range (naut. miles)	Highest above--	
	By control			Sea level (feet)			Ground (feet)	
	Total	Federal	Other 1/					
Total	558	292	266	20	2/ 25	3/ 913	4/ 138	
Hawaii	78	50	28	8	24	156	115	
Maui	53	23	30	2	24	170	48	
Molokini	1	1	-	-	7	182	30	
Kahoolawe	3	1	2	-	7	120	20	
Lanai	14	8	6	1	8	91	13	
Molokai	17	10	7	5	25	213	138	
Oahu	325	154	171	4	25	913	71	
Kauai	47	25	22	-	25	174	80	
Niihau	-	-	-	-	-	-	-	
Lehua	1	1	-	-	7	704	10	
Midway	19	19	-	-	4	43	38	
At sea	78	10	68	-	-	-	-	

1/ State and private. Includes State-maintained fish aggregating buoys at sea.

2/ Molokai Light, Kaena Point Light, and Kilauea Light.

3/ Kaena Point Light.

4/ Molokai Light.

Source: 14th Coast Guard District, May 11, 1998.

**Table 18.51-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1995**

Subject	Number	Subject	Number
Certificates outstanding	14,470	Type of vessel:	
Length:		Cabin motorboat	2,661
Under 16 feet	5,623	Open motorboat	5,954
16 to less than 26 feet	7,202	Runabout	3,088
26 to less than 40 feet	1,431	Sail/inboard	615
40 to 65 feet	198	Sail/outboard	590
Over 65 feet	16	Sail only	698
Median (feet)	(NA)	Motor vessel over 65 feet	16
Hull material:		Other	848
Wood	854	Uses:	
Fiberglass	11,813	Pleasure	12,963
Metal	533	Commercial fishing	554
Inflatable	1,051	Charter fishing	22
Other	219	Commercial passenger	251
Propulsion:		Other commercial	84
Inboard	916	Livery	219
Outboard	8,473	Dealer or manufacturer	35
Inboard/outboard	2,139	Youth group	60
Sail/inboard	615	Government	242
Sail/outboard	590	Other	40
Sail only	698	Island kept:	
Manual	191	Hawaii	2,133
Other	848	Kauai	1,513
Type of storage:		Lanai	59
On water	3,211	Maui	1,405
On land	11,259	Molokai	155
		Oahu	9,205

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

**Table 18.52-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1996**

Subject	Number	Subject	Number
Certificates outstanding	15,177	Type of vessel:	
Length:		Cabin motorboat	2,963
Under 16 feet	5,767	Open motorboat	6,292
16 to less than 26 feet	7,637	Runabout	3,070
26 to less than 40 feet	1,565	Sail/inboard	670
40 to 65 feet	194	Sail/outboard	623
Over 65 feet	14	Sail only	724
Median (feet)	(NA)	Motor vessel over 65 feet	7
Hull material:		Other	828
Wood	841	Uses:	
Fiberglass	12,489	Pleasure	13,643
Metal	562	Commercial fishing	476
Inflatable	1,045	Charter fishing	21
Other	240	Commercial passenger	315
Propulsion:		Other commercial	90
Inboard	961	Livery	230
Outboard	8,892	Dealer or manufacturer	26
Inboard/outboard	2,310	Youth group	71
Sail/inboard	670	Government	265
Sail/outboard	623	Other	40
Sail only	724	Island kept:	
Manual	183	Hawaii	2,332
Other	814	Kauai	1,585
Type of storage:		Lanai	83
On water	3,944	Maui	1,536
On land	11,233	Molokai	197
		Oahu	9,444

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

**Table 18.53-- DOCUMENTED AND NUMBERED VESSELS REGISTERED
IN HAWAII: 1990 TO 1995**

Category	1990	1991	1992	1993	1994	1995
Documented 1/ Numbered 2/	1,700 14,081	1,775 13,592	(NA) 13,973	(NA) 13,832	(NA) 13,839	(NA) 14,470

NA Not available.

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. As of June 30 through 1990 and December 4, 1991. Series discontinued after 1991.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered. As of December 31.

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Land and Natural Resources, *Report of Undocumented Vessel Registration* (annual).

Table 18.54-- BOATING ACCIDENTS: 1989 TO 1994

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage (\$1,000)
	Total	Fatal	Killed	Injured, not fatally		
1989	40	1	1	28	48	216.8
1990	21	2	3	6	25	271.7
1991	19	3	5	14	19	189.5
1992	19	(NA)	3	5	(NA)	472.4
1993	19	3	3	4	25	219.4
1994	25	3	4	9	28	256.9

NA Not available.

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics* (annual); Hawaii State Department of Transportation, Harbors Division, Boating Branch, *Reportable Boating Accident Statistics for Period 1988 to 1990* and *Recreational Boating Accident Statistics (Reportable) 1989 to 1991*; Hawaii State Department of Land and Natural Resources, *Recreational Boating Accident Statistics 1991 through 1993*, and records.

Table 18.55-- VESSEL ARRIVALS, BY DRAFT: 1995 AND 1996

[Excludes domestic fishing craft]

Harbor	1995			1996		
	Total	18 feet and less	19 feet and more	Total	18 feet and less	19 feet and more
Hilo	835	798	37	897	844	53
Kawaihae	705	703	2	734	726	8
Kahului	1,238	1,211	27	1,333	1280	53
Kaunakakai	1,802	1,802	-	1,282	2/ 1282	-
Kalaupapa	31	31	-	5	5	-
Honolulu	7,999	6,215	1,784	7,972	6,259	1,713
Barbers Point	1,227	1,096	131	1,160	1,035	125
Nawiliwili	620	593	27	664	630	34
Port Allen	299	1/ 299	-	379	3/ 379	-

1/ 29 feet and less.

2/ 21 feet and less.

3/ 23 feet and less.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual), Part 4.

**Table 18.56-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF
HONOLULU: 1983 TO 1997**

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Cargo tonnage	Number	Cargo tonnage
1983	1,775	4,868,930	2,662	2,322,957
1984	1,686	4,870,182	2,660	2,369,863
1985	1,749	5,071,250	2,412	1,884,925
1986	1,825	5,379,135	2,697	2,121,858
1987	2,080	5,736,005	2,848	2,135,235
1988	2,014	6,586,749	3,172	2,746,776
1989	2,024	6,877,963	3,101	2,892,709
1990	2,159	7,439,568	3,212	2,917,984
1991	2,066	6,939,735	3,190	3,962,085
1992	2,104	8,235,947	3,207	3,101,050
1993	1,918	7,462,619	2,440	2,731,645
1994	1,603	6,434,257	2,737	2,372,971
1995	1,790	6,064,842	2,996	2,096,597
1996	1,650	6,150,398	2,831	2,349,354
1997	1,604	6,244,158	2,679	2,312,266

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.57-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS
AND DEPARTURES, FOR HONOLULU HARBOR: 1992 TO 1997**

[Fiscal years ended June 30]

Type of passenger	1992	1993	1994	1995	1996	1997
Overseas:						
In	15,730	14,712	14,502	17,517	14,851	18,262
Out	15,766	14,942	14,502	17,957	16,128	17,527
Interisland:						
In	72,493	61,563	68,229	68,699	44,982	46,825
Out	72,493	61,563	68,229	68,849	45,159	40,558

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.58-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1986 TO 1996**

[1,000 short tons. Excludes cargo carried by Army and Navy vessels and cargo in transit]

Year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
1986	1,199	592	1,627	8,604	5,629	745
1987	1,366	871	2,035	9,737	7,135	916
1988	1,456	655	2,157	10,655	7,511	876
1989	1,569	732	2,279	10,360	7,374	1,038
1990	1,690	887	2,409	11,341	8,034	959
1991	1,556	745	2,434	11,208	9,002	1,005
1992	1,588	790	2,357	11,522	8,824	1,143
1993	1,469	655	2,216	10,595	9,357	1,283
1994	1,455	736	2,368	11,672	9,022	1,151
1995	1,354	873	2,586	11,545	8,233	1,130
1996	1,442	969	2,828	12,010	8,745	1,203

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, Calendar Year 1990, Part 4, pp. 82-101 and 1996, Part 4, pp. 49-57.

Table 18.59-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1996

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,442	969	2,828	12,010	8,745	1,203
Foreign, except Canadian:						
Imports	84	-	67	1,423	4,545	-
Exports	1	-	-	189	759	-
Canadian:						
Imports	-	-	9	48	-	7
Exports	-	-	-	-	-	-
Domestic, total	1,357	969	2,752	10,350	3,441	1,197
Coastwise: 1/						
Receipts	951	732	1,686	5,632	2,731	599
Shipments	405	237	1,065	4,612	702	598
Internal, total 2/	-	-	-	107	8	-

1/ Includes both interisland and interstate.

2/ Includes intraport.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1996*, Part 4 (November 1997), pp. 49-58.

**Table 18.60-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1996**

[In thousands of short tons]

Port and commodity 1/	Total	Receipts 2/	Shipments 3/
Hilo	1,442	1,035	406
Fabricated non-ferrous metal products	532	281	250
Kawaihae	969	732	237
Fabricated non-ferrous metal products	577	442	135
Kahului	2,828	1,762	1,065
Petroleum and petroleum products	414	414	-
Fabricated non-ferrous metal products	1,039	569	469
Food and farm products	553	151	402
Manufactured equipment, machinery, products	450	298	152
Kaunakakai	205	(NA)	(NA)
Honolulu	12,010	7,103	4,908
Petroleum and petroleum products	2,555	1,926	629
Fabricated non-ferrous metal products	2,971	1,318	1,652
Food and farm products	2,506	1,629	878
Vehicles and parts	894	398	496
Barbers Point	8,745	7,276	1,469
Petroleum and petroleum products	7,858	6,556	1,303
Nawiliwili	1,203	606	598
Fabricated non-ferrous metal products	567	280	287
Food and farm products	300	73	227

NA Not available.

1/ Shown separately for commodities of 300,000 or more tons.

2/ Includes foreign imports and coastwise receipts.

3/ Includes foreign exports and coastwise, internal and intraport shipments.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1996*, Part 4 (November 1997), pp. 49-58.

**Table 18.61-- TRANSPORTATION, COMMUNICATION, AND UTILITY INDUSTRIES,
WITH AND WITHOUT PAYROLL: 1992**

SIC code	Kind of business	Number of establishments			Revenue (million dollars)		
		Total	With payroll	Without payroll	Total	With payroll	Without payroll
41	Passenger transportation	1,534	117	1,417	205	179	26
42	Motor freight transportation, warehousing	601	312	289	404	393	11
44	Water transportation	147	97	50	453	452	1
45pt.	Air transportation 1/	164	113	51	415	412	3
46	Pipelines, exc. natural gas	-	-	-	-	-	-
47	Transportation services	1,477	626	851	421	401	20
48	Communications	311	211	100	926	924	2
49	Electric, gas, sanitary services	90	57	33	946	944	1

1/ Data exclude large, certificated passenger carriers that report to the Office of Airline Statistics.

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities, Nonemployer Statistics Series, Summary*, UC92-N-1 (March 1995), table 3.

**Table 18.62-- SHIPMENT CHARACTERISTICS BY STATES OF ORIGIN AND
DESTINATION: 1993**

Characteristics	Value (million dollars)	Tons (thousands)	Ton-miles (millions)
Total originating in Hawaii	11,462	24,748	(S)
Destination:			
Hawaii	10,616	22,071	700
Other states	846	2,677	(S)
California	578	1,472	3,818
Washington	32	90	256
Rest of U.S.	236	1,115	(S)
Mode of transportation:			
Single modes:	7,033	12,549	155
Truck	110	(S)	(S)
Air	(D)	(D)	(D)
Other			
Multiple modes:			
Truck and air	284	39	21
Truck and water	676	1,131	1,994
Other multiple	(S)	(S)	(S)
Other and unknown modes	1,469	(S)	(S)
Distance shipped:			
Less than 50 miles	8,848	19,890	282
50 to 1,999 miles	1,768	2,182	(S)
2,000 miles or more	847	2,676	(S)
Commodity:			
Farm products	555	387	(S)
Food or kindred products	2,882	3,015	2,837
Chemicals or allied products	969	(S)	(S)
Petroleum or coal products	2,849	12,901	(S)
Transportation equipment	531	53	-
Other commodities	3,676	(S)	(S)

(D) Withheld to avoid disclosing data for individual companies.

(S) Data do not meet publication standards due to high sampling variability or other reasons.

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities, 1993 Commodity Flow Survey, Hawaii*, TC92-CF-12 (March 1996), pp. 3, 4, 10, 23.

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 6 (land use), 12 and 15 (agricultural employment and earnings), and 22 (food processing).

Important sources for data on agriculture include the *United States Census of Agriculture*, most recently published for 1992, the annual report on *Statistics of Hawaiian Agriculture* issued by the Hawaii Agricultural Statistics Service, and data compiled by the former Hawaiian Sugar Planters' Association, now the Hawaii Agriculture Research Center, and the Aquaculture Development Program of the Hawaii State Department of Land and Natural Resources. Agricultural data for earlier years are summarized in *Historical Statistics of Hawaii*, Section 13. National statistics appear in Section 23 of the *Statistical Abstract of the United States: 1997*.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1992**

Item		1987	1992
Farms	number	4,870	5,336
Land in farms	acres	1,721,521	1,588,843
Average size of farm	acres	353	298
Value of land and buildings:			
Average per farm	dollars	603,435	722,189
Average per acre	dollars	1,707	2,425
Estimated market value of all machinery and equipment:			
Average per farm	dollars	41,208	53,207
Farms by size:			
1 to 9 acres		2,855	3,410
10 to 49 acres		1,401	1,342
50 to 179 acres		341	313
180 to 499 acres		128	133
500 to 999 acres		31	34
1,000 acres or more		114	104
Total cropland			
	farms	4,170	4,735
	acres	327,396	293,371
Harvested cropland			
	farms	3,837	4,472
	acres	152,719	136,431
Irrigated land			
	farms	1,827	2,220
	acres	148,884	134,338
Market value of agricultural products sold			
Average per farm	\$1,000 dollars	609,741	552,054
Crops, including nursery and greenhouse crops	\$1,000	125,203	103,458
Livestock, poultry, and their products	\$1,000	498,317	453,410
		111,424	98,644
Farms by value of sales:			
Less than \$2,500		1,402	1,790
\$2,500 to \$4,999		674	754
\$5,000 to \$9,999		745	715
\$10,000 to \$24,999		911	863
\$25,000 to \$49,999		476	484
\$50,000 to \$99,999		287	291
\$100,000 or more		375	439

Continued on next page.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1992 -- Con.**

Item		1987	1992
Total farm production expenses	\$1,000	495,759	466,826
Average per farm	dollars	101,840	87,486
Net cash return from agriculture sales for the farm unit	farms	4,869	5,336
Average per farm	\$1,000 dollars	113,904 23,394	85,228 15,972
Operators by principal occupation:			
Farming		2,816	2,926
Other		2,054	2,410
Operators by days worked off farm:			
Any		2,728	2,864
200 days or more		1,476	1,487
Livestock and poultry:			
Cattle and calves inventory	farms	1,003	874
	number	211,045	191,230
Beef cows	farms	724	655
	number	83,427	87,620
Milk cows	farms	73	57
	number	11,836	10,816
Cattle and calves sold	farms	807	699
	number	101,315	82,788
Hogs and pigs inventory	farms	372	253
	number	47,564	28,570
Hogs and pigs sold	farms	307	200
	number	69,019	47,831
Sheep and lambs inventory	farms	42	62
	number	21,908	22,938
Chicken 3 months old or older inventory	farms	181	177
	number	(D)	935,278
Broilers and other meat-type chickens sold	farms	12	14
	number	2,069,316	1,201,331

Continued on next page.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1992 -- Con.**

Item		1987	1992
Selected crops harvested:			
Sugarcane for sugar	farms	79	31
	acres	79,234	62,915
	tons	7,934,181	5,488,214
Pineapples harvested	farms	18	21
	acres	22,262	15,500
	tons	683,182	556,748
Vegetables harvested	farms	710	602
	acres	5,587	5,129
Land in orchards	farms	2,128	2,537
	acres	33,564	38,590

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, cited in Release 92-A29-HI (November 7, 1994).

Table 19.02-- FARMS AND LAND IN FARMS, FOR COUNTIES: 1992

Item		Hawaii	Honolulu	Kauai	Maui
Farms	number	3,157	892	437	850
Land in farms	acres	926,607	91,998	214,452	355,786
Average size of farm	acres	294	103	491	419
Value of land and buildings:					
Average per farm	dollars	495,001	1,144,965	730,246	1,118,184
Average per acre	dollars	1,686	11,101	1,488	2,671
Estimated market value of all machinery and equipment:					
Average per farm	dollars	28,617	51,619	109,908	117,143
Farms by size:					
1 to 9 acres		1,960	696	249	505
10 to 49 acres		858	136	116	232
50 to 179 acres		188	28	37	60
180 to 499 acres		74	17	18	24
500 to 999 acres		22	5	4	3
1,000 acres or more		55	10	13	26
Total cropland	farms	2,893	764	345	733
	acres	116,068	43,587	(D)	(D)
Harvested cropland	farms	2,752	745	309	666
	acres	52,950	20,692	23,758	39,031
Irrigated land	farms	842	579	258	541
	acres	13,013	27,196	32,580	61,549
Market value of agricultural products sold					
Average per farm	\$1,000 dollars	187,593	150,527	49,166	164,767
Crops, including nursery and greenhouse crops	\$1,000	59,421	168,752	112,509	193,844
Livestock, poultry, and their products	\$1,000	158,360	98,312	43,454	153,285
	\$1,000	29,233	52,215	5,713	11,483

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, cited in Release 92-A29-HI and related county releases.

**Table 19.03-- NUMBER OF FARMS, FARM ACREAGE, AND FARM
EMPLOYMENT: 1980 TO 1996**

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members 3/	Hired workers
1980	4,300	1,970	3,400	1,100	10,550
1981	4,400	1,965	3,100	900	10,500
1982	4,500	1,960	2,600	1,300	13,000
1983	4,500	1,900	2,500	1,500	13,000
1984	4,600	1,850	2,200	1,300	11,800
1985	4,600	1,800	2,200	1,200	10,600
1986	4,600	1,750	2,050	1,200	9,700
1987	4,650	1,720	2,600	1,100	10,700
1988	4,650	1,720	2,600	1,100	10,300
1989	4,650	1,720	2,400	1,100	9,800
1990	4,700	1,680	2,500	1,000	9,600
1991	4,700	1,630	3,100	1,100	9,600
1992	4,800	1,590	3,100	1,300	9,500
1993	4,800	1,590	2,800	1,100	8,700
1994	4,800	1,590	2,700	1,200	8,100
1995	4,800	1,590	2,700	1,000	7,300
1996	4,600	1,590	2,700	1,000	7,400

1/ Based on farm definition of \$1,000 or more of agricultural sales.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

3/ Working 15 or more hours per week.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.04-- VALUE OF CROP AND LIVESTOCK SALES: 1980 TO 1996

[\$1,000]

Year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unprocessed cane)	Pine-apples (fresh equiv.)	Other crops	
1980	634,101	552,877	385,100	76,596	91,181	81,224
1981	489,502	401,348	207,500	89,745	104,103	88,154
1982	507,268	428,860	230,800	94,364	103,696	78,408
1983	568,414	481,926	266,900	100,376	114,650	86,488
1984	550,517	463,502	256,200	89,928	117,374	87,015
1985	528,649	445,826	222,400	90,530	132,896	82,823
1986	564,717	481,312	233,800	99,720	147,792	83,405
1987	557,298	469,565	218,000	99,286	152,279	87,733
1988	573,962	485,293	209,900	107,402	167,991	88,669
1989	585,048	493,261	210,300	98,310	184,651	91,787
1990	595,030	506,586	213,800	106,365	186,421	88,444
1991	551,382	464,139	174,900	107,775	181,464	87,243
1992	520,227	431,958	153,700	102,100	176,158	88,269
1993	506,475	421,593	163,000	79,850	178,743	84,882
1994	503,780	427,150	160,100	78,890	188,160	76,630
1995	490,283	418,689	127,700	87,360	203,629	71,594
1996	488,303	422,568	108,100	95,914	218,554	65,735

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1986, 1994, 1995, AND 1996

County or island and year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members 4/	Hired workers
State total:					
1986	4,600	1,750	2,050	1,200	9,700
1994	4,800	1,590	2,700	1,200	8,100
1995	4,800	1,590	2,700	1,000	7,300
1996	4,600	1,590	2,700	1,000	7,400
Hawaii County:					
1986	2,700	1,035	1,350	800	3,100
1994	2,800	929	1,750	700	3,050
1995	2,800	929	1,750	550	2,550
1996	2,700	929	1,800	600	2,600
Maui County:					
1986	550	360	200	100	2,800
1994	700	355	300	150	2,000
1995	700	355	300	150	1,850
1996	600	355	300	150	1,850
Oahu:					
1986	950	125	350	250	2,500
1994	900	92	500	350	2,050
1995	900	92	500	250	1,900
1996	900	92	450	200	2,000
Kauai County:					
1986	400	230	150	50	1,250
1994	400	214	250	100	1,100
1995	400	214	200	150	1,000
1996	400	214	200	100	950

1/ Based on farm definition of \$1,000 or more of agricultural sales.

2/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

3/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

4/ Working 15 hours or more per week.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); *Hawaii Agricultural Labor* (quarterly); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

**Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES
OR ISLANDS: 1986, 1994, 1995 AND 1996**

[\$1,000]

County or island and year	All crops and livestock 1/	Crops				Livestock 1/
		All crops 1/	Sugar (unpro- cessed cane)	Pine- apples 2/ (fresh equiv.)	Other crops 1,2/	
State total:						
1986	564,717	481,312	233,800	99,720	147,792	83,405
1994	503,780	427,150	160,100	78,890	188,160	76,630
1995	490,283	418,689	127,700	87,360	203,629	71,594
1996	488,303	422,568	108,100	95,914	218,554	65,735
Hawaii County:						
1986	187,958	165,976	74,100	(Z)	91,876	21,982
1994	161,475	140,770	35,800	(Z)	104,970	20,705
1995	145,721	128,564	12,200	(Z)	116,364	17,157
1996	141,910	125,915	1,700	(Z)	124,215	15,995
Maui County:						
1986	144,398	132,647	67,500	45,540	19,607	11,751
1994	127,189	116,447	58,500	25,150	32,797	10,742
1995	124,657	114,064	59,400	24,775	29,889	10,593
1996	123,823	113,696	57,200	27,144	29,352	10,127
Oahu:						
1986	166,680	122,237	38,200	54,180	29,857	44,443
1994	160,678	119,958	30,600	53,690	35,668	40,720
1995	162,668	123,074	21,000	62,585	39,489	39,594
1996	156,582	121,143	10,400	68,770	41,973	35,439
Kauai County:						
1986	65,681	60,452	54,000	(Z)	6,452	5,229
1994	54,438	49,975	35,200	(Z)	14,775	4,463
1995	57,237	52,987	35,100	(Z)	17,887	4,250
1996	65,988	61,814	38,800	(Z)	23,014	4,174

Z Less than \$50,000.

1/ 1994 and 1995 data has been revised from previous year databook table.

2/ County data may fail to add exactly to State total.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual);
and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

**Table 19.07-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF
CROP MARKETINGS, AND VALUE OF CROP SALES:
1986, 1994, 1995, AND 1996**

Subject	1986	1994	1995	1996
Acreage in crop (1,000 acres):				
Sugarcane	184.3	121.1	83.8	68.8
Pineapples (land used for pineapple)	36.0	22.3	19.9	20.0
Vegetables and melons (harvested acreage)	5.4	5.3	6.0	6.2
Fruits, excluding pineapples	6.8	6.6	7.0	7.1
Coffee	2.3	6.8	6.7	6.4
Macadamia nuts	21.2	20.2	20.3	20.2
All other crops	5.2	5.7	6.5	8.9
Number of crop farms:				
Sugar	120	24	9	7
Pineapples	19	15	15	20
Vegetables and melons	750	580	690	950
Fruits (excluding pineapples)	793	836	924	1,040
Coffee	620	585	580	560
Macadamia nuts	645	650	650	680
Taro	140	180	190	180
Flowers and nursery products	635	660	705	690
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	8,379	5,266	3,953	3,544
Pineapples, fresh equivalent (1,000 tons)	646	365	345	347
Vegetables and melons (1,000 lb.)	92,000	80,350	89,100	92,420
Fruits, excluding pineapples (1,000 lb.)	90,610	96,650	83,520	74,260
Coffee, parchment (1,000 lb.)	3,000	4,300	5,400	6,400
Macadamia nuts, in shell (1,000 lb.)	44,000	52,500	50,000	56,500
Taro (1,000 lb.)	6,330	6,100	6,800	5,700
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	233,800	160,100	127,700	108,100
Pineapples (fresh equivalent)	99,720	78,890	87,360	95,914
Vegetables and melons	30,267	36,105	38,604	40,672
Fruits (excluding pineapples)	16,606	23,611	28,218	26,603
Coffee (parchment)	8,700	12,040	16,200	20,800
Macadamia nuts (in shell)	35,200	36,225	37,740	44,070
Taro	1,462	2,806	3,264	2,793
Field crops (not estimated separately)	6,225	10,048	11,108	13,821
Flowers and nursery products	49,132	67,005	68,175	69,475

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.08-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY COUNTIES OR ISLANDS: 1996

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	-	42.3	-	26.5
Pineapples (land used for pineapple)	(2/)	9.3	10.7	(2/)
Vegetables and melons (harvested acreage)	2.1	1.5	2.5	0.1
Fruits, excluding pineapples	5.3	0.2	0.8	0.8
Coffee	2.0	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
All other crops	1.8	1.4	4.1	1.6
Number of crop farms:				
Sugar	1	2	1	3
Pineapples	8	6	2	4
Vegetables and melons	400	105	395	50
Fruits (excluding pineapples)	720	85	135	100
Coffee	550	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
Taro	100	22	4	54
Flowers and nursery products	316	111	211	52
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	81	1,702	408	1,353
Pineapples, fresh equivalent (1,000 tons)	(3/)	195	152	(3/)
Vegetables and melons (1,000 lb.)	32,030	26,570	33,450	370
Fruits, excluding pineapples (1,000 lb.)	56,460	1,690	5,180	10,930
Coffee, parchment (1,000 lb.)	2,300	(D)	(D)	(D)
Macadamia nuts, in shell (1,000 lb.)	(D)	(D)	(D)	(D)
Taro (1,000 lb.)	1,400	(D)	(D)	3,200
Value of crop sales (\$1,000):				
Sugar (unprocessed cane)	1,700	57,200	10,400	38,800
Pineapples (fresh equivalent)	(4/)	27,144	68,770	(4/)
Vegetables and melons	16,140	11,652	12,554	326
Fruits (excluding pineapples)	20,684	859	2,640	2,420
Coffee (parchment)	10,810	(D)	(D)	(D)
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	689	(D)	(D)	1,536
Field crops (not estimated separately)	73	3,075	1,222	9,451
Flowers and nursery products	34,724	7,521	25,253	1,977

D Withheld to avoid disclosure of individual operations.

2/ Less than 50 acres.

1/ Kauai, Maui, and Molokai combined to avoid disclosure of individual operations.

3/ Less than 500 tons.

4/ Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

**Table 19.09-- MARKET SUPPLY OF SPECIFIED FOODS:
1986, 1994, 1995, AND 1996**

Commodity and year	Market supply 1/				
	Total	Inshipment	From Hawaii	Per person 2/	From Hawaii, percent of total
Fresh market fruits:					
1986	162,023	85,108	76,915	138.8	47.5
1994	186,564	103,586	83,058	144.9	44.5
1995	200,916	102,551	98,365	156.0	49.0
1996	185,968	99,744	86,224	143.2	46.4
Fresh market vegetables:					
1986	210,299	134,084	76,215	180.1	36.2
1994	227,890	161,935	65,955	177.0	28.9
1995	222,307	154,557	67,750	172.7	30.5
1996	232,161	158,036	74,125	178.8	31.9
Beef and veal: 3/					
1986	108,047	74,283	4/ 33,764	92.5	31.2
1994	115,580	106,284	4/ 9,296	89.8	8.0
1995	115,844	107,949	4/ 7,895	90.0	6.8
1996	117,372	107,211	4/ 10,161	90.4	8.7
Pork: 3/					
1986	38,686	30,043	8,643	33.1	22.3
1994	43,546	37,691	5,855	33.8	13.4
1995	43,215	36,976	6,239	33.6	14.4
1996	43,735	37,660	6,075	33.7	13.9
Eggs, shell:					
1986	21,983	3,066	18,917	18.8	86.1
1994	20,527	4,210	16,317	15.9	79.5
1995	19,844	4,344	15,500	15.4	78.1
1996	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population estimates: 1,167,500 for 1986, 1,287,600 for 1994, 1,287,600 for 1995, and 1,298,800 for 1996.

3/ Carcass weight equivalent.

4/ Excludes slaughter cattle and calves shipped out-of-state.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.10-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 1996

[Data shown for crops with sales in excess of \$1,000,000]

Crop	Acreage harvested	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Specialty crops:					
Coffee (1996-97)	5,700	1.1	6,400	325.0	20,800
Fresh herbs	...	...	1,400	...	2,749
Ginger roots	200	47.0	9,400	75.0	7,050
Macadamia nuts (1996-97)	19,200	2.9	63,000	70.0	44,070
Seed crops (1996-97)	2,000	...	2,660	...	13,460
Fruits:					
Bananas	1,040	12.5	13,000	40.0	5,200
Guavas	710	...	16,300	14.3	2,331
Papayas	1,835	22.8	41,800	40.8	17,054
Vegetables:					
Cabbage, Chinese	410	18.8	7,700	23.5	1,810
Cabbage, head	640	22.0	14,100	18.5	2,609
Cucumbers	400	12.0	4,800	43.0	2,064
Onions, dry	210	9.5	2,000	118.0	2,360
Onions, green	190	7.4	1,400	94.0	1,316
Peppers, green	230	11.3	2,600	48.0	1,248
Potatoes, sweet	280	8.9	2,500	52.0	1,300
Taro	1/ 530	...	5,700	49.0	2,793
Tomatoes	280	25.0	7,000	53.0	3,710
Watercress	1/ 35	...	1,000	114.0	1,140
Watermelons	760	22.5	17,100	16.5	2,822

1/ Acreage in crop.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

**Table 19.11-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1984 TO 1997**

Year	Total cane land	Irrigated cane land		Unirrigated cane land
		Drip	Furrow or overhead	
1984	188,396	86,925	26,325	75,146
1985	187,858	89,129	24,323	74,406
1986	184,179	90,877	19,526	73,776
1987	180,967	88,812	18,602	73,553
1988	177,693	88,387	17,791	71,515
1989	170,816	86,030	16,687	68,099
1990	161,991	83,252	15,129	63,610
1991	155,608	80,366	13,745	61,497
1992	145,790	76,132	13,008	58,777
1993	121,322	74,557	11,595	35,170
1994	98,413	68,547	10,753	19,113
1995	81,957	62,462	8,416	11,079
1996	68,816	56,147	7,511	5,158
1997	67,820	55,585	7,115	5,120

Source: Hawaiian Sugar Planters' Association, records; Alexander & Baldwin, Inc., "Water to the Roots," *Ampersand*, Spring 1987, pp. 3-6; and Hawaii Agricultural Research Center, records.

**Table 19.12-- GOVERNMENT PAYMENTS FOR AGRICULTURE:
1985 TO 1996**

[\$1,000]

Year	Amount	Year	Amount	Year	Amount
1985	1,184	1989	396	1993	2,018
1986	2,810	1990	657	1994	700
1987	344	1991	730	1995	566
1988	465	1992	734	1996	(NA)

NA Not available

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual);
and http://www.nass.usda.gov/hi/stats/t_of_c.htm (April 1998).

**Table 19.13-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU,
BY SOURCE: 1991 TO 1993**

[1,000 pounds, net]

Source	1991	1992	1993
Total arrivals	291,626	298,959	306,650
From Hawaii	86,410	80,421	83,898
Oahu 1/	26,347	24,924	20,190
Other islands 2/	60,063	55,497	62,988
Hawaii 2/	26,853	26,407	29,643
Maui 2/	15,565	14,249	15,409
Molokai 2/	17,457	14,603	17,866
Kauai 2/	188	238	70
From U.S. Mainland 2/	198,149	211,082	213,981
From foreign countries 2/	7,067	7,456	8,771

1/ Wholesalers' truck receipts.

2/ Ship and plane arrivals.

Source: Hawaii State Department of Agriculture, Market News Service, *Honolulu Arrivals, Fresh Fruits and Vegetables, 1991* (April 1993), table 1, and records.

**Table 19.14-- LIVESTOCK INVENTORY, 1985 TO 1996, AND BY
GEOGRAPHIC AREAS, 1996**

[In thousands]

Year and geographic area	All cattle and calves 1/	Milk cows 1/	Hogs and pigs 2/	Chickens (excluding broilers) 2/	Bee colonies
1985	209	11	55	1,210	9
1986	199	12	50	1,185	9
1987	203	12	47	1,212	9
1988	212	12	43	1,217	9
1989	205	11	39	1,216	9
1990	215	11	36	1,183	10
1991	200	10	34	1,213	10
1992	178	11	35	1,109	9
1993	165	11	33	1,012	9
1994	175	11	35	981	9
1995	171	10	34	933	8
1996	166	10	28	876	8
GEOGRAPHIC AREAS: 1996					
Hawaii County	114.8	1.8	2.5	(D)	(NA)
Maui	20.8	0.9	6.0	(D)	(NA)
Molokai and Lanai	6.1	-	(3/)	(D)	(NA)
Oahu	13.1	6.3	15.4	715	(NA)
Kauai County	11.2	0.6	4.1	(D)	(NA)

NA Not available.

