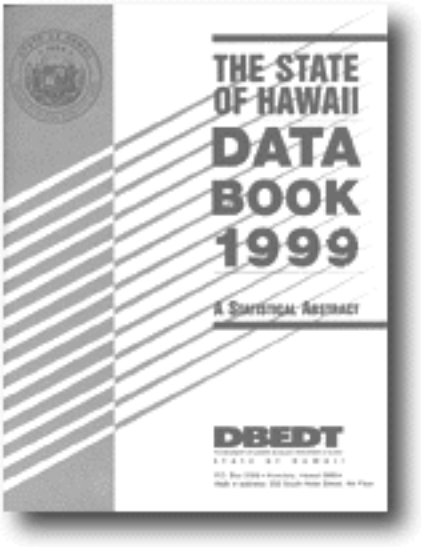
1999
State of Hawaii Data Book



CONTENTS

Introduction

Maps

1. Population
2. Health
3. Education
4. Law Enforcement, Courts, and Prisons
5. Geography and Environment
6. Land Use and Ownership
7. Recreation and Travel
8. Elections
9. Government Finances and Employment
10. National Defense
11. Social Insurance and Human Services
12. Labor Force, Employment, and Earnings
13. Income, Expenditures, and Wealth
14. Prices
15. Banking, Insurance, and Business Enterprise
16. Communications
17. Energy and Science
18. Transportation
19. Agriculture
20. Forests, Fisheries, and Mining

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, Michelle Fernandez, Toni Freitas, Iris Mishima, and Susan Yanos. The Index was prepared by the staff of the Business Resource Center Library. Stewart A. Wastell, illustrator, drew the district and neighborhood maps.

The report is only available on the Internet site, http://www.hawaii.gov/dbedt.

ABOUT THIS EDITION

The Department of Business, Economic Development & Tourism is pleased to present the 1999 edition of the State of Hawaii Data Book, the official summary of statistics on the social, economic, and political organization of our state.

This edition, the 32nd 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.

21. Construction and Housing
22. Manufactures
23. Domestic Trade and Services
24. Foreign and Interstate Commerce

Index A - E

Index F - M

Index N - Z

Bibliography

Statistics & Publications

DBEDT Home Page

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.

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Census Bureau 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 l950. 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 (...). The symbol (X) is used when data are not applicable.

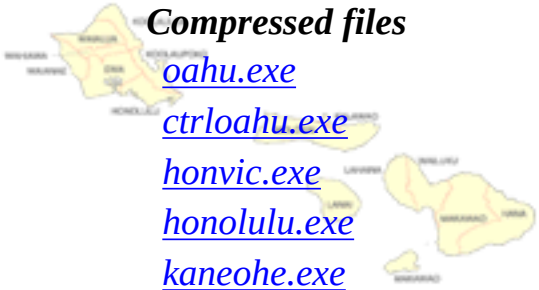
In many tables, details will not add exactly to the totals and subtotals shown because of rounding.

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.

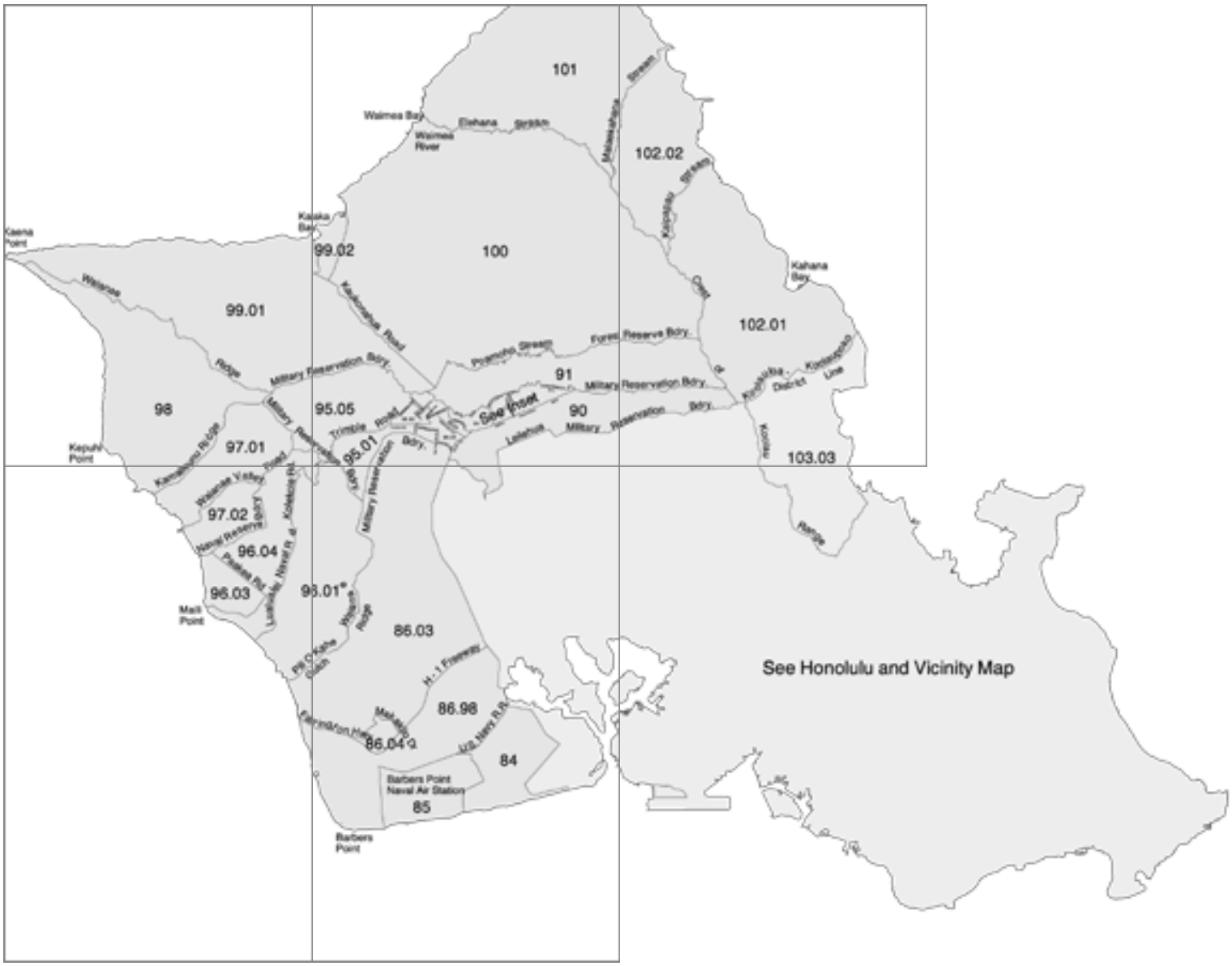
The source of a table may include an address to an internet webpage. Should the link be invalid, please try the upper levels of the address.

Maps

Census Tract Maps	***Compressed files***
Island of Oahu	*oahu.exe*
Central Oahu	*ctrloahu.exe*
Honolulu & Vicinity	*honvic.exe*
Honolulu	*honolulu.exe*
Kaneohe	*kaneohe.exe*
Island of Hawaii	*hawct.exe*
Kauai	*kauaict.exe*
Maui	*mauict.exe*
Molokai & Lanai	*molct.exe*
Judicial District Maps	***Compressed files***
Oahu	*jdoahu.exe*
Island of Hawaii	*jdhi.exe*
Maui County	*jdmaui.exe*
Kauai County	*jdkauai.exe*
Neighborhood Boards	***Compressed files***
Island of Oahu	*nboard.exe*



Click on a section to view an enlarged map.



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Back

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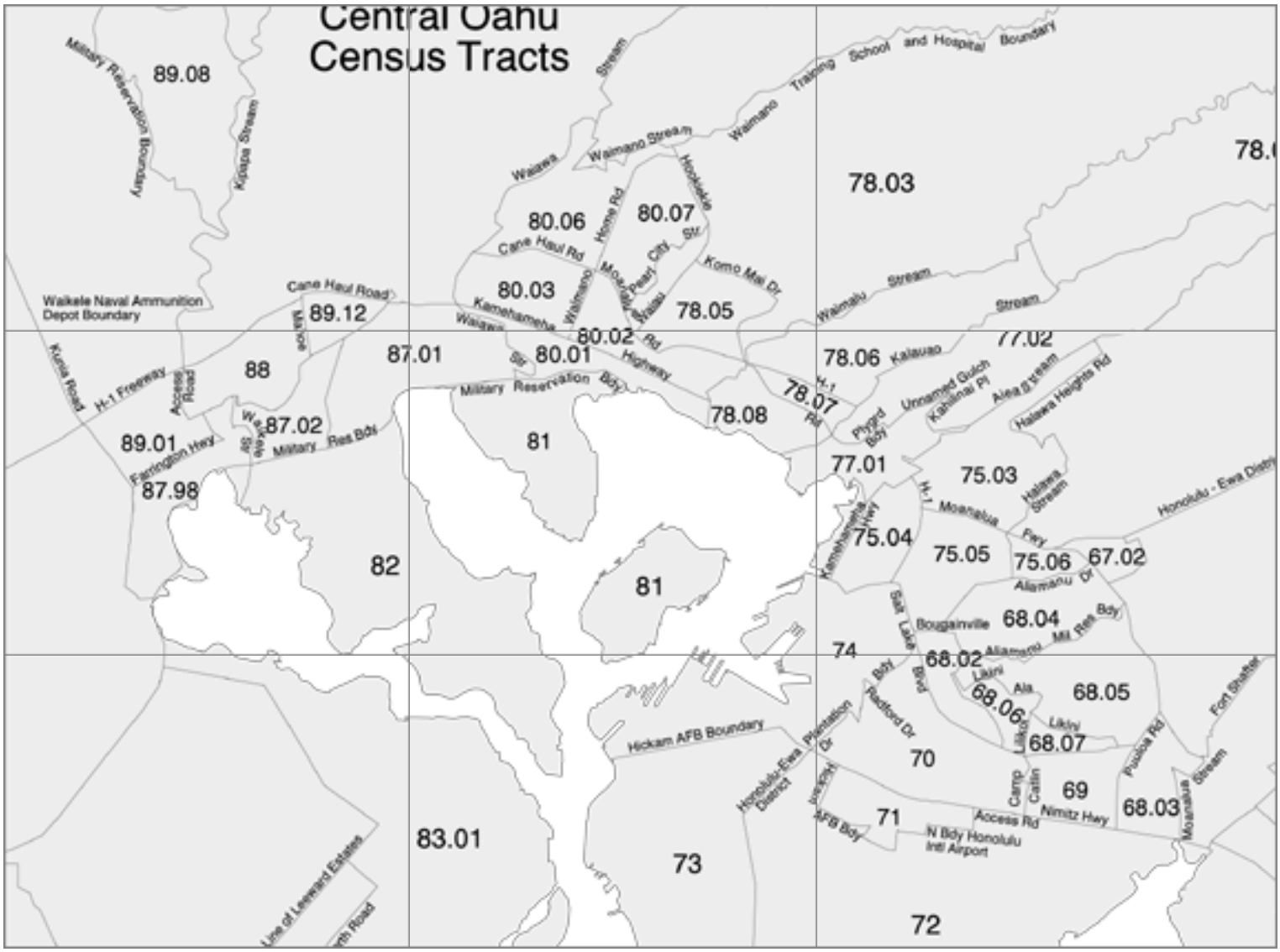

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Back

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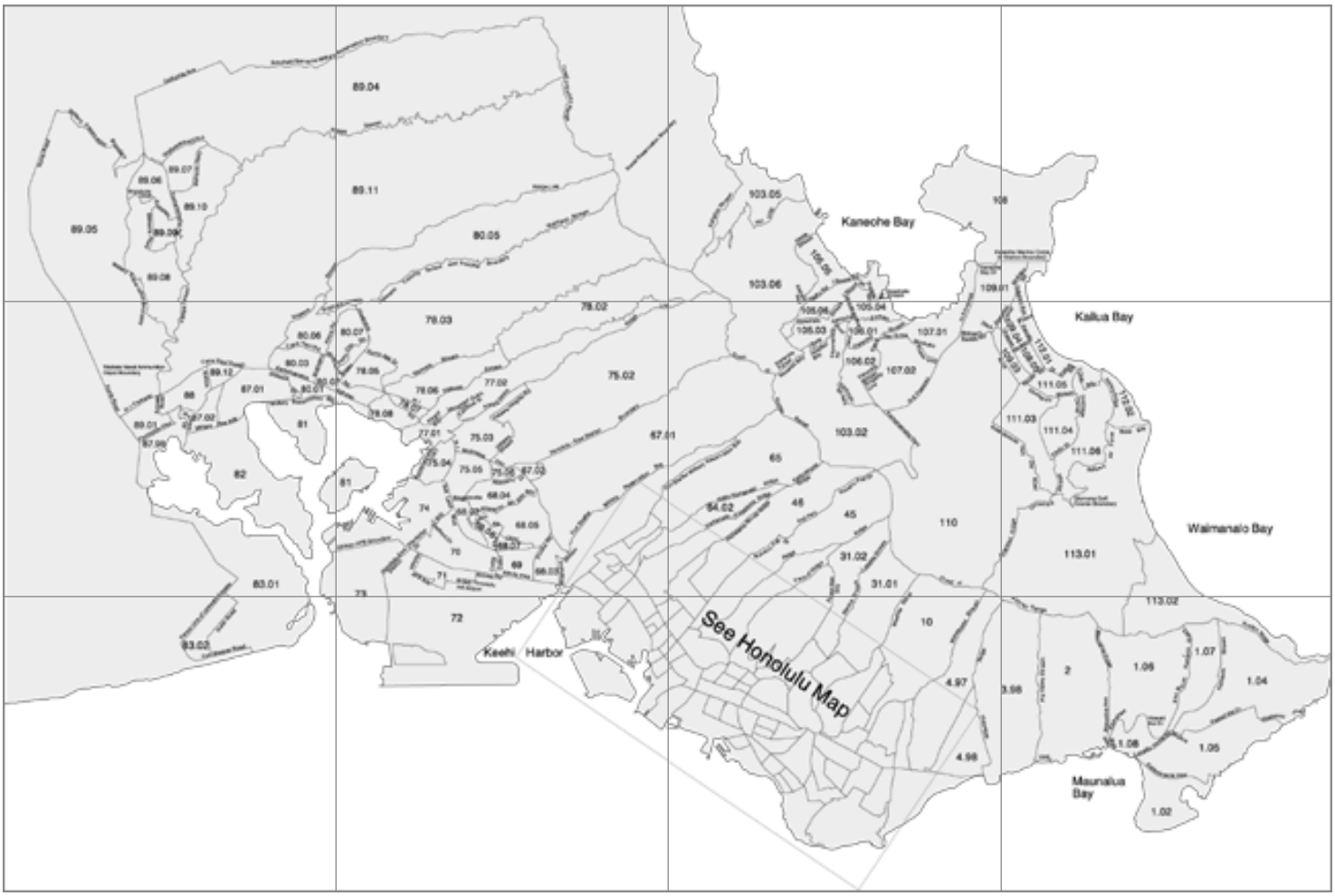

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Back

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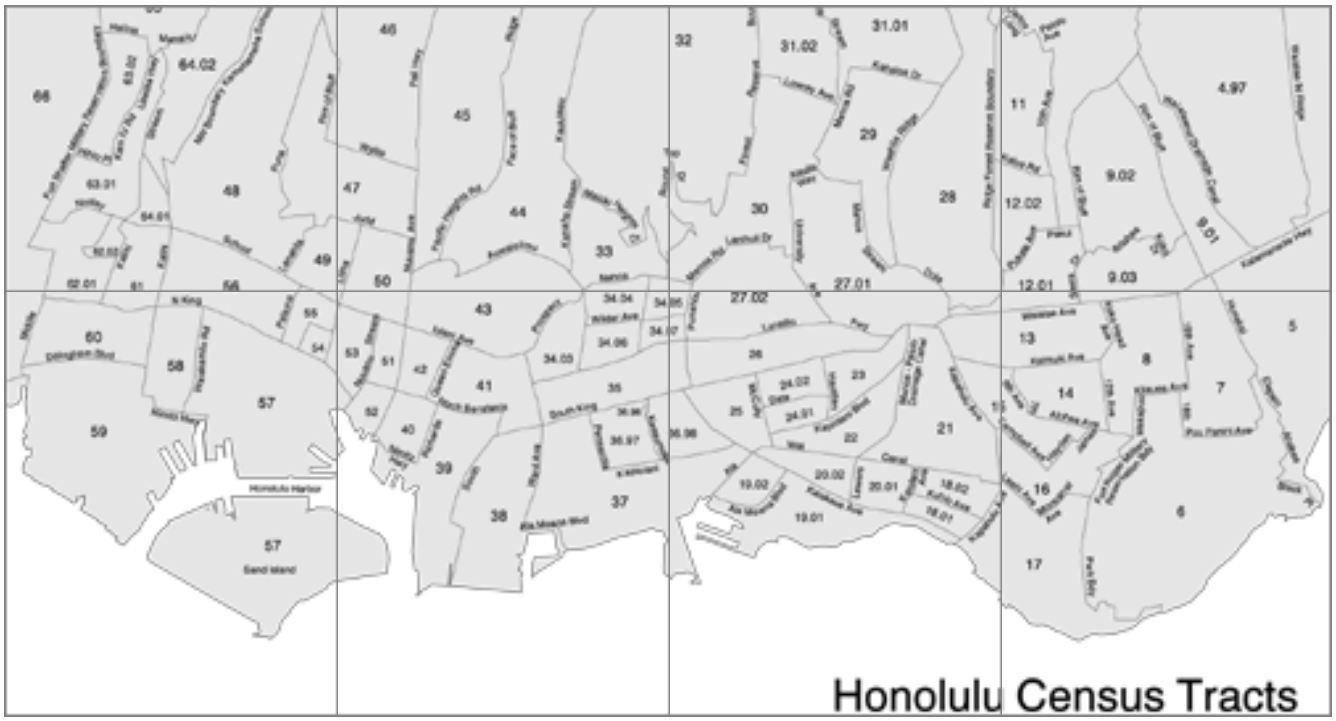