D Withheld to avoid disclosing data for individual operations.

1/ As of January 1 of the following year.

2/ As of December 1.

3/ Combined with Maui.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual);
and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.15-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1986, 1994, 1995, AND 1996

Subject	1986	1994	1995	1996
Number of livestock operations, Dec. 31:				
Cattle 1/	900	800	800	800
Hogs	600	350	350	350
Milk	90	60	60	60
Eggs	55	55	55	55
Honey	20	21	17	25
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	33,764	9,324	7,895	10,161
Pork (dressed weight; 1,000 lb.)	5,907	5,907	6,239	6,075
Milk (million lb.)	136.9	136.9	139.4	125.9
Eggs (million)	195.0	195.0	186.0	179.0
Honey (1,000 lb.)	1,098	1,098	1,032	1,240
Value of livestock sales (\$1,000):				
Cattle 3/	19,700	19,700	14,639	11,905
Hogs 3/	6,175	6,175	6,672	6,585
Milk	31,747	31,747	32,146	29,234
Eggs	13,959	13,959	13,516	12,963

1/ Includes beef, dairy, and dairy replacement operations.

2/ Includes slaughter cattle, but excludes calves shipped out-of-state.

3/ Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.16-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1996

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	410	190	60	140
Hogs	60	70	160	60
Milk	30	5	15	10
Eggs	25	7	19	4
Honey	16	5	(D)	4
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 2/	5,369	2,665	1,246	881
Pork (dressed weight; 1,000 lb.)	458	1,361	3,476	780
Milk (million lb.)	(D)	(D)	83.0	(D)
Eggs (million)	(D)	(D)	144.3	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales (\$1,000):				
Cattle 3/	7,433	2,872	717	883
Hogs 3/	455	1,497	3,754	879
Milk	(D)	(D)	19,130	(D)
Eggs	(D)	(D)	9,905	(D)

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement operations.

2/ Includes slaughter cattle but excludes calves shipped out-of-state.

3/ Excludes interfarm sales; includes out-of-state sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

**Table 19.17-- FLORICULTURE AND NURSERY PRODUCTS, 1992 TO 1996,
AND BY ISLANDS, 1994 TO 1996**

Island and year	Number of farms	Growing area					Wholesale value (\$1,000)
		Total (acres)	Greenhouse (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1992	686	2,497	3,880	22,025	13	1,890	69,679
1993	662	2,384	4,565	19,955	21	1,800	69,513
1994	660	2,290	3,770	21,600	18	1,690	67,005
1995	705	2,698	3,770	24,215	15	2,040	68,175
1996	690	2,544	3,000	24,630	10	1,900	69,475
Islands, 1994:							
Hawaii	304	1,175	2,715	16,330	18	720	31,337
Kauai	40	106	105	390	0	95	1,899
Maui/Molokai	102	499	310	505	0	480	7,912
Oahu	214	510	640	4,375	0	395	25,857
Islands, 1995:							
Hawaii	333	1,630	2,910	18,880	15	1,115	32,608
Kauai	46	105	40	375	0	95	1,801
Maui/Molokai	106	465	270	375	0	450	7,796
Oahu	220	498	550	4,585	0	380	25,970
Islands, 1996:							
Hawaii	316	1,358	2,105	18,710	10	870	34,724
Kauai	52	115	60	375	0	105	1,977
Maui/Molokai	111	484	240	390	0	470	7,521
Oahu	211	587	595	5,155	0	455	25,253

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary* (June 27, 1997), pp. 10 and 13.

**Table 19.18-- FLORICULTURE AND NURSERY PRODUCTS, BY
COMMODITY: 1995**

[Shown for commodities with value of sales over \$650,000 and growers with total sales of
\$10,000 or more]

Commodity	Number of farms having sales	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	69	1,000 dozens	965	7,042
Birds of Paradise	32	1,000 dozens	119	754
Proteas	28	1,000 stems	1,877	1,071
Orchids:				
Sprays: Dendrobium	58	1,000 dozens	410	3,078
Potted: Dendrobiums	56	1,000 pots	804	4,358
Lei or individual flowers:				
Vanda, Miss Joaquim	13	Million blooms	22.5	677
Dendrobiums	32	Million blooms	22.4	716
Foliage:				
Potted, primarily for--				
Indoor or patio use	76	...	(NA)	11,812
Landscape use	65	...	(NA)	3,902
Unfinished stock	21	...	(NA)	622
Potted flowering plants:				
Poinsettias	27	1,000 pots	221	904
Ornamentals and trees	46	...	(NA)	4,112
Plant rentals	41	...	(NA)	3,293

NA Not available.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (June 27, 1997), pp. 3-8.

**Table 19.19-- FLORICULTURE AND NURSERY PRODUCTS, BY
COMMODITY: 1996**

[Shown for commodities with value of sales over \$650,000 and growers with total sales of
\$10,000 or more]

Commodity	Number of farms having sales	Number sold		Value of sales (\$1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	65	1,000 dozens	906	7,060
Birds of Paradise	29	1,000 dozens	102	554
Proteas	31	1,000 stems	1,772	1,233
Orchids:				
Sprays: Dendrobiums	49	1,000 dozens	600	4,116
Potted: Dendrobiums	63	1,000 pots	1,162	5,205
Lei or individual flowers:				
Vanda, Miss Joaquim	12	Million blooms	22.2	627
Dendrobiums	33	Million blooms	24.7	740
Foliage:				
Potted, primarily for--				
Indoor or patio use	75	...	(NA)	12,294
Landscape use	62	...	(NA)	3,527
Unfinished stock	19	...	(NA)	664
Potted flowering plants:				
Poinsettias	27	1,000 pots	243	952
Ornamentals and trees	43	...	(NA)	1,741
Plant rentals	44	...	(NA)	3,690

NA Not available.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (June 27, 1997), pp. 3-8.

Table 19.20-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1992 TO 1996

[\$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

Type	1992	1993	1994	1995	1996
Total sales	41,890	40,740	36,775	38,985	38,390
Anthuriums, cut	11,355	11,115	10,310	10,395	9,705
Foliage, potted	10,015	9,655	9,090	9,910	9,500
Other flowers, nursery products	20,520	19,970	17,375	18,680	19,185

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary*, (June 27, 1997), p. 14.

Table 19.21-- LAND EVALUATION RATING, FOR SIX MAJOR ISLANDS: 1985

[Thousand acres. The Land Evaluation and Site Assessment Commission land evaluation rating is a composite index, scaled from 0 to 100, based on measurements of soil productivity and the suitability of land for agricultural purposes. Data exclude Kahoolawe, Niihau, Lehua, Kaula, and the Northwestern Hawaiian Islands]

Land evaluation rating	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total area	4,042	2,579	466	90	166	386	355
90 to 100	66	-	17	3	7	39	-
80 to 89	137	17	39	11	16	33	20
70 to 79	189	95	20	20	6	27	40
60 to 69	212	125	36	(Z)	9	22	20
50 to 59	221	113	64	3	10	12	18
40 to 49	309	227	40	6	10	18	7
30 to 39	605	543	29	1	3	11	17
20 to 29	492	282	55	48	50	30	26
10 to 19	1,813	1,176	165	15	55	194	206
Under 10	-	-	-	-	-	-	-
Mean rating	32.8	29.8	40.8	36.7	37.6	40.1	32.9

Z Less than 500 acres.

Source: Land Evaluation and Site Assessment Commission, *A Report on the State of Hawaii Land Evaluation and Site Assessment System* (February 1986), Exhibit A.

Table 19.22-- EMPLOYMENT IN AGRICULTURE: 1900 TO 1995

[Data for 1940 and later years include forestry and fisheries]

Year	Number	Percent of total	Year	Number	Percent of total
1900	55,931	62.0	1960	15,981	7.6
1910	54,742	54.1	1970	13,161	4.6
1920	54,803	49.0	1980	14,560	3.5
1930	61,811	40.1	1990	16,509	3.1
1940	54,629	35.5	1995	11,150	2.0
1950	31,806	19.0			

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (1977), pp. 122-124; The State of Hawaii, Data Book 1996, table 12.06, 12.10 and 12.12.

**Table 19.23-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1986 TO 1997**

[In thousands of dollars. Data are on a cash basis accounting. "Producing" refers to the raising and production of agricultural products in their natural state, the production of natural resource products, fishing, and aquaculture]

Year 1/	Amount	Year 1/	Amount	Year 1/	Amount
1986	250,954	1990	317,337	1994	467,174
1987	274,202	1991	301,884	1995	457,538
1988	298,261	1992	408,662	1996	479,009
1989	326,400	1993	474,861	1997	495,721

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release, as revised 2/4/98).

**Table 19.24-- AGRICULTURAL CHEMICALS USED, INCLUDING
FERTILIZER: 1982 TO 1992**

Chemicals used		1982	1987	1992
Any chemicals, fertilizer, or lime used 1/	farms	3,532	4,105	4,476
Commercial fertilizer 2/	farms	3,158	3,524	4,028
	acres on which used	228,984	225,457	200,723
	\$1,000	33,477	30,717	30,574
Agricultural chemicals 2/	farms	3,084	3,881	3,853
	\$1,000	16,417	18,233	20,396
Sprays, dusts, granules, fumigants, etc., to control --				
Insects on hay and other crops	farms	1,702	2,008	1,790
	acres on which used	45,671	68,150	53,593
Nematodes in crops	farms	654	663	489
	acres on which used	9,638	15,792	15,587
Diseases in crops and orchards	farms	1,067	1,151	1,018
	acres on which used	18,085	(D)	21,036
Weeds, grass, or brush in crops and pasture	farms	2,385	2,887	2,820
	acres on which used	213,551	235,871	178,422
Chemicals used for defoliation or for growth control of crops or thinning of fruit	farms	165	212	157
	acres on which used	50,455	57,481	40,292

D Withheld to avoid disclosing data for individual farms.

1/ Data for 1987 and 1982 include farms on which lime was applied alone or together with fertilizer and/or chemicals.

2/ Data for 1982 exclude cost of custom applications.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, AC92-A-11 (October 1994), table 15, p. 21.

Table 19.25-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 1996

Year	Number of operations, Dec. 31	Acreage, Dec. 31	Production (1,000 lb.)	Value (\$1,000)
1970	2	193	20	11
1971	2	193	17	17
1972	2	193	18	23
1973	3	203	34	34
1974	4	213	41	136
1975	10	234	82	178
1976	14	235	94	210
1977	25	246	123	281
1978	25	320	178	525
1979	23	493	246	1,531
1980	37	575	320	1,655
1981	41	547	338	1,868
1982	44	643	551	2,625
1983	42	496	345	1,605
1984	47	474	441	2,300
1985	48	465	583	2,780
1986	44	444	1,015	3,549
1987	45	437	1,689	6,263
1988	44	477	1,170	5,560
1989	46	479	1,264	6,835
1990	53	489	1,452	9,241
1991	71	595	1,207	6,884
1992	83	615	1,272	7,134
1993	90	640	1,296	7,469
1994	105	605	990	9,036
1995	107	635	1,410	13,307
1996	115	695	1,992	15,656

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

**Table 19.26-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION,
AND VALUE, BY COUNTIES: 1995 AND 1996**

Subject	State total	Hawaii	Maui	Honolulu	Kauai
1995					
Number of operations	107	40	18	38	11
Acreage (Dec. 31)	635	175	35	400	25
Production (1,000 lb.)	1,409.6	1,055.9	50.1	303.6	(NA)
Shellfish	414.6	262.1	40.0	112.5	(NA)
Finfish	125.2	40.0	10.1	75.1	(NA)
Algae	869.8	753.8	-	116.0	(NA)
Other 1/	(NA)	(NA)	(NA)	(NA)	(NA)
Value (\$1,000)	13,306.5	11,402.2	279.1	1,625.2	(NA)
Shellfish	3,462.4	2,569.6	240.2	652.6	(NA)
Finfish	769.5	342.3	38.2	389.0	(NA)
Algae	8,685.9	8,428.7	-	257.2	(NA)
Other 1/	388.7	61.6	0.7	326.4	(NA)
1996					
Number of operations	115	43	19	42	11
Acreage (Dec. 31)	695	230	40	400	25
Production (1,000 lb.)	1,991.9	1,612.5	75.1	304.3	(NA)
Shellfish	616.8	432.8	60.0	124.0	(NA)
Finfish	129.2	66.6	15.1	47.5	(NA)
Algae	1,245.9	1,113.1	(NA)	132.8	(NA)
Other 1/	(NA)	(NA)	(NA)	(NA)	(NA)
Value (\$1,000)	15,655.7	13,197.3	402.8	2,055.6	(NA)
Shellfish	4,315.5	3,188.7	350.0	776.8	(NA)
Finfish	1,191.6	764.9	52.8	373.9	(NA)
Algae	9,082.4	8,779.1	(NA)	303.3	(NA)
Other 1/	1,066.2	464.6	(NA)	601.6	(NA)

NA Not available.

1/ Nonfood products: ornamental fish, seedstock, other.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Section 20

FORESTRY, FISHERIES, AND MINING

This section presents data on forests and forest reserves, commercial fishing and fish populations, and mining and mineral products.

Important sources of data on these subjects are *the United States Census of Mineral Industries* and *Mineral Industry Surveys*, and reports and records of the Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources and Division of Forestry and Wildlife. *Historical Statistics of Hawaii*, Section 14, summarizes the data for earlier periods. Comparable national statistics are reported in the *Statistical Abstract of the United States: 1997*, Sections 24 and 25.

**Table 20.01-- FOREST AND NATURAL AREA ACREAGE, BY ISLANDS:
JUNE 30, 1996 AND JUNE 30, 1997**

Island	Conservation district forest land		Planted forest		Natural areas 3/	
	Forest reserve land 1/	Private forest land 2/	Planted in preceding 3 years	Total standing	Number of areas	Acres
1996 State total	643,134	328,742	108	46,191	19	109,164
Hawaii	438,416	106,745	13	17,138	8	82,535
Maui	73,227	53,180	15	11,892	4	17,123
Kahoolawe	-	-	-	-	-	-
Lanai	-	6,150	-	512	-	-
Molokai	16,030	-	10	3,238	2	2,950
Oahu	32,462	88,817	63	7,162	3	1,770
Kauai	82,999	73,850	7	6,249	2	4,786
Niihau	-	-	-	-	-	-
1997 State total	643,134	328,742	108	46,191	19	109,164
Hawaii	438,416	106,745	13	17,138	8	82,535
Maui	73,227	53,180	15	11,892	4	17,123
Kahoolawe	-	-	-	-	-	-
Lanai	-	6,150	-	512	-	-
Molokai	16,030	-	10	3,238	2	2,950
Oahu	32,462	88,817	63	7,162	3	1,770
Kauai	82,999	73,850	7	6,249	2	4,786
Niihau	-	-	-	-	-	-

1/ State-owned and privately owned-lands under surrender agreement in forest reserve system.

2/ Private forest land within conservation district. The majority of these lands were previously in the forest reserve system.

3/ Includes Waimanu Research Reserve (3,600 acres) and Alakai Wilderness Preserve (9,939 acres).

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

Table 20.02-- WOODLAND ON FARMS, 1982 TO 1992, AND BY COUNTIES, 1992

[Acres]

Use	1982	1987	1992				
			State total	Hawaii	Maui	Honolulu	Kauai
Total	117,270	99,135	109,391	79,319	(D)	1,094	(D)
Pastured	36,550	27,517	40,909	22,606	(D)	474	(D)
Not pastured	80,720	71,618	68,482	56,713	10,047	620	1,102

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Hawaii*, AC92-A-11 (October 1994), pp. 17 and 156.

**Table 20.03-- FOREST AND BRUSHLAND FIRES, BY COUNTIES:
1995 TO 1997**

[Years ended June 30]

County	Number of fires			Acres burned		
	1995	1996	1997	1995	1996	1997
State total	198	131	69	23,946	477	378
Hawaii	86	78	30	21,635	232	40
Maui	44	42	24	2,019	67	40
Honolulu	67	10	11	292	175	297
Kauai	1	1	4	-	3	1

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

Table 20.04-- COMMERCIAL FISHING: 1989 TO 1997

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch 1/		
		Pounds landed	Pounds sold	Value to primary producers (dollars)
1989	3,491	14,008,279	13,524,731	29,815,290
1990	3,551	16,663,945	16,090,478	39,902,182
1991	4,043	22,218,099	21,331,184	53,769,946
1992	3,800	23,578,601	22,761,039	55,381,574
1993	3,836	25,209,513	24,562,796	61,059,027
1994	4,060	24,028,693	23,310,535	57,999,092
1995	3,827	23,970,722	22,945,408	55,283,593
1996	3,672	23,968,916	23,018,189	52,443,466
1997	3,632	25,319,795	24,589,553	53,343,330

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catches. Data for 1989-1993 revised from *Data Book 1993-94*, table 20.5.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings for Fiscal Year* (annual), as revised, and records.

Table 20.05-- COMMERCIAL FISH CATCH, BY SPECIES: 1995

[Year ended June 30, 1995]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	23,970,722	22,945,408	55,283,593
Sea catch, all species	23,936,995	22,912,940	55,206,105
Tunas	12,598,580	12,136,145	29,610,759
Aku (Skipjack)	1,573,062	1,474,246	1,959,166
Ahipalaha	2,234,027	2,126,552	2,227,790
Bigeye (ahi)	4,246,415	4,188,099	14,687,403
Yellowfin (ahi)	4,488,988	4,298,525	10,449,732
Billfishes	6,309,705	6,135,337	15,350,443
Blue marlin	1,172,025	1,093,365	1,103,813
Striped marlin	865,148	829,373	1,128,852
Swordfish	3,919,546	3,882,041	12,820,371
Miscellaneous pelagic species	2,358,559	2,217,654	3,781,909
Mahimahi	1,230,817	1,139,185	1,998,849
Ono	516,554	476,298	1,087,256
Opah	484,499	478,674	528,818
Deep bottom fishes	868,556	818,980	2,870,304
Opakapaka	330,419	319,549	1,259,354
Uku	165,782	162,965	430,097
Ulaula	119,773	115,138	612,230
Akule/opelu	1,036,137	965,713	1,646,566
Akule	738,166	685,067	1,104,967
Opelu	281,672	264,684	507,591
Jacks	135,881	125,918	218,022
Inshore fishes	287,214	266,426	585,536
Sharks	136,310	77,471	79,183
Lobsters	24,510	22,808	313,186
Crabs	38,870	33,615	139,663
Shrimps	85,149	67,184	350,719
Seaweeds	7,231	5,988	33,243
Miscellaneous	50,293	39,701	226,572
Pond landings, all species	33,727	32,468	77,488

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1994-1995* and records.

Table 20.06-- COMMERCIAL FISH CATCH, BY SPECIES: 1996

[Year ended June 30, 1996]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	23,968,916	23,018,189	52,443,466
Sea catch, all species	23,944,770	22,994,532	52,388,694
Tunas	12,688,842	12,379,886	28,539,177
Aku (Skipjack)	1,879,314	1,796,765	2,433,665
Ahipalaha	2,858,023	2,785,630	3,072,999
Bigeye (ahi)	3,614,525	3,592,181	12,737,030
Yellowfin (ahi)	4,295,377	4,167,558	9,870,500
Billfishes	6,765,706	6,457,378	14,215,199
Blue marlin	1,695,900	1,518,237	1,277,333
Striped marlin	1,466,223	1,414,755	1,279,592
Swordfish	3,339,197	3,275,005	11,369,732
Miscellaneous pelagic species	2,035,262	1,923,176	3,666,879
Mahimahi	746,082	694,153	1,705,855
Ono	569,381	512,382	1,208,511
Opah	604,244	603,358	569,692
Deep bottom fishes	657,162	614,185	2,351,836
Opakapaka	216,989	204,286	875,964
Uku	102,837	99,676	300,348
Ulaula	115,219	112,080	621,445
Akule/opelu	1,009,234	949,058	1,634,433
Akule	529,224	505,097	901,495
Opelu	428,106	393,858	627,232
Jacks	126,022	110,291	199,415
Inshore fishes	339,665	311,399	632,406
Sharks	119,805	64,818	56,602
Lobsters	28,197	26,183	355,087
Crabs	41,519	36,614	157,047
Shrimps	70,386	70,227	343,547
Seaweeds	7,466	6,914	35,492
Miscellaneous	55,504	44,403	201,574
Pond landings, all species	24,146	23,657	54,772

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1995-1996* and records.

Table 20.07-- COMMERCIAL FISH CATCH, BY SPECIES: 1997

[Year ended June 30, 1997]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	25,319,795	24,589,553	53,343,330
Sea catch, all species	25,272,402	24,542,232	53,231,458
Tunas	13,669,343	13,437,806	27,976,535
Aku (Skipjack)	2,150,401	2,062,538	2,668,892
Ahipalaha	3,420,977	3,412,462	3,900,844
Bigeye (ahi)	3,820,918	3,809,506	11,520,331
Yellowfin (ahi)	4,235,749	4,115,227	9,641,885
Billfishes	6,914,329	6,744,237	15,685,901
Blue marlin	1,238,001	1,135,578	1,086,127
Striped marlin	952,989	927,843	1,197,496
Swordfish	4,450,153	4,420,887	13,157,405
Miscellaneous pelagic species	2,454,470	2,315,765	3,830,050
Mahimahi	1,067,892	995,502	1,746,361
Ono	650,121	586,778	1,195,280
Opah	585,756	585,516	664,856
Deep bottom fishes	714,366	671,367	2,530,253
Opakapaka	265,551	254,318	1,110,555
Uku	120,765	115,863	310,704
Ulaula	101,779	96,846	551,153
Akule/opelu	868,431	793,495	1,344,446
Akule	512,709	459,473	821,042
Opelu	335,040	314,206	482,205
Jacks	129,332	115,757	201,420
Inshore fishes	288,434	265,863	590,671
Sharks	67,759	52,163	52,282
Lobsters	37,342	35,398	529,039
Crabs	35,634	29,944	136,513
Shrimps	34,082	33,397	172,397
Seaweeds	8,378	7,646	38,056
Miscellaneous	50,502	39,394	143,895
Pond landings, all species	47,393	47,321	111,872

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1996-1997* and records.

Table 20.08-- COMMERCIAL SEA LANDINGS, BY ISLANDS: 1995 TO 1997

[Years ended June 30]

Island	Pounds landed	Pounds sold	Value (dollars)
1995			
State total	23,936,995	22,912,940	55,206,105
Hawaii	3,708,925	3,512,238	6,708,789
Maui	655,357	518,137	1,423,379
Lanai	19,373	15,126	35,419
Molokai	64,877	59,044	150,116
Oahu	18,578,836	18,062,815	45,027,811
Kauai and Niihau	909,627	745,580	1,860,591
1996			
State total	23,944,770	22,994,532	52,388,694
Hawaii	4,047,710	3,818,650	6,517,456
Maui	695,779	542,335	1,364,300
Lanai	13,378	9,287	21,634
Molokai	74,237	68,621	190,740
Oahu	18,243,799	17,830,788	42,507,194
Kauai and Niihau	869,867	724,851	1,787,370
1997			
State total	25,272,402	24,542,232	53,231,458
Hawaii	3,738,518	3,535,195	6,109,155
Maui	565,100	423,805	1,126,929
Lanai	23,213	17,222	42,935
Molokai	53,651	48,410	167,833
Oahu	19,923,146	19,715,430	43,940,066
Kauai and Niihau	968,774	802,170	1,844,540

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1995-1997* and records.

**Table 20.09-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD:
1995 TO 1997**

[Years ended June 30]

Fishing method	Pounds landed	Pounds sold	Value (dollars)
1995			
All methods	23,936,995	22,912,940	55,206,105
Aku pole and line	1,049,924	1,047,924	1,404,367
Longline	14,299,465	14,074,471	37,405,275
Handline	3,679,047	3,545,368	8,308,474
Trolling	3,064,873	2,601,465	5,048,401
Net	936,984	875,209	1,421,861
Trap	142,141	123,192	744,435
Albacore troll	615,871	514,378	410,595
All other methods	148,690	130,933	462,697
1996			
All methods	23,944,770	22,994,532	52,388,694
Aku pole and line	1,434,985	1,434,984	1,820,496
Longline	14,071,115	13,895,031	34,889,154
Handline	3,713,208	3,556,162	7,819,282
Trolling	3,332,501	2,822,572	5,140,175
Net	845,841	803,615	1,354,076
Trap	139,613	138,212	770,820
Albacore troll	279,086	233,012	193,899
All other methods	128,421	110,944	400,792
1997			
All methods	25,272,402	24,542,232	53,231,458
Aku pole and line	1,623,910	1,616,589	2,102,305
Longline	16,047,720	15,992,066	36,710,270
Handline	3,741,917	3,603,710	7,950,473
Trolling	2,921,901	2,469,756	4,364,854
Net	660,400	605,737	1,024,264
Trap	125,286	123,208	777,679
Albacore troll	50,199	50,199	40,000
All other methods	101,069	80,967	261,613

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1995-1997* and records.

**Table 20.10-- FISH POPULATIONS AROUND SELECTED SHORELINE
AREAS: YEAR ENDED JUNE 30, 1995**

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu:			
Inshore	54	5,423	5,056
Offshore	79	1,577	243
Pupukea, Oahu	84	1,832	144
Waikiki, Oahu	39	1,586	271
Molokini Shoal, Maui	105	2,683	319
Honolua Bay, Maui	56	1,767	510
Manele-Hulopoe Bays, Lanai	93	4,085	477
Lapakahi, Hawaii	62	935	103
Kealakekua Bay, Hawaii	55	1,518	238
Wailea Bay, Hawaii	62	918	94
Old Kona Airport, Hawaii	44	1,718	404
Artificial reefs:			
Maunalua Bay, Oahu (tire modules)	48	1,888	394
Waianae, Oahu (tire modules)	(NA)	(NA)	294
Keawakapu, Maui	38	2,890	385
Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	62	2,353	318
Red Hill, Hawaii	45	3,157	131
Pupawai, Hawaii	55	4,834	343
Other areas:			
Honaunau Bay	47	1,628	154

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1994 to June 30, 1995.*

Table 20.11-- MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED LOCATIONS: YEAR ENDED JUNE 30, 1995

[Three leading species at each location, based on both individuals per acre and pounds per acre]

Location and species	Individuals per acre		Pounds per acre	
	Rank	Number	Rank	Number
Hanauma Bay MLCD (inshore):				
Manini (<i>Acanthurus triostegus</i>)	1	1,149	6	214
Pualu (<i>Acanthurus xanthopterus</i>)	2	745	1	1,873
Saddle-back wrasse (<i>Thalassoma duperrey</i>)	3	607	9	87
Awa awa (<i>Elops hawaiiensis</i>)	(1/)	(NA)	2	1,317
Clown tang	8	211	3	276
Waikiki MLCD:				
Ohua/green wrasse	1	290	(1/)	(NA)
Manini (<i>Acanthurus triostegus</i>)	2	227	3	18
Saddle-back wrasse (<i>Thalassoma duperrey</i>)	3	218	4	17
Maiii/lavender tang	4	209	1	65
Kala	(1/)	(NA)	2	65
Kealakekua Bay MLCD:				
Eleele	1	323	1	103
Chocolate dip damsel	2	312	6	9
Kole (<i>Ctenochaetus strigosus</i>)	3	237	4	17
Red weke	6	47	2	18
Yellow tang (<i>Zebrasoma flarescens</i>)	4	178	3	17

NA Not available.

MLCD Marine Life Conservation District.

1/ Not in first 10.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1994 to June 30, 1995.*

Table 20.12-- MINERAL INDUSTRIES: 1967 TO 1992

Subject	1967	1972	1977	1982	1987	1992
Number of establishments	12	15	7	12	9	7
With 20 employees or more	3	5	2	4	4	4
All employees:						
Number (1,000)	.2	.3	.1	.2	.2	.2
Payroll (million dollars)	1.6	2.4	1.9	3.8	7.4	9.4
Production, development, and exploration workers:						
Number (1,000)	.2	.2	.1	.1	.2	.2
Hours (millions)	.4	.4	.2	.2	.4	.4
Wages (million dollars)	1.3	1.8	1.5	2.6	5.7	8.1
Value added by mining (million dollars)	5.0	9.0	8.1	9.7	23.5	27.3
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.3	4.1	2.9	5.9	10.4	11.3
Value of shipments and receipts (million dollars)	5.5	11.0	9.7	12.8	31.1	33.7
Capital expenditures (million dollars)	1.8	2.0	1.3	2.7	2.8	4.8

Source: U.S. Bureau of the Census, *1987 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC87-A-9 (October 1990), Hawaii table 1; *1992 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC92-A-9 (May 1996), Hawaii table 1.

Table 20.13-- NONFUEL MINERAL PRODUCTION: 1994 TO 1996

[Estimated production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Minerals	1994	1995 1/	1996 2/
QUANTITY (1,000 METRIC TONS)			
Cement:			
Masonry	6.00	5.00	5.00
Portland	404	357	305
Sand and gravel (construction)	521	405	425
Stone (crushed) 3/	8,170	7,450	7,800
VALUE (\$1,000)			
Total 4/	116,000	114,000	112,000
Cement:			
Masonry	395	501	455
Portland	28,300	35,500	30,300
Sand and gravel (construction)	4,740	4,030	4,340
Stone (crushed) 3/	82,300	73,500	77,200

1/ Revised.

2/ Preliminary.

3/ Excludes certain stones, to avoid disclosing data for individual firms.

4/ Partial total, excludes values that must be concealed to avoid disclosing company proprietary data.

Source: U.S. Geological Survey, Bureau of Mines, "The *Mineral Industry of Hawaii*" from internet address <http://minerals.er.usgs.gov/minerals/pubs/state/hi.html#myb> (1996 PDF).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing units and office buildings, home sales, and residential financing. Related series are included in Sections 6 (land use) and 14 (prices).

The principal sources for these data are the U.S. Bureau of the Census, various series compiled by state and county agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Business, Economic Development & Tourism, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four county building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in the Bank of Hawaii's *Construction in Hawaii*, issued annually. Persons interested in figures for earlier periods should consult *Historical Statistics of Hawaii*, Section 15. National statistics appear in Section 25 of the *Statistical Abstract of the United States: 1997*.

**Table 21.01-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES:
1993 TO 1997**

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1993	20,296	13,123	4,015	1,122	2,035
1994	20,329	14,634	2,662	1,220	1,813
1995	17,231	11,956	2,707	1,054	1,514
1996	16,062	10,859	2,612	931	1,660
1997	16,444	11,140	2,514	1,040	1,750
ESTIMATED VALUE (\$1,000)					
1993	1,496,485	959,041	248,236	86,032	203,177
1994	1,612,899	1,073,264	181,059	164,681	193,894
1995	1,531,317	980,703	267,108	78,918	204,588
1996	1,117,760	698,697	171,017	101,981	146,065
1997	1,179,182	772,825	155,776	97,807	152,773

Source: Calculated by Hawaii State Department of Business, Economic Development & Tourism from Monthly Cooperative Report of Local Construction submitted to F.W. Dodge Division, McGraw-Hill Information Systems Company by each county.

**Table 21.02-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES:
1995 TO 1997**

[In thousands of dollars]

Category	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1995					
Total	1,531,317	980,703	267,108	78,918	204,588
Residential	745,520	515,331	117,897	45,790	66,503
Hotel	106,537	250	44,832	240	61,215
Non-residential	261,795	159,867	37,965	16,534	47,430
Additions and alterations	417,465	305,256	66,414	16,354	29,441
1996 (revised)					
Total	1,117,760	698,697	171,017	101,981	146,065
Residential	487,030	269,937	80,697	55,629	80,767
Hotel	504	-	-	504	-
Non-residential	252,259	152,830	39,752	28,038	31,640
Additions and alterations	377,967	275,930	50,569	17,810	33,658
1997					
Total	1,179,182	772,825	155,776	97,807	152,773
Residential	542,481	323,468	83,690	48,468	86,855
Hotel	19,262	-	-	19,262	-
Non-residential	245,228	167,165	34,749	14,878	28,437
Additions and alterations	372,210	282,193	37,337	15,199	37,482

Source: Calculated by Hawaii State Department of Business, Economic Development & Tourism from *Monthly Cooperative Report of Local Construction* submitted to F.W. Dodge Division, McGraw-Hill Information Systems Company by each county.

Table 21.03-- ESTIMATED VALUE PER HOUSING UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1992 TO 1997

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1992	1993	1994	1995	1996	1997
One-family	135,278	146,639	145,044	135,304	149,807	151,064
Two-family	152,278	143,210	152,011	140,721	139,824	141,816
Multi-family	88,251	77,506	75,413	92,092	100,344	123,611

1/ Revised.

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual).

Table 21.03-- ESTIMATED VALUE PER HOUSING UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1992 TO 1997

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1992	1993	1994	1995	1996	1997
One-family	135,278	146,639	145,044	135,304	149,807	151,064
Two-family	152,278	143,210	152,011	140,721	139,824	141,816
Multi-family	88,251	77,506	75,413	92,092	100,344	123,611

1/ Revised.

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual).

Table 21.04-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1987 TO 1997

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

Year 1/	Amount	Year 1/	Amount	Year 1/	Amount
1987	2,003,056	1991	4,334,051	1995	3,133,510
1988	2,487,571	1992	4,012,688	1996	3,285,106
1989	3,112,846	1993	3,803,605	1997	2,871,423
1990	4,003,650	1994	3,322,339		

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).

**Table 21.05-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES
AND SUBDIVIDERS AND DEVELOPERS: 1977 TO 1992**

[Excludes establishments without payroll]

Subject	1977	1982	1987	1992
Number of establishments in business during year	1,732	1,861	1,891	2,481
Proprietors and working partners	530	396	456	963
All employees	20,792	18,665	21,706	32,394
Construction workers, average	15,784	13,953	16,582	24,651
Other employees, March	5,032	4,711	4,861	7,835
Payroll (\$1,000,000)	323.4	409.7	606.9	1,112.5
Value of business done (\$1,000,000)	1,435.2	1,853.3	2,963.1	4,950.5
Value added (\$1,000,000)	636.2	855.2	1,288.7	2,148.3

Source: U.S. Bureau of the Census, *1992 Census of Construction Industries, Pacific States*, CC92-A-9 (May 1996), Hawaii table 3.

**Table 21.06-- GENERAL STATISTICS FOR CONSTRUCTION INDUSTRIES
AND SUBDIVIDERS AND DEVELOPERS, BY GEOGRAPHIC AREA: 1992**

[Excludes establishments without payroll]

Subject	State total	Oahu	Other islands
Number of establishments in business during year	2,481	1,545	936
All employees, average	32,394	25,559	6,835
Capital expend. other than land (mil. dol.)	69.6	50.2	19.4
Cost of construction work subcontracted to others (mil. dol.)	1,281.6	1,060.6	221.0
Cost of materials, components, supplies, and fuels (mil. dol.)	1,520.6	1,199.1	321.5
Net value of construction work (mil. dol.)	3,551.6	2,842.6	709.1
Payroll, all employees (mil. dol.)	1,112.5	912.3	200.1
Value added (mil. dol.)	2,148.3	1,722.7	425.6
Value of construction work (mil. dol.)	4,833.2	3,903.2	930.0

Source: U.S. Bureau of the Census, *1992 Census of Construction Industries, Pacific States, CC92-A-9* (May 1996), Hawaii tables 2 and 11.

**Table 21.07-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION
AUTHORIZED BY PERMITS, BY COUNTIES: 1991 TO 1996**

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai 1/	Maui
New 1-family dwellings:						
1991	4,634	1,202	3,432	2,309	471	652
1992	4,477	1,803	2,674	1,501	425	748
1993	4,586	1,913	2,673	1,539	474	660
1994	4,419	2,439	1,980	858	433	689
1995	3,831	2,090	1,741	908	312	521
1996	2,736	1,125	1,611	700	303	608
New duplex units:						
1991	147	48	99	44	12	43
1992	168	96	72	22	30	20
1993	136	62	74	26	4	44
1994	141	80	61	16	15	30
1995	112	64	48	10	21	17
1996	48	34	14	6	1	7
New apartments:						
1991	5,031	3,473	1,558	565	6	987
1992	3,090	2,356	734	449	125	160
1993	2,576	2,146	430	152	110	168
1994	2,907	2,206	701	76	223	402
1995	2,570	2,390	180	80	87	13
1996	1,093	997	96	63	17	16
Units demolished: 2/						
1991	875	779	96	39	6	51
1992	728	598	130	55	11	64
1993	631	547	84	51	33	(NA)
1994	643	553	90	67	23	(NA)
1995	1,161	855	306	66	172	68
1996	594	346	248	41	98	109

NA Not available.

1/ Kauai County figures for 1995 and 1996 include all permits previously processed through the FEMA's Office of Emergency Permitting which dealt with Hurricane Iniki damage. The FEMA office closed on June 15, 1995. Prior data for the FEMA office were not included in this table.

2/ Excludes units destroyed by fire, volcanic activity, high winds, and other disasters.

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

Table 21.08-- HONOLULU CONSTRUCTION COST INDEXES: 1987 TO 1997

[January 1992=100. Data are annual averages unless otherwise specified. Reindexed in 1992]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1987	82.1	82.0	82.2	81.0	81.3	80.5
1988	86.7	88.3	84.8	84.6	86.1	83.1
1989	90.5	90.9	90.0	89.4	89.7	88.8
1990	95.1	96.2	93.9	95.4	98.0	92.9
1991	98.4	99.5	97.2	99.2	101.6	97.1
1992	102.7	103.8	101.4	99.4	97.1	101.5
1993	111.5	116.0	106.2	103.9	100.7	106.8
1994	121.2	129.4	111.7	109.9	107.0	112.5
1995	118.2	119.9	116.1	114.1	110.8	117.1
1996	125.5	129.1	121.3	116.9	110.9	122.1
1997 2/	129.3	132.7	125.3	119.3	111.8	126.0

1/ Wages and benefits.

2/ Excludes December data.

Source: First Hawaiian Bank, Research Department, records.

**Table 21.09-- CONDOMINIUM ASSOCIATIONS REGISTERED:
FISCAL YEARS 1990 TO 1997**

Fiscal year	Associations registered	Units represented	Fiscal year	Associations registered	Units represented
1990	201	20,066	1994	1,114	95,827
1991	809	74,916	1995	999	85,296
1992	968	87,127	1996	1,161	101,629
1993	1,049	91,424	1997	1,277	106,052

Source: Hawaii Real Estate Commission, *Hawaii Condominium Bulletin*, Spring 1998, p. 5.

**Table 21.10-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF
HAWAII: 1993 TO 1997**

[Fiscal years ended June 30]

Subject	1993 1/	1994 1/	1995	1996	1997
Projects	218	228	255	183	179
Individual units	3,477	4,229	4,654	2,216	2,777

1/ Revised.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Commission, records.

**Table 21.11-- NEW CONDOMINIUM PROJECTS, BY TYPE:
FISCAL YEARS 1993 TO 1997**

Type of project	1993	1994	1995	1996	1997
All types	95	95	102	78	87
Residential	60	52	60	37	37
2 units or fewer	23	12	23	15	11
3 to 15 units	4	5	8	7	15
16 to 50 units	16	12	13	5	7
More than 50 units	17	23	16	10	4
Commercial and other	6	4	17	21	18
Agricultural	29	39	25	20	32

Source: Hawaii Real Estate Commission, *Hawaii Condominium Bulletin*, Spring 1998, p. 6.

**Table 21.12-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO
CONDOMINIUM UNITS: 1993 TO 1997**

[Fiscal years ended June 30]

Subject	1993 1/	1994 1/	1995	1996	1997
Projects	62	73	89	58	47
Housing units	469	491	1,060	476	1,048

1/ Revised.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Commission, records.

Table 21.13-- TIME-SHARE PROPERTIES AND UNITS, BY ISLANDS: 1997

Subject	State total	Hawaii	Kauai	Maui	Molokai	Oahu
Properties	55	9	15	22	1	8
Units 1/	3,017	550	1,101	712	7	647

1/ Number of units registered which have been designated for sale as timeshare.

Source: Hawaii Visitors & Convention Bureau, *1997 Visitor Plant Inventory*, pp. 55-56.

**Table 21.14-- TENURE AND CONTROL OF HOUSING UNITS: ANNUALLY,
1980 TO 1995**

[Data include some condominium units occupied or intended for occupancy by nonresidents]

Year	All housing units 1/	Owner-occupied units 2/		Renter-occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 1/	State and County 1/
1980	334,235	100,478	36,986	170,963	19,437	6,371
1981	341,764	104,677	37,413	173,644	19,427	6,603
1982	346,726	106,147	37,372	177,325	19,392	6,490
1983	349,996	108,761	35,586	179,831	19,304	6,514
1984	354,484	111,767	35,545	181,034	19,294	6,844
1985	358,581	114,548	35,681	182,050	19,280	7,022
1986	363,416	117,090	35,811	184,343	19,264	6,908
1987	369,425	121,019	35,959	186,109	19,265	7,073
1988	375,434	126,563	33,579	188,851	19,394	7,047
1989	382,052	132,691	30,996	191,657	19,421	7,287
1990	389,810	138,520	29,047	195,601	19,245	7,397
1991	398,325	141,846	26,915	202,266	19,358	7,940
1992	407,606	146,631	24,599	208,226	19,697	8,453
1993	413,830	152,147	20,393	213,140	(NA)	(NA)
1994	420,748	159,527	17,308	215,763	(NA)	(NA)
1995	430,417	166,953	14,037	218,981	21,069	9,377

NA Not available.

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions as of January 1. The number of owner-occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (Statistical Report 230, September 1996).

**Table 21.15--HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY,
1980 TO 1995**

[As of April 1. Data include some condominium units occupied or intended for occupancy by nonresidents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
1980	334,235	252,038	82,197	34,215	14,828	33,154
1981	341,764	254,815	86,949	36,041	16,021	34,887
1982	346,726	256,689	90,037	37,453	16,476	36,108
1983	349,996	259,149	90,847	38,264	16,044	36,539
1984	354,484	262,337	92,147	39,164	16,318	36,665
1985	358,581	265,412	93,169	40,054	16,428	36,687
1986	363,416	268,551	94,865	41,006	16,556	37,303
1987	369,425	272,134	97,291	42,022	16,690	38,579
1988	375,434	275,520	99,914	43,397	16,871	39,646
1989	382,052	278,191	103,861	45,520	17,173	41,168
1990	389,810	281,683	108,127	48,253	17,613	42,261
1991	398,325	284,835	113,490	50,579	18,649	44,262
1992	407,606	288,805	118,801	53,421	19,439	45,941
1993	413,830	293,020	120,810	55,396	18,195	47,219
1994	420,748	296,699	124,049	57,204	18,758	48,087
1995	430,417	303,653	126,764	58,143	19,470	49,151

1/ Including Kalawao County.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (Statistical Report 230, September 1996).

**Table 21.16-- TENURE AND CONTROL OF HOUSING, BY COUNTIES:
1993 TO 1995**

[Some condominium units occupied by nonresidents are included in these estimates]

Year and county	All housing units 1/	Owner-occupied units 2/		Renter-occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 1/	State and County 1/
1993						
State total	413,830	152,147	20,393	213,140	19,697	8,453
City & Co. of Honolulu	293,020	104,570	18,642	143,856	19,618	6,334
County of Hawaii	55,396	23,155	645	30,420	8	1,168
County of Kauai	18,195	8,697	399	8,702	65	332
County of Maui 4/	47,219	15,725	707	30,162	6	619
1994						
State total	420,748	159,527	17,308	215,763	19,697	8,453
City & Co. of Honolulu	296,699	109,915	15,614	145,218	19,618	6,334
County of Hawaii	57,204	24,121	647	31,260	8	1,168
County of Kauai	18,758	9,019	328	9,014	65	332
County of Maui 4/	48,087	16,472	719	30,271	6	619
1995						
State total	430,417	166,953	14,037	218,981	21,069	9,377
City & Co. of Honolulu	303,653	115,217	12,279	148,110	20,977	7,070
County of Hawaii	58,143	25,131	652	31,161	8	1,191
County of Kauai	19,470	9,363	388	9,204	78	437
County of Maui 4/	49,151	17,242	718	30,506	6	679

1/ As of April 1. Governmental units for 1993 and 1994 are based on 1992 data.

2/ As of January 1. Based on the number of taxpayers claiming home exemptions, rather than on the census tabulations on tenure.

3/ Calculated as a residual and not attributable to any specific month.

4/ Includes Kalawao County (95 units in 1995).

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (Statistical Report 230, September 1996).

**Table 21.17-- NUMBER OF TAXPAYERS CLAIMING HOME EXEMPTIONS:
1992 TO 1997**

[As of January 1. Based on number of taxpayers claiming home exemptions]

Tenure and county	1992	1993	1994	1995	1996	1997
TOTAL OWNER-OCCUPIED						
State total	171,230	172,540	176,835	180,990	184,662	185,208
Honolulu	123,082	123,212	125,529	127,496	129,542	128,489
Maui	15,970	16,432	17,191	17,960	18,449	18,903
Hawaii	23,336	23,800	24,768	25,783	26,899	27,912
Kauai	8,842	9,096	9,347	9,751	9,772	9,904
FEE SIMPLE						
State total	146,631	152,147	159,527	166,953	171,767	173,237
Honolulu	101,036	104,570	109,915	115,217	118,304	118,157
Maui	14,971	15,725	16,472	17,242	17,695	18,161
Hawaii	22,169	23,155	24,121	25,131	26,250	27,260
Kauai	8,455	8,697	9,019	9,363	9,518	9,659
LEASEHOLD						
State total	24,599	20,393	17,308	14,037	12,895	11,971
Honolulu	22,046	18,642	15,614	12,279	11,238	10,332
Maui	999	707	719	718	754	742
Hawaii	1,167	645	647	652	649	652
Kauai	387	399	328	388	254	245

1/ For a comparison of 1990 and earlier data on owner occupancy from the Census of Housing, see DBEDT's Statistical Report 223, "Housing Unit Estimates for Hawaii, 1980-1991" (January 1992), table 9.

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

**Table 21.18-- RESIDENT AND NONRESIDENT HOUSING UNITS,
BY COUNTIES: ANNUALLY, 1984 TO 1994**

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
RESIDENT 2/						
1984	336,882	255,450	81,432	37,262	14,720	29,450
1985	336,777	256,396	80,381	37,775	14,352	28,254
1986	340,417	258,713	81,704	38,954	13,982	28,768
1987	347,529	262,898	84,631	39,920	14,059	30,652
1988	354,314	267,885	86,429	41,043	14,016	31,370
1989	362,912	272,272	90,640	43,502	14,139	32,999
1990	370,682	276,618	94,064	46,138	15,047	32,879
1991	378,438	280,167	98,271	48,178	16,114	33,979
1992	384,961	280,672	104,289	51,087	16,752	36,450
1993	392,749	285,200	107,549	53,176	16,526	37,847
1994	399,501	289,864	109,637	54,721	15,878	39,038
NONRESIDENT 3/						
1984	17,602	6,887	10,715	1,902	1,598	7,215
1985	21,804	9,016	12,788	2,279	2,076	8,433
1986	22,999	9,838	13,161	2,052	2,574	8,535
1987	21,896	9,236	12,660	2,102	2,631	7,927
1988	21,120	7,635	13,485	2,354	2,855	8,276
1989	19,140	5,919	13,221	2,018	3,034	8,169
1990	19,128	5,065	14,063	2,115	2,566	9,382
1991	19,887	4,668	15,219	2,401	2,535	10,283
1992	22,645	8,133	14,512	2,334	2,687	9,491
1993	21,081	7,820	13,261	2,220	1,669	9,372
1994	21,247	6,835	14,412	2,483	2,880	9,049

1/ Includes Kalawao.

2/ Estimated as of April 1. Includes all housing units other than condominium units in rental pools and intended for transient occupancy.

3/ Condominium units in rental pools and intended for transient occupancy, based on survey data from the Hawaii Visitors Bureau. Includes condo/hotel units.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (Statistical Report 230, September 1996), and Hawaii Visitors Bureau, *Visitor Plant Inventory Report* (annual).

Table 21.19-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES: 1990

[Data include some condominium units used or intended for use by transients]

Subject	State total 1/	Honolulu	Hawaii	Kauai	Maui
ALL HOUSING UNITS					
All housing units	389,810	281,683	48,253	17,613	42,160
Units in structure:					
1 unit, detached	202,990	126,553	36,622	13,934	25,781
1 unit, attached	34,041	28,914	1,399	1,158	2,569
2 to 4 units	24,182	19,384	2,150	1,053	1,595
5 to 9 units	22,258	18,285	1,642	446	1,885
10 or more units	100,238	84,378	5,561	647	9,652
Mobile home, boat, other	6,101	4,169	879	375	678
Mean number of rooms	4.4	4.4	4.6	4.6	4.2
OCCUPIED HOUSING UNITS					
Total	356,267	265,304	41,461	16,295	33,145
With 1.01 or more persons per room	56,708	43,526	5,155	2,613	5,411
VACANT HOUSING UNITS					
Total	33,543	16,379	6,792	1,318	9,015
For seasonal, recreational, or occasional use	12,806	4,462	2,045	333	5,944
Homeowner vacancy rate	0.8	0.6	1.5	0.7	1.5
Rental vacancy rate	5.4	4.3	10.3	4.3	9.9
OWNER-OCCUPIED HOUSING UNITS					
Total	191,911	137,910	25,336	9,582	19,083
1 unit, detached or attached	153,596	103,716	24,063	9,042	16,775
Percent of all occupied units	53.9	52.0	61.1	58.8	57.6
Persons per unit	3.19	3.23	2.93	3.28	3.23
Mean number of rooms	5.2	5.3	5.2	5.2	5.0

Continued on next page.

**Table 21.19-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES:
1990 -- Con.**

Subject	State total 1/	Honolulu	Hawaii	Kauai	Maui
VALUE OF SPECIFIED OWNER- OCCUPIED HOUSING UNITS 2/					
Total	144,431	98,541	21,910	8,414	15,566
Less than \$100,000	16,450	4,056	9,414	1,164	1,816
\$100,000 to \$199,999	37,825	19,781	8,159	4,028	5,857
\$200,000 to \$299,999	39,679	30,702	2,500	1,854	4,623
\$300,000 or more	50,477	44,002	1,837	1,368	3,270
Lower quartile (dollars)	156,800	202,700	77,000	122,000	141,500
Median (dollars)	245,300	283,600	113,000	171,500	202,100
Upper quartile (dollars)	358,800	391,500	176,400	254,800	284,300
RENTER-OCCUPIED HOUSING UNITS					
Total	164,356	127,394	16,125	6,713	14,062
1 unit, detached or attached	71,634	47,233	9,877	5,039	9,423
Persons per unit	2.78	2.80	2.76	2.85	2.66
Mean number of rooms	3.7	3.6	3.8	3.9	3.6
CONTRACT RENT OF SPECIFIED RENTER-OCCUPIED UNITS 3/					
Total	139,266	107,256	13,941	5,822	12,243
Less than \$250	15,119	9,653	2,841	1,253	1,368
\$250 to \$499	36,779	27,231	5,797	1,392	2,359
\$500 to \$749	43,763	35,258	3,154	1,473	3,878
\$750 to \$999	25,164	20,019	1,414	1,092	2,639
\$1,000 or more	18,441	15,095	735	612	1,999
Lower quartile (dollars)	401	423	288	301	434
Median (dollars)	599	615	428	532	658
Upper quartile (dollars)	837	854	626	807	899

1/ Includes Kalawao County (101 housing units), not shown separately.

2/ House and lot. Data limited to one-family houses on less than 10 acres without a business or medical office on the property.

3/ Excludes one-family houses on 10 acres or more.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), tables 8, 10, and 12.

Table 21.20-- SUMMARY HOUSING CHARACTERISTICS, BY COUNTIES: 1990

[Data include some condominium units used or intended for use by transients]

Characteristic	State total 1/	Hawaii	Honolulu	Kauai	Maui
All housing units	389,810	48,253	281,683	17,613	42,160
Percent--					
Structure built 1980-1990	20.8	35.1	15.9	32.3	32.5
Structure built before 1940	6.7	10.8	5.8	10.2	6.5
Under 2 bedrooms	26.1	19.5	27.4	15.7	29.2
4 or more bedrooms	13.4	10.5	14.7	10.2	9.2
Condominium	20.8	8.1	23.5	5.1	23.8
Lacking complete plumbing	1.1	3.6	0.6	1.3	1.2
With public sewer	80.2	27.8	93.6	30.9	72.2
Lacking complete kitchen facilities	1.6	3.4	1.3	1.8	1.4
All occupied units	356,267	41,461	265,304	16,295	33,145
Percent with no telephone in unit	2.6	5.5	2.1	3.0	3.2
Owner-occupied units	191,894	25,336	137,893	9,582	19,083
Percent householder moved into unit--					
1989 to March 1990	9.7	11.1	9.2	9.6	10.9
Before 1970	29.1	24.0	30.7	27.8	25.2
With a mortgage	102,601	12,968	73,972	5,246	10,415
Median monthly costs (dollars)	1,008	669	1,121	828	933
Percent of household income	21.4	20.5	21.5	21.2	22.3
Not mortgaged	44,909	9,280	26,931	3,313	5,385
Median monthly costs (dollars)	170	130	185	152	160
Percent of household income	10.8	10.9	10.7	10.9	11.1
Renter-occupied units	164,373	16,125	127,411	6,713	14,062
Percent householder moved into unit--					
1989 to March 1990	38.9	42.2	38.1	34.9	44.8
Before 1970	4.1	4.5	4.0	6.9	3.6
Median gross rent (dollars)	650	490	663	618	722
Percent of household income	27.4	27.0	27.6	24.1	27.1

1/ Includes Kalawao County (101 housing units), not shown separately.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, Hawaii*, 1990 CPH-5-13 (April 1992), tables 12, 14, and 16.

**Table 21.21--CHARACTERISTICS OF HOUSING UNITS, FOR THE STATE,
1992 AND 1997, AND COUNTIES, 1997**

[Figures may vary significantly between the Housing Inventory study and the Demand Survey.
Results from each section were obtained using different criteria, methodologies and data sources]

Subject	The State		Counties, 1997			
	1992	1997	Hono- lulu	Maui	Hawaii	Kauai
HOUSING INVENTORY STUDY						
All units	400,388	442,867	309,473	54,639	54,643	24,112
Type:						
Single family	217,610	238,487	145,078	32,379	43,979	17,051
Condominium	109,861	125,193	92,503	18,362	8,539	5,789
Apartment	46,116	50,512	43,732	3,768	1,814	1,198
Military	19,398	20,145	20,071	-	-	74
Student	4,689	4,771	4,405	55	311	-
Cooperative	2,714	3,759	3,684	75	-	-
Owner-occupied (percent)	42.6	44.2	43.4	40.1	53.3	43.7
Single family	63.8	65.6	68.6	59.5	63.2	58.2
Condominium	28.8	31.5	37.7	14.4	15.4	10.3
HOUSING DEMAND SURVEY (Excludes military, student, transient, and vacant units)						
Survey base	281,095	376,574	272,234	39,252	46,271	18,817
Owner-occupied (percent)	51.9	57.9	53.8	65.0	72.3	67.1
Household income (median)	\$36,289	\$39,883	\$42,234	\$38,908	\$31,831	\$34,891
Poor condition (percent)						
Owner-occupied	1.5	3.6	3.7	3.3	4.1	3.0
Renter-occupied	6.0	6.3	6.0	5.0	9.6	6.7
Average monthly mortgage 1/	\$800	\$1,319	\$1,430	\$1,210	\$954	\$1,151
Average monthly rent 2/	\$793	\$897	\$928	\$850	\$697	\$830
Overcrowded 3/	22.2	10.2	10.6	10.4	7.9	9.1
Percent completed surveys	(NA)	1.4	0.4	2.7	6.5	2.1

1/ Excludes responses from households with paid-up mortgages.

2/ Excludes responses from those who occupied their units without payment of cash rent.

3/ Percent with 1.01 or more persons per room.

Source: *Hawaii Housing Policy Study 1997 Update*, prepared by Prudential Locations, Inc., and SMS Research & Marketing Services (Feb. 1998), pp. II-12,29,30; IV-9,10,11,12,13, and 14; *Hawaii Housing Policy Study*, prepared by Locations, Inc. and SMS Research & Marketing Services (May 1993), p. B-3.

**Table 21.22-- TENURE AND VALUE OF CONDOMINIUM UNITS,
BY COUNTIES: 1990**

County	All housing units	Condominium housing units			Median value 2/ (dollars)	
		Total	Owner-occupied	Renter-occupied		Vacant 1/
State total	389,810	81,127	35,078	30,450	15,599	191,600
Honolulu	281,683	66,264	32,063	26,383	7,818	195,800
Other counties	108,127	14,863	3,015	4,067	7,781	142,400
Hawaii	48,253	3,924	835	1,596	1,493	125,100
Kalawao	101	-	-	-	-	-
Kauai	17,613	900	267	465	168	127,800
Maui	42,160	10,039	1,913	2,006	6,120	149,700

1/ Includes vacant for seasonal, recreational, or occasional use, time-share units, and units temporarily occupied at the time of enumeration entirely by persons who have a usual place of residence elsewhere.

2/ For owner-occupied condominium housing units only.

Source: U.S. Bureau of the Census, *1990 Census of Housing, Detailed Housing Characteristics, Hawaii*, 1990 CH-2-13 (August 1993), tables 13, 35, and 66.

**Table 21.23-- VACANCY AND HOMEOWNERSHIP RATES, FOR THE STATE
AND HONOLULU MSA: 1986 TO 1996**

[The Honolulu Metropolitan Statistical Area consists of the City and County of Honolulu]

Year	Rental vacancy rate		Homeowner vacancy rate		Homeownership rate	
	State total	Honolulu MSA	State total	Honolulu MSA	State total	Honolulu MSA
1986	5.7	5.0	0.8	0.9	50.9	50.0
1987	6.5	5.5	1.1	1.1	50.7	50.3
1988	6.3	4.1	0.4	0.5	53.2	52.2
1989	6.6	5.1	1.0	0.7	54.7	52.2
1990	6.6	3.8	0.8	0.7	55.5	52.9
1991	5.8	3.8	1.4	0.9	55.2	53.3
1992	5.8	3.4	2.5	0.9	53.8	52.6
1993	6.8	3.9	1/ 3.0	1.3	52.8	51.9
1994	7.4	1/ 5.0	2.0	1/ 1.4	52.3	1/ 51.5
1995	6.3	5.4	2.0	1.8	50.2	49.1
1996	6.0	4.7	1.4	1.3	50.6	49.1
Standard error	0.9	0.9	0.3	0.4	1.1	1.3
U.S. 1996	7.8	2/ 7.7	1.6	1.5	65.4	63.4

1/ Revised.

2/ Rate for all U.S. inside metropolitan areas.

Source: U.S. Bureau of the Census, "Housing Vacancy Survey Annual Statistics: 1996,"
at <http://www.census.gov/hhes/www/housing/hvs/annual96/ann96ind.html>.

**Table 21.24-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE
SPACE FOR HONOLULU, BY LOCATION: 1993 TO 1995**

[Rates are percent of space reported vacant in survey]

Location	May 1993	Oct. 1993	May 1994	Oct. 1994	May 1995 1/
Downtown	12.8	14.5	15.9	13.7	16.1
Downtown to Waikiki	7.6	5.4	5.7	6.7	7.0
Waikiki	15.4	19.0	28.3	29.1	18.3
Other	6.6	10.5	11.9	11.0	10.3

1/ Preliminary.

Source: Semi-annual survey by Hastings, Martin, Conboy, Braig & Associates, Ltd.

Table 21.25-- HAWAII HOUSING AUTHORITY OPERATIONS: 1995 TO 1997

Subject	1995	1996	1997
Total units owned by HHA, June 30	6,170	6,312	1/ 6,352
Occupied	5,884	5,994	5,876
Population in units, June 30	16,378	16,410	16,116
Per occupied unit	2.65	2.55	2.40
Total assets, June 30 (million dollars)	275	301	308
Operating revenues of HHA, fiscal year: 2/			
Gross (\$1,000)	18,543	21,428	22,469
Net (\$1,000)	-466	2,164	3,831
Operating revenues per unit per month, fiscal year (dollars) 2/	251	283	295
Rent charged per unit per month, fiscal year (dollars) 2/	204	199	195

1/ Federal low-rent, 5,182; State low-rent, 594; State elderly, 576.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

**Table 21.26-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE
OF LICENSE AND LOCATION: FEBRUARY 27, 1997**

[Real estate licenses are subject to renewal on or before December 31 of each even-numbered year]

Type of license	Active	Inactive	Location	Active	Inactive
Total	8,985	4,443	Oahu	6,148	3,010
			Hawaii	1,078	436
Broker:			Maui	1,187	355
Individual	3,463	616	Kauai	535	206
Corporation or partnership	1,039	53	Molokai	30	1
			Lanai	4	4
Salesman	4,483	3,774	U.S. mainland	2	390
			Foreign	1	41

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

**Table 21.27-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR
OAHU: 1987 TO 1997**

[Data include single family, condominium/cooperative, vacant, multi-family,
commercial/industrial, business opportunities]

Year	Number listed	Number sold	Percent sold	Average sales price (dollars)
1987	12,887	8,855	68.7	188,200
1988	14,548	9,886	68.0	201,000
1989	13,873	9,757	70.3	238,257
1990	17,097	9,243	54.1	319,500
1991	15,280	5,682	37.2	299,599
1992	13,421	5,509	41.0	292,342
1993	13,124	5,371	40.9	297,149
1994	12,655	5,759	45.5	297,428
1995	12,834	4,060	31.6	307,617
1996	12,147	3,896	32.1	300,494
1997	11,868	4,313	36.3	281,785

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.28-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1995 TO 1997

Year and type of property	Number listed	Number sold	Percent sold	Sales price (dollars)	
				Mean	Median
1995					
Total	12,834	4,060	31.6	307,617	...
Single family	4,582	1,642	35.8	429,613	349,000
Condominium/cooperative	7,175	2,260	31.5	206,134	182,000
Vacant land	522	84	16.1	419,342	305,000
Multi-family	194	26	13.4	1,116,500	621,500
Commercial	129	16	12.4	724,875	496,500
Business opportunities	232	32	13.8	55,828	43,750
1996					
Total	12,147	3,896	32.1	300,494	...
Single family	4,649	1,749	37.6	409,441	335,000
Condominium/cooperative	6,441	1,990	30.9	202,494	175,000
Vacant land	490	91	18.6	285,986	250,000
Multi-family	230	22	9.6	677,227	537,500
Commercial	146	13	8.9	653,292	425,000
Business opportunities	191	31	16.2	72,000	59,500
1997					
Total	11,868	4,313	36.3	281,785	...
Single family	4,858	2,025	41.7	380,507	307,000
Condominium/cooperative	6,000	2,100	35.0	178,090	150,000
Vacant land	549	117	21.3	348,187	239,000
Multi-family	203	34	16.7	561,957	454,500
Commercial	123	21	17.1	475,405	470,000
Business opportunities	135	16	11.9	62,168	34,400

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.29-- MULTIPLE LISTING SERVICE SINGLE-FAMILY HOUSES SOLD,
BY SELLING PRICE RANGE, FOR OAHU: 1996 AND 1997**

Selling price range	1996	1997
All properties	1,749	2,025
On leased land	42	46
Percent	2.4	2.3
Less than \$100,000	6	17
\$100,000 to \$149,999	32	32
\$150,000 to \$199,999	88	169
\$200,000 to \$249,999	238	378
\$250,000 to \$299,999	306	369
\$300,000 to \$349,999	271	319
\$350,000 to \$399,999	233	207
\$400,000 to \$449,999	146	132
\$450,000 to \$499,999	90	93
\$500,000 to \$549,999	82	64
\$550,000 to \$599,999	50	46
\$600,000 to \$649,999	47	31
\$650,000 to \$699,999	29	30
\$700,000 to \$799,999	37	42
\$800,000 to \$899,999	25	31
\$900,000 to \$999,999	9	15
\$1.0 to \$1.9 million	50	33
\$2.0 to \$2.9 million	6	12
\$3.0 to \$3.9 million	2	2
\$4.0 to \$4.9 million	-	1
\$5.0 million or more	2	2
Median value	\$335,000	\$307,000
Mean value	\$409,441	\$380,507

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

**Table 21.30-- MULTIPLE LISTING SERVICE COOPERATIVE AND
CONDOMINIUM UNITS SOLD, BY SELLING PRICE RANGE, FOR OAHU:
1995 TO 1997**

Selling price range	1995	1996	1997		
			Total	Fee simple	Leasehold
All properties	2,260	1,990	2,100	1,398	702
Less than \$50,000	17	37	88	25	63
\$50,000 to \$74,999	54	69	173	73	100
\$75,000 to \$99,999	87	124	206	94	112
\$100,000 to \$124,999	167	182	260	165	95
\$125,000 to \$149,999	268	279	301	209	92
\$150,000 to \$174,999	406	299	241	165	76
\$175,000 to \$199,999	377	260	215	169	46
\$200,000 to \$224,999	265	185	145	121	24
\$225,000 to \$249,999	180	138	120	102	18
\$250,000 to \$274,999	114	109	59	49	10
\$275,000 to \$299,999	102	52	45	39	6
\$300,000 to \$399,999	108	140	145	108	37
\$400,000 to \$499,999	39	40	46	32	14
\$500,000 to \$599,999	33	34	27	22	5
\$600,000 to \$699,999	17	11	16	15	1
\$700,000 to \$799,999	13	19	3	3	-
\$800,000 to \$899,999	4	7	4	3	1
\$900,000 to \$999,999	2	1	3	3	-
\$1,000,000 or more	7	4	3	1	2
Median value	\$182,000	\$175,000	\$150,000	\$169,000	\$119,000
Mean value	\$206,134	\$202,494	\$178,090	\$195,493	\$143,432

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.31-- MULTIPLE LISTING SERVICE, NUMBER OF SINGLE FAMILY AND CONDOMINIUM RESALES, BY ISLAND: 1987 TO 1997

Category and year	State total	Oahu	Hawaii	Kauai	Maui
SINGLE FAMILY					
1987	4,822	3,194	818	290	520
1988	4,656	3,007	869	223	557
1989	4,533	2,923	841	203	566
1990	4,828	2,695	1,231	266	636
1991	3,225	1,817	795	152	461
1992	3,350	1,858	820	264	408
1993	3,216	1,895	761	190	370
1994	3,643	2,150	906	199	388
1995	2,937	1,618	823	142	354
1996	3,133	1,725	805	162	441
1997	3,692	1,993	950	199	550
CONDOMINIUM					
1987	7,135	5,515	285	319	1,016
1988	8,395	6,622	382	270	1,121
1989	8,333	6,467	372	217	1,277
1990	8,528	6,028	674	277	1,549
1991	4,530	3,372	315	158	685
1992	3,967	3,104	264	94	505
1993	3,986	3,166	292	75	453
1994	4,341	3,322	314	138	567
1995	3,120	2,195	282	96	547
1996	3,013	1,969	358	123	563
1997	3,475	2,055	443	144	833

Source: Data compiled by Prudential Locations Research from each county's Board of Realtors MLS.