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Back

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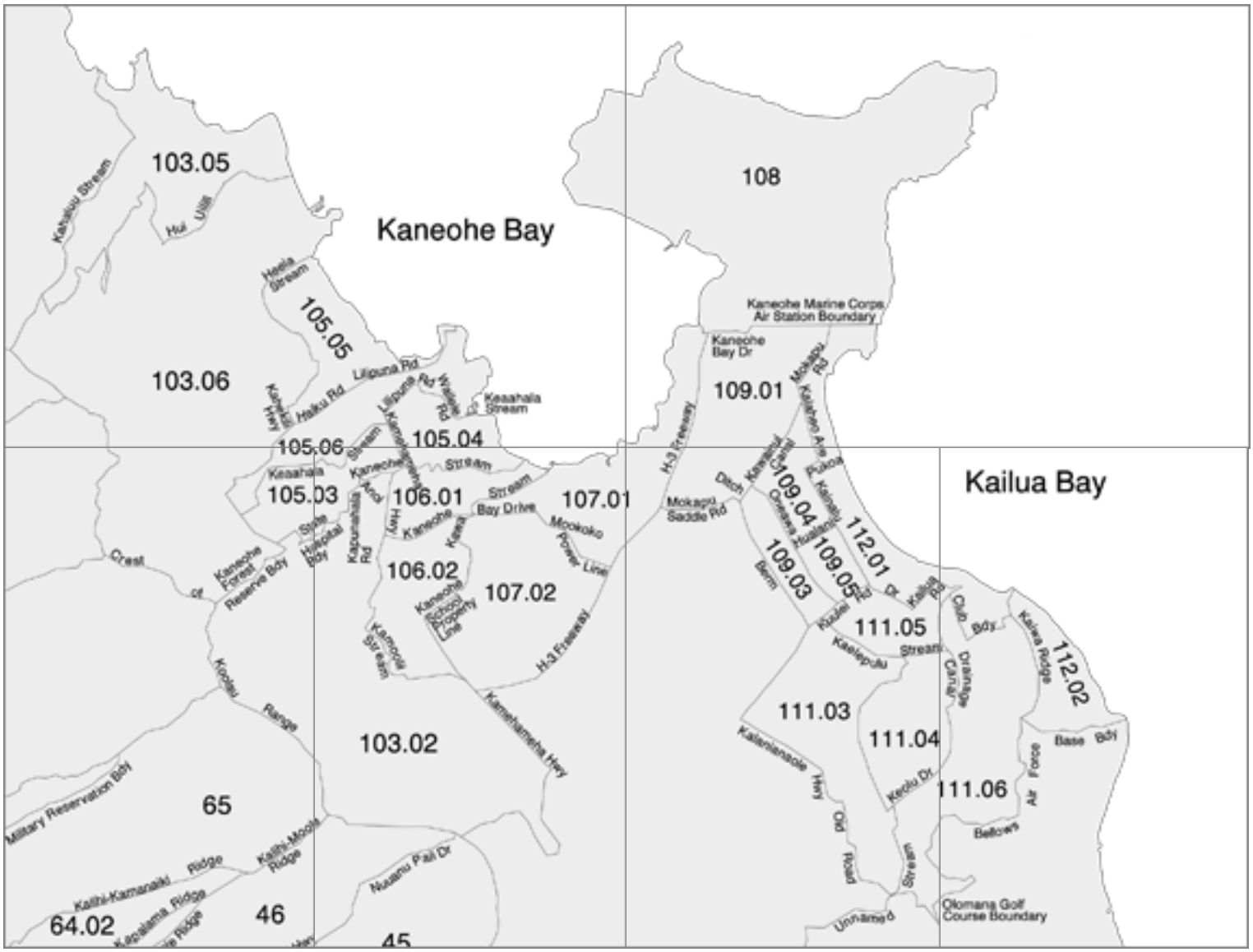

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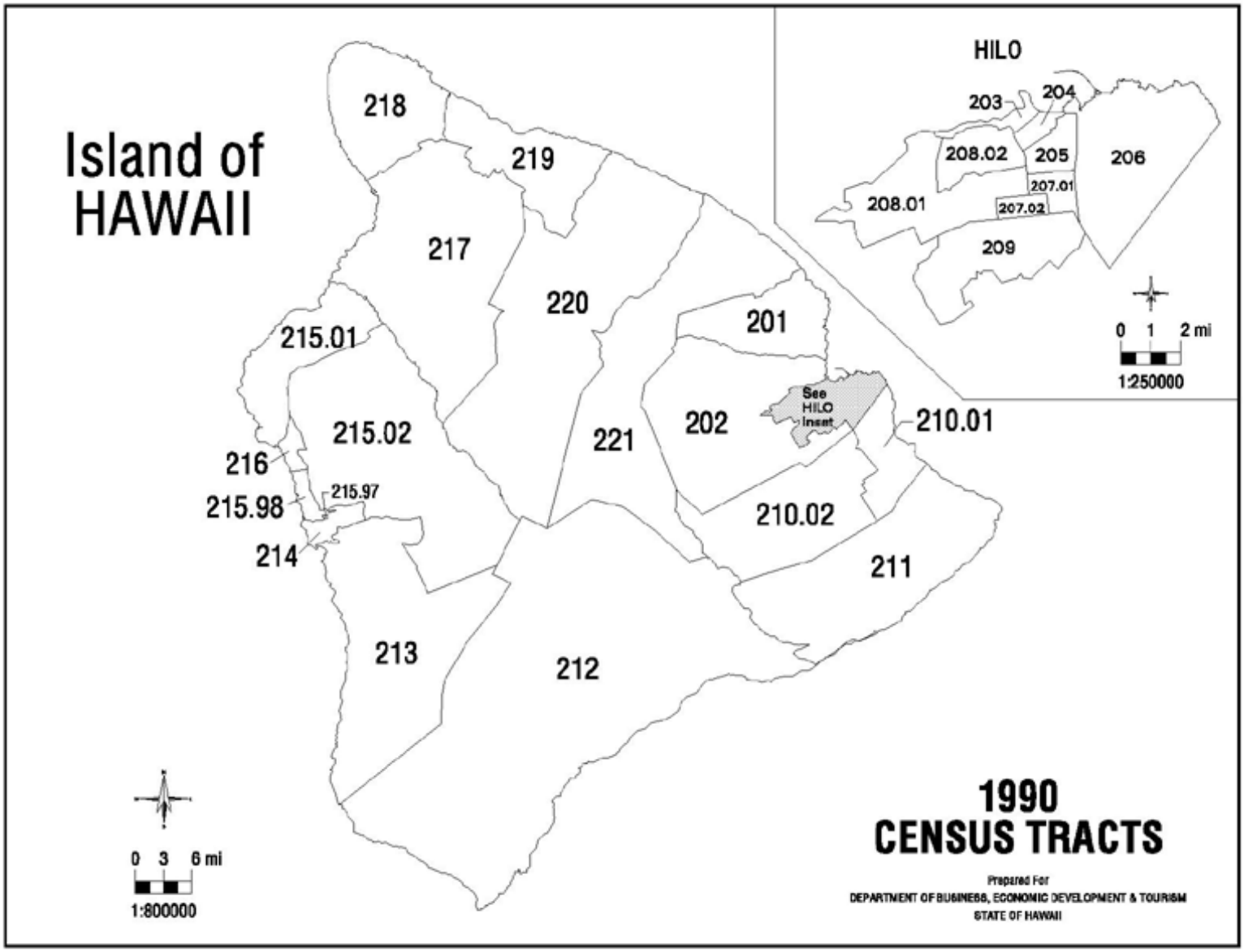
Back


Island of HAWAII
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207.02
209
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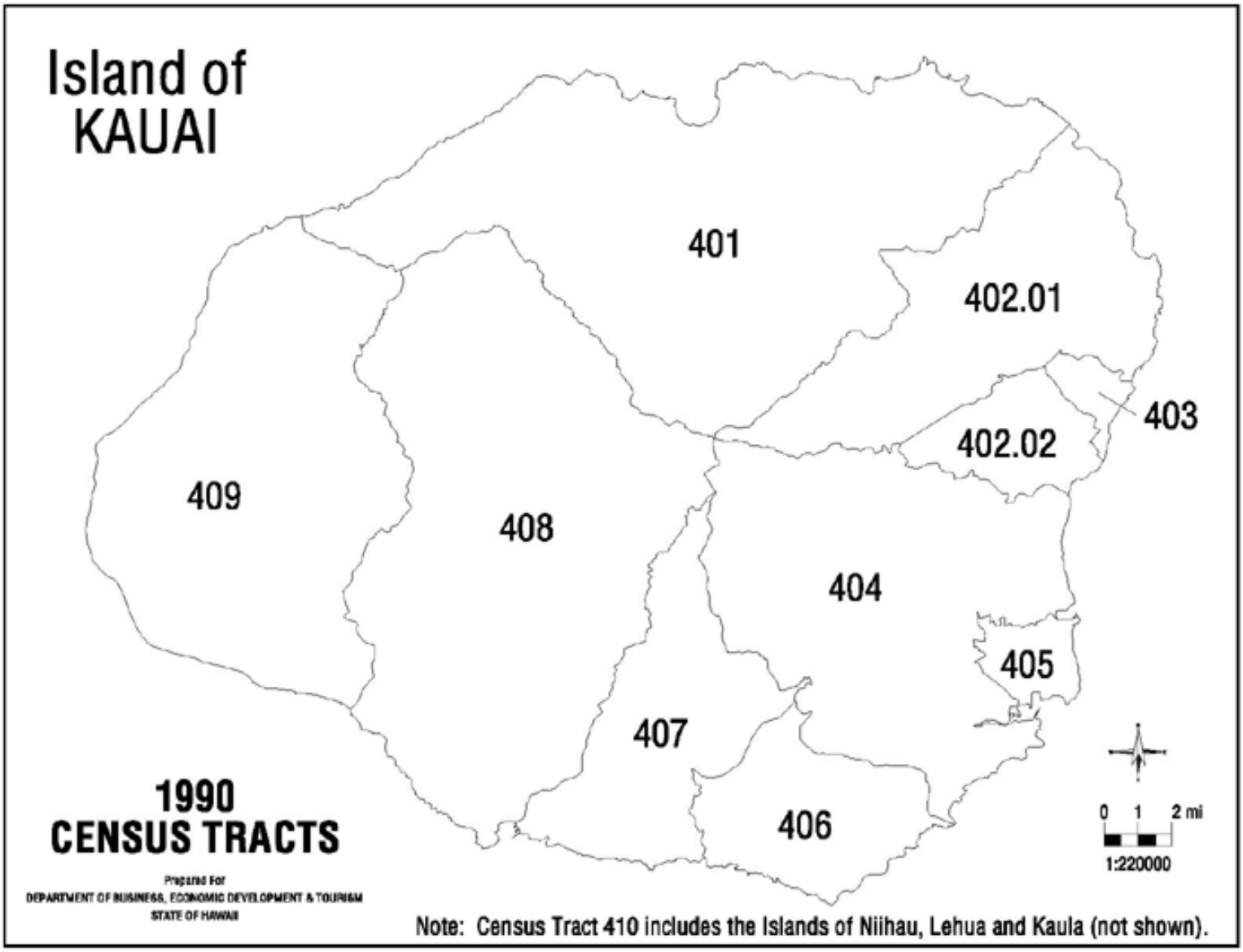
CENSUS TRACTS
Prepared For
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
STATE OF HAWAII

Back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1990
CENSUS TRACTS
Prepared For
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
STATE OF HAWAII
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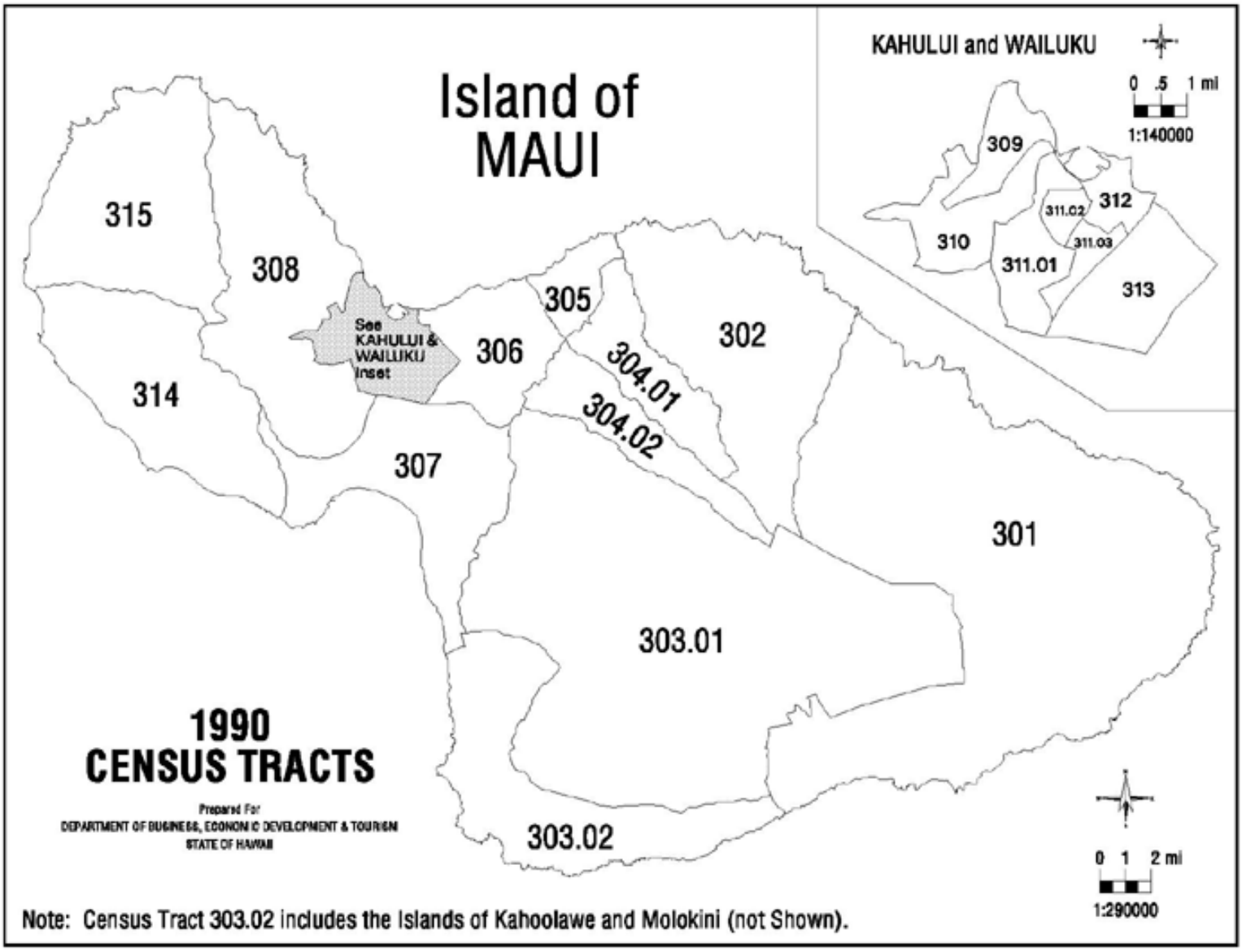
Note: Census Tract 410 includes the Islands of Niihau, Lehua and Kaula (not shown).

Back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CENSUS TRACTS
Prepared For
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
STATE OF HAWAII
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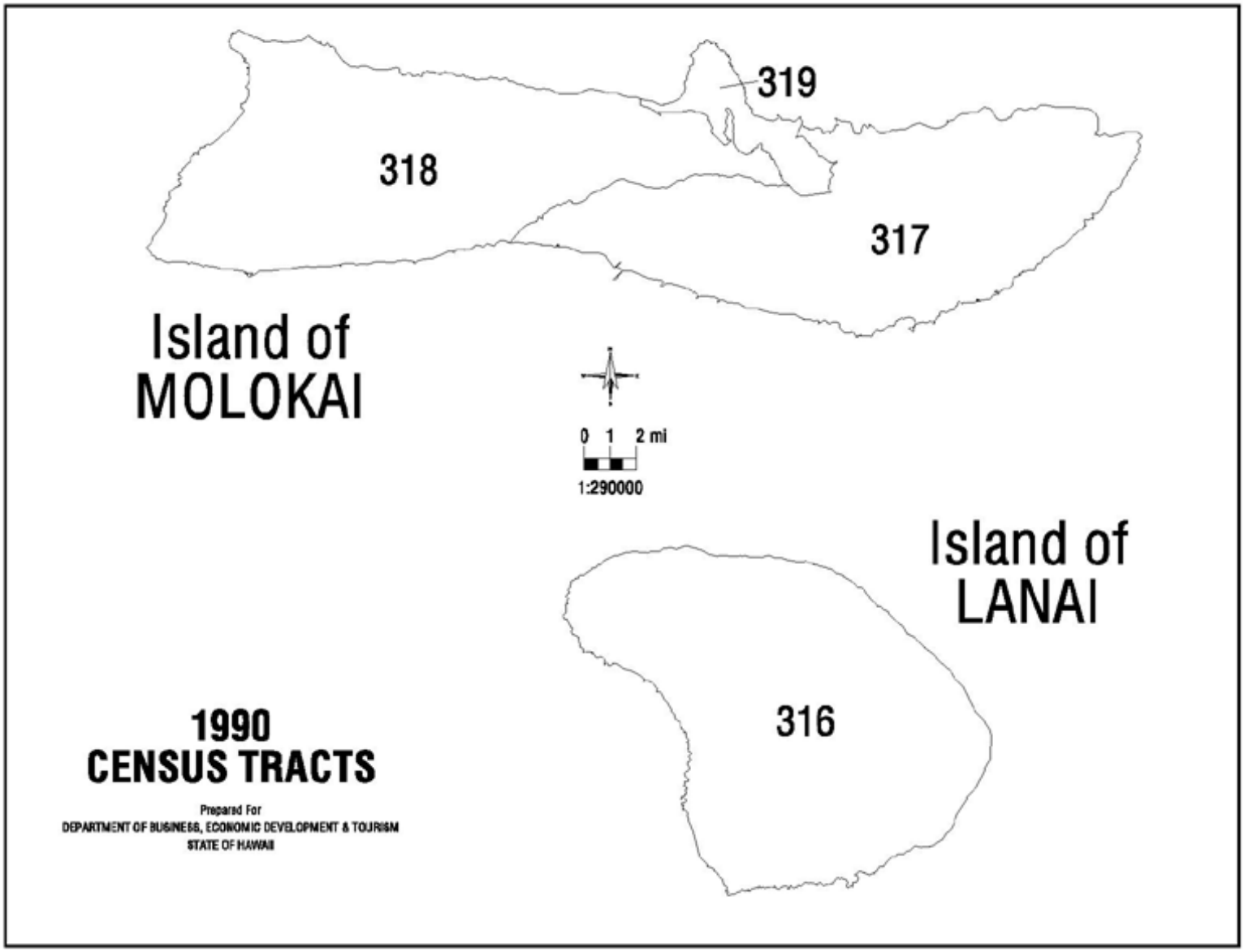
Note: Census Tract 303.02 includes the Islands of Kahoolawe and Molokini (not Shown).