**Table 21.32-- MULTIPLE LISTING SERVICE, MEDIAN SALES PRICE OF
SINGLE FAMILY AND CONDOMINIUM RESALES, BY ISLAND:
1987 TO 1997**

[In dollars]

Category and year	State total 1/	Oahu	Hawaii	Kauai	Maui
SINGLE FAMILY					
1987	162,620	185,000	92,000	129,000	155,000
1988	189,743	213,000	115,000	170,000	188,700
1989	236,565	270,000	136,000	204,000	225,000
1990	287,617	355,000	150,000	260,000	280,000
1991	286,026	345,000	165,000	247,500	275,000
1992	281,220	349,000	154,250	185,000	290,000
1993	292,359	350,000	170,000	231,613	280,000
1994	295,982	360,000	165,000	244,500	273,500
1995	280,932	349,000	155,000	250,000	275,000
1996	274,918	334,000	165,000	219,000	265,000
1997	253,675	305,000	155,000	221,000	249,950
CONDOMINIUM					
1987	106,048	105,000	90,000	110,000	115,000
1988	115,116	113,000	90,000	120,000	135,000
1989	136,556	137,000	115,000	140,000	140,000
1990	180,621	189,900	127,000	149,000	173,500
1991	182,913	192,000	137,000	162,500	164,000
1992	186,323	194,000	148,000	155,000	165,000
1993	186,148	192,500	140,000	165,000	175,000
1994	180,950	190,000	125,000	139,500	169,000
1995	172,702	182,000	123,000	150,000	165,000
1996	166,344	173,000	125,175	140,000	175,000
1997	145,570	150,000	125,000	120,000	150,000

1/ Weighted by the number of resales.

Source: Data compiled by Prudential Locations Research from each county's Board of Realtors MLS.

**Table 21.33-- CHARACTERISTICS OF PRIVATE SINGLE-FAMILY AND
MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1992 TO 1997**

Year	Single-family developments				Multi-family developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1992	1,390	4,657	453	316,264	1,029	804	205,606
1993	1,385	4,707	1,074	321,775	891	900	182,796
1994	1,437	5,140	792	345,745	914	1,135	209,228
1995	1,350	4,530	902	301,452	845	698	210,448
1996	1,296	5,040	462	301,745	934	608	233,376
1997	1,367	4,366	548	277,535	905	274	202,694

1/ Four stories or less.

Source: Bank of Hawaii, *Construction in Hawaii 1998* (1998), pp. 20.

**Table 21.34-- MORTGAGES AND AGREEMENTS OF SALE:
1992 TO 1997**

Year	Mortgages recorded			Agreements of sale (\$1,000)	Mortgage loans outstanding, Dec. 31, 1/ (\$1,000)
	Number	Total value (\$1,000)	Average value (dollars)		
1992	65,248	12,319,317	188,808	286,428	8,657,335
1993	69,111	12,632,003	182,778	180,863	9,532,933
1994	51,076	9,005,637	176,318	144,718	9,921,883
1995	33,624	6,179,943	183,796	115,644	9,697,000
1996	34,233	6,329,846	184,905	128,783	9,699,800
1997	29,947	5,517,668	184,248	108,645	10,242,500

1/ Data exclude insurance and trust companies, 1995-1997.

Source: Bank of Hawaii, *Construction in Hawaii 1998* (1998), p. 31.

**Table 21.35-- CHARACTERISTICS OF SINGLE FAMILY HOMES INSURED
UNDER FHA SECTION 203(B): 1994 AND 1995**

Subject	1994	1995
Number insured	692	415
Proposed	243	232
Existing	449	183
Amount (\$1,000)	92,639	59,365
Proposed	31,649	34,250
Existing	60,989	25,115
Averages:		
Age of structure (years)	13.7	14.0
Improved living area (square feet)	1,194	(B)
Lot size (square feet)	4,976	(B)
Number of rooms	5.5	(B)
Market price of site (dollars)	(B)	(B)
Site to value ratio (percent)	(B)	(B)
Site price per square foot (dollars)	(B)	(B)
Construction cost per square foot (dollars)	(B)	(B)
Appraisal value (dollars)	177,155	177,505
Sales price per square foot (dollars)	71.50	(B)
Annual effective income (dollars)	52,970	55,656

B Sample under 25.

Source: U.S. Department of Housing and Urban Development, Information Systems Division, *FHA Homes - 1994, Sec. 203(b)*, pp. 31-51, and *FHA Homes - 1995, Sec. 203(b)*, pp. 31-51.

**Table 21.36-- NUMBER OF DEEDS FILED AND RECORDED AND
APPROXIMATE VALUE OF LAND CONVEYED: 1993 TO 1997**

[Years ended June 30. Data include leases, agreement of sales assignments, subleases,
timeshares, etc., as well as deeds]

Subject	1993	1994	1995	1996	1997
Number of deeds filed and recorded	68,871	69,305	61,821	61,087	61,021
Approximate value of land conveyed (\$1,000)	7,521,374	15,812,168	6,486,476	6,184,142	5,862,196

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.37-- APPROXIMATE VALUE OF LAND TRANSFERS, BY
COUNTIES: 1995 TO 1997**

[In dollars. For calendar years. Totals include leases, agreement of sales assignments,
subleases, etc., as well as deeds]

County	1995	1996	1997
State total	6,424,925,450	5,793,252,100	6,298,002,889
Honolulu	4,465,410,200	3,640,154,300	4,042,187,000
Maui	847,727,000	990,129,200	1,057,280,899
Hawaii	849,798,700	786,192,300	851,136,190
Kauai	261,989,550	376,776,300	347,398,800

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.38-- FORECLOSURE FILINGS, BY JUDICIAL CIRCUIT:
1992 TO 1997**

Year	State total	First Circuit 1/	Second Circuit 2/	Third Circuit 3/	Fifth Circuit 4/
1992	1,068	671	175	174	48
1993	1,436	950	204	216	66
1994	1,578	1,022	240	222	94
1995	1,957	1,204	317	293	143
1996	2,800	1,828	464	352	156
1997	3,148	2,205	421	362	160

1/ City and County of Honolulu and Kalawao on Molokai.

2/ Maui County excludes Kalawao on Molokai.

3/ Hawaii County.

4/ Kauai County.

Source: The Judiciary, Office of the Administrative Director of the Courts, Statistics Office, records.

**Table 21.39-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES:
DECEMBER 31, 1997**

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total								
Elevators	4,800	3,797	120	200	475	-	20	188
Under 9 stories:								
Hydro	1,396	924	59	95	190	-	9	119
Roped	1,575	1,136	50	105	219	-	11	54
9 to 18 stories	1,134	1,042	11	-	66	-	-	15
19 to 28 stories	395	395	-	-	-	-	-	-
29 to 38 stories	214	214	-	-	-	-	-	-
39 stories or more	86	86	-	-	-	-	-	-
Escalators & moving walks/ speed ramps	386	365	6	-	13	-	-	2
Inclined lifts	8	4	3	1	-	-	-	-
Private industrial elevators	11	1	-	3	7	-	-	-
Manlifts	12	10	-	2	-	-	-	-
Handicap/chairlifts	170	126	19	5	9	-	-	11
Dumbwaiters	333	275	17	2	27	2	2	8
Material lifts	3	-	-	2	1	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 21.40-- TALLEST STRUCTURES, BY ISLANDS: MARCH 1998

Island and structure	Location	Year completed	Height	
			Stories	Feet
BUILDINGS 1/				
Hawaii: Bayshore Towers	Hilo	1970	15	135
Maui: Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Royal Lahaina Hotel	Kaanapali	1970	12	132
Lanai: Manele Hotel	Hulopoe Bay	1991	3	48
Molokai: Molokai Light Station	Kalaupapa	1909	...	138
Oahu: First Hawaiian Center	999 Bishop Street	1996	27	438
Nauru Tower	1330 Ala Moana Blvd.	1991	45	400
Waterfront Towers	425 South Street	1990	46	400
One Archer Lane	801 South King St.	1998	41	400
Kauai: Marriott Resort & Beach Club 2/	Lihue	1959	10	107
OTHER STRUCTURES				
Hawaii: Coast Guard Loran Station	Upolu Point	1958	...	625
Maui: KMVI Radio Tower	Wailuku	1947	...	455
Lanai: Storage tanks	Manele Harbor	...	...	50
Molokai: KAIM Radio Tower	Kalua Koi	1981	...	410
Oahu: VLF Antenna	Lualualei	1972	...	1,503
Kauai: Communication Engineers Tower	Mana	1964	...	400

1/ Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

2/ Formerly named the Westin Kauai Hotel.

Source: Compiled by DBEDT from Hawaii County Department of Research and Development, Maui County Department of Public Works, City and County of Honolulu Building Department, and Kauai County Department of Public Works.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning. Additional information on manufacturing workers appears in Sections 12 and 15.

Sources for data on this subject include the quinquennial *United States Census of Manufactures*, most recently published for 1992, the *United States Annual Survey of Manufactures*, publications of the Hawaii State Department of Agriculture and the Hawaii State Department of Taxation, and the *Hawaiian Sugar Manual* of the former Hawaiian Sugar Planters' Association, now the Hawaii Agriculture Research Center. *Historical Statistics of Hawaii*, Section 16, contains the figures for earlier years. Statistics for the nation as a whole appear in Section 26 of the *Statistical Abstract of the United States: 1997*.

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1996**

Subject	1963	1967	1972	1977	1982	1987
All establishments: 1/						
Total	672	697	773	949	967	1,022
With 20 employees or more	203	215	238	231	237	225
All employees:						
Number (1,000)	25.1	25.4	24.8	25.0	23.6	22.2
Payroll (million dollars)	109.0	139.6	191.1	276.8	360.4	440.2
Production workers:						
Number (1,000)	18.7	19.0	17.7	17.4	16.0	15.2
Hours (millions)	33.2	35.9	33.1	31.3	29.9	28.8
Wages (million dollars)	67.5	86.9	113.7	160.5	217.5	254.2
Value added by manufacture 3/ (million dollars)	261.1	326.2	410.0	785.5	1,119.6	1,405.3
Cost of materials 4/ (million dollars)	(NA)	399.6	548.3	1,176.1	2,357.5	2,048.8
Value of shipments 4/ (million dollars)	(NA)	723.4	955.6	1,974.0	3,443.0	3,447.9
New capital expenditures (million dollars)	15.4	26.0	46.7	44.4	89.4	102.0

Continued on next page.

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1996 -- Con.**

Subject	1991	1992	1993	1994	1995	1996
All establishments: 1/						
Total	(NA)	1,020	(NA)	(NA)	(NA)	(NA)
With 20 employees or more	(NA)	225	(NA)	(NA)	(NA)	(NA)
All employees:						
Number (1,000)	19.3	20.6	20.7	17.8	17.3	17.1
Payroll (million dollars)	466.1	547.4	711.7	505.4	2/ 508.1	509.4
Production workers:						
Number (1,000)	11.5	12.9	12.4	11.0	10.7	10.1
Hours (millions)	22.9	26.0	25.4	21.5	21.6	19.7
Wages (million dollars)	248.6	290.1	307.0	266.9	2/ 260.1	250.6
Value added by manufacture 3/ (million dollars)	1,383.3	1,556.5	2,192.8	1,527.4	2/ 1,485.6	1,608.5
Cost of materials 4/ (million dollars)	2,368.8	2,228.2	2,316.4	1,799.3	2/ 1,909.2	1,546.7
Value of shipments 4/ (million dollars)	3,805.3	3,791.7	4,510.1	3,336.8	2/ 3,435.5	3,145.5
New capital expenditures (million dollars)	64.1	107.1	174.6	202.8	2/ 112.8	79.0

NA Not available.

1/ Establishments with payroll at any time during year.

2/ Revised.

3/ Data for 1982 and later years not directly comparable to data for earlier years; see source for discussion.

4/ Aggregate of cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, *1982 Census of Manufactures, Geographic Area Series, Hawaii*, MC82-A-12 (April 1985), table 2a; *1987 Census of Manufactures, Geographic Area Series, Hawaii*, MC87-A-12 (October 1990), table 2a; *1990 Annual Survey of Manufactures, Geographic Area Statistics*, M90 (AS)-3 (April 1992), table 1; *1991 Annual Survey of Manufactures, Geographic Area Statistics*, M91 (AS)-3 (February 1993), table 1; *1995 Annual Survey of Manufactures, Geographic Area Statistics*, M94 (AS)-3 (April 1997), table 1; *1996 Annual Survey of Manufactures, Geographic Area Statistics*, M96 (AS)-3 (April 1998), table 1 at <http://www.census.gov/prod/www/titles.html#mm>.

**Table 22.02-- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES:
1992**

[Includes operating manufacturing establishments and auxiliaries]

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All establishments 1/ (number)	1,020	768	114	40	98
With 20 employees or more	225	183	24	7	11
All employees:					
Number (1,000)	20.6	15.0	2.6	0.9	2.2
Payroll (million dollars)	547.4	409.8	54.7	21.0	61.9
Production workers:					
Number (1,000)	12.9	9.2	1.8	0.6	1.3
Hours (millions)	26.0	18.0	3.6	1.3	3.1
Wages (million dollars)	290.1	211.4	36.7	13.0	29.0
Value added by manufacture (million dollars)	1,556.4	1,228.6	141.4	42.0	144.3
Cost of materials 2/ (million dollars)	2,228.3	1,911.4	140.6	45.9	130.5
Value of shipments 2/ (million dollars)	3,791.7	3,150.7	278.4	87.7	275.0
New capital expenditures (million dollars)	107.1	81.8	6.3	7.3	11.6

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate of cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, *1992 Census of Manufactures, Geographic Area Series, Hawaii*, MC92-A-12 (August 1995), table 4.

Table 22.03-- MANUFACTURES, BY SELECTED INDUSTRY GROUPS: 1995

[Includes operating manufacturing establishments and auxiliaries]

Subject	Food and kindred products (SIC 20)			Apparel, other textile products (SIC 23)	Printing and publishing (SIC 27)	Stone, clay, and glass products (SIC 32)
	Total	Preserved fruits and vegetables (SIC 203)	Sugar, confectionery products (SIC 206)			
All employees:						
Number (1,000)	5.4	1.0	1.7	2.2	3.5	1.1
Payroll (million dollars)	135.7	20.6	29.8	33.2	126.4	42.2
Production workers:						
Number (1,000)	3.4	0.8	1.2	1.6	1.9	0.7
Hours (million)	6.7	1.5	2.4	2.9	4.2	1.5
Wages (million dollars)	70.9	16.5	14.7	20.0	59.7	28.4
Value added by manufacture (million dollars)	401.7	49.3	73.2	85.5	315.4	97.3
Cost of materials (million dollars)	453.8	64.3	26.5	46.5	135.7	105.0
Value of shipments (million dollars)	900.8	113.6	144.9	132.6	448.4	202.7
New capital expenditures (million dollars)	43.3	0.3	29.7	1.5	6.4	(D)
End-of-year inventories (million dollars)	71.6	51.8	78.1	25.3	38.5	23.3

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1996 Annual Survey of Manufactures, Geographic Area Statistics*, M96 (AS)-3, April 1998, table 2.

Table 22.04-- MANUFACTURES, BY SELECTED INDUSTRY GROUPS: 1996

[Includes operating manufacturing establishments and auxiliaries]

Subject	Food and kindred products (SIC 20)			Apparel, other textile products (SIC 23)	Printing and publishing (SIC 27)	Stone, clay, and glass products (SIC 32)
	Total	Preserved fruits and vegetables (SIC 203)	Sugar, confectionery products (SIC 206)			
All employees:						
Number (1,000)	5.5	1.0	1.6	2.4	3.8	1.1
Payroll (million dollars)	140.9	21.8	30.1	34.8	134.2	42.3
Production workers:						
Number (1,000)	3.3	0.9	1.1	1.7	2.2	0.7
Hours (million)	6.4	1.5	2.0	3.1	4.4	1.4
Wages (million dollars)	69.7	17.7	14.6	21.4	70.9	26.7
Value added by manufacture (million dollars)	533.3	49.9	(S)	85.4	329.2	97.5
Cost of materials (million dollars)	101.1	69.5	(S)	45.5	147.1	103.4
Value of shipments (million dollars)	632.3	119.3	(S)	131.0	469.6	204.2
New capital expenditures (million dollars)	21.1	1.5	8.6	1.3	9.7	(D)
End-of-year inventories (million dollars)	(S)	44.2	(S)	23.1	71.6	17.3

S Withheld because estimate did not meet publication standards.

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1996 Annual Survey of Manufactures, Geographic Area Statistics*, M96 (AS)-3, April 1998, table 2.

**Table 22.05-- OPERATING MANUFACTURING ESTABLISHMENTS
AND AUXILIARIES: 1977 TO 1992**

[Auxiliaries are establishments whose employees are primarily engaged in supporting services for other establishments of the same company, rather than for the general public or for other business firms]

Subject	1977	1982	1987	1992 1/
Employees (1,000)	25.0	23.6	22.2	20.6
Operating manufacturing establishments	23.6	22.9	21.7	20.0
Auxiliaries	1.4	0.7	0.5	0.6
Payroll (million dollars)	276.8	360.4	440.2	547.4
Operating manufacturing establishments	254.1	341.7	421.8	523.4
Auxiliaries	22.9	18.7	18.3	24.0

1/ In 1992, 21 of the 1,020 manufacturing establishments were auxiliaries.

Source: U.S. Bureau of the Census, *1992 Census of Manufactures, Geographic Area Series, Hawaii*, MC92-A-12 (August 1995), tables 1 and 5.

Table 22.06-- MANUFACTURING SALES RECEIPTS: 1992 TO 1995

[Millions of dollars]

Category	1992	1993	1994	1995
Total manufacturing	2,263.0	2,106.6	2,026.1	(NA)
Sugar processing	280.5	292.9	290.2	(NA)
Pineapple canning	141.8	86.6	81.1	72.5
Petroleum	1,144.4	1,007.3	1,044.8	1,114.0
Diversified manufacturing	696.4	719.7	610.0	632.0

NA Not available.

Source: Bank of Hawaii, *Hawaii 1997* (1997), p. 39.

REVISED 9/16/98

**Table 22.07-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:
1987 TO 1997**

[In thousands of dollars. Data exclude sugar processing, pineapple canning, and petroleum refining, and are on a cash basis accounting. Manufactured goods shipped out of State were exempted from the general excise tax by Act 239, SLH 1987, effective January 1, 1988]

Year reported 1/	Tax base	Year reported 1/	Tax base	Year reported 1/	Tax base
1987	595,140	1991	714,407	1995	614,771
1988	629,303	1992	714,470	1996	622,889
1989	630,997	1993	717,423	1997 2/	581,259
1990	728,387	1994	618,238		

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/ Revised.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

**Table 22.08-- INDUSTRIAL AND TECHNOLOGY PARKS AND AREAS,
BY ISLANDS: 1990**

[Includes existing industrial areas, industrial parks and subdivisions, and technology parks and centers]

Subject	State total	Hawaii	Maui	Oahu	Kauai
Number of parks and areas	40	10	5	22	3
Acres	7,591	2,066	626	4,847	52

Source: Hawaii State Department of Business, Economic Development & Tourism, *State of Hawaii Directory of Industrial and Technology Parks 1991* (1990).

**Table 22.09-- PINEAPPLE COMPANIES AND CANNERIES AND
SUGAR COMPANIES AND MILLS: 1940 TO 1997**

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies	Canneries	Companies 1/	Mills
1940	8	8	38	34
1945	7	7	36	32
1950	9	8	28	26
1955	10	8	28	26
1960	8	9	27	27
1965	6	6	25	27
1970	4	4	23	26
1975	3	3	16	17
1980	3	3	15	14
1985	3	2	14	12
1990	4	2	12	12
1993	3	1	11	12
1994	3	1	9	10
1995	3	1	8	10
1996	3	1	4	6
1997	3	1	4	6
ISLANDS: 1995				
Hawaii	-	-	1	1
Maui	1	1	2	3
Oahu	2	-	2	2
Kauai	-	-	3	4
ISLANDS: 1996				
Hawaii	-	-	0	0
Maui	1	1	2	3
Oahu	2	-	0	0
Kauai	-	-	2	3
ISLANDS: 1997				
Hawaii	-	-	-	-
Maui	1	1	2	3
Oahu	2	-	-	-
Kauai	-	-	2	3

1/ In operation; excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; *Hawaiian Sugar Manual (annual)*; Dole Food Company, records; Hawaii Agriculture Research Center, records.

Table 22.10-- SUGAR AND MOLASSES PRODUCTION: 1987 TO 1997

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area 1/		96° raw value	Equivalent refined	
1987	180,966	79,498	8,012,899	979,209	915,169	283,250
1988	177,693	78,861	7,602,414	928,195	867,491	274,375
1989	170,813	74,660	7,078,479	863,614	807,134	229,377
1990	161,991	71,998	6,540,925	819,631	766,027	220,859
1991	155,609	67,716	5,852,668	724,100	676,744	202,214
1992	145,790	62,123	5,432,286	652,304	609,643	203,739
1993	121,322	64,705	5,506,072	677,405	633,103	211,658
1994	98,413	64,951	5,268,859	658,538	615,470	200,835
1995	81,957	48,507	3,952,347	492,346	460,147	163,305
1996	68,816	36,769	3,542,460	437,262	408,665	145,369
1997	67,820	32,033	2,923,594	356,917	333,575	131,173

1/ The average growth of a crop is 22 to 26 months. Only a portion of the total acreage in cane is harvested each year.

Source: Hawaiian Sugar Planters' Association, *Hawaiian Sugar Manual 1995*, pp. 6-7, and records; Hawaii Agriculture Research Center, *Annual Report 1996*, pp. 28-29, and records.

**Table 22.11-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY
EMPLOYMENT AND EARNINGS: 1976 TO 1997**

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days	Cash wages	Employee benefits
1976	13.31	7,500	1,854,272	43.12	17.28
1977	11.11	7,200	1,660,298	43.92	19.97
1978	13.74	7,200	1,771,530	47.06	21.28
1979	15.20	7,065	1,762,838	50.49	22.21
1980	30.18	7,076	1,793,237	56.72	24.68
1981	19.74	7,282	1,806,020	61.51	27.71
1982	19.94	6,816	1,519,732	65.11	30.83
1983	22.04	6,543	1,565,928	66.80	32.00
1984	21.74	6,319	1,467,127	68.88	34.71
1985	20.39	5,751	1,323,525	68.72	35.99
1986	20.90	5,413	1,290,067	69.28	34.24
1987	21.83	5,222	1,261,209	71.36	41.83
1988	22.12	5,110	1,204,708	72.46	34.56
1989	22.76	4,721	1,129,526	74.64	41.92
1990	23.26	4,453	1,065,794	76.42	43.07
1991	21.57	4,263	1,024,534	80.26	44.02
1992	21.30	4,101	1,003,876	84.11	46.00
1993 4/	21.62	(NA)	(NA)	(NA)	(NA)
1994	22.03	(NA)	(NA)	(NA)	(NA)
1995	23.03	(NA)	(NA)	(NA)	(NA)
1996	22.36	(NA)	(NA)	(NA)	(NA)
1997	21.94	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices. New York spot price "nearby futures" was used beginning June 1985.

2/ For non-supervisory employees.

3/ Adults only.

4/ HSPA employee data no longer compiled after 1992.

Source: Hawaiian Sugar Planters' Association, *Hawaiian Sugar Manual* (annual), as revised and corrected; Hawaii Agriculture Research Center, records.

**Table 22.12-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION:
1980 TO 1996**

[In millions of dollars. Calendar year data unless otherwise specified]

Year	Pineapple		Sugar	
	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses
1980	192.2	34.3	566.4	27.7
1981	172.0	45.6	314.2	13.7
1982	156.1	49.9	343.9	7.6
1983	171.6	47.4	396.5	13.7
1984	202.0	47.6	382.9	10.1
1985	171.7	50.8	331.9	8.9
1986	184.9	53.5	348.4	13.5
1987	202.9	48.5	325.0	10.9
1988	191.7	55.3	312.9	11.1
1989	182.7	59.2	313.6	8.4
1990	161.6	54.3	319.0	9.9
1991	172.7	51.9	261.0	9.7
1992	141.8	55.9	229.2	8.4
1993	86.6	54.0	242.9	9.0
1994	81.1	53.0	239.2	8.7
1995	72.5	62.5	190.5	9.7
1996	78.2	68.8	160.8	8.0

1/ Processor value of canned fruit and juice production and by-products shipped out-of-State and sold within State.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records;
<http://www.nass.usda.gov/hi/stats/stat-19.htm>

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services, including the motion picture industry. Related data are included in Sections 7, 12, 14 and 15.

The major sources of these data are the United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently published for 1992. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors & Convention Bureau and the firm of Pannell Kerr Forster (PKF-Hawaii). The Film Industry Branch of the Hawaii State Department of Business, Economic Development & Tourism compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in *Historical Statistics of Hawaii*, Section 20. The *Statistical Abstract of the United States: 1997*, Section 27, presents similar data for other states and the nation as a whole.

**Table 23.01-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE
ACTIVITIES: 1987 TO 1997**

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

Year reported 1/	Retailing	Services 2/	Amusement, etc. 3/	Intermediary services	Wholesaling
1987	9,449,673	2,896,159	157,824	148,557	5,188,215
1988	10,385,974	3,287,715	165,729	182,138	5,683,815
1989	11,607,779	3,699,003	184,154	189,018	6,595,569
1990	12,827,883	4,276,876	201,003	349,111	7,494,330
1991	13,398,382	4,888,164	209,128	451,078	7,722,752
1992	13,846,332	5,032,682	229,091	247,850	7,498,621
1993	13,976,048	5,092,654	226,443	218,173	7,646,215
1994	14,569,798	5,270,844	238,195	265,755	7,622,366
1995	15,050,113	5,351,079	233,843	264,193	7,808,103
1996	16,091,429	5,618,027	246,232	292,250	8,153,155
1997	15,713,571	5,343,706	226,080	279,242	7,946,650

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Theater, amusement, broadcasting, etc.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

**Table 23.02-- RETAIL ESTABLISHMENTS, BY PAYROLL STATUS:
1972 TO 1992**

[Coverage differed somewhat from census to census]

Year	Number of establishments			Sales (million dollars)		
	Total	With payroll	Without payroll	Total	With payroll	Without payroll
1972	6,392	4,491	1,901	1,865	1,820	45
1977	7,388	5,273	2,115	3,294	3,223	71
1982	8,917	6,139	2,778	5,193	5,102	92
1987	11,143	7,195	3,948	8,267	8,084	183
1992	13,185	7,807	5,378	11,510	11,250	260

Source: U.S. Bureau of the Census, *1972 Census of Retail Trade, Hawaii*, RC72-A-12 (July 1974), table 1; *1977 Census of Retail Trade, Hawaii*, RC77-A-12 (June 1979), table 1; *1982 Census of Retail Trade, Hawaii*, RC82-A-12 (September 1984), table 1; *1987 Census of Retail Trade, Hawaii*, RC87-A-12 (May 1989), table 1, and *Nonemployer Statistics Series, West*, RC87-N-4 (February 1990), table 2; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 1, and *Nonemployer Statistics Series, Summary*, RC92-N-1 (February 1995), table 3.

**Table 23.03-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS WITH
PAYROLL, FOR THE STATE, 1987 AND 1992, AND OAHU AND THE
NEIGHBOR ISLANDS, 1992**

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

Subject	1987	1992		
		State total	Oahu	Neighbor islands
Number of establishments	7,195	7,807	5,181	2,626
Sales (\$1,000)	8,084,416	11,250,217	8,341,630	2,908,587
Annual payroll (\$1,000)	1,016,127	1,481,034	1,078,685	402,349
First quarter payroll (\$1,000)	242,236	361,560	261,844	99,716
Paid employees for pay period including March 12	101,969	110,411	79,307	31,104

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), tables 1, 3, 7, and 8.

Table 23.04-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND URBAN PLACES: 1992

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12
State total	7,807	11,250,217	1,481,034	110,411
Hawaii County	1,012	1,057,639	140,267	11,313
Captain Cook	8	15,295	1,320	89
Hilo	397	506,527	67,047	5,385
Holualoa	2	(D)	(D)	(D)
Kailua	294	270,607	36,646	3,046
Kalaoa	1	(D)	(D)	(D)
Mountain View	-	-	-	-
Waimea	4	4,791	714	32
Balance of county	306	(D)	(D)	(D)
Honolulu County	5,181	8,341,630	1,078,685	79,307
Ahuimanu	1	(D)	(D)	(D)
Aiea	326	473,230	58,727	4,886
Ewa Beach	24	31,196	3,985	353
Ewa Villages	-	-	-	-
Halawa	-	-	-	-
Hauula	12	13,348	1,529	112
Heeia	1	(D)	(D)	(D)
Hickam Housing	-	-	-	-
Honolulu	3,693	5,983,036	771,703	54,834
Kahaluu	2	(D)	(D)	(D)
Kailua	189	244,104	36,112	2,922
Kaneohe	223	361,995	47,626	3,766
Kaneohe Station	1	(D)	(D)	(D)
Laie	11	7,233	1,280	149
Mali	2	(D)	(D)	(D)
Makaha	1	(D)	(D)	(D)
Makakilo City	3	(D)	(D)	(D)
Maunawili	-	-	-	-
Mililani Town	68	104,623	12,905	1,041
Nanakuli	6	5,996	676	63
Pearl City	85	144,243	18,317	1,475
Pupukea	-	-	-	-

Continued on next page.

Table 23.04-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND URBAN PLACES: 1992 -- Con.

Geographic area	Number of establishments	Sales (\$1,000)	Annual payroll (\$1,000)	Paid employees for pay period including March 12
Honolulu County - Con.				
Schofield Barracks	3	611	136	7
Wahiawa	104	101,996	15,767	1,317
Waialua	12	5,646	954	86
Waianae	61	99,405	12,072	1,038
Waimalu	14	216,400	25,484	1,697
Waimanalo	16	15,635	2,389	160
Waimanalo Beach	6	7,490	808	58
Waipahu	178	349,473	41,117	2,761
Waipio	1	(D)	(D)	(D)
Whitmore Village	-	-	-	-
Balance of county	138	130,468	22,756	2,357
Kauai County	517	526,176	73,463	6,287
Hanamaulu	4	3,384	601	64
Kalaheo	9	4,824	793	74
Kapaa	133	130,712	17,534	1,414
Kekaha	4	1,527	152	17
Lihue	178	224,265	30,789	2,298
Wailua Homesteads	-	-	-	-
Balance of county	189	161,464	23,594	2,420
Maui County	1,097	1,324,772	188,619	13,504
Haiku-Pauwela	4	(D)	(D)	(D)
Island of Lanai	6	5,700	747	78
Island of Molokai	18	14,423	1,846	131
Kahului	223	478,844	56,254	3,635
Kaunakakai	8	14,730	1,365	90
Kihei	138	132,562	20,857	1,668
Lahaina	375	348,499	60,230	4,435
Makawao	19	10,383	1,970	154
Napili-Honokowai	6	3,001	693	51
Pukalani	21	41,106	5,005	425
Wailea-Makena	8	6,661	1,489	114
Wailuku	131	141,355	17,512	1,170
Balance of county	140	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1990), table 4.

Table 23.05-- RETAIL ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS: 1987 AND 1992

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

SIC code	Kind of business	Number of establishments		Sales		
		1987	1992	1987 (\$1,000)	1992 (\$1,000)	Percent change
	Retail trade	7,195	7,807	8,084,416	11,250,217	39.2
52	Building materials and garden supplies	149	157	230,051	327,967	42.6
53	General merchandise	151	147	1,253,965	1,868,516	49.0
54	Food stores	921	870	1,571,829	2,078,986	32.3
55 ex. 554	Automotive dealers	281	286	1,221,516	1,489,925	22.0
554	Gasoline service stations	355	326	427,232	550,193	28.8
56	Apparel and accessory stores	963	1,093	578,467	966,813	67.1
57	Furniture and home-furnishings stores	402	466	280,781	459,651	63.7
58	Eating and drinking places	2,209	2,576	1,350,648	1,841,416	36.3
591	Drug and proprietary stores	112	131	441,584	648,949	47.0
59 ex. 591	Miscellaneous retail stores	1,682	1,755	728,343	1,017,801	39.7

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 3.