[Back](#)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Island of
MOLOKAI
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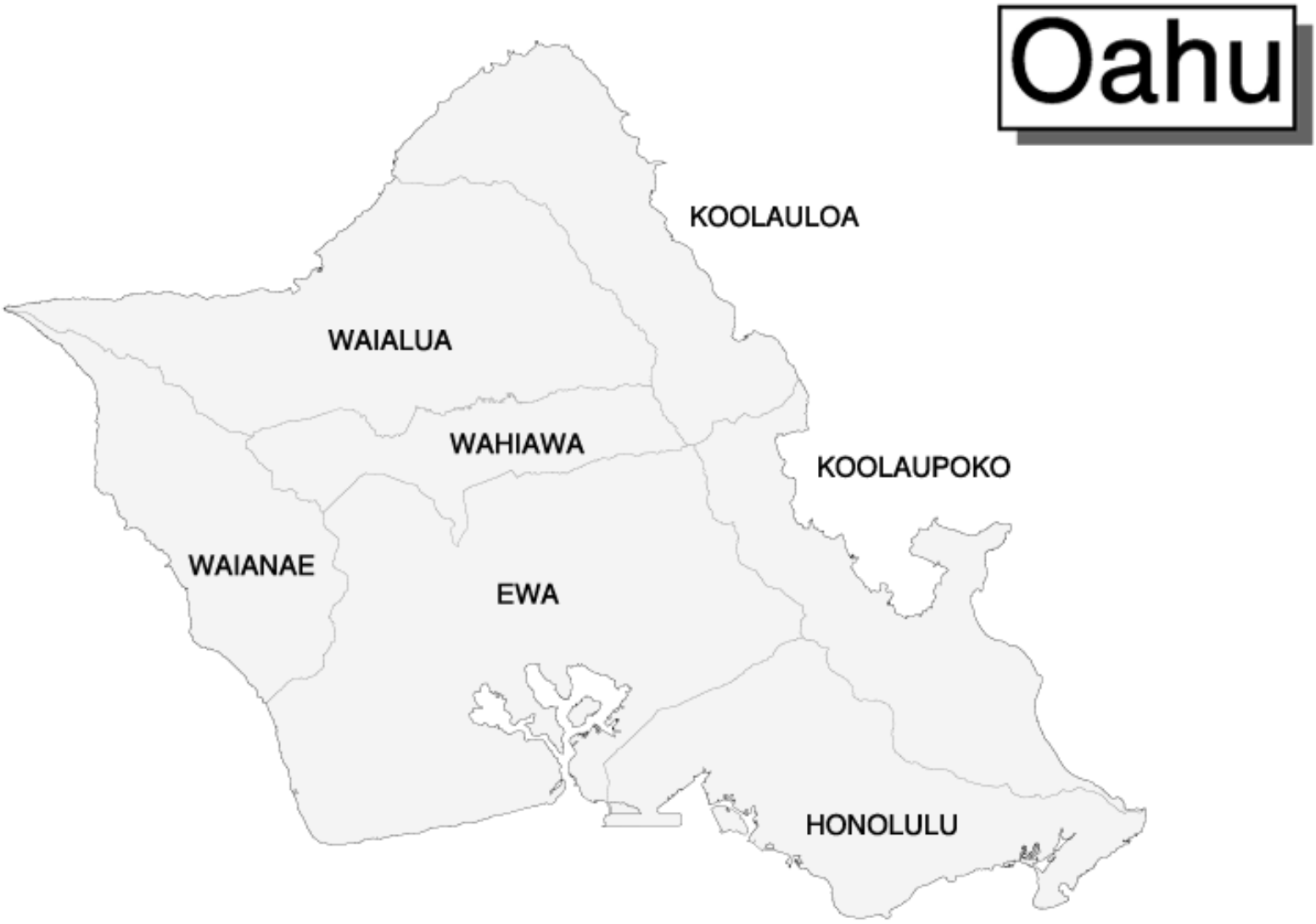
LANAI
316
1990
CENSUS TRACTS
Prepared For
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
STATE OF HAWAII

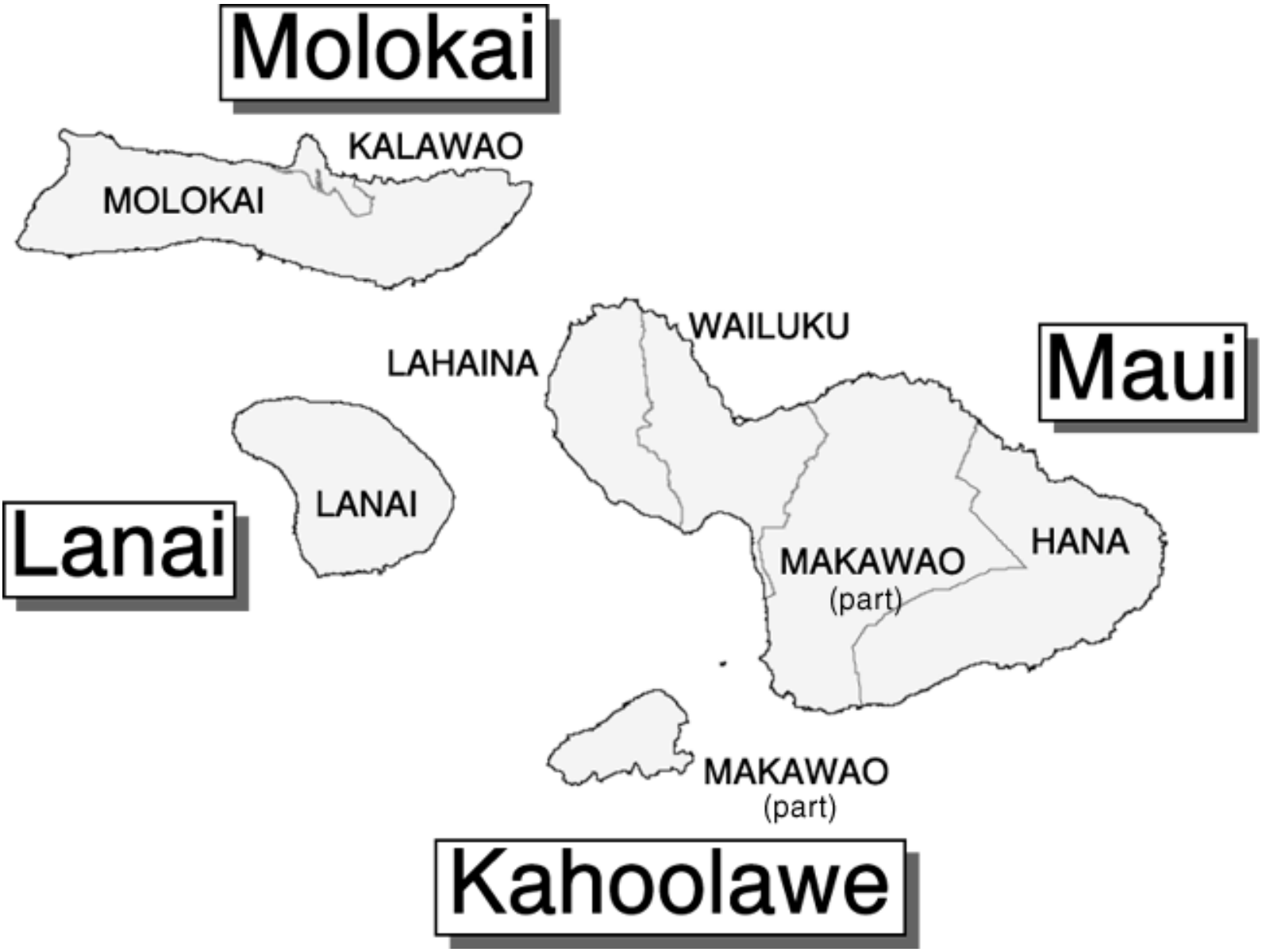
Back


Oahu
KOOLAULOA
WAIALUA
WAHIAWA
KOOLAUPOKO
WAIANAE
EWA
HONOLULU

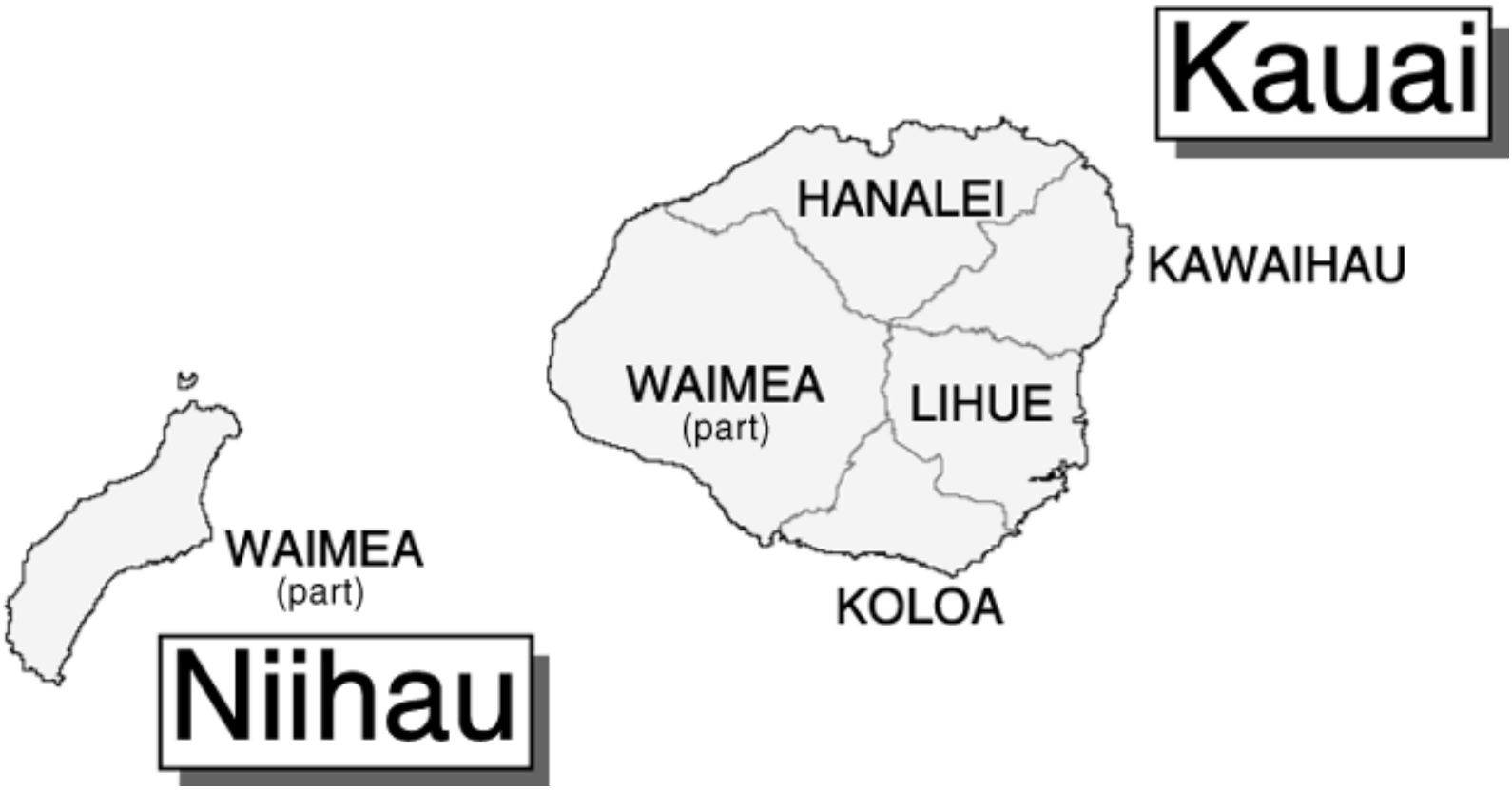
Back

NORTH KOHALA
Hawaii
NORTH HILO
SOUTH KOHALA
HAMAKUA
NORTH KONA
SOUTH HILO
PUNA
SOUTH KONA
KAU

[Back](#)


Molokai
KALAWAO
MOLOKAI
WAILUKU
LAHAINA
Maui
LANAI
Lanai
MAKAWAO
(part)
HANA
MAKAWAO
(part)
Kahoolawe

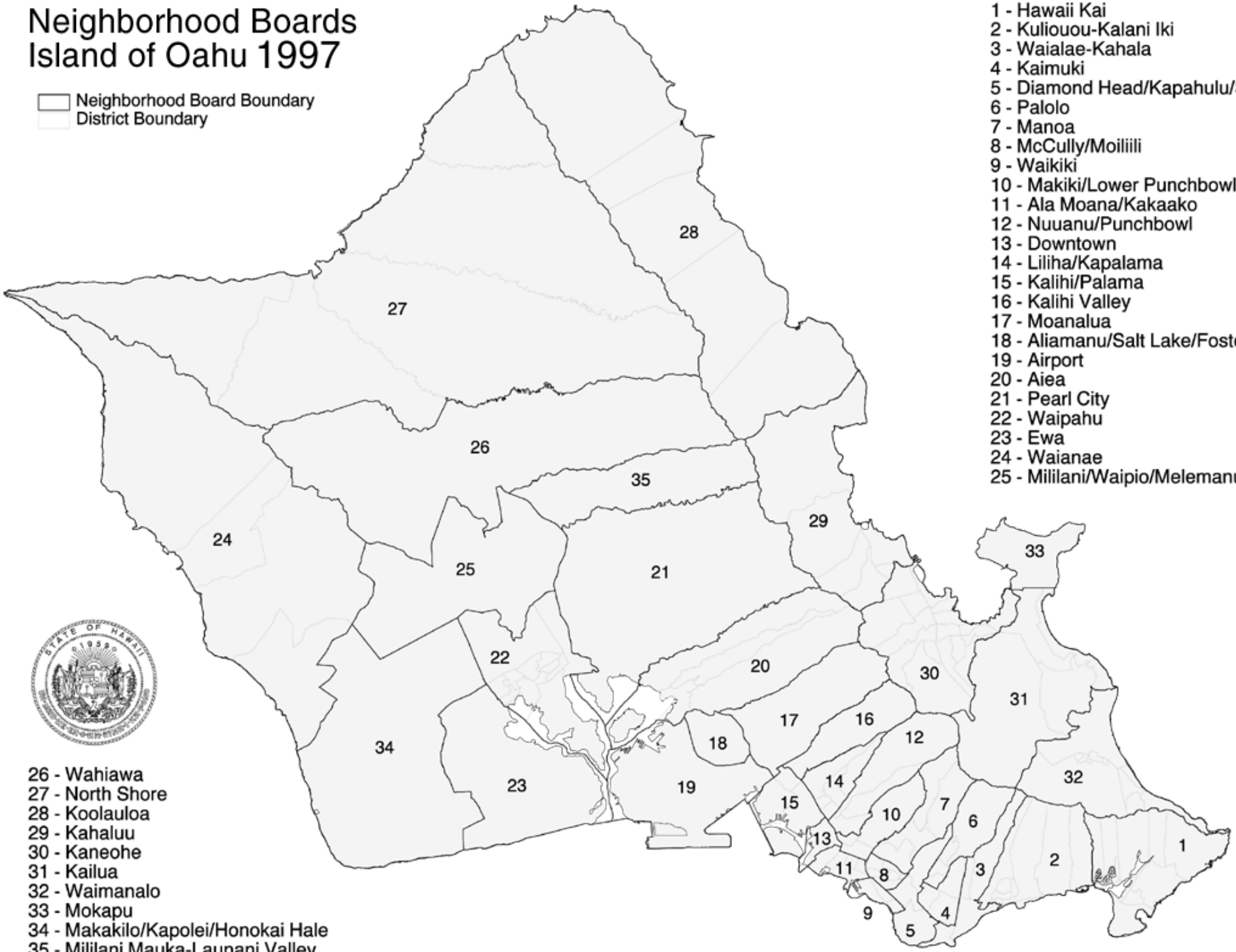
Back


Kauai
HANALEI
KAWAIHAU
WAIMEA
(part)
LIHUE
KOLOA
WAIMEA
(part)
Niihau

Back

Neighborhood Boards
Island of Oahu 1997

Neighborhood Board Boundary
District Boundary



1 - Hawaii Kai
2 - Kuliouou-Kalani Iki
3 - Waialae-Kahala
4 - Kaimuki
5 - Diamond Head/Kapahulu/St. Louis
6 - Palolo
7 - Manoa
8 - McCully/Moiliili
9 - Waikiki
10 - Makiki/Lower Punchbowl
11 - Ala Moana/Kakaako
12 - Nuuanu/Punchbowl
13 - Downtown
14 - Liliha/Kapalama
15 - Kalihi/Palama
16 - Kalihi Valley
17 - Moanalua
18 - Aliamanu/Salt Lake/Foster Village
19 - Airport
20 - Aiea
21 - Pearl City
22 - Waipahu
23 - Ewa
24 - Waianae
25 - Mililani/Waipio/Melemanu
26 - Wahiawa
27 - North Shore
28 - Koolauloa
29 - Kahaluu
30 - Kaneohe
31 - Kailua
32 - Waimanalo
33 - Mokapu
34 - Makakilo/Kapolei/Honokai Hale
35 - Mililani Mauka-Launani Valley

Neighborhood Boards - City & County of Honolulu GIS, 1997.

Back

Section 1: Population

Section Narrative	
1.01	Population of Counties: 1831 to 1990
1.02	Characteristics of the Population: 1831 to 1990
1.03	Resident Population, by Military Status: 1980 to 1999
1.04	Resident and De Facto Population, by Residence Status: 1980 to 1999
1.05	Resident Population of Islands: 1950 to 1990
1.06	Resident Population, by Counties: 1980 to 1999
1.07	De Facto Population, by Counties: 1980 to 1999
1.08	Resident and De Facto Population, by Counties and Islands: 1990 and 1995
1.09	Land Area and De Facto Population Density, by Counties and Islands: 1995
1.10	Resident Population of Counties and Districts: 1980, 1990, and 1995
1.11	Resident Population of Islands and Census Designated Places: 1990
1.12	Post-Enumeration Survey (PES) Estimates of the Total Population of the United States, Hawaii, and Selected Counties: 1990
1.13	Population Ranking of the State, Honolulu, and Counties: 1990 and 1999
1.14	Characteristics of Oahu Neighborhoods, including maps of the State, Oahu, and Honolulu: 1990
1.15	Resident Population and Households for the City and County of Honolulu, by Districts and Census Tracts: 1990
1.16	Resident Population and Households for Hawaii, Kauai, Kalawao and Maui Counties, by Districts and Census Tracts: 1990
1.17	Resident and De Facto Population and Employed Persons, for Waikiki: 1960 to 1990
1.18	Population and Land Area, Urban and Rural, by Counties: 1990
1.19	Centers of Population, by Counties: 1990
1.20	Population by Military Status: 1950 to 1990

1.21	Population Characteristics, by Military Status: 1990		
1.22	Resident Population Projections, by Counties: 1998 to 2025		
1.23	Projected Resident Population, by Age and Sex: 2000, 2010, 2020 and 2025		
1.24	Resident Population, by Age and Sex: 1980 and 1990		
1.25	Resident Population, by Age and Sex: 1990 and 1999		
1.26	Resident Population, by Age and Sex, by Counties: 1990		
1.27	Resident Population, by Age and Sex, by Counties: 1998		
1.28	Resident Population, by Age and Sex, by Counties: 1999		
1.29	Race by Counties: 1990		
1.30	Ethnic Stock by Counties: 1998		
1.31	Ethnic Stock by Counties: 1999		
1.32	Race and Hispanic Origin: 1980 and 1990		
1.33	Race and Hispanic Origin, by Counties: 1990, 1998 and 1999		
1.34	Hawaiians Living in Hawaii or Other States: 1980 and 1990		
1.35	Ancestry: 1990		
1.36	Hispanic Origin by Race: 1990		
1.37	Place of Birth and Citizenship: 1980 and 1990		
1.38	Language Spoken at Home by Persons Five Years Old and Over, by Ability to Speak English: 1990		
1.39	Household Type and Relationship: 1990		
1.40	Households, Families, and Group Quarters: 1950 to 1990		
1.41	Housing Units, Households, and Persons per Household: Annually, 1990 to 1998		
1.42	Housing Units, Households, and Persons per Household: 1990 and 1998		
1.43	Households, Population in Households, and Population per Household, by Islands: 1980 and 1990		

1.44	Population in Group Quarters, by Type of Group Quarters, Metropolitan and Nonmetropolitan: 1990		
1.45	Married Couples, Unmarried Couples, and Subfamilies: 1960 to 1990		
1.46	Marital Status, by Sex: 1980 and 1990		
1.47	Single, Widowed, or Divorced Persons, by Sex: 1960 to 1990		
1.48	Church Membership, for Selected Denominations: 1982 to 1999		
1.49	Components of Change in the Resident Population, by Military Status: 1980 to 1990 and 1990 to 1999		
1.50	Components of Change in the Resident Population, by Counties: 1990 to 1999		
1.51	Immigrants Admitted, by Country of Birth: 1994 to 1998		
1.52	Persons Naturalized, by Country of Former Allegiance: 1993 to 1998		
1.53	Residence in 1985 of Persons 5 Years and Over, for the State and Oahu: 1990		
1.54	Migration by Origin and Destination: 1999		
1.55	Intercounty Migration, by Destination and Age: 1999		

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. Census Bureau; the estimates developed annually by the Federal-State Cooperative Program for Population Estimates; the Hawaii Health Survey conducted regularly since 1969 by the Hawaii State Department of Health; the ongoing series on visitors present and residents absent currently provided by the Tourism Research Branch of the Hawaii State Department of Business, Economic Development & Tourism; 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: 1999.*

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 1999

[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	978,195	56,576	921,619	64,344	857,275
1982: July 1	993,780	54,879	938,901	66,709	872,192
1983: July 1	1,012,717	55,162	957,555	66,252	891,303
1984: July 1	1,027,922	57,340	970,582	67,083	903,499
1985: July 1	1,039,698	56,383	983,315	64,281	919,034
1986: July 1	1,051,762	58,122	993,640	66,210	927,430
1987: July 1	1,067,917	58,122	1,009,795	64,850	944,945
1988: July 1	1,079,827	56,815	1,023,012	69,905	953,107
1989: July 1	1,094,588	56,360	1,038,228	60,274	977,954
1990: April 1	1,108,229	55,222	1,053,007	59,935	993,072
July 1	1,112,703	55,288	1,057,415	60,614	996,801
1991: July 1	1,131,412	54,738	1,076,674	63,328	1,013,346
1992: July 1	1,149,926	55,099	1,094,827	56,994	1,037,833
1993: July 1	1,161,508	52,674	1,108,834	62,166	1,046,668
1994: July 1	1,173,903	52,845	1,121,058	54,338	1,066,720
1995: July 1	1,180,490	50,729	1,129,761	46,519	1,083,242
1996: July 1	1,184,434	47,986	1,136,448	55,337	1,081,111
1997: July 1	1,189,322	44,542	1,144,780	55,575	1,089,205
1998: July 1	1,190,472	44,984	1,145,488	60,538	1,084,950
1999: July 1	1,185,497	41,361	1,144,136	44,350	1,099,786

1/ Estimates after April 1, 1990 are revisions released in December 1999, and may differ somewhat from earlier figures cited in other tables.

2/ These figures are the estimates developed by the U.S. Census Bureau 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, annual survey of local commanding officers.

Table 1.04-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1980 TO 1999

[Revised figures]

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	10,688	1,051,508	97,504	1.090
July 1	968,500	10,688	1,054,218	96,406	1.089
1981: July 1	978,195	12,482	1,061,588	95,874	1.085
1982: July 1	993,780	16,544	1,082,311	105,075	1.089
1983: July 1	1,012,717	13,014	1,107,563	107,860	1.094
1984: July 1	1,027,922	17,086	1,129,088	118,252	1.098
1985: July 1	1,039,698	19,645	1,136,160	116,107	1.093
1986: July 1	1,051,762	18,291	1,165,826	132,355	1.108
1987: July 1	1,067,917	16,358	1,185,394	133,835	1.110
1988: July 1	1,079,827	21,988	1,198,637	140,798	1.110
1989: July 1	1,094,588	25,006	1,234,640	165,058	1.128
1990: April 1	1,108,229	28,602	1,230,731	151,104	1.111
July 1	1,112,703	27,994	1,239,225	154,516	1.114
1991: July 1	1,131,412	31,812	1,246,923	147,323	1.102
1992: July 1	1,149,926	39,200	1,262,974	152,249	1.098
1993: July 1	1,161,508	52,487	1,256,519	147,498	1.082
1994: July 1	1,173,903	54,362	1,276,171	156,630	1.087
1995: July 1	1,180,490	55,856	1,281,732	157,098	1.086
1996: July 1	1,184,434	58,137	1,284,594	158,297	1.085
1997: July 1	1,189,322	40,898	1,305,611	157,187	1.098
1998: July 1	1,190,472	38,495	1,309,366	157,388	1.100
1999: July 1	1,185,497	42,297	1,307,639	164,439	1.103

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. Total resident population estimates after April 1, 1990 are revisions released in December 1999 and may differ from corresponding figures in other *Data Book* tables.

2/ Average daily census. Figures reflect changes in research methodology by DBEDT in November 2000.

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. Total de facto population estimates after April 1, 1990 are revised and may differ from corresponding figures in other *Data Book* tables.

Source: Federal-State Cooperative Program for Population Estimates; Tourism Research Branch, Hawaii State Department of Business, Economic Development & Tourism.

Table 1.05-- RESIDENT POPULATION OF ISLANDS: 1950 TO 1990

Island	1950	1960	1970	1980	1990
State of Hawaii	499,794	632,772	769,913	964,691	1,108,229
Hawaii	68,350	61,332	63,468	92,053	120,317
Kahoolawe	-	-	-	-	-
Maui 1/	40,103	35,717	38,691	62,823	91,361
Lanai	3,136	2,115	2,204	2,119	2,426
Molokai	5,280	5,023	5,261	6,049	6,717
Oahu 2/	353,006	500,394	630,497	762,534	836,231
Kauai	29,683	27,922	29,524	38,856	50,947
Niihau 3/	222	254	237	226	230
Northwestern Hawaiian Islands	14	15	31	31	24
French Frigate Shoals	14	(NA)	(NA)	4	-
Laysan Island	-	(NA)	(NA)	5	-
Kure Atoll	-	(NA)	(NA)	22	(6/)
Other islands 4/	-	(NA)	(NA)	-	-
OTHER ISLANDS 5/					
Midway Islands	416	2,356	2,220	453	13
Baker Island	-	-	-	-	-
Howland Island	-	-	-	-	-
Jarvis Island	-	-	-	-	-
Johnston Atoll	46	156	1,007	327	173
Kingman Reef	-	-	-	-	-
Palmyra Atoll	-	-	-	-	-

NA Not available.

1/ Including Molokini, uninhabited.

2/ Including Sand Island (56 in 1970, 60 in 1980, 25 in 1990), Mokauea Island (12 in 1970, 11 in 1980, uninhabited in 1990), Ford Island (798 in 1970, 522 in 1980, 233 in 1990), and Moku o Loe (uninhabited in 1970, 16 in 1980, 6 in 1990). The combined total for Sand Island and Mokauea Island in 1960 was 36. These offshore islands were not reported separately in other years.

3/ Including Lehua and Kaula, uninhabited.

4/ Nihoa, Necker Island, Gardner Pinnacles, Maro Reef, Lisianski Island, and Pearl and Hermes Atoll.

5/ Not legally part of the State of Hawaii.

6/ Reported as uninhabited by the 1990 census but with 24 by the U.S. Coast Guard.

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

Table 1.06-- RESIDENT POPULATION, BY COUNTIES: 1980 TO 1999

[1990-1999 figures are revised and were released on 3/9/00. 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	1,112,703	838,032	121,458	51,625	101,588
1991: July 1	1,131,412	846,594	126,684	53,121	105,013
1992: July 1	1,149,926	857,884	130,524	53,975	107,543
1993: July 1	1,161,508	862,867	133,428	54,789	110,424
1994: July 1	1,173,903	869,959	135,547	55,686	112,711
1995: July 1	1,180,490	871,369	137,761	56,055	115,305
1996: July 1	1,184,434	871,609	138,792	56,463	117,570
1997: July 1	1,189,322	873,115	140,824	56,254	119,129
1998: July 1	1,190,472	871,768	141,805	56,208	120,691
1999: July 1	1,185,497	864,571	142,390	56,539	121,997

1/ Including Kalawao County (Kalaupapa Settlement). Kalawao had 144 inhabitants in 1980, 130 in 1990, and 58 in 1999.

Source: Federal-State Cooperative Program for Population Estimates.

Table 1.07-- DE FACTO POPULATION, BY COUNTIES: 1980 TO 1999

[Figures were 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 an average daily census]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1980: April 1	1,051,508	821,068	98,588	46,048	85,803
July 1	1,054,218	822,408	99,181	46,341	86,288
1981: July 1	1,061,588	823,849	101,597	47,246	88,895
1982: July 1	1,082,311	835,903	104,087	48,304	94,016
1983: July 1	1,107,563	844,984	108,331	50,419	103,829
1984: July 1	1,129,088	851,350	109,480	54,027	114,230
1985: July 1	1,136,160	853,605	112,343	55,086	115,125
1986: July 1	1,165,826	869,891	116,451	59,599	119,885
1987: July 1	1,185,394	880,191	120,289	62,007	122,906
1988: July 1	1,198,637	887,025	122,038	64,090	125,484
1989: July 1	1,234,640	898,727	131,153	67,300	137,460
1990: April 1	1,230,731	896,260	133,202	66,699	134,569
July 1	1,239,225	899,731	135,100	67,704	136,689
1991: July 1	1,246,923	897,798	140,657	69,347	139,120
1992: July 1	1,262,974	906,425	145,319	65,614	145,617
1993: July 1	1,256,519	901,984	146,373	60,596	147,566
1994: July 1	1,276,171	911,199	148,172	66,376	150,424
1995: July 1	1,281,732	911,501	149,789	67,842	152,600
1996: July 1	1,284,594	909,660	151,264	69,263	154,407
1997: July 1	1,305,611	919,240	157,637	70,318	158,415
1998: July 1	1,309,366	916,203	161,212	72,299	159,650
1999: July 1	1,307,639	913,222	160,046	72,735	161,636

1/ Including Kalawao County (Kalaupapa Settlement). The 1999 de facto population of Kalawao was 58.

Source: Federal-State Cooperative Program for Population Estimates; Tourism Research Branch of the Hawaii State Department of Business, Economic Development & Tourism; calculations by DBEDT.

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-l-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)	April 1, 1980	April 1, 1990	July 1, 1995	Percent change 1980 to 1990	Percent change 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		
Hawaiian Ocean View	969	Maui	91,361
Hawaiian Paradise Park	3,389	Haiku-Pauwela	4,509
Hawi	924	Haliimaile	841
Hilo	37,808	Hana	683
Holualoa	3,834	Kaanapali	579
Honalo	1,926	Kahului	16,889
Honaunau-Napoopoo	2,373	Kapalua	408
Honokaa	2,186	Kihei	11,107
Honomu	532	Lahaina	9,073
Kahaluu-Keauhou	1,990	Maalaea	443
Kailua	9,126	Makawao	5,405
Kalaoa	4,490	Napili-Honokowai	4,332
Kapaau	1,083	Paia	2,091
Keaau	1,584	Pukalani	5,879
Kealakekua	1,453	Waihee-Waiehu 1/	4,004
Kukuihaele	316	Waikapu	729
Kurtistown	910	Wailea-Makena	3,799
Laupahoehoe	508	Wailuku	10,688
Mountain View	3,075		
Naalehu	1,027	Kahoolawe	-
Paauilo	620		
Pahala	1,520	Lanai	2,426
Pahoa	1,027	Lanai City	2,400
Papaikou	1,634		
Paukaa	495	Molokai	6,717
Pepeekeo	1,813	Kaunakakai	2,658
Puako	397	Kualapuu	1,661
Volcano	1,516	Maunaloa	405
Waikoloa Village	2,248		

Continued on next page.

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

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

Footnotes and source on next page.

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

1/ Spelling corrected from that in census report.

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

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

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

Source: U.S. Bureau of the Census, 1*990 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 1999

Comparison 1/	Resident population, 1999	Ranking		
		Population 2/		Percent change, 1990-1999 3/
		1990	1999	
State of Hawaii:				
Among the 50 States and D.C.	1,185,497	41	42	30
Among the 50 States	1,185,497	41	42	30
Honolulu MSA: 4/				
Among all MSAs and CMSAs	864,571	54	56	5/ 205
City and County of Honolulu: 6/				
Among all counties	864,571	40	44	1,888
Among all incorporated places	864,571	11	12	7/ 136
Honolulu CDP: 8/				
Among all incorporated places	395,327	41	41	7/ 118
Hawaii County 9/	142,390	383	373	524
Kalawao County 9/	58	10/ 3,140	3,141	3,140
Kauai County 9/	56,539	823	824	1,063
Maui County 9/	121,939	457	433	396

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

2/ Largest number ranking 1.

3/ Ranking of the area in regard to 1990-99 population percent change, greatest percent change ranking 1.

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

5/ 1990-1999 percent change ranking among the 276 U.S. Metropolitan Areas (MAs).

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

7/ 1990-1999 percent change ranking among the 224 U.S. cities with populations of 100,000 and greater.

8/ 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). Honolulu and Arlington are the only CDPs for which postcensal population estimates are calculated by the U.S. Census Bureau.

9/ Among all 3,141 U.S. counties.

10/ Revised.