**Table 23.06-- PRIVATE INDUSTRY RETAIL EMPLOYMENT AND WAGES,
ANNUAL AVERAGES: 1996**

SIC code	Retail trade	No. of establishments	Average employment	Total wages (\$1,000)	Average wage
	Total	7,288	113,743	1,916,505	16,849
5251	Hardware stores	56	1,016	22,529	22,166
5261	Retail nurseries and garden stores	18	129	2,191	16,951
5311	Department stores	53	10,985	182,772	16,638
5399	Misc. general merchandise stores	72	651	9,696	14,894
5411	Grocery stores	378	11,463	218,558	19,066
5421	Meat and fish markets	52	318	5,377	16,922
5441	Candy, nut, and confectionery stores	47	367	3,487	9,494
5461	Retail bakeries	119	1,218	16,441	13,496
5499	Misc. food stores	89	766	10,168	13,266
5511	New and used car dealers	77	3,665	134,366	36,662
5521	Used car dealers	21	136	4,336	31,943
5531	Auto and home supply stores	170	1,543	36,126	23,415
5541	Gasoline service stations	287	3,364	52,105	15,491
5571	Motorcycle dealers	17	161	3,861	23,954
5611	Men's and boys' clothing stores	62	932	13,114	14,078
5621	Women's clothing stores	238	2,158	35,513	16,458
5632	Women's accessory and specialty stores	97	906	21,298	23,501
5641	Children's and infants' wear stores	24	189	1,905	10,082
5651	Family clothing stores	147	2,330	36,524	15,673
5661	Shoe stores	110	1,370	26,772	19,547
5699	Misc. apparel and accessory stores	176	1,350	22,375	16,576
5712	Furniture stores	92	683	19,450	28,460
5713	Floor covering stores	29	261	6,821	26,159
5714	Drapery and upholstery stores	12	32	690	21,573
5719	Misc. homefurnishing stores	51	366	5,626	15,360
5722	Household appliance stores	61	264	6,019	22,806
5731	Radio, TV, and electronic stores	91	621	12,512	20,145
5734	Computer and software stores	58	512	12,218	23,844
5735	Record and prerecorded tape stores	33	497	6,118	12,321
5736	Musical instrument stores	14	113	2,273	20,097
581	Eating and drinking places	2,569	47,040	607,408	12,913
5912	Drug stores and proprietary stores	159	3,485	93,633	26,869
5932	Used merchandise stores	52	223	3,439	15,394
5941	Sporting goods and bicycle shops	163	1,322	20,778	15,721
5942	Book stores	60	644	9,114	14,155
5943	Stationery stores	22	289	6,434	22,296
5944	Jewelry stores	358	2,121	51,549	24,299

Continued on next page.

**Table 23.06-- PRIVATE INDUSTRY RETAIL EMPLOYMENT AND WAGES,
ANNUAL AVERAGES: 1996 - Con.**

SIC code	Retail trade	No. of establishments	Average employment	Total wages (\$1,000)	Average wage
5945	Hobby, toy, and game shops	38	389	4,045	10,406
5946	Camera and photographic supply stores	10	51	821	16,074
5947	Gift, novelty, and souvenir shops	316	3,681	72,820	19,782
5948	Luggage and leather goods stores	29	443	12,881	29,065
5949	Sewing, needlework, and piece goods	27	214	2,795	13,082
5963	Direct selling establishments	43	188	4,735	25,188
5992	Florists	132	663	8,540	12,888
5995	Optical goods stores	41	260	5,364	20,616
5999	Misc. retail stores, not elsewhere classified	313	1,781	34,949	19,621

Source: U.S. Department of Labor, *Employment and Wages Annual Averages, 1996*.

Table 23.07-- RETAIL SALES, BY TYPE OF STORE: 1994 AND 1995

[In millions of dollars]

Kind of store	1994	1995
All stores 1/	12,685	2/ 12,806
Food stores	2,272	2,209
Grocery stores	2,114	2,052
General merchandise stores	2,142	2,115
Department stores	862	888
Automotive dealers	1,934	1,951
Eating and drinking places	1,817	1,951
Gasoline service stations	629	652
Building materials and garden supplies	387	429
Apparel and accessories stores	1,023	979
Furniture, home furnishings, appliance stores	642	601

1/ Includes other types of stores, not shown separately.

2/ Sales per household were \$32,911, highest of the 50 States. The U.S. ratio was \$24,120.

Source: Market Statistics estimates cited in *Statistical Abstract of the United States: 1997*, pp. 774-775.

Table 23.08-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1996

[Includes all centers on Oahu with more than 250,000 square feet of gross leaseable area and all centers on other islands with more than 150,000 square feet]

Island and name of center	Location	Year opened	Site area (acres)	Gross leaseable area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center	Honolulu	1959	50	1,500	7,800	200
Kahala Mall	Honolulu	1970	20	407	1,800	86
Koko Marina S.C.	Honolulu	1963	15	281	855	64
Mililani Town Center	Mililani	1988	45	434	1,675	85
Moanalua S.C.	Honolulu	1952	15	250	500	50+
Pearl City S.C.	Pearl City	1967	14	252	830	34
Pearl Highlands Center	Pearl City	1993	13	411	1,847	17
Pearlridge Center	Aiea	1972	56	1,400	6,600	170
Royal Hawaiian S.C.	Honolulu	1980	7	280	614	150
Waialele Center	Waipahu	1993	60	728	3,400	80
Windward Mall S.C.	Kaneohe	1982	30	530	2,300	105
Hawaii:						
Kaiko'o Mall S.C.	Hilo	1970	15	220	950	33
Keauhou Shopping Center	Kailua	1984	22	170	876	50+
Pines Plaza	Kailua	1992	1	161	64	(NA)
Prince Kuhio Plaza	Hilo	1985	46	419	2,798	78
Waiakea Center	Hilo	1996	18	245	1,138	20+
Maui:						
Kaahumanu Center	Kahului	1972	32	573	2,864	102
Lahaina Market Place	Lahaina	1969	2	208	16	17
Maui Mall	Kahului	1972	27	191	1,272	49
Kauai:						
Kukui Grove Center	Lihue	1982	49	454	2,574	61

NA Not available.

Source: International Council of Shopping Centers, *Hawaii Shopping Center Directory 1995*, with (9/3/96) revisions.

Table 23.09-- SHOPPING CENTER CHARACTERISTICS: 1992 TO 1996

Characteristic	1992	1993	1994	1995	1996
Number	153	160	165	(NA)	175
Gross leasable area (mil. sq. ft.)	15	16	17	(NA)	18
Retail sales (bil. dol.)	2.7	2.9	3.1	(NA)	3.6

NA Not available

Source: *Statistical Abstract of the United States: 1997* (p. 776) and earlier editions.

Table 23.10-- CHARACTERISTICS OF EATING AND DRINKING PLACES: 1992

Subject	Restaurants	Cafeterias	Refresh. places	Drinking places
Establishments in business at end of year	971	21	851	255
Sales, calendar year (million dollars)	893.2	15.3	652.6	95.9
Seats, Dec. 31	105,778	1,967	43,838	13,641
Average cost per meal (establishments):				
Less than \$5.00	167	8	500	...
\$30.00 or more	52	-	-	...
Menu type or specialty (establishments):				
Italian	39	-	2	...
Mexican	72	-	32	...
Chinese	239	6	29	...
Other ethnic	343	-	210	...
Seafood	65	-	4	...
Steak	34	-	-	...
Pizza	57	-	100	...
Chicken	5	-	35	...
Hamburger	15	-	144	...
Sub shop	1	-	33	...
American	23	-	35	...
Other	223	15	329	...

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Miscellaneous Subjects*, RC92-S-4 (October 1995), pp. 45, 78-79, 148-150.

Table 23.11-- DUTY-FREE STORE REVENUES: 1984 TO 1996

[In dollars. These sales revenues are not included in the general excise and use tax base data cited elsewhere in this volume]

Year	Revenues	Year	Revenues
1984	170,661,949	1991	378,587,469
1985	180,126,919	1992	421,953,644
1986	270,891,959	1993	397,322,968
1987	369,788,429	1994	413,417,555
1988	445,072,755	1995	420,000,000
1989	451,185,041	1996	426,000,000
1990	413,932,037		

Source: DFS Hawaii, records and for 1995-96 data *Honolulu Star Bulletin*, November 1, 1996.

Table 23.12-- ALCOHOLIC BEVERAGE SALES, BY TYPE: 1995 TO 1997

Category	Wine gallons of 128 fluid ounces			Wholesale value, 1997 (dollars)
	1995	1996	1997	
All types	33,824,629	34,163,622	33,647,703	290,343,657
Distilled spirits	1,316,047	1,349,271	1,309,812	46,891,939
Sparkling wine	234,010	230,210	224,652	10,225,927
Still wine	2,289,270	2,459,449	2,519,923	61,418,674
Cooler beverage	251,197	250,604	244,010	2,015,107
Draft beer	1,569,410	1,639,078	1,565,822	6,141,472
Beer other than draft	28,164,695	28,235,010	27,783,484	163,650,538

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

**Table 23.13-- MERCHANDISE LINE SALES FOR RETAIL STORES
WITH PAYROLL: 1992**

Merchandise line code	Kind of business and merchandise line	Number of establishments	Sales of specified merchandise line		
			Amount (\$1,000)	As percent of total sales of --	
				Establishments handling line	All establishments
	Retail trade	7,807	11,250,217	(X)	100.0
100	Groceries and other food items	1,604	1,769,219	40.4	15.7
120	Meals and snacks	2,949	1,651,956	38.1	14.7
130	Alcoholic drinks	1,315	238,291	24.1	2.1
140	Packaged alcoholic beverages	836	242,439	7.9	2.2
150	Cigars, cigarettes, and tobacco	1,121	144,649	3.5	1.3
160	Drugs, health aids, and beauty aids	916	697,542	15.3	6.2
180	Soaps, detergents, and household cleaners	534	79,199	2.4	0.7
190	Paper and related products	502	59,266	2.0	0.5
200	Men's wear	1,013	353,900	17.1	3.2
220	Women's, juniors', and misses' wear	1,279	670,350	22.9	6.0
240	Children's wear	605	97,474	3.7	0.9
260	Footwear	707	188,674	8.5	1.7
270	Sewing, knitting, and needlework goods	136	27,953	3.2	0.3
280	Curtains, draperies, and dry goods	208	58,992	3.2	0.5
300	Major household appliances	171	95,421	6.8	0.9
310	Small electric appliances	268	50,823	1.6	0.5
320	Televisions, video equipment, videotapes	205	99,642	5.3	0.9
330	Audio equipment, musical instruments and supplies	391	148,984	7.7	1.3
340	Furniture and sleep equipment	243	160,795	8.6	1.4
360	Floor coverings	130	55,160	3.4	0.5
370	Computer hardware, software, and supplies	120	63,612	3.2	0.6
380	Kitchenware and homefurnishings	767	163,099	3.3	1.5
400	Jewelry	1,104	458,618	13.8	4.1
420	Books	389	73,415	3.4	0.7
440	Photographic equipment and supplies	238	47,316	1.9	0.4
460	Toys, hobby goods, and games	529	80,045	2.7	0.7

Continued on next page.

**Table 23.13-- MERCHANDISE LINE SALES FOR RETAIL STORES
WITH PAYROLL: 1992 -- Con.**

Merchandise line code	Kind of business and merchandise line	Number of establishments	Sales of specified merchandise line		
			Amount (\$1,000)	As percent of total sales of --	
				Establishments handling line	All establishments
490	Optical goods	189	37,402	3.5	0.3
500	Sporting goods	441	150,661	5.8	1.3
600	Hardware, tools, and plumbing and electrical supplies	290	140,736	5.4	1.3
620	Lawn and garden equipment	379	116,711	3.0	1.0
640	Lumber, millwork, building materials	180	144,054	7.5	1.3
670	Paint and related preservatives and supplies	133	65,021	4.3	0.6
700	Cars, vans, trucks, and other powered vehicles	126	1,143,755	84.5	10.2
720	Automotive fuels	500	467,464	33.5	4.2
730	Automotive lubricants	428	16,410	0.6	0.2
740	Automotive tires, batteries, accessories	495	230,257	5.8	2.1
780	Household fuels	33	10,426	0.7	0.1
800	Pets, pet foods, and pet supplies	253	35,698	2.3	0.3
850	All other merchandise	1,458	494,942	10.1	4.4
890	Unclassified merchandise	818	104,109	3.7	0.9
900	Nonmerchandise receipts	1,300	314,843	5.9	2.8
990	Miscellaneous merchandise	(X)	894	(X)	(Z)

X Not applicable.

Z Less than 0.05 percent.

Source: U.S. Bureau of the Census, 1992 Economic Census Report Series Disc 1G; extracted by Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center.

**Table 23.14-- WHOLESALE TRADE ESTABLISHMENTS AND SALES:
1939 TO 1992**

[Based on then-current definition]

Year	Number of establishments	Sales (\$1,000)	Year	Number of establishments	Sales (\$1,000)
1939	704	97,045	1972	1,336	1,538,429
1948	702	480,734	1977	1,569	2,571,489
1954	594	581,940	1982	1,737	4,084,369
1958	793	618,155	1987	1,998	5,362,490
1963	974	735,205	1992	2,202	8,001,621
1967	1,030	1,013,813			

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (1977), table 20.7; U.S. Bureau of the Census, *1977 Census of Wholesale Trade*, WC77-A-12 (Rev.), *1982 Census of Wholesale Trade*, WC82-A-12, *1987 Census of Wholesale Trade*, WC87-A-12, and *1992 Census of Wholesale Trade*, WC92-A-12.

**Table 23.15-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS,
FOR THE STATE, 1987 AND 1992, AND OAHU AND THE NEIGHBOR
ISLANDS, 1992**

Subject	1987	1992		
		State total	Oahu	Neighbor Islands
Number of establishments	1,998	2,202	1,690	512
Sales (\$1,000)	5,362,490	8,001,621	6,757,480	1,244,141
Annual payroll (\$1,000)	415,114	624,541	520,472	104,069
First quarter payroll (\$1,000)	100,963	150,772	(NA)	(NA)
Paid employees for pay period including March 12 (number)	20,157	23,308	18,847	4,461
Operating expenses (\$1,000)	883,223	1,332,892	(NA)	(NA)
Inventories (\$1,000):				
Beginning of year	472,167	794,259	(NA)	(NA)
End of year	579,212	787,828	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *1987 Census of Wholesale Trade, Hawaii*, WC87-A-12 (April 1989), table 1; *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), tables 1, 3, 7, and 8.

Table 23.16-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1992

Type of operation and kind of business	Number of establishments	Sales (\$1,000)
Wholesale trade	2,202	8,001,621
Type of operation:		
Merchant wholesalers	1,885	5,334,775
Manufacturers' sales branches and sales offices	141	1,849,467
Agents, brokers, and commission merchants	176	817,379
Kind of business:		
Motor vehicles and motor vehicle parts and supplies	121	354,209
Furniture and homefurnishings	80	166,265
Lumber and other construction materials	181	465,861
Professional and commercial equipment and supplies	123	457,866
Metals and minerals, except petroleum	23	81,988
Electrical goods	130	553,741
Hardware, and plumbing and heating equipment and supplies	107	241,480
Machinery, equipment, and supplies	153	343,191
Miscellaneous durable goods	213	396,691
Paper and paper products	100	350,724
Drugs, drug proprietaries, and druggists' sundries	50	349,716
Apparel, piece goods, and notions	125	196,947
Groceries and related products	404	2,046,337
Farm-product raw materials	13	18,102
Chemicals and allied products	44	164,997
Petroleum and petroleum products	56	1,023,655
Beer, wine, and distilled alcoholic beverages	37	348,616
Miscellaneous nondurable goods	242	441,235

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 1.

Table 23.17-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1992

Geographic area	All wholesalers		Merchant wholesalers	
	Number of establishments	Sales (\$1,000)	Number of establishments	Sales (\$1,000)
State total	2,202	8,001,621	1,885	5,334,775
Hawaii County	228	537,485	204	430,234
Hilo	121	371,154	108	276,073
Kailua	60	90,299	55	80,376
Honolulu County	1,690	6,757,480	1,426	4,343,180
Aiea	101	324,272	87	251,348
Ewa Beach	36	407,662	31	353,905
Honolulu	1,303	5,276,318	1,094	3,139,135
Kailua	39	45,367	29	33,984
Kaneohe	34	53,836	30	41,846
Mililani Town	13	47,699	9	44,791
Pearl City	39	158,511	33	78,235
Waipahu	77	312,820	69	295,870
Kauai County	92	194,257	83	133,942
Lihue	49	113,237	43	(D)
Maui County	192	512,399	172	427,419
Island of Lanai	2	(D)	-	-
Island of Molokai	4	(D)	3	2,826
Kahului	70	272,494	63	227,813
Wailuku	56	131,963	52	120,157

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 4.

**Table 23.18-- SERVICE ESTABLISHMENTS, BY PAYROLL STATUS:
1972 TO 1992**

[Data not adjusted for changing coverage over time. Data exclude firms exempt from Federal income tax for all years, hospitals prior to 1987, and most other health services before 1982]

Year	Number of establishments			Receipts (million dollars)		
	Total	With payroll	Without payroll	Total	With payroll	Without payroll
1972	6,348	3,031	3,317	683	648	35
1977	8,023	3,306	4,717	1,276	1,216	60
1982	(NA)	6,124	(NA)	(NA)	2,660	(NA)
1987	30,114	7,458	22,656	4,902	4,456	446
1992	41,584	8,468	33,116	8,027	7,291	736

NA Not available.

Source: U.S. Bureau of the Census, *1972 Census of Selected Service Industries, Hawaii*, SC72-A-12 (July 1974), table 1; *1977 Census of Service Industries, Hawaii*, SC77-A-12 (December 1979), table 1; *1982 Census of Service Industries, Hawaii*, SC82-A-12 (September 1984), table 1; *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), table 1, and *Nonemployer Statistics Series, West*, SC87-N-4 (March 1990), table 2; and *1992 Census of Service Industries, Nonemployer Statistics Series, Summary* SC92-N-1 (March 1995), table 3.

**Table 23.19-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH
PAYROLL, FOR THE STATE, 1987 AND 1992, AND OAHU AND THE
NEIGHBOR ISLANDS, 1992**

Subject	1987	1992		
		State total	Oahu	Neighbor islands
FIRMS SUBJECT TO FEDERAL INCOME TAX				
Number of establishments	7,458	8,468	6,248	2,220
Receipts (\$1,000)	4,455,953	7,290,719	5,368,982	1,921,737
Annual payroll (\$1,000)	1,499,500	2,654,278	1,944,260	710,018
First quarter payroll (\$1,000)	356,723	617,437	443,438	173,999
Paid employees 1/	91,673	117,965	81,084	36,881
FIRMS EXEMPT FROM FEDERAL INCOME TAX				
Number of establishments	998	1,032	690	342
Revenue (\$1,000)	1,222,359	2,081,077	1,718,951	362,126
Expenses (\$1,000)	1,155,012	1,937,721	(NA)	(NA)
Annual payroll (\$1,000)	521,108	923,630	768,048	155,582
First quarter payroll (\$1,000)	128,303	227,965	189,433	38,532
Paid employees 1/	28,541	37,492	30,622	6,870

NA Not available.

1/ For pay period including March 12.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 1b, 3a, 3b, 7a, 7b, 8a, and 8b.

**Table 23.20-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT
TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN
PLACES: 1992**

Geographic area	Number of establishments		Receipts (\$1,000)	
	All services	Hotels 1/	All services	Hotels 1/
State total	8,468	267	7,290,719	2,248,082
Hawaii County	974	37	651,105	(D)
Hilo	430	9	204,396	(D)
Kailua	252	10	149,521	38,422
Honolulu County	6,248	135	5,368,982	(D)
Aiea	288	3	165,156	3,906
Ewa Beach	51	-	38,564	-
Honolulu	4,797	123	4,559,049	1,236,343
Kailua	259	1	98,330	(D)
Kaneohe	226	1	81,928	(D)
Mililani Town	65	-	28,210	-
Pearl City	118	-	65,224	-
Wahiawa	92	-	30,426	-
Waianae	43	1	25,687	(D)
Waipahu	165	-	67,314	-
Kauai County	366	28	352,279	191,548
Kapaa	71	8	31,911	18,636
Lihue	149	9	140,529	(D)
Maui County	880	67	918,353	(D)
Island of Lanai	2	-	(D)	-
Island of Molokai	20	3	11,803	(D)
Kahului	195	3	128,700	(D)
Kihei	121	17	149,065	112,386
Lahaina	137	20	167,454	118,132
Wailuku	254	2	131,363	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), table 4.

**Table 23.21-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT
TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION:
1987 AND 1992**

SIC code	Kind of business or operation	Number of establishments		Receipts		
		1987	1992	1987 (\$1,000)	1992 (\$1,000)	Percent change
	Total	7,458	8,468	4,455,953	7,290,719	63.6
70 ex. 704	Hotels, motels, other lodging	237	267	1,562,043	2,248,082	43.9
72	Personal services	699	746	145,045	221,769	52.9
73	Business services	1,056	1,348	456,740	768,486	68.3
75	Automotive repair, services, & parking	653	720	416,441	598,685	43.8
76	Miscellaneous repair services	255	281	72,490	124,504	71.8
78, 79	Amusement & recreation services, including motion pictures and museums	532	688	229,608	456,200	98.7
80	Health services	1,981	2,225	742,548	1,310,880	76.5
81	Legal services	721	741	315,500	481,540	52.6
823, 4, 9	Selected educational services	62	93	11,829	20,225	71.0
83	Social services	90	105	19,319	33,546	73.6
87 ex. 8733	Engineering and related services 1/	1,099	1,204	473,389	1,000,148	111.3
89	Services, n.e.c.	73	50	11,001	26,654	142.3

1/ Includes engineering, architectural, surveying, accounting, research, management, and related services (except noncommercial research organizations).

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), table 3a.

**Table 23.22-- ARRANGEMENT OF PASSENGER TRANSPORTATION
(SIC 472): 1992**

[Includes only establishments with payroll]

Kind of business	Establishments	Revenue (\$1,000)	Annual payroll (\$1,000)	Paid employees, Mar. 12
All establishments	553	362,211	123,571	5,789
Travel agencies	364	138,322	49,935	2,338
Tour operators	161	205,493	68,006	3,241
Arrangement of passenger transportation, n.e.c.	28	18,396	5,630	210

n.e.c. Not elsewhere classified.

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities*, UC92-A-1, *Summary* (March 1995), table 1.

**Table 23.23-- HOTELS, MOTELS, AND OTHER LODGING PLACES WITH
AND WITHOUT PAYROLL: 1992**

[Data apparently exclude condominium units in rental pools intended for transient use]

SIC code	Kind of business	Number of establishments		Receipts (million dollars)	
		With payroll	Without payroll	With payroll	Without payroll
70 ex. 704	Total	267	369	2,248	11
7011	Hotels and motels	256	151	2,246	5
702,3	Other lodging places	11	218	2	6
702	Rooming and boarding houses	10	213	(D)	6
703	Camps and rec. vehicle parks	1	5	(D)	(Z)

D Withheld to avoid disclosing data for individual companies.

Z Less than \$500,000.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Nonemployer Statistics Series, Summary*, SC92-N-1 (March 1995), table 3.

Table 23.24-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1992

[Includes only establishments with payroll. Apparently excludes condominium units in rental pools for transient use]

Subject	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
SUBJECT TO FEDERAL INCOME TAX				
Hotels, motels, other lodging	267	2,248,082	761,453	41,038
Hotels	226	2,233,841	758,533	40,792
25 guestrooms or more	211	2,230,571	757,604	40,727
Less than 25 guestrooms	15	3,270	929	65
Motels, motor hotels, tourist courts	30	12,017	2,373	208
Other lodging places 1/	11	2,224	547	38
EXEMPT FROM FEDERAL INCOME TAX				
Camps and membership lodging 2/	1	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Rooming and boarding houses, 10 establishments; camps and recreational vehicle parks, 1.

2/ Sporting and recreational camps, 1; organization hotels and lodging houses on membership basis, none.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a and 1b.

Table 23.25-- VISITOR ACCOMMODATIONS, BY COUNTIES: 1965 TO 1997

[Number of units]

Year	State total	Oahu	Hawaii County	Kauai County	Maui County
1965	12,903	10,031	865	776	1,231
1966	14,827	11,083	1,387	860	1,497
1967	17,217	12,598	1,790	1,115	1,714
1968	18,657	13,166	2,188	1,260	2,043
1969	22,801	15,992	2,480	1,914	2,415
1970	26,923	18,449	3,166	2,565	2,743
1971	32,289	22,531	3,435	2,628	3,695
1972	35,797	24,742	4,241	2,719	4,095
1973	36,608	25,108	4,796	2,629	4,075
1974	38,675	25,365	5,234	2,868	5,208
1975	39,632	25,352	5,348	3,102	5,830
1976	42,648	25,851	6,045	3,520	7,232
1977	44,986	27,363	5,929	3,657	8,037
1978	47,070	28,546	6,002	3,786	8,736
1979	49,832	30,065	6,093	4,202	9,472
1980	54,246	34,334	5,889	4,322	9,701
1981	56,769	33,967	6,705	4,738	11,359
1982	57,968	33,492	7,167	5,147	12,162
1983	58,765	34,354	7,469	4,193	12,749
1984	62,448	36,848	7,149	5,313	13,138
1985	65,919	38,600	7,511	5,656	14,152
1986	66,308	39,010	7,280	5,922	14,096
1987	65,318	38,185	7,328	5,956	13,849
1988	69,012	37,841	8,823	7,180	15,168
1989	67,734	36,467	8,161	7,398	15,708
1990	71,266	36,899	8,952	7,546	17,869
1991	72,275	36,623	9,383	7,567	18,702
1992	73,089	36,851	9,170	7,778	19,290
1993	69,502	36,604	9,140	4,631	19,127
1994	70,463	36,194	9,595	5,870	18,804
1995	(NA)	(NA)	(NA)	(NA)	(NA)
1996	70,288	36,146	9,558	6,760	17,824
1997	71,025	35,971	9,913	6,589	18,552

NA Not available.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory* (annual), and Hawaii Visitors & Convention Bureau, *1997 Visitor Plant Inventory*.

Table 23.26-- VISITOR ACCOMMODATIONS, BY TYPE: 1986 TO 1997

Year and month	Properties			Units		
	Total	Hotels 1/	Condo-miniums 2/	Total	Hotels 1/	Condo-miniums 2/
1986: Feb.	523	201	322	66,308	43,309	22,999
1987: Feb.	510	196	314	66,318	43,422	21,896
1988: Feb.	481	203	278	69,012	47,892	21,120
1989: Feb.	452	197	255	67,734	48,894	18,840
1990: Feb.	533	264	269	71,266	52,438	18,828
1991: Feb.	595	313	282	72,275	52,688	19,587
1992: Spring	664	374	295	73,089	51,134	21,955
1993: June	698	406	292	69,502	49,111	20,391
1994: Dec.	692	397	295	70,463	49,436	21,027
1995	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1996: May	770	472	298	70,288	49,737	20,551
1997: Spring	821	607	214	71,025	53,735	17,290

NA Not available.

1/ Hotels, apartment hotels, bed-and-breakfast, bungalows, cottages, hostels, and lodges. Properties with both condo and hotel units are included with condominiums in 1990 and later years; treatment before 1990 not specified.

2/ Condominium accommodations in rental pools for transient use. Includes condo/hotel units.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory*, 1986 to 1996, as corrected and Hawaii Visitors & Convention Bureau, 1997 *Visitor Plant Inventory*.

**Table 23.27-- VISITOR ACCOMMODATIONS, BY TYPE AND BY ISLANDS:
1996 AND 1997**

Year and island	Properties			Units		
	Total	Hotels 1/	Condo- miniums 2/	Total	Hotels 1/	Condo- miniums 2/
1996						
State total	770	472	298	70,288	49,737	20,551
Oahu	196	144	52	36,146	29,732	6,414
Waikiki 3/	119	75	44	31,388	25,613	5,775
Rest of Oahu	77	69	8	4,758	4,119	639
Other islands	574	328	246	34,142	20,005	14,137
Hawaii	165	110	55	9,558	7,170	2,388
Maui	223	91	132	16,973	8,541	8,432
Lanai	7	7	-	370	370	-
Molokai	11	6	5	481	251	230
Kauai	168	114	54	6,760	3,673	3,087
1997 4/						
State total	821	607	214	71,025	53,735	17,290
Oahu	192	160	32	35,971	32,002	3,969
Waikiki/Honolulu	116	89	27	31,301	27,885	3,416
Rest of Oahu	76	71	5	4,670	4,117	553
Other islands	629	447	182	35,054	21,733	13,321
Hawaii	165	135	30	9,913	7,922	1,991
Maui	231	123	108	17,582	9,487	8,095
Lanai	6	6	-	369	369	-
Molokai	11	6	5	601	291	310
Kauai	216	177	39	6,589	3,664	2,925

1/ Hotels, apartment hotels, bed-and-breakfast, bungalows, cottages, hostels, and lodges. Properties with both condo and hotel units are included with condominiums.

2/ Condominium accommodations in rental pools for transient use. Includes condo/hotel units.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal.

4/ Accommodation type grouped differently than in previous years.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory* (annual), and Hawaii Visitors & Convention Bureau, *1997 Visitor Plant Inventory*.

Table 23.28-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA: 1997

[Accommodation type grouped differently than in previous years]

Type of accommodation 2/	Properties			Units		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All types	821	192	629	71,025	35,971	35,054
Apartment-hotel	19	14	5	782	693	89
Bed and breakfast	131	16	115	468	43	425
Condominium	214	32	182	17,290	3,969	13,321
Hotel	161	80	81	50,122	30,583	19,539
Other 1/	296	50	246	2,363	683	1,680

1/ Hostel, lodge, etc.

Source: Hawaii Visitors & Convention Bureau, *1997 Visitor Plant Inventory*.

**Table 23.29-- HOTELS AND MOTELS (SIC 701), BY COUNTIES:
1990 TO 1995**

County	1990	1991	1992	1993	1994	1995
State total	233	260	264	266	271	268
Hawaii	35	36	37	37	37	36
Honolulu	124	138	131	134	134	136
Kauai	24	33	30	29	34	31
Maui	50	53	66	66	66	65

NA Not available.

Source: U.S. Bureau of the Census, *County Business Patterns, Hawaii* (annual report), 1993 CD-ROM, and unpublished 1994 data.

Table 23.30-- VISITOR ACCOMMODATIONS, BY NIGHTLY PRICE: 1997

[Accommodation type grouped differently than in previous years]

Island and type of accommodation 1/	All levels	\$100 or less	\$101 to \$250	\$251 to \$500	Over \$500
Number reporting	69,798	18,759	31,195	18,116	1,728
Island:					
Oahu	35,401	10,662	17,916	6,334	489
Hawaii	9,735	2,581	3,883	2,854	417
Kauai	6,469	1,437	3,033	1,824	175
Maui	17,408	3,884	6,106	6,810	608
Molokai	420	184	232	4	-
Lanai	365	11	25	290	39
Type of accommodation:					
Apartment, apartment-hotel	763	690	73	-	-
Bed and breakfast	382	280	100	2	-
Condominium	16,640	5,576	9,016	1,987	61
Hostel	254	254	-	-	-
Hotel	50,071	10,925	21,426	16,066	1,654
Individual vacation unit	1,006	664	314	18	10
Other	682	370	266	43	3

Source: Hawaii Visitors & Convention Bureau, *1997 Visitor Plant Inventory* .

**Table 23.31-- HOTEL ROOMS, OCCUPANCY RATES, AND DAILY ROOM
AND GUEST RATES: 1987 TO 1997**

[Includes condominium units in rental pools for transient occupancy]

Year	Hotel units 1/			Percent occupied 2/	Daily rates per room 2/ (dollars)	Guests per room 2/
	State total	Oahu	Other islands			
1987	65,318	38,185	27,133	81.1	80.09	1.99
1988	69,012	37,841	31,171	78.5	87.94	1.99
1989	68,034	36,467	31,567	79.0	95.83	2.00
1990	71,566	36,899	34,667	78.8	102.10	2.01
1991	72,575	36,623	35,952	72.4	101.89	2.01
1992	73,779	37,279	36,500	72.6	105.59	2.02
1993	70,542	37,032	33,510	72.0	103.26	2.04
1994	70,683	36,194	34,489	76.5	105.46	2.04
1995	(NA)	(NA)	(NA)	76.6	110.27	2.05
1996	70,288	36,146	34,142	75.5	127.95	2.07
1997	71,025	35,971	35,054	74.0	135.94	2.08

NA Not available.

1/ February data through 1991; Spring 1992; June 1993; December 1994; and May 1996.

2/ Annual averages for hotels in PKF sample.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory* (annual); PKF-Hawaii, *Trends in the Hotel Industry*, Hawaii (December issues), Hawaii Visitors & Convention Bureau, *1997 Visitors Plant Inventory*, records.

**Table 23.32-- HOTEL ROOM OCCUPANCY AND ROOM RATES, BY
GEOGRAPHIC AREAS: 1996**

[Includes condominium units in rental pools for transient occupancy]

Geographic area	Percent occupied	Average daily room rate (dollars)	Average revenue per available room (dollars)
State total	75.51	127.95	96.62
Oahu	81.62	117.07	95.55
Waikiki	82.57	118.56	97.89
Other Oahu	72.70	101.30	73.64
Hawaii	62.17	127.89	79.51
Hilo	81.20	73.60	59.77
Kona	58.59	72.83	42.67
Kohala	62.92	174.50	109.80
Maui	73.19	151.02	110.54
Kaanapali	80.87	153.00	123.72
West Maui	72.05	140.65	101.33
Other	65.99	157.95	104.23
Kauai	67.53	137.04	92.55
North	67.60	171.96	116.24
Central	58.95	96.49	56.89
South	78.94	162.27	128.10
Molokai	39.12	74.21	29.03
All Neighbor Islands	(NA)	(NA)	(NA)

NA Not available.

Source: PKF-Hawaii, *Trends in the Hotel Industry, Hawaii*, December 1997.

**Table 23.33-- HOTEL ROOM OCCUPANCY AND ROOM RATES, BY
GEOGRAPHIC AREAS: 1997**

[Includes condominium units in rental pools for transient occupancy]

Geographic area	Percent occupied	Average daily room rate (dollars)	Average revenue per available room (dollars)
State total	73.99	135.94	100.59
Oahu	78.61	123.21	96.85
Waikiki	79.71	124.54	99.27
Other Oahu	68.49	108.98	74.64
Hawaii	65.43	147.28	96.37
Hilo	80.31	79.65	63.97
Kona	60.85	74.98	45.62
Kohala	67.09	199.41	133.78
Maui	71.58	156.37	111.93
Kaanapali	78.20	161.98	126.67
West Maui	70.59	140.52	99.20
Other	64.85	161.26	104.57
Kauai	68.75	148.26	101.93
North	69.99	176.51	123.54
Central	61.15	102.52	62.70
South	78.33	183.62	143.83
Molokai	40.42	74.02	29.92
All Neighbor Islands	(NA)	(NA)	(NA)

NA Not available.

Source: PKF-Hawaii, *Trends in the Hotel Industry, Hawaii*, December 1997.

**Table 23.34-- GENERAL EXCISE TAX BASE FOR RENTALS:
1987 TO 1997**

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

Year reported 1/	Total	Hotel rentals	All other rentals 2/
1987	3,443,271	1,369,401	2,073,870
1988	3,715,546	1,408,891	2,306,655
1989	4,108,740	1,505,071	2,603,669
1990	4,401,733	1,572,994	2,828,739
1991	4,825,777	1,512,990	3,312,787
1992	5,013,293	1,621,751	3,391,542
1993	5,035,581	1,527,037	3,508,544
1994	5,358,587	1,666,406	3,692,182
1995	5,552,792	1,776,527	3,776,265
1996	5,859,454	2,057,800	3,801,655
1997	5,829,772	2,040,454	3,789,318

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

**Table 23.35-- COMPUTER AND SOFTWARE STORES AND SERVICES:
1992 AND 1995**

[Includes only establishments with payroll]

Type of establishment	Number of establishments		Sales, 1992 (\$1,000)
	1992	1995	
Wholesale trade:			
Computers and computer peripheral equipment and software (SIC 5045)	49	42	177,123
Retail trade:			
Computer and software stores (SIC 5734)	29	44	43,766
Services:			
Computer programming, prepackaged software, and integrated systems (SIC 7371, 2, 3)	79	79	47,250
Data processing services (SIC 7374, 5, 6)	39	40	46,858
Computer rental and leasing, maintenance, and related services (SIC 7377, 8, 9)	47	60	18,857

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 1; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 1; *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994); *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997), table 1b.

Table 23.36-- MOTION PICTURE SERVICES: 1977 TO 1995

[Data limited to establishments with payroll. For 1963-1972 data, see *Data Book 1990*, table 699]

Subject and year	Number of establishments	Receipts (\$1,000)	Annual payroll (\$1,000)	Paid employees, week inc. March 12
Motion picture production, distribution, and services (SIC 781, 2):				
1977	11	926	174	31
1982	16	4,203	1,147	74
1987	25	10,177	2,394	136
1992	50	20,394	6,028	250
1995 1/	59	(NA)	8,154	305
Motion picture theaters (SIC 783):				
1977 2/	50	17,444	(D)	(D)
1982	36	21,329	3,195	519
1987	35	(D)	(D)	(D)
1992	34	(D)	(D)	(D)
1995 1/	41	(NA)	10,391	758
Video tape rental (SIC 784):				
1987	78	12,319	2,456	376
1992	78	26,909	5,252	545
1995 1/	79	(NA)	5,152	527

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ 1995 data from County Business Patterns, all other data from Economic Census.

2/ Data include 3 establishments without payroll.

Source: U.S. Bureau of the Census, *1977 Census of Service Industries, Hawaii*, SC77-A-12 (December 1979); *1982 Census of Service Industries, Hawaii*, SC82-A-12 (September 1984); *1982 Census of Service Industries, Motion Picture Industry*, SC82-I-4 (December 1985); *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989); *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994); *County Business Patterns 1995, Hawaii*, CBP-95-13 (October 1997).

**Table 23.37-- MOTION PICTURE AND TELEVISION PRODUCTION:
1993 TO 1997**

Subject	1993	1994	1995	1996	1997
Number of features and programs filmed 1/	20	40	17	7	12
Feature films for theater viewing	3	6	1	6	9
TV movie of the week, television episodic, specials	2	3	5	1	3
Hawaii-based TV network series	15	31	11	-	-
Expenditures in Hawaii (million dollars)	45.0	96.5	49.0	59.7	70.7
Commercials	7.3	5.9	9.7	10.4	5.5
Hawaii-based TV series	3.9	24.2	7.8	-	-
Feature films	3.6	33.4	2.7	11.7	22.6
TV specials/episodics/movie of week	2.0	6.4	1.5	3.0	4.5
Others (still photography, sports, exercise or music video, cable, misc.)	2.7	4.4	6.8	6.5	4.3
Documentaries/industrials/news/ educational/travelog/video stock	1.7	2.1	1.8	0.8	3.3
Annual permit holders	6.5	6.1	9.6	11.7	8.5
Private property projects	7.2	5.7	2.1	10.0	15.0
Sports events, annual (private)	10.1	8.3	7.0	5.6	7.0
Tax revenues generated (million dollars)	8.3	17.8	9.0	10.9	13.0
Spending effect on economy (million dollars)	91.8	196.9	100.0	121.8	144.2

1/ Each program in a series is counted separately. For 1993-94, includes Hawaii TV network affiliates' locally produced programs. Expenditures do not reflect the costs of such production. For 1995-97, includes only nationally televised series.

Source: Hawaii State Department of Business, Economic Development & Tourism, Hawaii Film Office, records.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods and services between Hawaii and the rest of the world, and investment by foreign countries.

Sources for statistics on interstate and foreign commerce, and foreign investment include the U.S. Bureaus of the Census and Economic Analysis, Foreign Trade Zone No. 9 and its subzones, the Hawaii State Department of Business, Economic Development & Tourism's Business Development and Marketing Division, the City & County of Honolulu Department of Finance, and E & Y Kenneth Leventhal & Co. Additional information is found in waterborne cargo data compiled by the U.S. Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 28 of the *Statistical Abstract of the United States: 1997*. Long-term island trends are summarized in *Historical Statistics of Hawaii*, Section 21.

Table 24.01-- INTERSTATE AND FOREIGN TRADE: 1970 TO 1997

[Merchandise imports and exports, foreign and domestic, in millions of dollars. For 1958-1969, see *Data Book 1987*, table 713]

Year	Merchandise imports					Merchandise exports, total 1/
	Total	Domestic			Foreign	
		Total	Waterborne	Air 1/		
1970	1,431.5	1,256.8	1,172.5	84.3	174.7	349.4
1971	1,258.1	1,034.6	888.7	145.9	223.6	380.8
1972	1,462.5	1,218.8	1,082.2	136.6	243.7	365.0
1973	1,892.9	1,578.0	1,460.1	117.9	314.9	493.9
1974	2,510.0	1,962.9	1,825.0	137.8	547.2	1,017.9
1975	2,843.0	2,044.8	1,872.8	172.0	798.2	844.7
1976	3,310.8	2,488.8	2,269.2	219.5	822.0	903.6
1977	3,792.1	2,885.1	2,648.3	236.8	907.1	938.4
1978	4,146.1	3,140.9	2,890.0	251.0	1,005.2	1,044.7
1979	5,001.2	3,897.0	3,636.9	260.1	1,104.3	1,182.3
1980	6,239.4	4,779.7	4,577.9	201.9	1,459.7	1,569.2
1981	6,241.3	4,716.1	4,500.2	215.9	1,525.2	1,289.2
1982	5,933.8	4,700.3	4,478.8	221.5	1,233.5	1,333.4
1983	6,461.8	5,096.3	4,856.6	239.7	1,365.5	1,440.7
1984	6,568.0	5,309.4	5,047.9	261.5	1,258.6	1,419.8
1985	6,552.3	4,796.0	4,506.9	289.1	1,756.3	1,314.3
1986	6,557.1	5,131.6	4,724.0	407.7	1,425.4	1,429.4
1987	7,469.0	5,910.4	5,465.4	445.0	1,558.6	1,452.9
1988	9,298.4	7,459.9	7,029.8	430.2	1,838.5	1,467.6
1989	10,455.0	8,484.9	8,015.3	469.6	1,970.1	1,498.5
1990	10,926.2	8,665.6	8,161.7	503.9	2,260.6	1,562.2
1991	11,329.3	8,916.1	8,359.0	557.1	2,413.2	1,588.9
1992 2/	11,556.0	(NA)	(NA)	(NA)	(NA)	1,627.0
1993	11,810.0	(NA)	(NA)	(NA)	(NA)	1,644.0
1994	12,110.0	(NA)	(NA)	(NA)	(NA)	1,611.0
1995	12,398.0	(NA)	(NA)	(NA)	(NA)	1,595.0
1996	12,460.0	(NA)	(NA)	(NA)	(NA)	1,563.0
1997	12,629.0	(NA)	(NA)	(NA)	(NA)	1,531.0

1/ Not available separately for foreign and domestic exports.

2/ Data have been revised.

Source: Hawaii State Department of Business and Economic Development, *Hawaii Gross State Product Accounts: 1958 to 1985; Summary Estimates: 1986, 1987, and 1988* (June 1989), and records.

**Table 24.02-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT:
1984 TO 1997**

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Hawaii Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

Year	General imports 1/	Imports for consumption 1/	Exports of domestic and foreign merchandise 2/	
			Total through Hawaii	Originated in Hawaii 3/
1984	1,614.2	1,397.9	316.9	...
1985	1,756.3	1,553.1	388.8	...
1986	1,556.9	1,425.4	231.1	...
1987	1,770.1	1,558.6	392.8	151.7
1988	1,839.6	1,559.1	572.6	130.7
1989	1,970.1	1,735.9	537.4	160.0
1990	2,260.6	2,100.3	512.2	178.7
1991	1,620.9	1,892.4	568.3	147.7
1992	2,395.8	2,119.8	604.2	206.2
1993	2,426.0	2,218.1	1,099.7	186.6
1994	2,802.0	2,530.8	985.4	177.6
1995	3,027.4	2,703.6	1,072.2	241.1
1996	3,087.4	2,734.8	1,293.9	(NA)
1997	3,176.8	2,695.0	1,628.0	(NA)

NA Not available.

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under \$251.

2/ Totals are on f.a.s. (free alongside ship) basis.

3/ Includes merchandise exports originated in Hawaii and exported through other customs districts.

Not available before 1987.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT990, cumulative totals in December issues, 1984-1988; *U.S. Merchandise Trade: Selected Highlights*, FT920, December 1989 to 1997; *U.S. Merchandise Trade*, FT900 Supplement, December 1989 to 1997; and records.

**Table 24.03-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT,
BY CLASSIFICATION: 1992 TO 1997**

[In millions of dollars]

Classification	1992	1993	1994	1995	1996	1997
General imports by district of entry:						
Customs value 1/	2,395.77	2,426.04	2,802.00	3,027.42	3,087.39	3,176.79
C.i.f. value 2/	2,510.07	2,536.99	2,923.06	3,152.37	3,214.31	3,326.44
General imports by district of unloading:						
Customs value 1/	2,733.60	2,826.79	3,160.26	3,373.40	3,554.76	4,063.49
C.i.f. value 2/	2,866.43	2,957.96	3,307.83	3,520.36	3,704.86	4,249.72
Imports for consumption by district of entry (customs value 1/)	2,119.77	2,218.10	2,530.83	2,703.59	2,748.34	2,694.98
Exports of domestic and foreign merchandise by district of export (f.a.s. value 3/)	604.23	1,099.70	985.42	1,072.16	1,293.90	1,627.98
Exports of merchandise by State of origin 4/						
Manufactured commodities	206.2	186.6	177.6	241.1	(NA)	(NA)
Non-manufactured commodities	150.1	143.2	125.3	181.7	(NA)	(NA)
	56.1	43.4	52.3	59.4	(NA)	(NA)

NA Not available.

1/ Prices paid by the buyer to the seller in accordance with 1979 Trade Agreement Act amendments to the 1930 Tariff Act.

2/ Cost, insurance and freight.

3/ Free alongside ship value at U.S. port of export, based on transaction price, including inland freight, insurance, and other charges; excludes cost of loading merchandise aboard exporting carrier and also excludes freight, insurance, etc. beyond U.S. port of export.

4/ Includes merchandise exports originated in Hawaii and exported through other customs districts.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Selected Highlights*, FT920, for December 1992-97, tables 1, 4, 5 and 6, and U.S. Merchandise Trade, FT900 Supplement, for December 1992-97, exhibit 2.

**Table 24.04-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT,
BY METHOD OF TRANSPORTATION: 1992 TO 1997**

[Data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

Category and year	Value (million dollars)			Shipping weight (mil. kgs.)	
	Total 1/	Vessel	Air	Vessel	Air
General imports: 2/					
1992	2,733.60	1,117.26	1,439.90	4,604.17	15.26
1993	2,826.79	1,043.06	1,706.64	4,675.51	17.52
1994	3,160.26	1,059.72	1,992.06	5,328.29	19.28
1995	3,373.40	1,032.83	2,261.32	5,565.18	17.37
1996	3,554.76	1,167.70	2,348.64	5,770.20	18.73
1997	4,063.49	1,233.18	2,810.88	6,297.15	25.59
Exports: 3/					
1992	604.23	153.67	184.64	677.98	12.54
1993	1,099.70	113.14	242.61	431.74	12.66
1994	989.42	166.59	350.03	999.25	17.52
1995	1,072.16	149.59	476.56	896.20	20.53
1996	1,293.90	165.91	452.36	816.56	21.32
1997	1,627.98	213.54	341.53	922.07	16.07

1/ Includes categories not tabulated by method of transportation, not shown separately.

2/ By district of unloading. Value is on customs value basis.

3/ Exports of domestic and foreign merchandise, by district of export. Value is on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Selected Highlights, FT920, December 1992, 1993, 1994, 1995, 1996, and 1997*, tables 1 and 6.

**Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1993 TO 1997**

[Years ended September 30, unless otherwise specified]

Subject	1993	1994	1995	1996	1997
Zone No. 9, General Purpose:					
Firms using zone	327	323	310	284	289
User employment at zone 1/	168	166	142	164	150
Value of merchandise (\$1,000): 2/					
In/out	61,568	52,648	55,383	80,691	86,982
Exports	15,773	14,352	15,578	17,145	16,311
Revenue 3/ (\$1,000)	1,935	1,844	1,676	1,334	1,377
Expenditures 3/ (\$1,000)	1,534	1,475	1,490	1,391	1,538
Subzone No. 9-A, BHP Hawaii, Inc.:					
User employment at subzone	628	606	588	617	628
Quantity (1,000 metric tons):					
Merchandise, in/out	9,424	9,039	(NA)	(NA)	(NA)
Exports	2,044	2,271	(NA)	(NA)	(NA)
Value (million dollars): 2/					
Merchandise, in/out	1,164	962	1,043	1,216	1,340
Exports	278	215	257	281	330
Subzone No. 9-B, HFM:					
User employment at subzone	14	19	19	19	19
Value (\$1,000): 2/					
Merchandise, in/out	3,183	2,872	4,162	2,820	1,493
Exports	1,582	1,444	2,062	1,392	805
Subzone No. 9-C, Dole Packaged Foods Co. 4/:					
User employment at subzone	225	18	18	18	-
Value (\$1,000): 2/					
Merchandise, in/out	17,600	2,906	2,750	828	-
Exports	2,000	1,362	1,126	332	-
Subzone No. 9-D, Maui Pineapple Co. Ltd.:					
User employment at subzone	785	595	597	622	602
Value (\$1,000): 2/					
Merchandise, in/out	144,098	106,303	99,196	103,719	110,594
Exports	10,154	8,650	4,601	2,994	2,505

Continued on next page.

**Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1993 TO 1997 -- Con.**

Subject	1993	1994	1995	1996	1997
Subzone No. 9-E, Chevron U.S.A. Products Co. Hawaii Refinery:					
User employment at subzone	332	329	338	297	314
Quantity (1,000 metric tons):					
Merchandise, in/out	5,544	5,753	(NA)	(NA)	(NA)
Exports	263	407	(NA)	(NA)	(NA)
Value (million dollars): 2/					
Merchandise, in/out	718	654	748	803	841
Exports	33	46	55	54	57

NA Not available.

1/ For firms occupying facilities on a continuing basis only.

2/ Since 1994, method of calculating value of "Merchandise, in/out" and "Exports" excludes value added in subzone manufacturing activity.

3/ Years ended June 30.

4/ Large portion of zone deactivated August 3, 1993 and completely deactivated on February 26, 1996.

Source: Hawaii State Department of Business, Economic Development & Tourism, Foreign-Trade Zone No. 9, annual reports and records.

Table 24.06-- CHARACTERISTICS OF MANUFACTURING ESTABLISHMENTS THAT EXPORT, UNITED STATES AND HAWAII: 1992

[In number of establishments]

Major Group	Establishments			
	United States		Hawaii	
	Total	Exporting	Total	Exporting
Total	369,145	82,553	999	182
Food and kindred products	20,641	4,563	233	70
Tobacco products	114	67	-	-
Textile mill products	5,868	1,613	9	-
Apparel and other textile mill products	22,935	2,801	145	19
Lumber and wood products	35,245	3,266	55	5
Furniture and fixtures	11,620	2,058	33	5
Paper and allied products	6,401	1,840	9	1
Printing and publishing	65,349	4,495	199	9
Chemicals and allied products	11,982	5,502	24	9
Petroleum and coal products	1,961	416	3	3
Rubber and misc. plastic products	15,819	5,806	22	10
Leather and leather products	2,032	677	5	2
Stone, clay, and glass products	16,001	2,116	51	4
Primary metal products	6,500	2,139	2	-
Fabricated metal products	36,360	8,211	32	1
Industrial machinery and equipment	53,849	13,990	30	2
Electronic and other electric equipment	16,890	8,306	16	6
Transportation equipment	11,249	3,711	21	6
Instruments and related products	11,331	6,716	16	9
Misc. manufacturing industries	16,998	4,260	94	21

Source: U.S. Bureau of the Census, *Selected Characteristics of Manufacturing and Wholesale Establishments That Export: 1992, Manufacturing, Analytical Report Series, AR92-2 (June 1996)*, pp. 1-39, and <<http://www.census.gov/prod/1/manmin/ar2/9r9202.pdf>>.

**Table 24.07-- MANUFACTURING INDUSTRIES: SHIPMENTS AND EMPLOYMENT
RELATED TO EXPORTS OF MAJOR GROUPS, HAWAII: 1992**

[In number of establishments, millions of dollars, and 1,000 of jobs. Unless otherwise indicated all establishments have 1 to 99 employees]

Major Group	Establishments		Value of shipments			Employment		
	Total	Exporting	Total	Estab. exporting	Exports	Total	Estab. exporting	Export employ.
Total	999	182	3,791.7	2,189.6	260.5	20.0	6.9	1.4
Food & kindred products	233	70	1,325.5	796.9	179.5	9.0	4.5	1.2
With 1 to 99 employees	208	57	474.5	244.3	33.2	3.2	1.3	0.3
With 100 to 499 employees	23	11	(D)	(D)	(D)	(D)	(D)	(D)
With 500 employees or more	2	2	(D)	(D)	(D)	(D)	(D)	(D)
Textile mill products	9	-	2.8	-	-	(Z)	-	-
Apparel & other textile mill prod.	145	19	147.0	29.0	3.3	2.1	0.4	(Z)
With 1 to 99 employees	141	18	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	4	1	(D)	(D)	(D)	(D)	(D)	(D)
Lumber & wood products	55	5	48.1	4.0	0.8	0.4	(Z)	(Z)
Furniture & fixtures	33	5	33.7	9.7	(D)	0.4	0.1	(D)
Paper & allied products	9	1	40.4	(D)	(D)	0.2	(D)	(D)
Printing & publishing	199	9	458.1	17.3	0.5	3.6	0.2	(Z)
With 1 to 99 employees	193	9	252.9	17.3	0.5	2.1	0.2	(Z)
With 100 to 499 employees	5	-	(D)	(D)	(D)	(D)	(D)	(D)
With 500 employees or more	1	-	(D)	(D)	(D)	(D)	(D)	(D)
Chemicals & allied products	24	9	73.4	51.1	1.8	0.3	0.2	(Z)
With 1 to 99 employees	23	8	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	1	1	(D)	(D)	(D)	(D)	(D)	(D)
Petroleum & coal products	3	3	(D)	(D)	(D)	(D)	(D)	(D)
With 1 to 99 employees	1	1	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	2	2	(D)	(D)	(D)	(D)	(D)	(D)
Rubber & misc. plastic products	22	10	23.5	18.7	1.2	0.2	0.1	(Z)
Leather and leather products	5	2	3.8	(D)	(D)	0.1	(D)	(D)

Continued on next page.

**Table 24.07-- MANUFACTURING INDUSTRIES: SHIPMENTS AND EMPLOYMENT
RELATED TO EXPORTS OF MAJOR GROUPS, HAWAII: 1992 - Con.**

Major Group	Establishments		Value of shipments			Employment		
	Total	Exporting	Total	Estab. exporting	Exports	Total	Estab. exporting	Export employ.
Stone, clay, & glass products	51	4	223.6	(D)	(D)	1.1	(D)	(D)
With 1 to 99 employees	49	4	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	2	-	(D)	(D)	(D)	(D)	(D)	(D)
Primary metal products	2	-	(D)	(D)	(D)	(D)	(D)	(D)
Fabricated metal products	32	1	71.6	(D)	(D)	0.3	(D)	(D)
Industrial machinery & equip.	30	2	19.0	(D)	(D)	0.2	(D)	(D)
Electronic & other electric equip.	16	6	10.4	1.4	0.2	0.2	(Z)	(Z)
With 1 to 99 employees	15	6	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	1	0	(D)	(D)	(D)	(D)	(D)	(D)
Transportation equipment	21	6	55.9	(D)	(D)	0.5	(D)	(D)
With 1 to 99 employees	20	5	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	1	1	(D)	(D)	(D)	(D)	(D)	(D)
Instruments & related products	16	9	6.6	4.1	0.5	0.1	(Z)	(Z)
Misc. manufacturing industries	94	21	73.8	36.6	3.5	0.8	0.4	(Z)
With 1 to 99 employees	93	20	(D)	(D)	(D)	(D)	(D)	(D)
With 100 to 499 employees	1	1	(D)	(D)	(D)	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

Z Less than half the unit shown.

Source: U.S. Bureau of the Census, *Selected Characteristics of Manufacturing and Wholesale Establishments That Export: 1992*, Manufacturing, Analytical Report Series, AR92-2 (June 1996), pp. 1-39, and <<http://www.census.gov/prod/1/manmin/ar2/9r9202.pdf>>.

Table 24.08-- FOREIGN OWNERSHIP OF HOTELS, BY ISLANDS: 1991

Ownership	State total	Hawaii	Maui	Molokai, Lanai	Oahu	Kauai
Total hotel rooms	50,979	6,670	8,737	578	30,263	4,731
U.S. owned	17,389	2,024	1,645	401	11,824	1,495
Foreign owned	33,590	4,646	7,092	177	18,439	3,236
Percent foreign owned	65.89	69.65	81.17	30.62	60.93	68.40
Japanese	61.18	69.65	74.38	30.62	58.11	48.24
Other	4.71	-	6.79	-	2.82	20.16

Source: Pannell Kerr Forster survey cited in *Honolulu Star-Bulletin*, November 15, 1991, p. C-1.

Table 24.09-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 31, 1993 TO 1995

Subject	1993	1994	1995
Parcels owned by foreigners	92	93	99
Individuals	22	23	22
Organizations	70	70	77
Acres owned by foreigners	179,960	179,971	180,058
Percent of all privately owned agricultural land 1/	9	9	9
Individuals	2,055	2,066	2,055
Organizations	177,905	177,905	178,003
Value of foreign-owned agricultural land (\$1,000):			
At time of acquisition	646,961	647,331	660,690
Adjusted current value	694,334	728,642	791,012

1/ The 1995 percent for Hawaii ranked second among the 50 States, exceeded only by Maine (16.4 percent), and well above the national percentage (1.2).

Source: U.S. Department of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land Through December 31, 1993* (Statistical Bulletin No. 879, April 1994), pp. 6, 9, and 13 and *Foreign Ownership of U.S. Agricultural Land Through December 31, 1994* (Statistical Bulletin No. 919, June 1995), pp. 6, 9, and 13. For 1995, U.S. Department of Agriculture Economic Research Service, *Foreign Ownership of U.S. Agricultural Land Through December 31, 1995* (Statistical Bulletin No. 931, September 1997), pp. 6, 9, and 13; and U.S. Department of Agriculture, *Agriculture Fact Book, 1997* <<http://www.usda.gov/news/pubs/fbook97/contents.htm>>.

**Table 24.10-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND
JAPANESE: PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

Year	Total foreign investments	Investments by Japanese
Total completed	16,363,374	14,062,915
Before 1970	35,000	31,900
1970-1974	438,589	328,689
1975-1979	522,160	264,740
1980-1984	895,416	576,180
1985	140,224	121,154
1986	1,150,354	1,106,854
1987	1,306,025	1,107,025
1988	1,866,563	1,727,582
1989	2,723,450	2,222,150
1990	1,990,530	1,944,330
1991	2,614,475	2,314,675
1992	671,952	633,452
1993	1,027,491	964,139
1994	981,145	720,045
Future investments	5,029,800	4,776,500

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii*, 1994 (December 1995), table 1.

**Table 24.11-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY
OF INVESTOR: PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

Country of investor	Pre-1970 through 1994	1991	1992	1993	1994
All countries	16,363,374	2,614,475	671,952	1,027,491	981,145
Australia	865,778	206,800	-	1,547	6,800
Bermuda	500	-	-	-	-
British West Indies	575	-	-	-	-
Canada	222,650	43,000	-	80	-
Cayman Islands	8,500	-	-	-	-
China, Peoples Republic of	118,600	-	-	600	118,000
France	19,900	-	-	-	-
Germany	(NA)	-	-	-	-
Hong Kong	448,845	(NA)	20,000	500	125,000
Indonesia	151,975	-	2,500	875	-
Italy	3,000	-	-	3,000	-
Japan	14,062,915	2,314,675	633,452	964,139	720,045
Korea, Republic of	13,750	-	1,000	(NA)	1,200
Liechtenstein	(NA)	-	-	-	-
Netherlands	19,600	-	-	-	-
Netherlands Antilles	70,735	50,000	3,000	-	-
New Zealand	68,900	-	(NA)	-	10,000
Singapore	(NA)	-	-	-	-
Spain	(NA)	-	-	-	-
Switzerland	(NA)	(NA)	-	-	-
Taiwan	90,100	-	12,000	56,000	100
United Arab Emirates	(NA)	-	-	-	(NA)
United Kingdom	193,801	-	(NA)	-	(NA)
Vanuatu	2,500	-	-	-	-
Western Samoa	750	-	-	750	-

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii, 1994* (December 1995), table 1.

**Table 24.12-- FOREIGN INVESTMENTS IN HAWAII, BY TYPE
OF INVESTMENT: PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

Type of investment	Pre-1970 through 1994		All countries		
	All countries	Japanese investments	1992	1993	1994
All types	16,363,374	14,062,915	671,952	1,027,491	981,145
Agriculture	84,600	22,400	-	500	-
Financial institutions	34,301	22,501	2,500	(NA)	-
Condominiums	1,573,850	1,021,250	-	158,600	342,000
Golf courses & club houses	447,050	447,050	(NA)	23,400	18,000
Hotels, resorts	8,516,783	8,047,602	529,182	481,800	360,000
Manufacturing	503,955	71,405	-	(NA)	6,800
Other real estate	3,436,405	2,935,900	20,000	335,050	217,500
Residential property	473,500	461,500	12,270	(NA)	32,000
Restaurants	640,020	629,620	5,000	24,475	1,200
Retailing, wholesaling	317,961	254,656	103,000	80	2
Science, education	95,901	9,400	(NA)	1,000	900
Miscellaneous	239,048	139,631	(NA)	2,586	2,743

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii, 1994* (December 1995), table 2.

Table 24.13-- JAPANESE INVESTMENT IN REAL ESTATE, FOR THE UNITED STATES, HAWAII AND HONOLULU METROPOLITAN STATISTICAL AREA: 1996 AND EARLIER YEARS

Period	United States (mil. dol.)	Hawaii		Honolulu MSA	
		Amount (mil. dol.)	Rank	Amount (mil. dol.)	Rank
INVESTMENT 1/					
1988	16,544	1,825	4	1,325	4
1989	14,775	4,437	2	1,064	4
1990	13,059	2,860	2	1,325	2
1991	5,060	1,656	1	662	2
1992	807	328	1	(NA)	(NA)
1993	705	521	1	(NA)	(NA)
Cumulative:					
Through 1987	26,340	7,240	1	4,420	3
Through 1988	42,884	9,065	2	5,745	(NA)
Through 1989	57,658	13,502	2	6,809	(NA)
Through 1990	70,717	16,362	2	8,134	(NA)
Through 1991	75,776	18,018	2	8,796	(NA)
Through 1992	76,583	18,346	2	(NA)	(NA)
Through 1993	77,288	18,867	2	(NA)	(NA)
DISINVESTMENT AND RESTRUCTURING ACTIVITY					
1993	17,590	5,230	1	(NA)	(NA)
DISINVESTMENT					
1993	3,430	(NA)	(NA)	(NA)	(NA)
1994	6,360	630	3	(NA)	(NA)
1995	8,870	656	3	(NA)	(NA)
1996	4,990	881	(NA)	(NA)	(NA)
2000 forecast	(NA)	1,000	(NA)	(NA)	(NA)

NA Not available.

1/ Preliminary data indicate 1993-96 Asian, exclusive of Japanese, investment in the U.S. to be \$6.3 billion and Hawaii, \$287 million.

Source: Kenneth Leventhal & Company, *1990 Japanese Investment in United States Real Estate* (1991), pp. 15, 16, and 23; and *Ibid. 1991* (1992), pp. 16, 17, and 24; *Ibid. 1992* (1993), pp. 15 and 17; *1993 Japanese Disinvestment in U.S. Real Estate* (1994), pp. 7 and 12; and *1995/1996 Japanese Investment in United States Real Estate* (1995), <<http://www.ey.com/us/realcon/realinfo.htm>>; *Honolulu Advertiser*, July 1, 1997, p. B-8; and *1997 Asian Investment in United States Real Estate* (1997), pp. 12-13, and <<http://www.ey.com/realestate>>.

**Table 24.14-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU:
1991 to 1997**

[Foreign investments in real property on Oahu, reported in accordance with Honolulu Ordinance No. 90-68, requiring all foreign persons to report real property holdings to the City and County Director of Finance. Reporting is thought to be incomplete. No report was issued in 1993]

Subject	Parcels					
	1991	1992	1994	1995	1996	1997
All property 1/	227,449	231,893	240,652	245,257	250,320	252,587
Foreign holdings	3,160	4,642	5,833	5,150	4,406	3,968
Percent	1.4	2.0	2.4	2.1	1.8	1.6
Foreign holdings by land class:						
Improved residential	362	753	678	597	545	501
Apartment	2,487	3,489	4,284	3,792	3,067	2,804
Commercial	162	209	212	222	188	169
Industrial	13	23	22	21	19	15
Agricultural	35	42	38	33	20	20
Conservation	20	26	20	18	11	7
Hotel and resort	66	89	571	460	550	448
Unimproved residential	15	11	8	7	6	4
Subject	Assessed value (millions of dollars) 1/					
	1991	1992	1994	1995	1996	1997
All property 1/	72,542	84,520	89,059	88,077	86,985	83,375
Foreign holdings	2,766	5,828	6,491	4,867	3,796	3,075
Percent	3.8	6.9	7.3	5.5	4.4	3.7
Foreign holdings by land class:						
Improved residential	333	702	712	509	435	387
Apartment	952	1,447	1,471	1,178	916	789
Commercial	1,157	1,661	1,730	929	567	306
Industrial	106	141	192	173	113	91
Agricultural	9	15	53	51	4	4
Conservation	25	122	91	68	38	1
Hotel and resort	151	1,716	2,223	1,946	1,710	1,487
Unimproved residential	33	25	18	14	12	8

1/ Net taxable valuation.

Source: City and County of Honolulu, Department of Finance, Real Property Division, *Foreign Investments in Real Property Within (the City and County of) Honolulu for 1992* (December 1, 1992), *1994* (January 31, 1995), *Within the City and County of Honolulu for 1995* (January 23, 1996), *1996* (preliminary January 31, 1997), and *1997* (February 2, 1998) submitted to the City Council; City and County of Honolulu, Department of Finance, *Real Property Tax Valuations, Tax Rates & Exemptions, State of Hawaii, for 1995-1996, 1996-97, and 1997-98*.