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

Table 1.14-- CHARACTERISTICS OF OAHU NEIGHBORHOODS: 1990

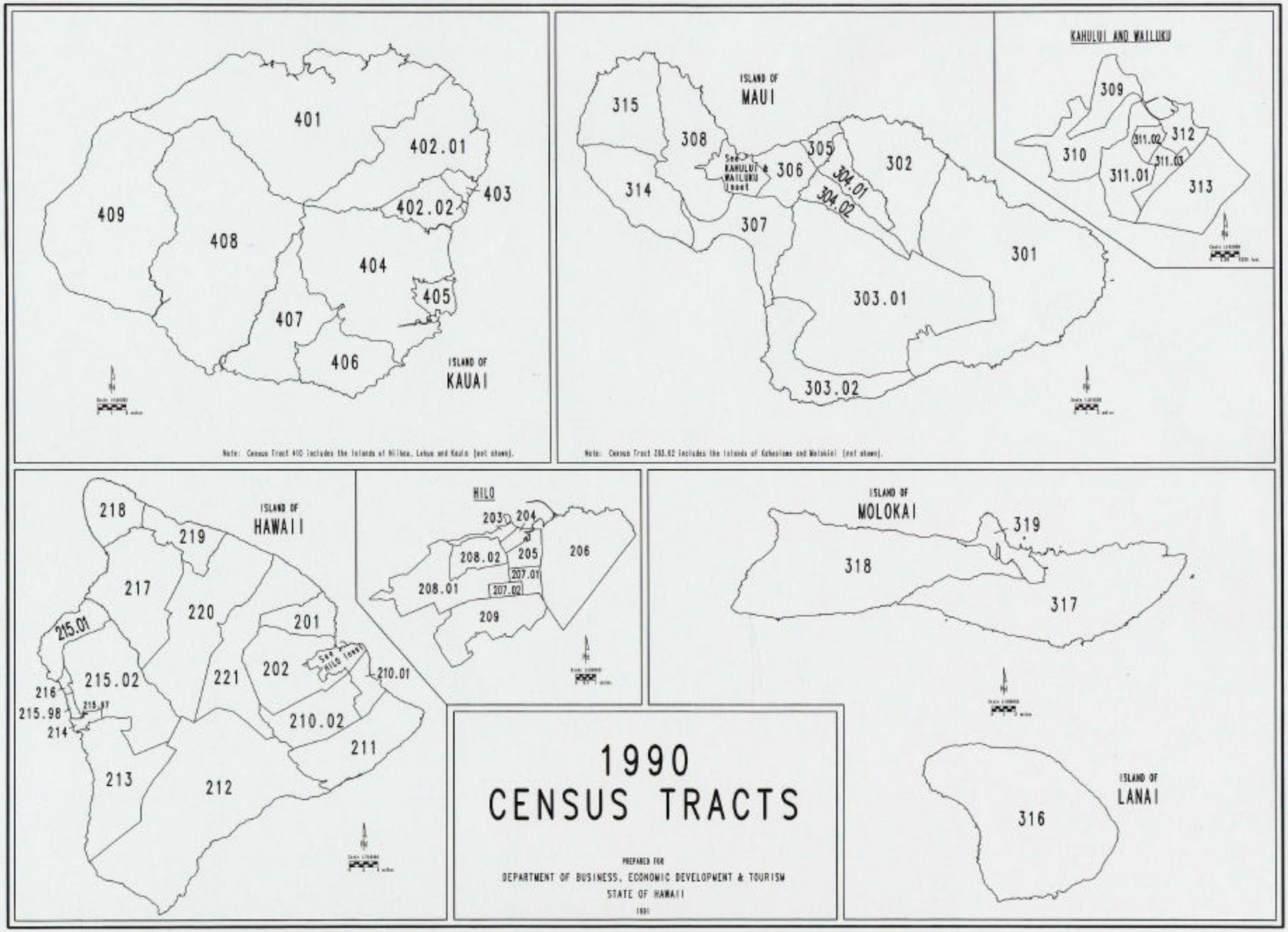
Neighborhood Area (see maps) 1/	Resident population	House-holds	Average household size	Percent college grads 2/	Median household income 3/
Oahu total	836,231	265,625	3.02	24.6	40,581
1 Hawaii Kai	27,432	8,835	3.08	41.7	65,901
2 Kuliouou-Kalani Iki	15,280	4,986	3.06	45.0	65,844
3 Waialae-Kahala	9,635	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 Mokapu/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. The table includes only neighborhood areas which existed in 1990. Effective June 1, 1995, the Makakilo/Kapolei/Honokai Hale area was split off from Neighborhood Board No. 23 to form Neighborhood Board No. 34. Effective June 1, 1997, the Mililani Mauka-Launani Valley area was split off from the Neighborhood Board No. 26 to form Neighborhood Board No. 35.

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

3/ Median 1989 income of households, in dollars.

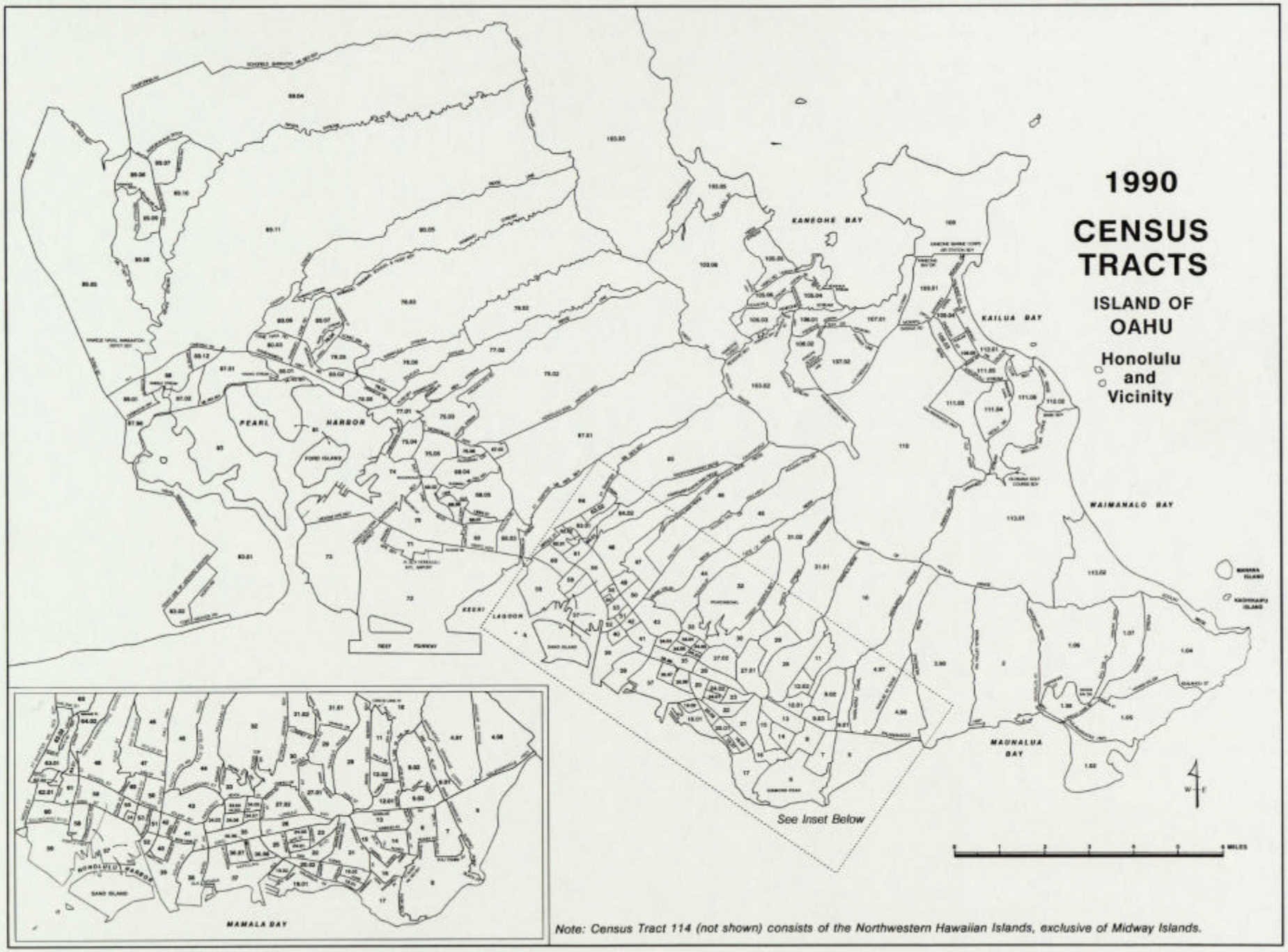
Source: City and County of Honolulu Planning Department, tabulations from the 1990 U.S. Census.


ISLAND OF
KAUAI
401
402.01
402.02
403
404
405
406
407
408
409
Note: Census Tract 410 includes the Islands of Niihau, Lehua and Kaula (not shown).
ISLAND OF
MAUI
315
308
See KAHULUI & WAILUKU Insets
306
305
304.01
304.02
302
314
307
301
303.01
303.02
Note: Census Tract 303.02 includes the Islands of Kahoolawe and Molokini (not shown).
KAHULUI AND WAILUKU
309
310
311.02
312
311.03
311.01
313
ISLAND OF
HAWAII
218
219
217
220
201
215.01
215.02
221
202
See HILO Inset
210.01
216
215.98
215.97
214
210.02
211
213
212
HILO
203
204
208.02
205
206
207.01
208.01
207.02
209
ISLAND OF
MOLOKAI
319
318
317
ISLAND OF
LANAI
316
1990
CENSUS TRACTS
PREPARED FOR
DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM
STATE OF HAWAII
1991

1990 CENSUS TRACTS

ISLAND OF OAHU

Honolulu and Vicinity



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

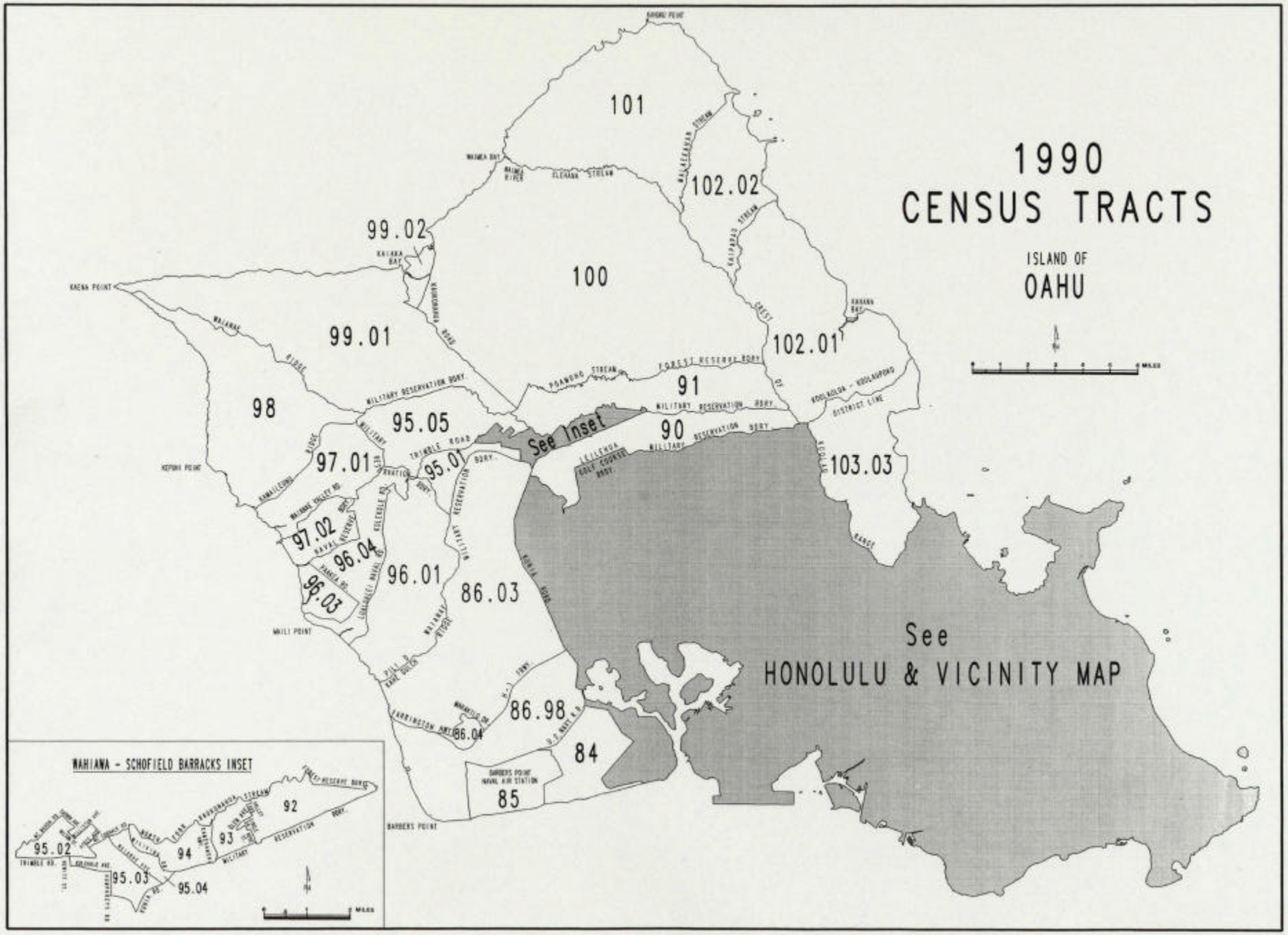

1990
CENSUS TRACTS
ISLAND OF
OAHU
101
102.02
99.02
100
99.01
102.01
98
91
95.05
90
97.01
95.01
103.03
97.02
96.04
96.03
96.01
86.03
86.98
86.04
84
85
See Inset
See
HONOLULU & VICINITY MAP
KAENA POINT
KEPUHI POINT
MAILI POINT
BARBERS POINT
WAHIAWA - SCHOFIELD BARRACKS INSET
95.02
95.03
95.04
94
93
92

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

[See the counties and districts maps and the census tract maps]

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 the counties and districts maps and the census tract maps]

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

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

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-- RESIDENT POPULATION PROJECTIONS, BY COUNTIES: 1998 TO 2025

[As of July 1. Series DBEDT 2025]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
Resident population (1,000): 2/						
1998	1,190.5	868.2	322.3	143.6	56.7	122.1
2000	1,197.3	872.9	324.4	144.6	57.2	122.6
2005	1,236.1	895.6	340.5	151.4	60.5	128.6
2010	1,291.1	929.2	361.9	159.6	65.8	136.4
2015	1,349.1	964.8	384.3	168.3	72.0	144.0
2020	1,406.2	999.4	406.8	176.9	78.7	151.2
2025	1,461.6	1,029.8	431.8	187.7	85.4	158.7
Share of state population (percent):						
1998	100.0	72.9	27.1	12.1	4.8	10.3
2000	100.0	72.9	27.1	12.1	4.8	10.2
2005	100.0	72.5	27.5	12.2	4.9	10.4
2010	100.0	72.0	28.0	12.4	5.1	10.6
2015	100.0	71.5	28.5	12.5	5.3	10.7
2020	100.0	71.1	28.9	12.6	5.6	10.8
2025	100.0	70.5	29.5	12.8	5.8	10.9

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.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2025 (Series DBEDT 2025) (February 2000)* at http://www.hawaii.gov/dbedt/2025/index.html.

Table 1.23-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 2000, 2010, 2020 AND 2025

[As of July 1. Series DBEDT 2025 projections. For 1997 estimate, see *Data Book 1998,* table 1.23]

Age group	2000		2010		2020		2025	
	Both sexes	Female	Both sexes	Female	Both sexes	Female	Both sexes	Female
Total	1,197,309	597,809	1,291,058	646,424	1,406,248	703,800	1,461,626	731,385
Under 5 years	83,405	40,823	92,004	44,374	98,268	47,401	100,208	48,349
5 to 9 years	86,773	41,439	85,262	41,876	94,485	46,339	96,547	47,337
10 to 14 years	78,791	38,553	78,199	38,756	88,983	43,744	93,600	46,010
15 to 19 years	80,793	38,139	82,678	39,156	83,411	40,946	88,311	43,321
20 to 24 years	90,063	42,662	93,466	42,636	92,434	42,878	97,984	45,435
25 to 29 years	72,292	34,450	96,883	45,242	99,970	46,799	94,814	45,903
30 to 34 years	72,207	35,372	85,770	43,822	92,965	45,218	97,508	46,439
35 to 39 years	93,259	45,674	66,234	32,230	93,787	44,540	92,843	45,100
40 to 44 years	98,814	48,646	68,393	33,493	85,114	43,419	93,483	44,463
45 to 49 years	92,360	45,942	87,810	43,644	64,558	31,779	83,720	43,107
50 to 54 years	78,833	39,473	93,294	46,687	65,592	32,684	63,362	31,376
55 to 59 years	60,833	32,166	88,687	44,703	85,132	42,897	65,200	32,768
60 to 64 years	45,936	24,681	76,404	38,976	91,453	46,588	84,793	43,131
65 to 69 years	44,167	23,892	57,718	31,179	85,175	43,865	88,595	45,596
70 to 74 years	43,119	23,945	40,925	22,768	69,036	36,319	79,640	41,706
75 to 79 years	35,445	19,235	35,906	20,330	47,797	26,867	61,374	32,947
80 to 84 years	22,236	12,254	30,238	17,898	29,221	17,228	38,832	22,652
85 years and over	17,983	10,463	31,187	18,654	38,867	24,289	40,812	25,745
Median age	36.8	38.0	37.4	39.2	37.8	39.3	38.3	39.8

Source: Hawaii State Department of Business, Economic Development & Tourism, *Population and Economic Projections for the State of Hawaii to 2025 (Series DBEDT 2025)* (February 2000) at http://www.hawaii.gov/dbedt/2025/index.html.

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 1999

[Includes armed forces stationed or homeported in Hawaii. The 1999 estimates are provisional]

	April 1, 1990 (MARS) 1/			July 1, 1999		
Age group	Both sexes	Male	Female	Both sexes	Male	Female
Total	1,108,229	563,918	544,311	1,185,497	592,037	593,460
Under 5 years	85,448	43,915	41,533	80,387	41,271	39,116
5 to 9 years	80,680	41,486	39,194	86,229	44,327	41,902
10 to 14 years	73,570	37,988	35,582	75,914	39,191	36,723
15 to 19 years	73,050	38,378	34,672	82,664	42,504	40,160
20 to 24 years	91,693	51,139	40,554	83,879	44,871	39,008
25 to 29 years	100,435	52,862	47,573	68,606	35,625	32,981
30 to 34 years	100,540	51,316	49,224	78,211	39,648	38,563
35 to 39 years	95,123	48,547	46,576	98,005	50,058	47,947
40 to 44 years	82,238	42,159	40,079	100,207	50,960	49,247
45 to 49 years	61,011	30,764	30,247	89,756	45,017	44,739
50 to 54 years	46,635	22,866	23,769	75,903	37,217	38,686
55 to 59 years	45,217	20,983	24,234	58,096	27,116	30,980
60 to 64 years	48,862	22,725	26,137	45,751	21,587	24,164
65 to 69 years	45,265	21,717	23,548	44,526	19,975	24,551
70 to 74 years	32,789	15,573	17,216	43,492	19,626	23,866
75 to 79 years	22,591	11,238	11,353	34,997	16,374	18,623
80 to 84 years	13,020	6,453	6,567	21,579	9,096	12,483
85 and over	10,062	3,809	6,253	17,295	7,574	9,721
5 to 17	196,396	101,277	95,119	208,953	107,738	101,215
18 to 24	122,597	67,714	54,883	119,733	63,155	56,578
25 to 44	378,336	194,884	183,452	345,029	176,291	168,738
45 to 64	201,725	97,338	104,387	269,506	130,937	138,569
16 years and over	854,518	433,227	421,291	928,182	459,544	468,638
18 years and over	826,385	418,726	407,659	896,157	443,028	453,129
21 years and over	777,428	391,948	385,480	841,881	414,954	426,927
65 years and over	123,727	58,790	64,937	161,889	72,645	89,244
85 years and over	10,062	3,809	6,253	17,295	7,574	9,721
Median age	32.5	31.6	33.4	36.9	35.9	38.0

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 Branch, Population Division, U.S. Census Bureau.

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: 1998

[Revised figures as of August 2000]

Subject	State total	City and County of Honolulu	Other counties		
			Hawaii	Kauai	Maui 1/
Total persons	1,190,472	871,768	141,805	56,208	120,691
Male	596,647	436,192	71,007	28,277	61,171
Female	593,825	435,576	70,798	27,931	59,520
Males per 100 females	100.5	100.1	100.3	101.2	102.8
Under 18 years	295,588	208,060	39,863	15,354	32,311
18 to 64 years	735,454	545,482	83,059	32,941	73,972
65 years and over	159,430	118,226	18,883	7,913	14,408
Percent:					
Under 18 years	24.8	23.9	28.1	27.3	26.8
18 to 64 years	61.8	62.6	58.6	58.6	61.3
65 years and over	13.4	13.6	13.3	14.1	11.9

1/ Includes Kalawao.

Source: U.S. Census Bureau, *Population Estimates for Counties by Age and Sex: Annual Time Series July 1, 1990 to July 1, 1999* CO-99-9 (August 30, 2000) at http://www.census.gov/population/estimates/county/cas/cas15.txt and *Population Estimates for Counties by Age Group: July 1, 1998* CO-99-13 (August 30, 2000) at http://www.census.gov/population/estimates/county/ca/cahi99.txt.

Table 1.28-- RESIDENT POPULATION, BY AGE AND SEX, BY COUNTIES: 1999

[Figures for the years 1990 through 1997 that were printed in previous *Data Books* have been revised]

Subject	State total	City and County of Honolulu	Other counties		
			Hawaii	Kauai	Maui 1/
Total persons	1,185,497	864,571	142,390	56,539	121,997
Male	592,037	430,983	71,061	28,348	61,645
Female	593,460	433,588	71,329	28,191	60,352
Males per 100 females	99.8	99.4	99.6	100.6	102.1
Under 18 years	289,340	202,549	39,406	15,228	32,157
18 to 64 years	734,268	541,917	83,904	33,313	75,134
65 years and over	161,889	120,105	19,080	7,998	14,706
Percent:					
Under 18 years	24.4	23.4	27.7	26.9	26.4
18 to 64 years	61.9	62.7	58.9	58.9	61.6
65 years and over	13.7	13.9	13.4	14.1	12.1

1/ Includes Kalawao.

Source: U.S. Census Bureau, *Population Estimates for Counties by Age and Sex: Annual Time Series July 1, 1990 to July 1, 1999* CO-99-9 (August 30, 2000) at http://www.census.gov/population/estimates/county/cas/cas15.txt and *Population Estimates for Counties by Age Group: July 1, 1999* CO-99-13 (August 30, 2000) at http://www.census.gov/population/estimates/county/ca/cahi99.txt.

Table 1.29-- 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 1.30-- ETHNIC STOCK BY COUNTIES: 1998

[Revised as of September 2000. Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Weighted data based upon a sample survey of 12,923 persons]

Ethnic stock 1/	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,148,810	835,967	139,773	55,569	117,502
Unmixed (except Hawaiian)	686,006	514,207	70,627	31,711	69,462
Caucasian	251,453	165,398	36,100	14,038	35,918
Black	17,310	16,208	719	76	307
Japanese	207,921	165,216	19,440	9,238	14,026
Chinese	41,678	39,222	862	218	1,377
Filipino	145,553	107,868	12,785	7,961	16,940
Korean	13,701	12,814	294	180	413
Samoan/Tongan	8,390	7,481	428	-	481
Mixed (except Hawaiian) 2/	226,380	165,753	25,627	13,026	21,974
Hawaiian/part Hawaiian	236,423	156,006	43,519	10,832	26,065

1/ Ethnicity is based on the ethnicity of father and mother or self-identified. Definitions used in this table differ from those in reports of the U.S. Census Bureau. 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 (42,680 in 1998).

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

Table 1.31-- ETHNIC STOCK BY COUNTIES: 1999

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao.
Weighted data based upon a sample survey of 12,667 persons]

Ethnic stock 1/	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,151,990	838,486	139,165	54,650	119,689
Unmixed (except Hawaiian)	696,517	525,138	72,188	31,575	67,614
Caucasian	250,742	168,762	35,077	13,716	33,187
Black	10,455	10,056	206	17	176
Japanese	219,855	173,177	21,905	8,858	15,914
Chinese	44,787	42,136	1,331	280	1,040
Filipino	145,248	107,102	12,956	8,584	16,606
Korean	11,737	10,846	584	58	249
Samoan/Tongan	13,693	13,059	130	61	442
Mixed (except Hawaiian) 2/	232,281	167,765	28,780	10,011	25,725
Hawaiian/part Hawaiian	223,193	145,584	38,197	13,064	26,349

1/ Ethnicity is based on the ethnicity of father and mother or self-identified. Definitions used in this table differ from those in reports of the U.S. Census Bureau. 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 (53,063 in 1999).

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

Table 1.32-- 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 1980	Percent distribution 1990	Percent change
All races	964,691	1,108,229	100.0	100.0	14.9
White	318,770	369,616	33.0	33.4	16.0
Black	17,364	27,195	1.8	2.5	56.6
American Indian, Eskimo, or Aleut	2,768	5,099	0.3	0.5	84.2
Asian or Pacific Islander	583,252	685,236	60.5	61.8	17.5
Chinese	56,285	68,804	5.8	6.2	22.2
Filipino	133,940	168,682	13.9	15.2	25.9
Japanese	239,748	247,486	24.9	22.3	3.2
Korean	17,962	24,454	1.9	2.2	36.1
Vietnamese	3,463	5,468	0.4	0.5	57.9
Hawaiian	115,500	138,742	12.0	12.5	20.1
Samoan	14,073	15,034	1.5	1.4	6.8
Other Asian or Pacific 2/	2,281	16,566	0.2	1.5	} -16.0
Other race	42,537	21,083	4.4	1.9	
Hispanic origin 3/	71,263	81,390	7.4	7.3	14.2

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

2/ 1980 figure limited to Asian Indians and Guamanians.

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

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

Table 1.33-- RACE AND HISPANIC ORIGIN, BY COUNTIES: 1990, 1998 AND 1999

[Figures for 1998 are revised as of August 8, 2000. Figures for the years 1990 through 1997 that were printed in previous *Data Books* have also been revised]

Date and county	All races	White	Black	American Indian 1/	Asian and Pacific Islander	Hispanic (of any race)
JULY 1, 1990						
State total	1,112,703	378,076	27,874	5,476	701,277	81,425
Hawaii	121,458	48,868	645	924	71,021	11,206
Honolulu	838,032	270,267	26,511	3,803	537,451	56,760
Kauai	51,625	18,184	214	186	33,041	5,596
Maui 2/	101,588	40,757	504	563	59,764	7,863
JULY 1, 1998						
State total	1,190,472	394,183	34,887	6,569	754,833	95,781
Hawaii	141,805	56,833	1,198	1,221	82,553	14,165
Honolulu	871,768	270,112	32,242	4,306	565,108	64,592
Kauai	56,208	19,710	393	230	35,875	6,429
Maui 2/	120,691	47,528	1,054	812	71,297	10,595
JULY 1, 1999						
State total	1,185,497	391,489	33,752	6,565	753,691	95,456
Hawaii	142,390	56,960	1,216	1,221	82,993	14,252
Honolulu	864,571	266,823	31,065	4,280	562,403	63,966
Kauai	56,539	19,775	395	232	36,137	6,472
Maui 2/	121,997	47,931	1,076	832	72,158	10,766

1/ Includes Eskimo and Aleut.

2/ Includes Kalawao (74 inhabitants in 1998; 58 inhabitants in 1999).

Source: U.S. Census Bureau, *Population Estimates for Counties by Race and Hispanic Origin: July 1, 1990*, *Population Estimates for Counties by Race and Hispanic Origin: July 1, 1998* and *Population Estimates for Counties by Race and Hispanic Origin: July 1, 1999* (August 30, 2000) at http://www.census.gov/population/www/estimates/co_crh2.html.

Table 1.34-- 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 increase
Hawaiians in U.S.	166,814	211,014	26.5
Living in Hawaii	115,500	138,742	20.1
Living in other States	51,314	72,272	40.8
California	23,086	34,447	49.2
Rest of U.S.	28,228	37,825	34.0

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

Table 1.35-- 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
		Okinawan	5,998
English	71,569	Vietnamese	5,277
German	102,883	Hawaiian 3/	156,812
Irish	65,587	Samoan	14,971
Portuguese	57,125	Tongan	3,283
Puerto Rican	16,432	Afro-American	23,864
Chinese	96,293	American Indian	14,835
Filipino	176,370	White	13,442
Japanese	262,113	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 1.36-- 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 1.37-- 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 1.38-- 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 1.39-- 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 1.40-- 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 1.41-- HOUSING UNITS, HOUSEHOLDS, AND PERSONS PER HOUSEHOLD: ANNUALLY, 1990 TO 1998

Date 1/	Housing units	Households	Persons per household
1990 (April 1)	389,811	356,268	3.01
1991 2/	399,642	366,446	2.98
1992 2/	407,219	375,018	2.96
1993 2/	412,652	378,068	2.97
1994 2/	419,439	381,119	2.98
1995 2/	426,345	386,318	2.96
1996 2/	433,039	391,202	2.93
1997	436,602	396,008	2.90
1998	440,044	400,927	2.87

1/ As of July 1 unless otherwise specified.

2/ Revised.

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, 1998 (includes revised April 1 census housing and population counts),* ST-98-51 (December 8, 1999), at http://www.census.gov/population/estimates/housing/sthuhh6.txt.

Table 1.42-- HOUSING UNITS, HOUSEHOLDS, AND PERSONS PER HOUSEHOLD: 1990 AND 1998

Subject	April 1, 1990	July 1, 1998	Percent change
Total housing units	389,811	440,044	12.9
Households by age of householder, total	356,268	400,927	12.5
15 to 24 years	16,826	16,681	-0.9
25 to 34 years	73,004	56,069	-23.2
35 to 44 years	87,474	97,325	11.3
45 to 54 years	57,546	86,965	51.1
55 to 64 years	49,936	52,639	5.4
65 years and over	71,482	91,248	27.7
Persons in households	1,070,607	1,151,989	7.6
Persons per household 1/	3.01	2.87	-4.7

1/ The U.S. average in 1998 was 2.61. Hawaii ranked second highest 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, 1998 (includes revised April 1 census housing and population counts),* ST-98-51 (December 8, 1999), at http://www.census.gov/population/estimates/housing/sthuhh6.txt.

Table 1.43-- 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 1.44-- 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 1.45 -- MARRIED COUPLES, UNMARRIED COUPLES, AND SUBFAMILIES: 1960 TO 1990

Subject	1960	1970	1980	1990
Married couples	120,192	154,678	198,398	227,853
Married couple families 1/	113,164	147,326	188,933	215,835
Married couple subfamilies 2/	7,028	7,352	9,465	12,018
Percent	5.8	4.8	4.8	5.3
Unmarried couples	(NA)	(NA)	9,963	14,871
Subfamilies 2/	9,151	10,111	13,319	25,318
Married couple subfamilies	7,028	7,352	9,465	12,018
Mother-child subfamilies	1,731	2,288	3,132	10,264
Other subfamilies	392	471	722	3,036

NA Not available.

1/ Based on a sample; data may therefore differ somewhat from corresponding full-count tabulations.

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

Source: U.S. Bureau of the Census, *1960 Census of Population, Detailed Characteristics, Hawaii,* PC(1)-13D (1962), table 108; *1970 Census of Population, Detailed Characteristics, Hawaii,* PC(1)-D13 (1972), table 155; *1980 Census of Population, General Social and Economic Characteristics, Hawaii,* PC80-1-C13 (1983), table 64 and p. B-2; *1980 Census of Population, Detailed Population Characteristics, Hawaii,* PC80-1-D13 (1983), table 208; *1990 Census of Population, Social and Economic Characteristics, Hawaii,* 1990 CP-2-13 (1993), table 21.

Table 1.46-- 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 1.47--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 1.48-- CHURCH MEMBERSHIP, FOR SELECTED DENOMINATIONS: 1982 TO 1999

Denomination	1982	1990	1999 1/
Buddhist:			
Honpa Hongwanji	21,500	2/ 10,308	(NA)
All Buddhist sects	(NA)	(NA)	100,000
Christian:			
Assembly of God	7,000	13,005	11,000
Church of Jesus Christ of Latter-day Saints	31,027	38,303	56,000
Episcopal	10,541	10,396	10,000
Lutheran	4,604	3,944	6,000
International Church of the Foursquare Gospel	(NA)	4,726	(NA)
Roman Catholic	209,000	232,780	215,000
Seventh-Day Adventists	4,147	5,931	(NA)
Southern Baptist Convention	11,340	20,331	17,000
United Church of Christ	17,485	22,852	19,000
United Methodist	6,242	8,348	7,000
Jewish:			
Total Jewish population	3/ 6,000	7,000	10,000

NA Not available.
1/ Estimated.
2/ 1987 data.
3/ 1983 data.

Source: Geography Department, University of Hawaii, *Atlas of Hawaii*, 2nd ed. (1983), p. 133; *The Honolulu Advertiser*, August 20, 1998 (p. A-8), April 30, 1994 (p. B-4), and Nov. 29, 1999 (p. 3); *Statistical Abstract of the United States: 1985*, p. 52; *Statistical Abstract of the United States: 1992*, p. 60.

Table 1.49-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1980 TO 1990 AND 1990 TO 1999

[Data for 1980-1990 is not comparable to data for 1990-99]

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 1999 4/						
Net change	77,268	-13,861	-15,585	106,714	11,537	100.0
Natural increase	106,471	-1,325	30,515	77,281	8,355	72.4
Live births	174,461	-	31,247	143,214	15,483	...
Deaths	67,990	1,325	732	65,933	7,128	...
Net mil. separations 2/	} -29,203	-12,536	-46,100	29,433	3,182	27.6
Net migration 3/						

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, 1999.

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 1.50-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY COUNTIES: 1990 TO 1999

[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, 1999 (estimate)	1,185,497	864,571	142,390	56,539	121,997
Net change	77,268	28,340	22,073	5,362	21,493
Resident births	173,388	129,486	19,008	7,983	16,911
Resident deaths	67,676	48,642	9,084	3,512	6,438
Foreign migrants (net) 2/	54,227	42,716	3,429	1,868	6,214
Federal citizen movement 3/	19,207	19,046	50	89	22
Domestic migrants (net) 4/	-99,371	-112,708	9,085	-883	5,135
Residual change 5/	-2,507	-1,558	-415	-183	-351

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. Census Bureau, *County Population Estimates and Demographic Components of Population Change: Annual Time Series, July 1, 1990 to July 1, 1999 (includes revised April 1, 1990 Population Estimates Base),* CO-99-8 (March 9, 2000) at http://www.census.gov/population/estimates/county/co-99-8/99C8-15.txt.

Table 1.51-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH: 1994 TO 1998

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence, and include non-immigrant arrivals who changed their status after entry. Data include immigrants admitted under Section 245A of the Immigration Reform and Control Act of 1986. These formerly illegal aliens must have resided in the U.S. since 1982 to qualify or were employed in seasonal agriculture work for a minimum of 90 days between May 1985 and May 1996; therefore, they are not new residents]

Country of birth	1994	1995	1996	1997	1998
All countries	7,746	7,537	8,436	6,867	5,465
Canada	155	167	125	70	49
Hong Kong	239	184	183	118	(NA)
Japan	510	485	480	540	(NA)
Korea	329	408	398	287	286
People's Republic of China	743	480	555	479	482
Philippines	4,329	4,308	5,208	4,266	3,140
Taiwan	81	87	145	57	48
Vietnam	353	332	328	214	101
Other countries	1,007	1,086	1,014	836	1,359

NA Not available.

Source: U.S. Immigration and Naturalization Service, Office of Policy and Planning, *1998 Statistical Yearbook* at http://www.ins.gov/graphics/aboutins/statistics/imm98.pdf.

Table 1.52-- PERSONS NATURALIZED, BY COUNTRY OF FORMER ALLEGIANCE: 1993 TO 1998

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	Vietnam	Other countries
1993	4,960	477	302	3,035	37	252	857
1994	4,659	434	403	2,571	182	245	824
1995	1/ 5,174	433	459	2,865	190	304	931
1996	6,090	556	579	2,940	251	517	1,247
1997	3,994	328	390	1,941	154	362	819
1998	4,493	(2/)	362	2,083	33	419	3/ 1,297

1/ "All countries" total was revised, but revisions for separate categories were not available.

2/ People's Republic of China figure was 299. Taiwan figures were not available.

3/ Mexico, 91; Laos, 78; others, 1,128.

Source: U.S. Immigration and Naturalization Service, Office of Policy and Planning, *1998 Statistical Yearbook* at http://www.ins.gov/graphics/aboutins/statistics/Natz98.pdf.

Table 1.53-- 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.

Table 1.54--MIGRATION BY ORIGIN AND DESTINATION: 1999

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 12,677 persons. Weighted and adjusted data]

Area migrated from	Area migrated to						
	State total	Oahu	Hawaii	Kauai	Maui	Molokai	Lanai
Total	37,863	29,662	3,435	1,406	3,184	72	103
Within state							
Oahu	1,079	(X)	649	209	222	-	-
Hawaii	720	507	(X)	-	163	51	-
Kauai	25	-	25	(X)	-	-	-
Maui	22	-	22	-	(X)	-	-
Molokai	-	-	-	-	-	(X)	-
Lanai	25	-	25	-	-	-	(X)
Other state	30,600	25,322	1,886	1,135	2,235	22	-
U.S. Territory	369	170	199	-	-	-	-
Other country	4,665	3,490	546	61	465	-	103
Unknown	355	172	83	-	100	-	-

X Not applicable.