Table 24.15-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY COUNTRY, NUMBER OF PARCELS: 1991 TO 1997

[Number of parcels. No report issued for 1993]

Country	1991	1992	1994	1995	1996	1997
Total	3,160	4,642	5,833	5,150	4,406	3,968
Argentina	-	-	1	1	1	1
Australia	38	47	42	37	31	26
Austria	1	1	2	2	2	2
Bahamas	-	-	-	-	-	1
Barbados	-	-	-	1	1	1
Belgium	-	-	2	2	1	1
Bermuda	1	2	19	18	16	14
British Virgin Isle	-	-	1	2	4	4
British West Indies	-	-	1	1	1	1
Canada	294	330	293	255	228	207
Cayman Island(s)	1	4	4	1	1	1
China	3	32	53	52	49	42
Dominican Republic	-	-	1	1	1	1
England	10	23	53	47	40	36
Finland	1	1	-	-	-	-
France	6	22	48	45	45	44
French Polynesia	8	15	6	6	6	6
Germany	6	11	20	18	13	13
Guam	1	1	-	-	-	-
Holland	-	1	5	5	4	4
Hong Kong	115	128	89	81	73	63
Iceland	-	-	1	1	-	-
India	-	-	2	2	2	2
Indonesia	2	21	12	10	8	8
Italy	-	-	1	1	1	1
Japan	2,553	3,763	4,893	4,309	3,669	3,299
Korea	13	42	70	58	51	45
Lebanon	-	-	2	2	2	2
Liberia	-	7	6	6	6	6
Macau	2	2	1	1	1	1
Malaysia	2	4	6	5	4	4
Micronesia	-	-	2	2	2	2
Netherlands Antilles	21	24	33	34	10	9
New Zealand	12	15	11	9	7	5
Panama	1	1	2	1	1	1
Papua New Guinea	4	4	-	-	-	-
Philippines	8	41	36	32	30	29
Portugal	-	2	1	1	1	1

Continued on next page.

Table 24.15-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY COUNTRY, NUMBER OF PARCELS: 1991 TO 1997 -- Con.

Country	1991	1992	1994	1995	1996	1997
Samoa	-	1	-	-	-	-
Saudi Arabia	-	-	3	3	3	3
Singapore	14	15	11	11	10	10
Sweden	1	2	5	4	4	4
Switzerland	7	10	13	13	10	9
Tahiti	-	-	14	11	11	11
Taiwan	22	48	54	48	46	38
Thailand	7	16	13	10	9	9
Turkey	1	1	-	-	-	-
United Arab Emirates	1	1	1	1	1	1
Vanuatu	4	4	-	-	-	-
Western Samoa	-	1	-	-	-	-

Source: City and County of Honolulu, Department of Finance, Real Property Division, *Foreign Investments in Real Property Within (the City and County of) Honolulu for 1992* (December 1, 1992), *1994* (January 31, 1995), *Within the City and County of Honolulu for 1995* (January 23, 1996), and *1996* (preliminary January 31, 1997), and *1997* (February 2, 1998) submitted to the Honolulu City Council.

**Table 24.16-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU
BY COUNTRY, ASSESSED VALUE: 1991 TO 1997**

[Value in thousands of dollars. No report issued for 1993]

Country	1991	1992	1994	1995	1996	1997
Total	2,766,383.2	5,828,105.9	6,490,786.0	4,866,581.8	3,795,599.8	3,074,944.5
Argentina	-	-	157.2	172.9	164.3	123.2
Australia	13,681.4	17,886.7	13,947.0	16,664.1	14,027.8	12,266.4
Austria	354.6	404.4	616.5	629.1	585.3	519.4
Bahamas	-	-	-	-	-	8,245.4
Barbados	-	-	-	1,515.1	1,657.0	1,643.9
Belgium	-	-	390.2	364.0	172.0	172.0
Bermuda	1,403.1	4,031.8	36,564.7	33,784.1	28,887.1	16,825.1
British Virgin Isle	-	-	298.0	885.2	2,034.1	2,032.0
British West Indies	-	-	320.2	266.8	254.1	254.1
Canada	87,387.3	111,696.7	75,640.1	62,631.6	52,773.2	42,886.7
Cayman Island(s)	1,875.0	4,172.0	4,367.0	1,704.5	1,303.9	1,303.9
China	1,845.3	9,886.6	15,295.8	14,433.2	13,385.4	10,200.6
Dominican Republic	-	-	340.3	329.7	262.2	248.2
England	3,543.2	12,124.7	19,078.4	16,127.4	13,031.5	11,174.9
Finland	97.8	97.8	-	-	-	-
France	9,814.4	26,556.0	31,097.9	24,109.1	22,821.2	22,918.7
French Polynesia	3,064.2	4,493.5	1,997.1	1,887.1	1,847.8	1,814.7
Germany	1,703.0	4,414.8	9,888.2	8,008.5	4,404.2	4,153.5
Guam	149.1	163.3	-	-	-	-
Holland	-	121.2	1,768.7	1,795.7	999.8	839.9
Hong Kong	52,175.7	57,722.7	58,948.4	47,992.5	40,255.6	34,066.1
Iceland	-	-	775.0	775.0	-	-
India	-	-	543.4	539.7	540.5	477.2

Continued on next page.

**Table 24.16-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY
COUNTRY, ASSESSED VALUE: 1991 TO 1997 -- Con.**

Country	1991	1992	1994	1995	1996	1997
Indonesia	2,392.0	6,450.5	2,888.6	2,463.0	1,893.6	1,656.9
Italy	-	-	143.8	143.8	123.3	111.0
Japan	2,547,270.5	5,413,022.3	6,066,721.8	4,503,050.5	3,513,238.5	2,832,862.2
Korea	5,424.1	87,185.7	37,743.6	25,308.3	20,027.3	17,505.5
Lebanon	-	-	858.0	858.0	826.6	612.8
Liberia	-	1,008.2	2,898.5	2,827.2	2,745.3	2,660.1
Macau	391.0	449.7	304.3	304.3	258.7	219.9
Malaysia	248.2	1,203.6	2,114.3	1,385.0	1,113.5	622.6
Micronesia	-	-	1,697.7	1,663.7	1,451.4	1,046.2
Netherlands Antilles	2,071.3	5,789.9	43,990.0	42,509.7	11,007.0	9,804.0
New Zealand	3,633.0	4,451.2	3,300.1	3,120.5	1,948.2	1,123.5
Panama	274.4	379.0	615.3	305.2	259.4	259.4
Papua New Guinea	727.8	875.0	-	-	-	-
Philippines	2,863.6	11,466.8	10,885.0	9,448.7	8,387.9	7,180.2
Portugal	-	776.4	464.6	464.6	441.4	397.3
Saudi Arabia	-	-	602.9	623.5	616.9	576.3
Singapore	4,220.1	5,250.6	3,912.0	3,347.0	2,860.4	2,516.9
Sweden	267.0	524.3	1,478.8	1,216.9	1,148.4	1,085.1
Switzerland	2,400.1	3,246.7	4,415.3	4,266.6	2,782.8	2,450.4
Tahiti	-	-	2,684.2	2,144.8	2,175.2	1,914.3
Taiwan	8,593.8	20,467.5	25,576.8	22,471.4	19,448.8	15,039.3
Thailand	2,433.3	5,532.4	5,233.6	3,841.3	3,254.9	2,984.1
Turkey	182.8	209.0	-	-	-	-
United Arab Emirates	213.5	233.8	222.7	202.5	183.3	150.6
Vanuatu	5,682.6	5,699.3	-	-	-	-
Western Samoa	-	111.8	-	-	-	-

Source: City and County of Honolulu, Department of Finance, Real Property Division, *Foreign Investments in Real Property Within (the City and County of) Honolulu for 1992* (December 1, 1992), *1994* (January 31, 1995), *Within the City and County of Honolulu for 1995* (January 23, 1996), and *1996* (January 31, 1997), and *1997* (February 2, 1998) submitted to the Honolulu City Council.

**Table 24.17.-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS
PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES, BY
COUNTRY OF ULTIMATE BENEFICIAL OWNER: 1977 TO 1995**

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person. Amounts are book values, in millions of dollars. Data for 1995 are preliminary]

Year	All countries	Japan	Australia, etc. 1/	Other, Asia & Pacific	Canada	Europe	Latin America	Other, subtotal 2/
1977	672	374	1	(NA)	31	83	<183	<183
1978	742	407	1	(NA)	37	69	3	225
1979	789	445	1	(NA)	51	109	5	178
1980	1,020	565	<203	(NA)	115	119	18	<203
1981	>1,021	664	2	(NA)	94	134	16	>111
1982	>1,083	758	(D)	(NA)	96	213	17	(D)
1983	>1,208	1,098	(D)	(NA)	93	(D)	18	(D)
1984	1,691	1,203	<187	(NA)	96	187	18	<187
1985	1,777	1,278	102	(NA)	99	129	20	149
1986	2,013	1,442	109	(NA)	113	171	32	146
1987	3,474	2,969	125	107	66	134	66	7
1988	4,990	4,235	136	199	78	261	73	8
1989	8,224	6,757	666	237	88	368	97	11
1990	11,830	9,960	(D)	(D)	68	759	119	(D)
1991	13,921	11,866	736	251	80	837	139	12
1992	15,454	13,601	738	291	121	487	209	7
1993	16,030	13,935	867	335	183	487	217	6
1994	16,185	13,948	858	483	198	454	230	14
1995	16,102	13,517	1,114	488	221	500	242	20

>x or <x Values are greater or less than x (exact figure not disclosed).

Values between -0.05 and 0.05 are rounded to zero for 1987-1995.

D Not disclosed.

NA Not available.

1/ Figures for Australia include New Zealand and South Africa for 1977-86 but exclude these countries for 1987-95.

2/ Figures for Other subtotal include New Zealand and South Africa for 1987-1995 but exclude these countries for 1977-86. Figures for Other subtotal include Middle East, Africa less South Africa, Other Asia and Pacific less New Zealand, and United States for those years.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States* (various years) and Hawaii State Department of Business, Economic Development & Tourism calculations.

**Table 24.18.-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS PROPERTY, PLANT,
AND EQUIPMENT OF NONBANK AFFILIATES, BY INDUSTRY OF AFFILIATE: 1977 TO 1995**

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person.
In millions of dollars. Data for 1995 are preliminary]

Year	Total	Petroleum	Manufacturing	Wholesale trade	Retail trade	Finance, nonbank	Insurance	Real estate	Services and other	Services
1977	672	16	8	5	54	0	1	233	354	(NA)
1978	742	17	12	8	57	1	1	246	400	(NA)
1979	789	17	14	7	65	1	1	256	427	(NA)
1980	1,020	<44	<44	17	52	<44	2	431	474	(NA)
1981	>1,021	(D)	24	(D)	(D)	1	2	494	501	(NA)
1982	>1,083	21	38	24	80	(D)	1	584	(D)	(NA)
1983	>1,208	22	40	28	253	10	1	558	>295	(NA)
1984	1,691	23	73	56	274	3	3	605	653	(NA)
1985	1,777	26	103	60	281	3	2	584	719	(NA)
1986	2,013	31	157	61	280	4	1	713	767	(NA)
1987	3,474	26	129	44	297	3	<125	991	<1,985	1,860
1988	4,990	28	201	91	322	3	8	1,739	2,598	2,371
1989	8,224	<615	247	179	340	10	15	2,380	<5,054	4,309
1990	11,830	<929	368	189	490	17	15	3,868	<6,884	5,855
1991	13,921	<1,239	386	212	535	82	13	4,069	<8,624	7,385
1992	15,454	<837	290	<837	564	222	17	5,075	8,450	7,939
1993	16,030	<729	296	258	570	300	<729	4,907	8,970	8,454
1994	16,185	<1,221	308	257	597	306	18	4,615	<10,084	8,863
1995	16,102	<1,160	330	242	616	<1,160	20	4,063	9,671	8,853

>x or <x Values are greater or less than x (exact figure not disclosed).

Values between -0.05 and 0.05 are rounded to zero for 1987-1995.

D Not disclosed.

NA Not available.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States* (various years) and Hawaii State Department of Business, Economic Development & Tourism calculations.

**Table 24.19.-- EMPLOYMENT OF NON BANK AFFILIATES IN HAWAII, BY INDUSTRY OF AFFILIATE:
1977 TO 1995**

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person.
Employment in thousands. Data for 1995 are preliminary]

Year	Total	Petroleum	Manufacturing	Wholesale trade	Retail trade	Finance, nonbank	Insurance	Real estate	Services & Other	Services
1977	11.4	<7.2	0.6	0.4	2.9	0.0	0.2	0.2	<7.2	(NA)
1978	11.9	<6.9	0.8	0.6	3.2	0.0	0.2	0.2	<6.9	(NA)
1979	14.7	<8.2	1.3	0.7	4.0	0.0	0.2	0.3	<8.2	(NA)
1980	15.5	<8.7	1.3	0.8	4.0	<8.7	0.3	0.5	<8.7	(NA)
1981	17.0	<8.3	1.3	0.8	5.4	0.1	0.3	0.8	<8.3	(NA)
1982	16.4	<0.3	1.9	0.7	4.2	0.3	<0.3	0.7	8.4	(NA)
1983	16.3	<8.6	1.4	0.8	4.5	0.3	0.2	0.7	<8.6	(NA)
1984	16.5	<7.2	2.0	2.0	4.4	0.2	0.3	0.5	<7.2	(NA)
1985	18.7	<8.4	2.0	1.8	5.0	0.2	0.3	1.0	<8.4	(NA)
1986	18.4	<7.9	2.4	2.0	4.5	0.2	0.2	1.3	<7.9	(NA)
1987	27.3	0.0	1.3	1.3	5.1	0.2	1.4	0.6	17.4	11.0
1988	34.8	0.0	2.1	2.9	5.3	0.2	0.4	1.8	22.2	13.2
1989	45.0	0.8	2.3	4.0	5.3	0.2	1.0	2.0	29.5	16.9
1990	53.0	0.9	2.8	4.2	7.1	0.2	1.0	3.5	33.4	21.2
1991	56.0	<11.9	2.7	4.7	<11.9	0.2	1.1	<11.9	35.5	23.0
1992	53.8	1.0 - 2.3	3.5	4.1	7.8	0.2	1.0 - 2.3	3.1	32.9	23.8
1993	52.4	1.3	2.3	4.2	7.8	0.1	1.0	3.4	32.4	25.0
1994	50.8	1.0	2.4	3.5	7.8	0.2	0.9	2.6	32.5	26.0
1995	49.8	1.3	2.6	3.4	8.0	0.1	0.6	2.5	31.1	24.5

>x or <x Values are greater or less than x (exact figure not disclosed).

Values between -0.05 and 0.05 are rounded to zero for 1987-1995.

D Not disclosed.

NA Not available.

Source: U.S. Department of Commerce, *Foreign Direct Investment in the United States* (various years) and Hawaii State Department of Business, Economic Development & Tourism calculations.

BIBLIOGRAPHY

This volume is the 30th of its type published by the Hawaii State Department of Business, Economic Development & Tourism (DBEDT) and its predecessor agencies. The first was *Statistical Abstract of Hawaii, 1962*, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled *The State of Hawaii Data Book* were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. The 1987 edition was the first one issued by DBEDT. All of the volumes issued before the 1995 edition are now out of print, but copies can be consulted in the DBEDT Library, Hawaii State Library, University of Hawaii and community college libraries, and other collections throughout the state.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in the underlying reports.

Although most of the series in the *Data Book* are shown only for recent years, many earlier figures appear in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century.

Statistical abstracts have also been recently published for the Big Island, Maui County, Molokai, and Kauai. The Hawaii County Department of Research and Development issued its *1996 County of Hawaii Data Book*, a 364-page compendium, in June 1997. *Maui County Data Book 1996-1997*, 193 pages, a joint production of the Maui County Office of Economic Development, Maui Economic Development Board, Inc., and University of Hawaii at Hilo Business Research Library, appeared in July 1997. *The Moloka'i Data Book: A Statistical Abstract* (1990; 41 pages) was compiled by the Cooperative Extension Service, College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa. *Statistical Abstract of the Kauai Economy, 1994 Edition* (80 pages), prepared by the Kauai County Office of Economic Development, appeared in September 1994. There is also a privately published volume, *Kauai Data Book, Seventh Edition* (1997; 70 pages), available from H & S Publishing, Kapa'a.

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 117th, dated 1997; copies are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The *State and Metropolitan Area Data Book* and *County and City Data Book* are sold by the same agency.

**Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK:
1987 TO 1997**

[For earlier years, see *Data Book 1996*, p. 632]

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1987	722	746	5.00	15.00	21,981.00	3,000
1988	694	737	5.00	15.00	21,700.00	3,000
1989	651	704	8.00	1/ 18.00	21,620.00	3,000
1990	667	732	8.00	1/ 18.00	22,500.00	3,000
1991	657	717	8.00	1/ 18.00	25,312.00	3,000
1992	618	707	8.00	2/ 12.00	24,673.00	3,000
1993-94	571	639	8.00	2/ 12.00	20,430.00	3,000
1995	629	697	15.00	3/ 19.00	23,000.00	3,000
1996	664	4/ 705	15.00	3/ 19.00	27,040.00	3,000
1997	679	711	18.00	5/ 22.00	17,140.00	1,500

1/ U.S. Mainland price; \$35.00 for foreign countries.

2/ U.S. Mainland price; \$15.00 for Canada, \$20.00 for Mexico, and \$40.00 for all other countries.

3/ U.S. Mainland price: \$21.00 for Canada, \$28.00 for Mexico, and \$48.00 for all other countries.

4/ Revised.

5/ U.S. Mainland price: \$25.00 for Canada, \$38.00 for Mexico, and \$51.00 for all other countries.

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

INDEX TO THE STATE OF HAWAII DATA BOOK 1997

Subject	Table Numbers
Abortions	2.03, 2.12
Accidents and fatalities (See also Deaths and death rates):	
Aircraft	2.14, 2.15
Boating or shipping	18.54
Catastrophic, by type	2.14, 2.15
Drowning	7.44
Fires	15.15
Hurricanes	2.14, 2.15, 5.42
Industrial	12.34, 12.35
Traffic	2.13-2.15, 18.21
Tsunamis (seismic sea waves)	5.20
Adoptions	11.13
Advertising agencies	16.01
Agriculture (See also individual products):	
Crops and livestock	19.01, 19.02, 19.04, 19.06-19.11, 19.13-19.20
Employees and earnings	12.10-12.12, 12.21, 15.20, 19.03, 19.05, 19.22, 22.11
Farms	19.01-19.03, 19.05, 19.07, 19.08, 19.15-19.19, 20.02
Fertilizer	19.24
Foreign investment	24.09, 24.12, 24.14
Government payments	19.12
Irrigation	19.01, 19.02, 19.11
Land use and acreage	6.01-6.05, 6.10, 6.11, 19.01-19.03, 19.05, 19.07-19.11, 19.17 19.21, 20.01, 20.02, 22.10
Market supply	19.09
Per capita consumption	19.09
Prices	19.10, 22.11
Production	19.01, 19.07-19.10
Sales, Shipments, Receipts	19.01, 19.02, 19.04, 19.06-19.10, 19.15-19.20
Taxes and tax base	9.18, 19.23
Water use	5.22
Aid to families with dependent children	11.04
Air pollution. See Environment, Air pollution	

Air transportation:

Accidents	2.14, 2.15
Carriers	18.31, 18.32, 18.34, 18.36
Cargo and mail	18.34, 18.38-18.41
Employees and earnings.....	18.36
Establishments.....	18.61
Fares	7.26, 18.44-18.46
Flights	18.43
General aviation.....	18.30, 18.32, 18.36
Helicopter tours.....	18.42
Passengers.....	18.31, 18.37-18.40
Ranking.....	18.31
Sales.....	18.61
Seat capacity	18.35
Airports and heliports.....	18.30-18.33, 18.36, 18.38-18.40, 18.43
Alcoholic beverages. See Liquor	
Aliens. See Citizenship or Immigration	
Altitude. See Elevation and altitude	
Ambulances.....	18.06, 18.08
Amusement. See Recreation	
Apparel and related products. See Textile and apparel industry	
Aquaculture	19.25, 19.26
Aquariums.....	7.42
Area, land and water	5.07-5.09
Armed forces:	
Airports and aircraft operations	18.30, 18.32
Civilian employment and payroll	10.04, 10.06-10.07, 10.10
Contracts awarded.....	10.12
Expenditures	9.29-9.31, 10.07, 10.08
Land and land use.....	6.10, 10.13
National Guard.....	10.09
Recruitment.....	10.11
Armed forces personnel and dependents:	
Active duty personnel	1.03, 1.20, 1.21, 10.01-10.05
Armed forces dependents.....	1.03, 1.20, 1.21, 10.02-10.05
Births to military families.....	2.02

Armed forces personnel and dependents (cont'd):	
Branch of service.....	10.03, 10.05, 10.10, 10.11, 10.14, 10.16
Characteristics.....	1.21
Components of population change.....	1.44
Deaths.....	1.44, 2.02
Hawaii residents on active duty.....	10.01
Households and/or families.....	1.21
Housing.....	10.14
Location.....	10.06
Migration.....	1.21, 1.44-1.46, 21.22
Veterans and retired military.....	10.15, 10.16
Astronomy.....	17.28
Automobiles. See Motor vehicles	
Aviation fuel.....	17.17-17.19
Bagasse.....	17.22
Bankruptcies.....	4.16, 4.17, 15.29
Banks.....	15.01-15.06
Beaches.....	5.15, 5.27, 5.28, 7.44, 7.45
Bicycles and bicycling.....	18.22
Biomass.....	17.05-17.07, 17.22
Bird counts.....	5.47, 5.48, 5.51
Births and birth rates:	
Armed forces personnel and dependents.....	1.44, 2.02, 2.07
Birth rates.....	2.01-2.03
Births of mixed race.....	2.07
Births to non-residents.....	2.04
Births to single women.....	2.01, 2.05
Characteristics of infants.....	2.05
Characteristics of parents.....	2.05-2.07
Components of population change.....	1.44, 1.45
First births.....	2.05
Names, most common.....	2.08, 2.09
Place of birth.....	1.34, 2.04, 2.05
Blind persons.....	2.17, 9.23, 11.04
Boats and boating. See Water transportation	
Boilers and pressure vessels.....	17.21

Subject	Table Numbers
Boxing	7.60
Bridges	18.04
Budgets.....	14.06, 14.07
Buses and bus service.....	18.06, 18.08, 18.26-18.28
Business climate (index).....	15.26
Business enterprises (See also individual types of business and industry):	
Employees and earnings.....	12.10, 12.12, 12.21, 15.16-15.19
Employment-size class.....	15.16, 15.19, 15.20
Establishments.....	12.21, 15.16-15.20
Failures.....	15.29
Foreign-owned businesses. See Foreign investments	
Headquarters.....	15.25
Minority-owned.....	15.27
Sales.....	15.20, 15.22-15.24, 15.27
Small businesses.....	15.16, 15.19, 15.20
Type of business.....	15.18
Women-owned.....	15.28
Cable television.....	16.09
Car rentals. See Motor vehicles	
Care homes. See Nursing homes	
Cargo. See Air or Water transportation	
Cattle. See Livestock and livestock products	
Cement and concrete industry. See Mining and mineral products	
Cemeteries.....	9.23
Census designated places or urban places.....	1.11
Charities.....	11.16
Children:	
Adoptions.....	11.13
Child abuse.....	4.10
Child care.....	11.15
Child welfare payments and recipients.....	11.04
Poverty status.....	13.19
Churches (See also Religion).....	9.23
Citizenship.....	1.34, 1.49
Civil service. See County, Federal, or State government	

Subject

Table Numbers

Climate	
Humidity	5.35, 5.36, 5.39
Lahaina Noons	5.46
Rainfall.....	5.34-5.37, 5.39-5.41
Sunshine.....	5.35, 5.37, 5.39
Sunrise/sunset.....	5.45
Temperature.....	5.34-5.40
Temperature, water	5.43, 5.44
Wind	5.35, 5.36, 5.39, 5.40, 5.43
Clothing. See Textile and apparel industry	
Coal.....	17.01, 17.02, 17.05-17.07
Coastline. See Shoreline	
Coffee.....	19.07, 19.08, 19.10
Collective bargaining.....	12.38, 12.39
Common carriers. See Motor vehicles	
Communications industry (See also individual industries):	
Establishments.....	16.01, 16.08-16.10, 18.61
Employees and earnings.....	12.10-12.12, 12.21, 12.26
Sales.....	18.61
Telegraph.....	16.01
Computers	23.35
Condominiums:	
Conversions.....	21.12
Price.....	21.28
Projects registered	21.10
Sold or for sale.....	21.28
Tenure.....	21.22
Timeshare properties	21.13, 21.18
Units	21.09, 21.10, 21.12, 21.22, 23.26-23.28
Value.....	21.22
Visitor use.....	21.13, 21.18, 23.26-23.28, 23.30
Construction industry:	
Building permits	21.01-21.03, 21.07
Cost indexes	21.08
Demolitions.....	21.07
Employees and earnings.....	12.10-12.12, 12.21, 12.26, 15.18, 21.05, 21.06

Subject

Table Numbers

Construction industry (cont'd):

Establishments.....	12.21, 15.18, 21.05, 21.06
Housing. See Housing as a separate heading	
Sales.....	21.04, 21.06
Taxes and tax base.....	9.18, 21.04
Value of construction	21.01-21.06
Consumer expenditures	13.21, 13.22
Consumer price index.....	7.29, 14.02-14.05
Conventions	7.13, 7.18, 7.19
Corporations.....	12.30, 15.21-15.24
Cost of living.....	14.07-14.10
Cost of living allowances (COLA), Federal employees.....	14.10
County (See also County government):	
Agriculture.....	19.02, 19.05, 19.06, 19.08, 19.16, 19.26, 20.02
Business enterprises.....	15.17, 15.20, 16.08-16.10, 22.02, 23.04, 23.08, 23.17, 23.20
Construction industry	21.01, 21.02, 21.07
Crime and criminals	4.01, 4.02, 4.05, 4.06, 4.08, 4.09, 4.12
Education.....	3.04, 3.10, 3.11
Elections	8.04, 8.06, 8.08, 8.12, 8.13, 8.17
Employment and labor force.....	12.02, 12.07, 12.09, 12.12, 12.20, 12.28
Energy.....	17.18, 17.20, 17.22
Fires	15.15, 20.03
Geographic data	5.05, 5.07
Housing.....	21.15-21.22
Income	13.07, 13.13, 13.14
Land and land use.....	6.07, 6.08, 6.12, 21.37
Population.....	1.01, 1.06-1.10, 1.13, 1.15, 1.16, 1.18, 1.19, 1.22, 1.26-1.29, 1.45
Public safety	4.14
Taxation.....	9.08, 9.17, 9.22, 9.27
Tourism.....	7.06, 23.25, 23.29
Transportation.....	18.07-18.10, 18.12, 18.15, 18.18, 18.21, 18.24
Vital statistics	2.05, 2.12
Water use and consumption.....	5.23
Welfare services	11.02, 11.08

County government (See also Taxation or Public safety):

Bond debt	9.32
Capital improvements expenditures.....	9.09
Employees and earnings	9.34, 9.40, 12.10, 12.12, 12.21, 12.23, 12.38
Expenditures	9.09
Land owned	6.06
Mass transit.....	9.09
Real property	9.21-9.27
Retirement system.....	9.09
State or Federal support	9.07, 9.08, 9.29-9.31
Tax collections and other revenues	9.01, 9.03, 9.08
Courts.....	4.15-4.20, 9.40, 12.38, 21.38
Credit unions.....	15.07
Crime and criminals:	
Arrests	4.04, 4.05, 4.07, 4.08
Burglary	4.01, 4.03, 4.07, 4.11, 4.12
Child abuse.....	4.10
Court proceedings	4.16-4.20
Juveniles.....	4.08
Marijuana confiscation.....	4.06
Offenses	4.01-4.09
Parole.....	4.22
Prisoners	4.20, 4.21
Rate	4.02, 4.13
Ranking.....	4.13
Victims.....	4.01
Crude oil.....	17.19
Collective bargaining.....	12.38, 12.39
Cultural attractions.....	7.33-7.35
Dairy products. See Livestock and livestock products	
Dams	5.21
Deaths and death rates (See also Accidents and fatalities):	
Armed forces personnel and dependents	2.02
Catastrophic mortality	2.14, 2.15
Cause	2.13-2.15

Deaths and death rates (See also Accidents and fatalities) (cont'd):	
Characteristics	2.12
Age and sex	2.12-2.13
Components of population change	1.44, 1.45
Death rates	2.01, 2.02, 2.12
Deaths of non-residents	2.04
Disposition of remains	2.16
Fetal and infant deaths	2.01, 2.03, 2.12
Fires	15.15
Industrial	12.35
Names, most common	2.09
Place of death	2.04
Traffic	18.21
Defense. See Armed forces	
Dentists	2.31
Department stores. See Retail trade	
Diesel fuel	17.17, 17.18
Disability insurance	11.06-11.08
Disabled persons	2.17, 2.18, 11.04, 11.11
Diseases	2.18, 2.20, 2.29
Distances:	
Great circle	5.01
Highways	18.01
Districts. See "Judicial" districts	
Divorces	2.33-2.35, 2.37
Doctors, M.D.s. See Physicians and surgeons	
Dogs	7.61
Drivers licenses	18.15, 18.16
Duty Free Stores	23.11
Earthquakes	5.18, 5.19
Earnings (See also Employees and earnings under individual industries)	12.19-12.23, 12.25-12.30
Eating and drinking places:	
Employees and earnings	12.21, 12.26-12.28, 15.18, 23.06
Establishments	12.21, 15.18, 23.05, 23.06, 23.10
Foreign investment	24.12

Subject

Table Numbers

Eating and drinking places (cont'd):

Sales and expenditures..... 23.05, 23.07, 23.10

Type of store..... 23.10

Economic development expenditures..... 9.09

Education:

Attainment..... 1.21, 3.02-3.05

Board of Education..... 8.14

Consumer expenditures..... 13.21, 13.22

Days of school..... 3.15

Employees and earnings..... 3.06, 3.15, 12.38

Enrollment..... 3.01, 3.07-3.14

Federal support..... 3.12

Government expenditures..... 3.15, 9.05-9.07

Graduates..... 3.07, 3.08, 3.13, 3.14, 3.19, 3.21

Higher education institutions:

Curricula..... 3.20

Degrees conferred..... 3.19, 3.21

Enrollment..... 3.18, 3.21

By campus (University of Hawaii)..... 3.18

Faculty and staff..... 3.20, 12.38

Federal support..... 3.23, 17.24

Finances..... 3.20

Migration..... 3.22

Private..... 3.21

Residence..... 3.22

Sports..... 7.58

Tuition..... 3.20

Schools:

Preprimary..... 3.01

Public elementary and secondary schools..... 3.01, 3.07-3.11, 3.15

Private elementary and secondary schools..... 3.06, 3.07, 3.09, 3.13, 3.14, 6.07

Special Education..... 3.09-3.11

Sports..... 7.58, 7.59

Teachers..... 3.07, 3.08, 3.13-3.15

Test scores..... 3.16, 3.17

Taxation..... 9.23

Subject

Table Numbers

Education (cont'd):

University of Hawaii.....3.18-3.20, 3.23, 3.27, 6.12, 7.58, 9.35-9.40, 12.38, 17.25

Elderly (65 years and over) or retired persons. See Population

Elections (See also Voters and voting):

Board of Education 8.14

Campaign finances..... 8.14

County governments..... 8.06, 8.11, 8.12, 8.15, 8.17

Election districts or precincts..... 8.09

Federal government..... 8.02, 8.06, 8.11, 8.12

Neighborhood Boards..... 8.15

Number of elected officials 8.01

Office of Hawaiian Affairs 8.13

Political party identification 8.16, 8.17

State government..... 8.11, 8.13, 8.14, 8.16

Electricity:

Capacity, production, and rates..... 17.06, 17.07, 17.15

Consumption 17.03, 17.04, 17.09-17.11, 17.15

Customers 17.09-17.11, 17.15

Expenditures 17.08

Generation by source..... 17.06, 17.07

Price index..... 14.04, 14.05

Sales..... 17.09-17.11, 17.15

Elevation and altitude..... 5.11, 5.16

Elevators, escalators, and similar facilities..... 21.39

Employment and labor force (See also individual industries):

Accidents and fatalities 12.34, 12.35

Average pay and earnings. See Earnings

Civilian labor force:

Employed 12.01, 12.04, 12.06, 12.07, 12.14-12.16, 13.05

Ethnic origin and race 12.05

Hours 12.32

Occupations..... 12.16

Participation rate..... 12.04

Part-time..... 12.15

Sex 12.01, 12.04

Unemployed..... 12.01, 12.02, 12.04, 12.06, 12.07

Employment and labor force (See also individual industries) (cont'd):