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

Table 1.55-- INTERCOUNTY MIGRATION, BY DESTINATION AND AGE: 1999

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 12,677 persons. Weighted and adjusted data]

Age group	County migrated to				
	State total	Oahu	Hawaii	Kauai	Maui
Total	37,863	29,663	3,436	1,406	3,359
Under 15 years	9,692	8,428	521	285	457
15 to 24 years	7,779	6,683	359	237	501
25 to 34 years	7,096	6,118	467	230	280
35 to 44 years	4,873	3,181	747	213	732
45 to 54 years	4,023	2,594	487	309	633
55 to 64 years	2,201	1,348	546	-	306
65 years and over	2,194	1,308	308	129	448

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

Section 2: Health

Section Narrative			
2.01	Births and Deaths: 1980 to 1998		
2.02	Births and Deaths, by Military Status: 1994 to 1998		
2.03	Live Births, Standard Fetal Deaths, and Elective Abortions: 1993 to 1998		
2.04	Births and Deaths, by Residence: 1995 to 1998		
2.05	Characteristics of Resident Births: 1996 to 1998		
2.06	Children Ever Born Per 1,000 Women 15 to 44 Years Old, by Geographic Area: 1990		
2.07	Birth and Fertility Rates for the United States and Hawaii: 1997		
2.08	Resident Births, Mixed and Unmixed Race, by Military Status of Parents: 1998		
2.09	Most Common First Names on Birth Certificates, by Sex: 1998		
2.10	Most Common Surnames on Birth and Death Certificates: 1998		
2.11	Expectation of Life at Birth for Both Sexes Combined,by Race: 1910 to 1990		
2.12	Expectation of Life at Birth, by Sex, for the United States and Hawaii: 1900 to 1997		
2.13	Average Lifetime, By Sex: 1959-61 to 1989-91		
2.14	Selected Life Table Values: 1989-91		
2.15	Characteristics of Resident Deaths: 1996 to 1998		
2.16	Cause of Death, by Sex: 1998		
2.17	Greatest Catastrophic Mortality of Record, by Type of Disaster: 1778 to 2000		
2.18	Catastrophic Mortality: 1990 to 2000		
2.19	Deaths Occurring in Hawaii, by Method of Disposition: 1970 to 1998		
2.20	Persons on the State Blind Register, by Counties: 1995 to 1999		

2.21	Selected Chronic Conditions: 1997 and 1998		
2.22	Specified Communicable Diseases: 1994 to 1998		
2.23	Health Risk Behaviors and Conditions for Persons 18 Years and Older: 1995 to 1998		
2.24	Number and Bed Capacity of State-Approved Hospitals and Care Homes, by Type of Facility: 1994 to 1999		
2.25	Occupancy Characteristics of State-Approved Acute and Long-Term Care Civilian Hospitals: 1993 to 1998		
2.26	Number and Bed Capacity of State- Approved Civilian Hospitals and Care Homes, by Type of Facility, by Islands: December 1998		
2.27	Occupancy Characteristics of State-Approved Acute and Long-Term Care Civilian Hospitals, by Islands: 1998		
2.28	Adult Patients Served by State Mental Health Facilities: 1988 to 1998		
2.29	Hawaii State Hospital Beds and Occupancy: 1995 to 1999		
2.30	Hansen's Disease Patients Registered: 1994 to 1998		
2.31	Community Hospital Characteristics, for the United States and Hawaii: 1996		
2.32	Physicians, Dentists, Nurses, and Pharmacists Licensed in Hawaii, by Place of Address: June 30, 1999		
2.33	Health Care and Social Assistance Establishments with Payroll, by Kind of Business or Operation: 1997		
2.34	Health Care and Social Assistance Establishments with Payroll and Subject to Federal Income Tax, For Counties and Selected Urban Places: 1997		
2.35	Marriages and Divorces: 1980 to 1998		
2.36	Marriage and Divorce Rates Based on Risk Population: 1910 to 1990		
2.37	Characteristics of Marriages and Divorces: 1995 to 1998		
2.38	Marriages Occurring in Hawaii, Resident and Nonresident, by Race Mixture and Type of Ceremony: 1998		
2.39	Marital Dissolution: 1980 to 1998		

Section 2

VITAL STATISTICS AND HEALTH

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

The major source for data on vital statistics and health is 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: 1999* contain data for the nation as a whole.

Table 2.01-- BIRTHS AND DEATHS: 1980 TO 1998

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	6/ 17.3	6/ 6.0	264.5	11.1	6.5
1993	19,567	7,226	16.8	6.2	273.0	11.7	7.6
1994	19,438	7,206	6/ 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
1997	17,326	7,710	6/ 14.6	6.5	299.0	8.5	6.4
1998	17,567	7,969	14.8	6.7	319.4	8.1	6.8

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, 1999.

3/ Place of occurrence basis.

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

5/ Under 1 year of age.

6/ Changed due to revision in the population estimate.

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: 1994 TO 1998

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
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
1997	17,415	-	17,415	3,131	14,284	3,131
1998	17,628	-	17,628	3,011	14,617	3,011
Deaths:						
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
1997	8,016	151	7,865	78	7,787	229
1998	8,297	175	8,122	85	8,037	260
Birth rates: 2/						
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
1997	13.5	0	14.0	56.3	12.0	31.3
1998	13.3	0	13.8	49.7	12.0	28.5
Death rates: 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
1997	6.2	3.4	6.3	1.4	6.6	2.3
1998	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. Calculation of de facto population are based on July 1 estimates by the U.S. Census Bureau, as revised through Dec. 31, 1998.

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: 1993 TO 1998

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate 1/			
1993 2/	26,765	23.0	19,567	1,392	5,806
1994	26,457	22.5	19,438	1,265	5,754
1995	25,139	3/ 21.3	18,552	1,086	5,501
1996	24,234	3/ 20.5	18,378	985	4,871
1997	22,680	3/ 19.1	17,326	854	4,500
1998	22,794	19.1	17,567	1,084	4,143

1/ Per 1,000 resident population, July 1. Based on population estimates by the U.S. Census Bureau, as revised through Dec. 31, 1999.

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

3/ Changed due to revision in the population estimate.

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

Table 2.04-- BIRTHS AND DEATHS, BY RESIDENCE: 1995 TO 1998

Event and year	Occurring in Hawaii				Persons born in or current residents of Hawaii 1/	
	Total	Resident	Non-resident	Not reported	Total	Out of State
Births:						
1995	18,636	18,552	81	3	18,578	26
1996	18,451	18,378	69	4	18,396	18
1997	17,415	17,326	87	2	(NA)	(NA)
1998	17,628	17,567	61	-	(NA)	(NA)
Deaths:						
1995	7,795	7,482	309	4	7,718	236
1996	8,148	7,803	338	7	8,124	321
1997	8,016	7,710	303	3	(NA)	(NA)
1998	8,297	7,969	321	7	(NA)	(NA)

NA Not available.

1/ Birth figures exclude mothers who were born in Hawaii but are now residents of another state. Death figures include deaths of Hawaii residents occurring in Hawaii or in other states as well as Guam, Canada, and other foreign countries as well as deaths of persons born in Hawaii but who were residents of other states at the time of death. The death, however, must have been reported to the Hawaii Department of Health by the health department in the location that the death occurred.

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

Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1996 TO 1998

[Excludes births to Hawaii residents occurring out of state]

Subject	1996	1997	1998
Number of resident births	18,378	17,326	17,567
City and County of Honolulu	13,728	12,860	13,127
Percent on Oahu	74.7	74.2	74.7
Hawaii County	1,979	1,891	1,912
Kauai County	807	742	773
Maui County (incl. Kalawao)	1,864	1,833	1,755
Percent attended by M.D. or O.D. in hospital	94.6	94.6	95.0
Males per 100 females	105.6	106.0	104.8
Median weight of single births (grams)	3,305	3,295	3,310
Percent low birth weight (under 2,500 grams)	6.7	7.1	7.9
Percent single births under 40 weeks gestation	51.7	56.9	59.4
Percent plural	1.9	1.6	2.3
Percent with 1 or more congenital malformations	3.7	4.0	6.3
Percent to unmarried mothers	30.3	30.0	32.0
Percent with prenatal visit in first three months	81.7	81.3	81.0
Percent first child born to mother 1/	27.3	29.9	31.8
Percent first child born alive to mother	42.7	42.1	42.3
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-- BIRTH AND FERTILITY RATES FOR THE UNITED STATES AND HAWAII: 1997

[Excludes births to nonresidents of the United States]

Type of rate	United States	Hawaii	Rank of Hawaii 1/
Births per 1,000 population	14.5	14.7	14
Fertility rate 2/	65.0	69.0	9

1/ Among 50 States and D.C., highest rate ranking 1.
2/ Births per 1,000 women aged 15 to 44.
Source: *Statistical Abstract of the United States: 1999*, p. 77.

Table 2.08-- RESIDENT BIRTHS, MIXED AND UNMIXED RACE, BY MILITARY STATUS OF PARENTS: 1998

Military status of parents	Total births	Unmixed	Mixed 1/	Not reported 2/	Percent mixed 3/
Total	17,567	7,275	9,459	833	56.5
Military	2,993	2,103	838	52	28.5
Civilian	13,162	5,133	8,018	11	61.0
Status not reported	1,412	39	603	770	93.9

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 2.09-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX: 1998

A total of 7,496 first names, including variant spellings, was reported for the 17,628 babies born in Hawaii in 1998]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Joshua	135	Taylor	77
2	Matthew	102	Kayla	66
3	Noah	99	Ashley	64
4	Christian	85	Jessica	63
5	Austin	83	Alyssa	57
6	Brandon (tie)	81	Emily	52
7	Jacob (tie)	81	Sarah	49
8	Justin	79	Kiana (tie)	48
9	Christopher (tie)	78	Samantha (tie)	48
10	Tyler (tie)	78	Rachel	46

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

Table 2.10-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1998

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	95	Lee	78
2	Smith (tie)	55	Wong	56
3	Kim (tie)	55	Chang	37
4	Brown	52	Kim	32
5	Johnson	50	Nakamura (tie)	29
6	Wong	47	Tanaka (tie)	29
7	Williams	45	Ching (tie)	25
8	Ramos	43	Young (tie)	25
9	Young	41	Higa (tie)	24
10	Garcia	40	Lum (tie)	24

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

Table 2.11-- 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 2.12-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1900 TO 1997

[Average expectation of life (e_o) in years]

Year	United States 1/			Hawaii		
	Both sexes	Male	Female	Both sexes	Male	Female
1900	47.3	46.3	48.3	(NA)	(NA)	(NA)
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
1997	76.5	73.6	79.4	(NA)	(NA)	(NA)

NA Not available.

1/ 1910 and 1920 data are for the death-registration states only.

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, "United States Life Tables, 1997", *National Vital Statistics Reports*, Vol. 47, No. 28, Dec. 13, 1999, table 12; 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 Hawai'i, 1980 and 1990," *R & S Report*, No. 63 (August 1996), p. 9.

Table 2.13-- AVERAGE LIFETIME, BY SEX: 1959-61 TO 1989-91

Period	Years			Rank 1/		
	Both sexes	Male	Female	Both sexes	Male	Female
1959-1961	71.55	69.79	74.01	7	(NA)	(NA)
1969-1971	73.60	71.02	76.79	1	1	3
1979-1981	77.02	74.08	80.33	1	1	1
1989-1991 2/	78.21	75.37	81.26	1	1	1

NA Not available.

1/ Among the 50 states and D.C., with the highest average lifetime in years ranking 1.

2/ Average lifetime for all states combined was 75.37 years for both sexes combined, 71.83 years for males, and 78.81 years for females.

Source: U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, *Life Tables: 1959-61* , Vol. 2, No. 12, *Hawaii State Life Tables: 1959-61* (June 1966), p. 160, and unpublished tabulations; U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, *U.S. Decennial Life Tables for 1969-71*, Vol. II, No. 12, *Hawaii State Life Tables: 1969-71* (June 1975), p. 12-6; and U.S. Department of Health and Human Services, National Center for Health Statistics, *U.S. Decennial Life Tables for 1979-81*, Vol II, *State Life Tables*, No. 12, *Hawaii* (December 1985) p. 12-3, and *U.S. Decennial Life Tables for 1989-91*, Vol. II, *State Life Tables*, No. 12, *Hawaii* (March 1998), p. 4.

Table 2.14-- SELECTED LIFE TABLE VALUES: 1989-91

Exact age in years (x)	Average expectation of life in years (e_x)			Number surviving to specified age per 100,000 born alive (l_x)		
	Both sexes	Male	Female	Both sexes	Male	Female
0	78.21	75.37	81.26	100,000	100,000	100,000
1	77.80	75.01	80.78	99,253	99,154	99,358
5	73.95	71.18	76.92	99,053	98,925	99,189
15	64.12	61.37	67.06	98,817	98,647	98,997
25	54.53	51.89	57.32	98,128	97,739	98,570
35	45.04	42.58	47.59	97,132	96,291	98,063
45	35.74	33.49	38.06	95,418	93,989	96,982
55	26.98	24.93	29.06	91,637	89,354	94,067
65	18.98	17.31	20.66	83,847	79,600	88,093
75	12.01	10.88	13.07	68,406	61,075	76,007
85	6.55	5.71	7.07	40,617	32,940	49,596
95	3.29	2.92	3.40	8,840	5,002	12,652

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, *U.S. Decennial Life Tables for 1989-91,* Vol. II, *State Life Tables,* No. 12, *Hawaii* (March 1998), pp. 6-11.

Table 2.15-- CHARACTERISTICS OF RESIDENT DEATHS: 1996 TO 1998

[Excludes deaths to Hawaii residents occurring out of state]

Subject		1996	1997	1998
Number of resident deaths		7,803	7,710	7,969
City and County of Honolulu		5,557	5,484	5,609
Hawaii County		1,064	1,052	1,123
Kauai County		403	419	418
Maui County (incl. Kalawao)		779	755	819
Males per 100 females		132.7	133.1	130.5
Median age (years)		75	75	76
Centenarian deaths:	Male	11	14	11
	Female	52	42	51
Oldest (years):	Male	106	105	105
	Female	110	110	108
Percent married		46.4	46.3	45.0
Deaths under 1 year		98	104	116
Per 1,000 live births		5.3	6.0	6.6
Fetal deaths 1/		5,856	5,354	5,227
Per 1,000 deliveries		242	236	229
Fetal deaths, 20 or more weeks gestation 2/		178	148	142
Per 1,000 live births		9.6	8.5	8.1
Standard fetal deaths 3/		985	854	1,084
Elective abortions		4,871	4,500	4,143
Per 1,000 live births		265.0	259.7	235.8

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 2.16-- CAUSE OF DEATH, BY SEX: 1998

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	7,969	4,500	3,469
Tuberculosis	2	2	-
Other infective 1/	200	112	88
Malignant neoplasm	1,943	1,098	845
Digestive organs	567	346	221
Respiratory system	559	354	205
Breast	129	1	128
Genital organs	188	102	86
Urinary organs	84	60	24
Leukemia	73	38	35
Other	343	197	146
Diabetes mellitus	199	106	93
Heart disease	2,416	1,406	1,010
Rheumatic	24	9	15
Hypertensive	84	53	31
Ischemic	1,230	752	478
Other heart	1,078	592	486
Hypertension	53	21	32
Cerebrovascular disease	650	331	319
Arteriosclerosis	20	9	11
Other circulatory	126	69	57
Influenza/pneumonia	385	215	170
Chronic obstructive pulmonary diseases	261	154	107
Peptic ulcer	15	9	6
Cirrhosis of liver	67	50	17
Nephritis and nephrosis	106	56	50
Pregnancy, birth & puerperium	2	-	2
Congenital anomalies	33	18	15
Perinatal conditions	67	34	33
Symptoms, signs & ill-defined conditions	75	38	37
Other diseases 2/	876	430	446
Unintentional injury	291	209	82
Motor vehicles	122	87	35
Other	169	122	47
Suicide	112	78	34
Homicide & legal intervention	28	22	6
Other external causes	42	33	9

1/ Includes AIDS.
2/ Includes other respiratory.
Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.17-- GREATEST CATASTROPHIC MORTALITY OF RECORD, BY TYPE OF DISASTER: 1778 TO 2000

[Complete through May 16, 2000]

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/	10
	Oct. 15, 1997	Palolo	Fire destroyed 3 houses	7
Flood	Jan. 18, 1916	Iao; Wailuku	Cloudburst and flood	14
Homicide	Nov. 2, 1999	Iwilei	Mass murder in office	7
Hurricane	Sept. 11, 1992	Kauai; Oahu	Hurricane Iniki	8
Landslide	May 9, 1999	Sacred Falls	Landslide	8
Marine	1829 or 1830	New Hebrides	Losses to Boki's ships 2/	410
Motor vehicle	July 2, 1944	Waialua	Truck overturned 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 killed soldiers	80 or 400
War, riots, etc.	Dec. 7, 1941	Oahu	Pearl Harbor attack	2,500
	Jan. 1790	Olowalu	U.S. ship fired on native canoes	> 100
	Sept. 9, 1924	Hanapepe	Police fired on strikers	20

1/ Death toll in burning houses; in addition, 4 airmen perished.

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 1998,* table 2.17, as updated.

Table 2.18-- CATASTROPHIC MORTALITY: 1990 TO 2000

[Includes all accidents, natural disasters, and other events causing five or more deaths.
Complete through Aug. 1, 2000]

Date	Place	Kind of disaster	Deaths
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
1999: May 9	Sacred Falls, Oahu	Landslide	8
Sept. 25	Mauna Loa slope, Hawaii	Airplane crash	10
Nov. 2	Iwilei, Honolulu	Mass murder in office	7
2000: July 21	Iao Valley, Maui	Helicopter crash	7

Source: Hawaii State Department of Business, Economic Development & Tourism file of newspaper accounts.