Collective bargaining	12.38, 12.39
Commuting.....	12.03
Defense. See Armed Forces	
Employment-size class.....	12.24, 15.16, 15.19, 15.20
Executive salaries	12.30
Export-related	24.05, 24.07
Family workers, unpaid.....	12.14, 19.03, 19.05
Foreign-owned firms.....	24.19
Full time/part-time	12.02, 12.15
Government.....	9.34-9.40, 12.10, 12.12, 12.14, 12.21
High technology	17.23
Illness	12.34
Industry groups	12.10-12.12, 12.21, 12.26
Jobcount.....	12.09, 12.10, 12.12, 12.21, 13.05
Labor unions and employee associations	9.38, 9.39, 12.30, 12.36-12.39
Migration	12.33
Minimum wage rates	12.31
Multiple job holders.....	12.17
Occupations	12.08, 12.13, 12.16, 12.27-12.29
Place of work	12.18
Self-employed workers	12.14
Sex.....	12.01, 12.02, 12.05, 12.08
Strikes or work stoppages	12.40, 12.41
Unemployment or unemployed workers.....	12.01-12.04, 12.06-12.08
Visitor related.....	7.28
Women in labor force	12.01-12.03, 12.05, 12.15, 12.16
Endangered and extinct species	5.51
Energy and power (See also Electricity and Utilities):	
Biomass.....	17.05-17.07, 17.22
Coal	17.01, 17.02, 17.05-17.07
Consumer price index	14.04, 14.05
Consumption	17.01-17.05
End user.....	17.03
Expenditures	17.08
Geothermal energy	17.01, 17.02, 17.05-17.07

Energy and power (See also Electricity and Utilities) (cont'd):	
Hydroelectric energy	17.01, 17.02, 17.05-17.07
Sugar mills and other manufacturing industries	17.22
Wind	17.05-17.07
Entertainment. See Recreation	
Environment:	
Air pollution	5.26, 5.31-5.33
Endangered species	5.51
Expenditures	5.26, 9.07, 9.09
Hazardous substances	5.25
Ranking	5.24, 5.25
Refuse and sewages	5.29
Water quality	5.27, 5.28
Establishments. See Business enterprises	
Ethnic origin and race. See Population, Ethnic origin and race	
Excise tax. See Taxation	
Exports. See Foreign trade	
Failures, industrial and commercial. See Bankruptcies	
Families. See Households or families	
Farms and farm workers. See Agriculture	
Federal government (See also Armed forces):	
Aid to state or counties	3.12, 3.23, 9.06, 9.08, 11.03, 11.10, 17.24, 17.26, 19.12
Cost of living allowances (COLA)	14.10
Courts	4.15-4.17
Employees and earnings	12.10, 12.12, 12.21, 12.23
Expenditures	9.28-9.31
Land owned or leased	6.01, 6.06, 6.10, 10.13
Tax collections and other revenues	9.01, 9.02, 9.10-9.13
Fertility rate	2.06
Fertilizer and chemicals	19.24
Finance, insurance, and real estate (See also individual subjects):	
Assets and deposits	15.04-15.07
Employees and earnings	12.10-12.12, 12.21, 12.26, 15.02, 15.03, 15.18
Establishments	12.21, 15.01-15.03, 15.05, 15.07-15.09, 15.11, 15.18
Financial loan companies	15.01-15.07
Foreign investments	24.12, 24.18, 24.19

Subject

Table Numbers

Firefighters. See Public safety	
Fires.....	15.15
Fishery conservation zone	5.06
Fisheries and fishing	7.52, 7.53, 20.04-20.09
Flowers and nursery products.....	19.07, 19.08, 19.17-19.20
Food:	
Consumer price index	14.04, 14.05
Consumption	14.07
Food products, manufacturing industry (See also Sugar and Pineapple):	
Employees and earnings.....	12.10, 12.12, 12.21, 12.26, 15.18, 22.03
Establishments.....	12.21, 15.18
Value added	22.03
Food stamps.....	11.05
Football.....	7.57, 7.58
Foreclosures.....	21.38
Foreign investment:	
Agriculture	24.09
By country of investor	24.10, 24.11, 24.15-24.17
Hawaii affiliates.....	24.19
Hotels.....	24.08
Japanese	24.10, 24.12, 24.13
Real property.....	24.13-24.16
Type of investment	24.12, 24.14, 24.18
Foreign trade:	
Exports	17.19, 18.59, 24.01-24.05
Imports.....	17.19, 18.59, 19.13, 24.01-24.04
Foreign-Trade Zone	24.05
Forests and forest products	20.01-20.03
Fruits (See also individual products).....	19.07-19.10, 19.13
Fuel (See also individual types)	
Consumer price index	14.04, 14.05
Consumption	17.01, 17.02, 17.05, 18.18
Expenditures	17.08
Shipments.....	17.19
Taxes and tax base.....	17.17, 17.18

Subject

Table Numbers

Garment industry. See Textile and apparel industry

Gas utilities:

Consumer price index	14.04, 14.05
Consumption, production and rates	17.12-17.14, 17.16
Customers	17.12-17.14, 17.16
Sales	17.12-17.14, 17.16

Gasoline:

Consumption	18.18
Establishments	17.20
Gasoline service stations and garages	17.20, 23.05-23.07
Taxes and tax base	17.17, 17.18

Geographic data (See also Census designated places or urban places or Land and land use or Water):

Area	5.07-5.09
Channels	5.04
Distances	5.01
Earthquakes	5.18, 5.19
Elevation	5.11, 5.16, 5.34
Inland waters	5.07, 5.13, 5.14
Islands, Number of	5.08, 5.09
Latitude and longitude	5.02
Length and width	5.16
Shoreline	5.05
Volcanic craters	5.10
Volcanic eruptions	5.17
Waterfalls	5.12

Geothermal energy 17.01, 17.02, 17.05-17.07

Golfing and golf courses 7.47-7.50

Gross state product 7.28, 13.02, 13.03, 13.05, 14.01

Group quarters. See Population, Group quarters

Hansen's disease 2.20, 2.29, 9.23

Harbors 18.47, 18.48, 18.55-18.60

Hawaii Housing Authority 6.12, 21.25

Hawaii Visitors & Convention Bureau 7.30

Hawaiian Affairs, Office of 8.13

Hawaiian Home Lands, Hawaii State Department of 6.11, 6.12, 9.23

Subject	Table Numbers
Health and medical insurance.....	9.07, 11.10, 15.10, 15.12, 15.13
Health services (See also Hospitals and health care facilities):	
Consumer price index.....	14.04, 14.05
Employees and earnings.....	12.21, 12.27-12.29, 15.18
Establishments.....	2.22-2.24, 2.30, 12.21, 15.18, 23.21
Expenditures.....	2.32, 13.21, 13.22, 14.07
Health risk.....	2.21
Hospitals and health care facilities.....	2.23-2.30, 6.08
Medical payments.....	11.01-11.03, 11.10
Nursing homes.....	2.22, 2.24
Occupations.....	2.31
Sales.....	23.21
High technology.....	17.23
Highways and streets:	
Bridges and tunnels.....	18.04, 18.05
Distances.....	18.01
Government expenditures.....	9.05, 9.07, 9.09
Miles and mileage.....	18.02, 18.03
Speeds on highways.....	18.20
Traffic.....	18.19
Historic sites.....	7.38, 7.40
Homeless. See Housing	
Hospitals and health care facilities:	
Beds.....	2.22, 2.24, 2.27, 2.28, 2.30
Costs.....	2.30, 2.32
Facilities.....	2.22, 2.24, 2.30
Government expenditures.....	9.05, 9.07, 9.09
Patients admitted.....	2.23, 2.25-2.28, 2.30
Taxation.....	9.23
Hotels:	
Condominiums for visitor use.....	21.13, 23.26-23.28, 23.30
Construction.....	21.02
Employees and earnings.....	12.10, 12.12, 12.21, 12.26, 15.18, 23.24
Establishments and properties.....	12.21, 15.18, 23.20, 23.21, 23.23, 23.24, 23.26-23.29
Foreign investment.....	24.08, 24.12

Hotels (cont'd):

Land use.....	6.02
Occupancy rates	23.31, 23.32
Room rates.....	7.29, 23.30-23.32
Sales.....	23.20, 23.21, 23.23, 23.24
Taxes and tax base.....	9.03, 9.06, 9.18, 23.34
Units	23.25-23.28, 23.31

Households or families:

Average size.....	1.02, 1.14, 1.36-1.40
Budgets and expenditures.....	13.21, 13.22, 14.06, 14.07
Characteristics (Household or family type).....	1.36, 1.38
Income	1.21, 7.28, 13.09-13.16
Number of.....	1.14-1.16, 1.21, 1.36-1.40
Persons in households or families.....	1.36-1.40
Poverty level.....	1.21, 13.13, 13.19, 13.20
Tax burden.....	9.04
Television households.....	16.11, 16.12
Visitor-related income	7.28

Housing (See also Condominiums and Households):

Armed forces.....	10.14
Building permits	21.02, 21.03, 21.07
Characteristics.....	21.19-21.21
Consumer expenditures.....	13.21, 13.22
Consumer price index	14.04, 14.05
Demolitions.....	21.07
FHA insured.....	21.35
Government.....	9.07, 21.14, 21.16, 21.25
Land ownership.....	21.14, 21.16, 21.17
Loans and mortgages.....	21.34
Occupied units.....	21.14, 21.16, 21.17, 21.19, 21.20
Motor vehicles.....	18.10
Plumbing.....	21.20
Prices of homes	21.27-21.30, 21.32, 21.33
Rental costs.....	21.19, 21.20

Subject

Table Numbers

Housing (See also Condominiums and Households) (cont'd):

Sold or for sale	21.27-21.32
Taxation	9.23
Telephone.....	21.20
Tenure (owner or renter-occupied)	21.14, 21.16, 21.17, 21.19, 21.20, 21.22, 21.23
Units	1.38, 21.12-21.16, 21.18-21.22, 21.25
Vacancies	21.19, 21.23
Hunting.....	7.51, 7.52
Hurricanes and cyclones	5.42
Hydroelectric power.....	17.01, 17.02, 17.05-17.07
Illness (See also Deaths and death rates and Disease):	
Acute and chronic conditions	2.18
Occupational	12.34
Taxation.....	9.23, 9.24, 9.26, 9.27
Immigration:	
Aliens	1.45, 1.46, 1.48, 1.49
Countries.....	1.48, 1.49
Implicit price deflator	7.29, 14.01
Imports. See Foreign trade	
Income:	
Corporations	15.22-15.24
Disposable personal	13.04
Export industries	13.01
Family or household	13.09-13.17, 13.20
Farm.....	13.06
Gross state product	13.02, 13.03, 13.05
By industry	13.03
Labor	13.05, 13.06
Median	1.21, 13.09-13.14, 13.16
Nonfarm.....	13.06
Per capita	13.04, 13.05, 13.07, 13.08, 13.17
By industry.....	13.06
Percent of U.S. average.....	13.04, 13.08
Personal	13.04-13.08
Poverty.....	1.21, 13.14, 13.18-13.20

Subject

Table Numbers

Income (cont'd):

Ranking..... 13.08

Sex..... 13.09, 13.11

Unrelated individuals..... 13.09, 13.11

Indexes:

Construction cost index..... 21.08

Consumer price index..... 7.21, 7.29, 14.02-14.05

Implicit price deflator..... 7.29, 14.01

Industrial parks..... 22.08

Inflation. See Consumer price index or Implicit price deflator

Insurance (See also Finance, insurance, and real estate):

By class..... 15.10

Claims..... 15.08-15.11

Employees and earnings..... 15.02, 15.03

Establishments..... 15.02, 15.03, 15.08, 15.09, 15.11

Health and medical insurance..... 2.32, 15.10, 15.12, 15.13

Investments in Hawaii..... 15.11

Life insurance..... 15.09-15.11

Motor vehicles..... 15.10, 15.14

Premiums..... 15.08-15.11

Sales..... 15.03

Taxes..... 9.18

Interstate trade..... 18.58-18.60, 18.62, 19.13, 24.01

Investments:

Foreign investments..... 24.08-24.19

Insurance companies..... 15.11

Island:

Agriculture..... 19.13, 19.14, 19.17, 19.21

Armed forces..... 10.03

Banks..... 15.01

Boilers..... 17.21

Charities..... 11.16

Conventions..... 7.19

Education..... 3.08

Elections and elected officials..... 8.09

Island (cont'd):

Employment and labor force	12.07
Energy.....	17.07, 17.10, 17.11, 17.13, 17.14, 17.20, 17.22
Environment.....	5.27, 5.28, 5.51
Fisheries & fishing	20.08
Foreign investment	24.08
Forest.....	20.01
Geographic data	5.05, 5.08, 5.09, 5.11-5.16, 5.34
Health care	2.24, 2.25, 2.31
Housing.....	21.13
Land and land use.....	1.09, 6.05, 6.06, 6.11, 10.13, 19.21
Libraries	3.25
Population.....	1.05, 1.08, 1.09, 1.11
Postal service.....	16.02
Recreational facilities.....	7.38, 7.43, 7.45-7.47, 7.51
Shopping centers	23.08
Structures (tallest).....	21.40
Tourism.....	7.19, 7.26, 23.27, 23.30, 23.32, 23.33, 24.08
Transportation.....	18.02, 18.04, 18.22, 18.30, 18.47, 18.49, 18.50
Water use and consumption.....	5.22
Jobcounts. See Employment and labor force	
“Judicial” districts	1.10
Judiciary. See Courts	
Labor. See Employment and labor force	
Labor unions. See Unions	
Lakes	5.14
Land and land use:	
Area:	
Counties and islands.....	1.09, 5.07, 5.08
Urban and rural.....	6.03, 6.04
Land use districts	6.03, 6.04
Deeds filed.....	21.36
Ownership:	
Armed forces	6.10, 10.13
Foreign ownership	24.09, 24.14-24.16
Government.....	6.01, 6.06, 6.10-6.12

Subject

Table Numbers

Land and land use (cont'd):

Leased/owned	6.10
Hawaiian Home Lands, Hawaii State Department of	6.11, 6.12
Private/fee simple.....	6.06, 6.09, 9.25
Parcels.....	6.07
Real property assessment.....	9.21, 9.22, 9.24, 24.16
Utilization.....	6.01-6.05, 19.21
Agriculture	19.01-19.03, 19.05, 19.07, 19.08, 19.10, 19.11, 19.17, 19.21, 20.02, 22.10
Vacant.....	21.28
Value of land transfers.....	21.37
Languages spoken at home.....	1.35
Lawyers and judges.....	4.15
Legal services.....	23.21
Legislature, State (See also State government)	8.16, 8.18, 8.19
Libraries.....	3.24-3.27
Life expectancy	2.10, 2.11
Lighthouses.....	18.50
Liquefied petroleum gas	17.17, 17.18
Liquor.....	9.20, 23.12, 23.13, 23.16
Litter.....	5.30
Livestock and livestock products.....	19.01, 19.02, 19.04, 19.06, 19.09, 19.14-19.16
Loans and mortgages:	
Agreement of sale.....	21.34
Federal Housing Administration.....	21.35
Foreclosures.....	21.38
Mortgages.....	21.34
Macadamia nuts	19.07, 19.08, 19.10
Manufacturing industry (See also individual industries):	
Capital expenditures	22.01-22.04
Cost of materials.....	22.01-22.04
Employees and earnings.....	12.10-12.12, 12.21, 12.26, 15.18, 22.01-22.05
Establishments.....	12.21, 15.18, 22.01, 22.02, 22.05
Export-related employment and shipments.....	24.06, 24.07
Foreign investment	24.12, 24.18
Sales.....	22.06, 22.07

Manufacturing industry (See also individual industries) (cont'd):	
Selected industry group	22.03
Taxes and tax base.....	9.18, 22.07
Value added and value of shipments.....	22.01-22.04
Marathon running.....	7.54
Marijuana.....	4.06
Marital status of population. See Population, Marital status	
Marriages.....	2.33-2.37
Mass transit.....	9.08, 9.09, 18.26-18.28
Medicaid and Medicare	2.32, 11.10
Medical care. See Health services	
Medical payments. See Health services	
Mental health facilities.....	2.26, 2.27
Mental retardation facilities	2.28
Merchandise line sales. See Retail trade	
Migration. See Population	
Military. See Armed forces or Armed forces personnel and dependents	
Millionaires and wealthholders.....	13.23-13.25
Minimum wage rates	12.31
Mining and mineral products	20.12, 20.13
Molasses	22.10, 22.12
Morbidity. See Deaths and death rates	
Mortgages. See Loans and mortgages	
Motion pictures.....	23.36, 23.37
Motor vehicles. (See also Highways and streets):	
Accidents/deaths.....	2.13-2.15
Carriers	18.25
Cost of operating.....	18.17
Dealers	23.05-23.07
Drivers licenses.....	18.15, 18.16
Fuel consumption	18.18
Insurance.....	15.10, 15.14
New vehicles and sale.....	18.12-18.14
Registration.....	18.06-18.09, 18.12-18.14
Rental and leasing.....	18.14, 18.23, 18.24

Subject

Table Numbers

Motor vehicles. (See also Highways and streets) (cont'd):

Taxes	9.03
Theft	4.01, 4.03, 4.07, 4.11, 4.12
Vehicle miles	18.18
Motorcycles and motor scooters.....	18.06, 18.08
Mountains, altitude, and elevation	5.11
Multiple Listing Service listings. See Real property	
Museums and art galleries	7.35
Names, most common	2.08, 2.09
National Guard.....	10.09
Natural disasters.....	5.17-5.20, 5.42
Natural gas.....	17.02
Naturalization. See Citizenship	
Neighborhood/Neighborhood Boards	1.14
Newspapers and periodicals.....	16.01, 16.13-16.15
Nurses.....	2.31, 12.28, 12.29
Nursing homes	2.22, 2.25
Occupational injuries, deaths, and illnesses	12.34, 12.35
Occupations	12.13, 12.16
Office buildings	21.24
Parks.....	7.37-7.39, 7.43, 7.44
Partnerships	15.20-15.22
Passports issued	7.32
Patents issued.....	17.27
Pay rates. See Earnings	
Performing arts	7.33-7.34
Personal income. See Income - Personal	
Pesticides and herbicides	19.24
Petroleum and petroleum products (See also individual products):	
Consumption	17.01, 17.02, 17.05, 18.18
Electricity generation.....	17.06, 17.07
Liquefied petroleum gas.....	17.16, 17.17
Sales.....	22.06
Shipments.....	17.19
Taxes and tax base.....	17.17, 22.07
Wholesale trade	23.16

Subject	Table Numbers
Pets.....	7.61
Pharmacists.....	2.31
Physicians and surgeons.....	2.31
Piers.....	18.49
Pilots, flight instructors, and nonpilot airmen.....	18.36
Pineapple industry:	
Acreage.....	19.01, 19.07, 19.08
Employees and earnings.....	12.10
Establishments and farms.....	19.01, 19.07, 19.08, 22.09
Fresh pineapple industry.....	22.12
Processed pineapple industry.....	22.06, 22.08
Production volume.....	19.01, 19.07, 19.08
Sales.....	19.04, 19.06-19.08, 22.12
Taxes and tax base.....	9.18
Place of work. See Employment and labor force	
Police department. See Public safety	
Political parties.....	8.06-8.08, 8.11, 8.14, 8.16, 8.17
Population (See also Vital statistics):	
Age.....	1.02, 1.21, 1.23-1.26
Ancestry.....	1.32
Armed forces personnel and dependents. See Armed forces personnel and dependents	
Centers.....	1.19
Characteristics of intended residents.....	1.46
Citizenship.....	1.34, 1.49
Components of change.....	1.44, 1.45
De facto.....	1.04, 1.07-1.09, 1.17, 1.22
Density.....	1.09
Disabled persons.....	2.17, 2.18, 2.27, 11.11
Ethnic origin and race:	
Ancestry.....	1.32
By ethnic stock.....	1.28-1.30
Hispanic origin.....	1.26, 1.30, 1.33
Labor force.....	12.05
Life expectancy.....	2.11
Native Hawaiian	
Place of residence.....	1.31

Subject	Table Numbers
Population (See also Vital statistics) (cont'd):	
Geographical location:	
Census designated places	1.11
Census tracts.....	1.15, 1.16
Counties or islands.....	1.01, 1.05-1.11, 1.15, 1.16, 1.18, 1.26, 1.28, 1.45
“Judicial” districts	1.10, 1.15, 1.16
Neighborhoods/Oahu	1.14
Group quarters	1.36, 1.37, 1.41
Households and/or families. See Households or families	
Language spoken.....	1.35
Marital status.....	1.42, 1.43
Migration	1.21, 1.44-1.48, 1.50, 3.22, 7.05, 12.33
Military status. See Armed forces personnel and dependents	
Mobility. See Population, Migration	
Nativity	1.48
Post-enumeration survey.....	1.12
Poverty status population	1.21, 13.18, 13.19
Projections	1.22, 1.23
Ranking.....	1.13
Residence:	
Five years earlier.....	1.21, 1.50
Residents absent.....	1.04, 1.17
Sex.....	1.02, 1.23-1.26
Urban and rural	1.02, 1.18
Postal service	16.02, 16.03, 16.14
Poultry and poultry products. See Livestock and livestock products	
Poverty guidelines.....	13.20
Poverty income and status. See Income, poverty	
Prices and rates. See Indexes and prices and rates under individual subjects	
Printing and publishing industries.....	12.10, 12.12, 16.01, 16.13-16.15, 22.03, 22.04
Prisons and prisoners.....	4.20, 4.21
Projections	1.22, 1.23, 13.05
Property tax. See Taxation	
Proprietorships.....	15.20, 15.22
Psychiatric facilities. See Mental health facilities	
Public assistance. See Welfare services	

Subject	Table Numbers
Public safety:	
Expenditures	9.05-9.07, 9.09
Police protection	4.14
Quality of life index rankings	11.17
Race. See Population, Ethnic origin and race	
Radio stations	16.10
Railroads.....	18.29
Rankings:	
Business	15.26
Cost of living.....	14.08
Crime and criminals.....	4.13
Economic development.....	5.24
Employment and labor force.....	12.25
Environment.....	5.24, 5.25
Federal expenditures.....	9.30
Foreign investment	24.13
Health care	15.13
Income	13.08
Insurance.....	15.13, 15.14
Population.....	1.13
Quality of life index rankings	11.17
Real property.....	9.26
Transportation.....	15.14, 18.17, 18.31
Real estate business (See also Finance, insurance and real estate).....	15.02, 15.03, 21.26
Real property (See also Housing and Land and land use):	
Housing. See Housing as a separate heading	
Multiple Listing Service.....	21.27-21.32
Type of property.....	21.28
Office buildings	21.24
Real property taxes. See Taxation	
Recreation (See also individual sports):	
Attendance or visits.....	7.33-7.39, 7.41, 7.44, 7.48, 7.57-7.60
Beaches.....	7.44, 7.45
Consumer expenditures.....	13.21, 13.22
Consumer price index.....	14.04, 14.05

Subject	Table Numbers
Recreation (See also individual sports) (cont'd):	
Cultural attractions and the performing arts	7.33-7.35
Ocean recreation.....	7.44, 7.45, 7.56
Parks.....	7.37-7.39, 7.43, 7.44
Sports.....	7.45-7.60
Refugees. See Immigration	
Refuse. See Solid waste	
Religion. (See also Churches).....	9.23
Rent. See Housing and housing units	
Rental tax base.....	9.18, 23.34
Research and development expenditures.....	17.24-17.26
Reservoirs.....	5.14
Restaurants. See Eating and drinking places	
Retail trade (See also individual industries):	
Department stores	23.06, 23.07
Duty Free Stores	23.11
Employees and earnings.....	12.10-12.12, 12.21, 12.26, 15.18, 23.03, 23.04, 23.06
Establishments.....	12.21, 15.18, 23.02-23.06, 23.10, 23.13
Foreign investment	24.12
Sales.....	23.02-23.05, 23.07
By merchandise line	23.13
Shopping centers	23.08, 23.09
Taxes and tax base.....	9.18, 23.01
Type of store.....	23.05-23.07
Retirement system.....	9.07, 9.09, 9.34, 11.12
Rivers. See Streams	
Salaries. See Earnings and individual industries	
Savings and loan associations	15.01, 15.02, 15.05
Schools. See Education	
Service industries (See also individual industries):	
Employees and earnings.....	12.10-12.12, 12.21, 23.19
Establishments.....	23.18-23.21
Sales.....	23.18-23.21
Taxes and tax base.....	9.18, 23.01
Type of industries.....	23.21

Subject

Table Numbers

Sewage and sewage treatment plants	5.29
Shopping centers	23.08, 23.09
Shoreline	5.05
Social Security	11.06-11.09
Solar energy	17.05-17.07
Solid waste	5.29, 17.05-17.07
Sports. See Recreation and individual sports	
State government (See also Elections or Public safety or Taxation):	
Aid to counties	9.07, 9.08
Bonded debt	9.32, 9.33
Capital improvements expenditures	9.07
Courts	4.15, 4.18, 4.19
Debt service	9.07
Employees and earnings	9.07, 9.34-9.40, 12.10, 12.12, 12.21, 12.23
Expenditures	9.05, 9.07
Federal support	3.12, 3.23, 9.06, 9.29-9.30, 11.03, 11.10, 17.24, 17.26
Land and land use	6.05, 6.06, 6.11, 6.12
Legislature	8.16, 8.18
Retirement system	9.07, 9.34, 11.12
Tax collections	9.01, 9.03, 9.06, 9.14, 9.16-9.20
Streams	5.13
Streets. See Highways and streets	
Strikes and lockouts (work stoppages)	12.40, 12.41
Structures (tallest)	21.40
Sugar industry:	
Acreage	19.01, 19.07, 19.08, 19.11, 22.10
Employees and earnings	12.10, 22.11
Establishments and farms	19.01, 19.07, 19.08, 22.09
Irrigation	19.11
Plantation energy	17.22
Price	22.11
Processed sugar industry	22.03, 22.04, 22.06, 22.09, 22.10
Production volume	19.01, 19.07, 19.08, 22.10
Sales	19.04, 19.06-19.08, 22.12
Taxes and tax base	9.18, 9.19

Subject	Table Numbers
Suicides.....	2.13
Symphony orchestra.....	7.34
Swimming or surfing	7.44, 7.45
Taro.....	9.23, 19.07, 19.08, 19.10
Taxation (See also individual sources):	
Adjusted gross income on tax returns	9.10, 9.11, 9.14, 9.16, 9.17
Collections by source.....	9.02, 9.03, 9.05, 9.06, 9.18
Corporate income tax	9.02, 9.03, 9.05, 9.06
County taxes	9.01, 9.03, 9.08, 9.21-9.27
Exemptions	9.10, 9.22, 9.23
Federal taxes	9.01, 9.02, 9.10-9.13
General excise and use tax.....	9.03, 9.06, 9.18, 19.23, 21.04, 22.07, 23.01, 23.34
Hotel.....	9.03, 9.06, 9.18, 23.34
Income group	9.04, 9.11, 9.16, 9.17
Individual income tax.....	9.02, 9.03, 9.05, 9.06, 9.10-9.17
Liquid fuel tax	9.03, 17.17, 17.18
Liquor and tobacco tax.....	9.19, 9.20
Motion picture production.....	23.37
Real property tax.....	9.03, 9.08, 9.21-9.27
State taxes.....	9.01, 9.03, 9.06, 9.14
Tax burden	9.04
Tax returns filed	9.10-9.14, 9.16, 9.17
Unemployment	9.02, 9.03, 9.06
Visitor related.....	7.28
Taxicabs.....	18.22
Teachers. See Education	
Telegraph service	16.01
Telephone and telephone service	16.01, 16.04-16.08
Telescopes	17.28
Television and television stations.....	16.09-16.11
Temperature, climatic. See Climate	
Tennis.....	7.46
Textile and apparel industry.....	12.10, 12.12, 15.18, 22.03, 23.05-23.07, 23.13, 23.16
Theaters and theater groups	7.33, 9.18
Time differences.....	5.03
Timeshare properties. See Condominiums	

Subject	Table Numbers
Tobacco and tobacco products	9.19
Tour bus operations	18.25, 23.22
Tourism:	
Attractions	7.35-7.42
Characteristics of visitors.....	7.01, 7.03, 7.11, 7.13, 7.14, 7.17, 7.23
Conventions	7.18, 7.19, 7.23
Economic activity generated	7.28
Expenditures:	
Japanese	7.16, 7.20, 7.22, 7.23, 7.25
Per visitor day.....	7.20-7.23
Hawaii residents	7.01-7.03, 7.05, 7.31
Passenger or visitor arrivals:	
Average visitor census	7.06, 7.09
Origin of visitors:	
By direction of travel:	
Eastbound	7.04-7.11, 7.13-7.16
Westbound	7.04-7.15
Prices	7.29
Timeshare projects. See Condominiums, Timeshare properties	
Travel agencies.....	23.22
Visitor days	7.08, 7.15
Visitor parties.....	7.14
Trade. See Interstate trade, Foreign trade, Retail trade, or Wholesale trade	
Traffic.....	18.19
Traffic accidents.....	18.21
Trailers.....	18.06, 18.08
Transportation (See also individual modes):	
Arrangement of passenger transportation.....	23.22
Commuting.....	12.03
Consumer expenditures.....	13.21, 13.22, 15.14
Consumer price index	14.04, 14.05, 14.07
Employees and earnings.....	12.10-12.12, 12.21, 15.18, 23.22
Energy consumption.....	17.03
Establishments.....	12.21, 15.18, 23.22
Mass transit.....	9.08, 9.09, 18.26-18.28
Sales.....	23.22

Subject	Table Numbers
Travel. See Tourism	
Travel agencies and tour operators	23.22
Trees (See also Forests and forestry products).....	5.49
Triathlon races	7.55
Trucks.....	18.06, 18.08, 18.11-18.14
Trust companies.....	15.01, 15.05
Tsunamis (seismic sea waves).....	5.20
Tunnels, highway	18.05
Undocumented vessels	18.51, 18.52
Unemployment	12.01-12.04, 12.06-12.08
Characteristics	12.08
Rate	12.01, 12.02, 12.04, 12.06-12.08
Unemployment insurance.....	11.14, 12.08
Unions	9.38, 9.39, 12.30, 12.36-12.40
University of Hawaii. See Education, University of Hawaii	
Utilities (See also Electricity or Gas utilities):	
Consumer expenditures.....	13.21, 13.22
Consumption	17.01-17.05, 17.09-17.16
Customers	17.09-17.16
Employees and earnings.....	12.10-12.12, 12.21
Establishments.....	12.21, 18.61
Rates	16.07, 17.09-17.15
Sales.....	16.08, 17.09-17.16, 18.61
Government expenditures	9.05, 9.07
Taxation	9.23
Water consumption.....	5.22, 5.23
Vacancy rates. See Housing or Office buildings	
Vegetables and melons	19.07-19.09, 19.13
Veterans and retired military. See Armed forces	
Video. See Television and television stations	
Visitors and visitor industry. See Tourism	
Vital statistics (See also Births and birth rates and Deaths and death rates):	
Births	1.44, 1.45, 2.01-2.08
Deaths and death rates.....	1.43, 1.44, 2.01-2.04, 2.09, 2.12-2.16, 12.35, 15.15, 18.21
Life expectancy	2.10, 2.11
Marriages and divorces.....	2.33-2.37

Subject	Table Numbers
Volcanic eruptions	5.17
Voters and voting (See also Elections):	
Characteristics of voters	8.03-8.05, 8.10, 8.13
Voter registration	8.03-8.05, 8.09, 8.10, 8.13
Votes cast	8.02-8.09, 8.11-8.13, 8.15
Voting age population	8.02, 8.10
Wages and salaries. See Earnings	
Waikiki	1.17
Water (See also Geographic data):	
Area, inland water	5.07, 5.13, 5.14
Dams	5.21
Recreation	7.44, 7.45, 7.52, 7.56
Pollution	5.26
Safety	7.44
Temperature	5.43, 5.44
Use and consumption	5.22, 5.23
Water quality	5.27, 5.28
Water transportation:	
Accidents	18.54
Boat and ship registration	18.51-18.53
Cargo and freight	18.56, 18.58-18.60
Employees and earnings	18.61
Establishments	18.61
Harbors	18.47, 18.48, 18.55-18.60
Moorages and lanes	18.49
Passengers	18.57
Sales	18.61
Ship arrivals	18.55, 18.56
Waterfalls	5.12
Wealth. See Millionaires and Wealthholders	
Welfare services (See also individual programs):	
Expenditures	9.05, 9.07-9.09
Payments and recipients	11.01-11.05, 11.10
Wholesale trade (See also individual industries):	
Business failures	15.29
Employees and earnings	12.10-12.12, 12.21, 12.26, 15.18, 23.15

Subject	Table Numbers
Wholesale trade (See also individual industries) (cont'd):	
Establishments.....	12.21, 15.18, 23.14-23.17
Sales.....	23.14-23.17
Taxes and tax base.....	9.18, 23.01
Type of business.....	23.16
Wind. See Climate	
Wine. See Liquor	
Work stoppages. See Strikes and lockouts	
Workers' compensation program.....	12.34, 12.35
Yacht racing.....	7.56
Zoos	7.41

ON-LINE AVAILABILITY OF DATA BOOK TABLES TO THE PUBLIC

Since 1988, the Hawaii State Department of Business, Economic Development & Tourism has had the *State of Hawaii Data Book* available on line to anyone with a personal computer and a modem through an electronic bulletin board system. Since last year, the *Data Book* and other DBEDT publications and information have been made available over the Internet at <http://www.hawaii.gov/dbedt/>. Updated *Data Book* tables will also be accessible throughout the year on our DBEDT web site.

For further information about available data and sources, users should call the Research and Economic Analysis Division's Business Resource Center Library at (808) 586-2424.



DBEDT

THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

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

P.O. Box 2359 • Honolulu, Hawaii 96804
Walk in address: 250 South Hotel Street, 4th Floor