Table 2.19-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1970 TO 1998

Method	1970	1980	1990	1996	1997	1998
All methods	4,197	5,204	7,055	8,148	8,016	8,297
Burial	2,197	2,343	2,798	2,861	2,811	2,855
Cremation	1,509	2,241	3,564	4,670	4,616	4,807
Removal	470	567	656	580	548	580
Entombment	13	44	35	11	20	16
Medical science	3	-	-	22	20	38
Other	-	1	-	1	-	-
Unknown	5	8	2	3	1	1

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

Table 2.20-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES: 1995 TO 1999

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
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
1998: June 30	2,600	1,974	287	112	227
1999: June 30	2,623	1,977	297	118	231

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

Table 2.21-- SELECTED CHRONIC CONDITIONS: 1997 AND 1998

[Provisional data. Based on a sample survey of 4,382 households with 12,923 persons]

Selected chronic conditions	Prevalence of condition		Conditions per 1,000 persons 1/	
	1997	1998	1997	1998
Diabetes	45,838	52,997	40	46
Hypertension	145,232	149,466	127	130
High blood cholesterol	143,407	144,026	125	125
Asthma	123,316	102,533	108	89
Arthritis	75,861	84,301	66	73

1/ Population base includes persons under 18 years, not usually subject to some of these conditions.
Source: Hawaii State Department of Health, Hawaii Health Survey, special tabulation.

Table 2.22-- SPECIFIED COMMUNICABLE DISEASES: 1994 TO 1998

[1998 data reported as of June 2000; earlier data not updated]

Disease	1994	1995	1996	1997	1998
Cases:					
AIDS	238	222	192	98	163
Campylobacteriosis	601	699	854	823	622
E. coli 0157:H7	(1/)	17	8	11	19
Fish poisoning 2/	119	129	43	92	111
Giardiasis	131	182	229	162	123
Gonorrhea	699	565	501	507	469
Hansen's Disease 3/	21	19	15	26	19
Hepatitis A	59	166	120	148	54
Hepatitis B (Acute)	28	32	14	11	18
Influenza	1,233	255	129	4/ 1,051	5/ 1,290
Leptospirosis 5/	22	23	42	60	46
Malaria 6/	15	12	12	13	9
Measles (Rubeola)	17	3	51	6	1
Meningitis, bacterial 7/	9	5	8	7	5
Mumps	19	14	31	27	26
Pertussis (whooping cough)	19	65	35	19	26
Pneumococcal disease	77	110	98	52	81
Rubella	4	5	3	9	2
Salmonellosis	304	303	428	387	295
Shigellosis	202	102	87	65	51
Syphilis (Primary & Secondary)	4	-	4	1	1
Tuberculosis	247	193	200	167	181
Deaths: 8/					
AIDS	145	130	73	38	23
Hansen's Disease 3/	1	-	-	-	-
Hepatitis A	-	-	1	-	-
Hepatitis B (Acute)	4	8	11	11	7
Influenza	-	1	3	3	10
Pneumococcal disease	1	2	1	-	1
Salmonellosis	-	1	1	-	-
Tuberculosis	4	6	5	10	2
Meningitis, bacterial					1
Shigellosis					1

Footnotes and source on next page.

Table 2.22--SPECIFIED COMMUNICABLE DISEASES: 1994 TO 1998 -- Cont.

1/ Reportable disease beginning in 1995.
2/ Scombroid, ciguatera and hallucinogenic fish poisoning.
3/ Excludes reinstated cases.
4/ Of the 1,051 reported cases, 252 cases were confirmed illnesses and 799 were influenza-like illnesses.
5/ Of the 1,290 repoeted cases, 205 cases were confirmed illnesses and 1,085 were influenza-like illnesses.
6/ Includes previously unreported cases.
7/ Acquired outside the State.
8/ Category changed from "meningitis, all types" to "meningitis, bacterial". Viral meningitis is no longer reported.
9/ Of the 26 cases, 7 were lab confirmed and 19 were clinically diagnosed.
10/ Of the 26 cases, 20 were confirmed and 6 probable.
11/ Resident data. For the years shown, no deaths were reported from campylobacteriosis, fish poisoning, giardiasis, gonorrhea, leptospirosis, malaria, measles (rubeola), mumps, pertussis, rubella, or syphilis. No data were available for deaths caused by E. coli 0157:H7.

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

Table 2.23-- HEALTH RISK BEHAVIORS AND CONDITIONS FOR PERSONS 18 YEARS AND OLDER: 1995 TO 1998

[Weighted percent of adults who reported the health risk behaviors or conditions]

Risk factor 1/	1995	1996	1997	1998
Seatbelt non-use	12.6	(NA)	12.8	(NA)
Acute drinking 2/	12.4	(NA)	17.1	(NA)
Chronic drinking 3/	2.9	(NA)	5.0	(NA)
Drinking and driving	2.1	(NA)	2.4	(NA)
High cholesterol	27.1	(NA)	31.5	(NA)
Hypertension	21.1	(NA)	23.9	(NA)
Lack of exercise 4/	(NA)	71.9	(NA)	69.7
Poor nutrition 5/	(NA)	74.9	(NA)	72.5
Diabetes	3.2	4.6	5.0	5.6
Current smokers 6/	17.8	22.2	18.7	19.5
Overweight 7/	22.4	23.9	26.6	27.8

NA Not available.

1/ Certain risk factor data are collected only on alternating years.

2/ Five or more drinks on at least one occasion, in the past month.

3/ Sixty or more drinks in the past month.

4/ No regular and sustained physical activity.

5/ Less than five fruits and vegetables a day.

6/ Listed as "cigarette smoking" in previous *Data Book* tables.

7/ Body mass index (BMI) greater than or equal to 27.3 for females; body mass index greater than or equal to 27.8 for males.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Behavioral Risk Factor Surveillance System (BRFSS) 1995-1998 at http://www.hawaii.gov/health/stats/hs_hsp.html and records.

Table 2.24-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1994 TO 1999

Category and year	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
Number of facilities:						
1994 4/	73	23	41	29	489	12
1995 4/	74	23	42	29	499	12
1996 4/	71	23	42	26	523	12
1997	76	24	43	30	521	11
1998	76	24	45	28	530	12
1999	(NA)	(NA)	(NA)	(NA)	538	13
Number of licensed beds: 5/						
1994 4/	7,130	2,600	3,492	1,038	2,216	407
1995 4/	7,130	2,642	3,504	984	2,274	393
1996 4/	7,433	2,633	3,814	986	2,403	393
1997	7,611	2,654	3,827	1,130	2,410	349
1998	7,847	2,619	4,063	1,165	2,463	363
1999	(NA)	(NA)	(NA)	(NA)	2,509	365

NA Not available.

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

2/ Five beds or fewer.

3/ Six beds or more.

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

5/ Number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in *The State of Hawaii Data Book 1996* and earlier 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 1994* (September 1995); State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1995* (March 1997); State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data* (June 1997); State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1997 Data* (July 1998); State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* (August 1999); and Office of Health Care Assurance, records.

Table 2.25-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1993 TO 1998

[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:				
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
1997	100,353	1,715	6.2	64.5
1998	103,795	1,620	5.7	61.9
Long-term care:				
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
1997	5,098	3,472	247	90.7
1998	5,789	3,675	232	90.5

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;* State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1997 Data;* State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* and records.

Table 2.26-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1998

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

	Hospitals				Care homes	
Category and island	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
NUMBER OF FACILITIES						
State total	76	24	45	28	530	12
Oahu	53	11	27	23	443	9
Hawaii	9	6	9	-	55	-
Kauai	5	3	5	-	16	2
Maui	6	2	2	4	11	-
Molokai	2	1	1	1	5	1
Lanai	1	1	1	-	-	-
NUMBER OF LICENSED BEDS 4/						
State total	7,847	2,619	4,063	1,165	2,463	363
Oahu	5,609	2,053	2,484	1,072	2,083	294
Hawaii	939	250	689	-	241	-
Kauai	384	108	276	-	62	57
Maui	857	196	582	79	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. Total for number of licensed beds pertains only to hospitals. Care home beds are not licensed by the Department of Health.

2/ Five beds or fewer.

3/ More than five beds.

4/ For hospitals only, number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in the the *State of Hawaii Data Book 1996* and earlier 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, Hawaii State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* (August 1999) and the Office of Health Care Assurance, records.

Table 2.27-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1998

[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	103,795	1,620	5.7	61.9
Oahu	76,687	1,281	6.1	62.4
Hawaii	12,055	147	4.4	58.7
Kauai	5,445	56	3.8	51.9
Maui	9,404	135	5.3	69.1
Molokai	171	1	2.4	14.1
Lanai	33	1	2.8	6.2
LONG-TERM CARE				
State total	5,789	3,675	232	90.5
Oahu	3,797	2,317	223	93.3
Hawaii	904	647	261	94.0
Kauai	487	265	199	96.0
Maui	494	420	310	72.2
Molokai	102	19	69	87.8
Lanai	5	6	442	60.5

Source: Hawaii State Department of Health, Hawaii State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* (August 1999).

Table 2.28-- ADULT PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1988 TO 1998

Facilities and year	Persons active, Dec. 31	Admissions	Discharges	Persons served
Hawaii State Hospital:				
1988 1/	237	712	689	926
1989 1/	220	777	794	1,014
1990 1/	193	738	765	958
1991 1/	159	311	345	504
1992	198	394	355	553
1993	195	446	449	644
1994	199	275	271	470
1995 2/	172	107	123	295
1996	164	102	110	274
1997	163	100	101	264
1998	161	137	132	293
State-supported outpatient community mental health centers:				
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
1998	3,395	539	743	3/ 3,557

1/ Figures include children and adolescents who were part of Hawaii State Hospital until the end of June 1991.

2/ 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.

3/ Number of persons served is for fiscal year 1998. Data reports were unavailable since August 1998 due to the fire in Kinau Hale which destroyed some files. Reports from the new data system are estimated to be available in August 1999.

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

Table 2.29-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1995 TO 1999

Year	Number of beds, June 30 1/	Admissions 2/		Patients in hospital 4/	
		Total	First 3/	Average 2/	June 30
1995	202	117	112	186	171
1996	202	89	87	170	167
1997	202	101	100	164	168
1998	202	113	106	164	163
1999	202	132	115	164	162

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/ Admissions in which a person has entered the facility for the first time during the fiscal year that data are being collected for.

4/ Includes patients on leave and absent without leave. In 1999, about .4% of the patients were on leave or absent without leave.

Source: Hawaii State Hospital, records.

Table 2.30-- HANSEN'S DISEASE PATIENTS REGISTERED: 1994 TO 1998

Subject	1994	1995	1996	1997	1998
Patients on register, Dec. 31	419	390	365	357	346
Department of Health's Hansen's Disease Community Program 1/	342	320	301	297	293
Kalaupapa	74	68	64	60	53
Hale Mohalu at Leahi	3	2	-	-	-
New cases	21	19	15	26	19
Deaths	11	15	11	6	13

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 2.31--COMMUNITY HOSPITAL CHARACTERISTICS, FOR THE UNITED STATES AND HAWAII: 1996

Characteristic	United States	Hawaii	
		Number	Rank 1/
Number of community hospitals	5,134	21	46
Beds	862,352	3,045	45
Admissions	31,098,959	99,780	43

1/ Among 50 states, largest number ranking 1.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data 1999-2000* (1999), pp. 112.

Table 2.32-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: JUNE 30, 1999

[Excludes inactive licenses]

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	6,026	1,362	10,514	1,377
Hawaii addresses				
Hawaii	258	96	923	75
Maui	224	71	800	68
Lanai	2	1	11	-
Molokai	8	3	35	2
Oahu	2,524	821	6,682	615
Kauai	109	41	383	38
Mainland U.S.	2,833	318	1,577	572
Foreign	68	11	103	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 2.33-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997

[Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in earlier Economic Censuses. Therefore, comparability between the 1992 and the 1997 data may be limited]

NAICS code	Kind of business or operation	Establish-ments (number)	Receipts/ revenues ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
	Firms subject to federal income tax				
62	Health care and social assistance	2,360	1,646,255	730,786	18,221
621	Ambulatory health care services 1/	2,249	1,356,713	586,581	13,828
6211	Offices of physicians	1,076	731,276	359,150	6,125
6212	Offices of dentists	657	267,597	101,463	3,266
6213	Offices of other health practitioners	380	96,062	31,945	1,359
6214	Outpatient care centers	47	58,253	22,090	501
6215	Medical and diagnostic laboratories	42	139,451	45,210	1,264
6216	Home health care services	31	30,749	13,304	924
6219	Other ambulatory health care services	16	33,325	13,419	389
622	Hospitals	1	(D)	(D)	(g)
623	Nursing and residential care facilities	37	118,739	53,915	2,121
6231	Nursing care facilities	21	113,137	51,993	2,001
6232	Residential mental retardation/health and substance abuse facility	7	(D)	(D)	(b)
6233	Community care facilities for the elderly	8	3,087	1,047	79
6239	Other residential care facilities	1	(D)	(D)	(a)
624	Social assistance	73	(D)	(D)	(f)
6241	Individual and family services	23	(D)	(D)	(c)
6242	Community food and housing/emergency and other relief services	2	(D)	(D)	(a)
6243	Vocational rehabilitation services	13	13,465	6,546	251
6244	Child day care services	35	(D)	(D)	(c)
	Firms exempt from federal income tax				
62	Health care and social assistance	581	2,329,058	886,904	29,344
621	Ambulatory health care services 1/	73	477,944	113,921	3,172
6214	Outpatient care centers	56	433,619	93,420	2,318

Continued on next page.

Table 2.33-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997--Con.

NAICS code	Kind of business or operation	Establish-ments (number)	Receipts/ Revenues ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
	Firms exempt from federal income tax (cont.)				
6216	Home health care services	13	33,353	15,892	703
6219	Other ambulatory health care services	4	10,972	4,609	151
622	Hospitals	28	1,527,862	624,708	17,876
6221	General medical and surgical hospitals	21	1,259,785	509,759	14,515
6222	Psychiatric and substance abuse hospitals	3	62,694	36,738	1,053
6223	Specialty (except psychiatric and substance abuse) hospitals	4	205,383	78,211	2,308
623	Nursing and residential care facilities	42	84,959	38,336	1,884
6231	Nursing care facilities	6	44,051	19,475	816
6232	Residential mental retardation/health and substance abuse facility	21	22,439	10,518	613
6233	Community care facilities for the elderly	4	11,448	5,127	264
6239	Other residential care facilities	11	7,021	3,216	191
624	Social assistance	438	238,293	109,939	6,412
6241	Individual and family services	226	138,787	68,864	3,622
6242	Community food and housing/emergency and other relief services	56	36,331	11,303	651
6243	Vocational rehabilitation services	18	18,219	8,382	567
6244	Child day care services	138	44,956	21,390	1,572

D Withheld to avoid disclosing data of individual companies.
a 0 to 19 employees.
b 20 to 99 employees.
c 100 to 249 employees.
f 500 to 999 employees.
g 1,000 to 2,499 employees.
1/ The ambulatory health care services subsector includes industries that provide health care services directly or indirectly to ambulatory patients and do not usually provide inpatient services. Health practitioners provide outpatient services, with the facilities and equipment not usually being the most significant part of the production process.

Source: U.S. Census Bureau, *1997 Economic Census, Health Care and Social Assistance, Geographic Area Series, Hawaii,* EC97S62A-HI (June 1999), table 1a and 1b.

Table 2.34-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1997

Geographic area	Establishments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
State total	2,360	1,646,255	730,786	18,221
Hawaii County	321	224,838	76,168	2,441
Hilo	180	155,372	53,922	1,643
Kailua	48	20,531	8,061	323
Honolulu County	1,730	1,231,679	563,133	13,474
Aiea	63	32,176	12,175	324
Ewa Beach	18	8,586	3,823	91
Honolulu	1,194	925,469	427,398	9,866
Kailua	108	44,072	20,820	526
Kaneohe	63	37,576	16,272	587
Laie	3	987	356	8
Maunawili	6	3,289	1,449	29
Mililani Town	25	15,627	7,193	169
Pearl City	29	26,382	9,086	296
Wahiawa	35	20,900	8,593	253
Waianae	10	4,600	1,810	67
Waimalu	66	49,106	25,257	463
Waipahu	53	22,729	10,152	239
Waipio	5	1,425	597	18
Kauai County	79	51,361	27,610	745
Kalaheo	4	2,202	813	23
Kapaa	13	4,199	1,917	75
Lihue	42	36,828	20,221	478
Maui County	230	138,377	63,875	1,561
Haiku-Pauwela	4	515	325	3
Kahului	60	29,376	12,446	355
Kaunakakai	5	1,220	329	36
Kihei	23	9,386	3,327	132
Lahaina	17	8,516	4,949	106
Makawao	9	1,704	595	30
Pukalani	9	3,552	1,127	50
Wailea-Makena	3	686	345	3
Wailuku	82	77,680	38,055	735

Source: U.S. Census Bureau, *1997 Economic Census, Health Care and Social Assistance, Geographic Area Series*, EC97S62A-HI (June 1999), table 1a, 3, and 4.

Table 2.35-- MARRIAGES AND DIVORCES: 1980 TO 1998

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annul-ments 2/	Rates per 1,000 resident population 3/		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annul-ments 2/	Nonresi-dent 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	6/ 4.3	48.6	44.5
1995	18,669	9,277	5,505	6/ 7.9	4.7	50.3	45.0
1996	19,589	9,003	4,903	7.6	4.1	54.0	45.6
1997	19,901	8,878	4,877	6/ 7.5	4.1	55.5	44.8
1998	20,974	8,750	4,914	7.4	4.1	58.3	46.3

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. 29, 1999.
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.
6/ Change due to revision in the population estimate.
Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; Rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

Table 2.36-- MARRIAGE AND DIVORCE RATES BASED ON RISK POPULATION: 1910 TO 1990

	Females 15 years old and over 1/		Marriages 2/		Divorces 2/	
Census year	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 2.37-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1995 TO 1998

[Place of occurrence basis]

Subject	1995	1996	1997	1998
MARRIAGES				
Number	18,669	19,589	19,901	20,974
Percent on Oahu	51.1	49.0	46.5	45.7
Percent Hawaii residents:				
Both bride and groom	46.6	42.4	41.3	38.2
One partner only	3.1	3.5	3.2	3.5
Neither bride nor groom	50.3	54.0	55.5	58.3
Median age (years):				
Groom	32	32	32	33
Bride	29	30	30	30
Percent previously married:				
Groom	38.4	38.8	39.1	38.8
Bride	38.7	38.8	39.8	39.5
DIVORCES AND ANNULMENTS				
Number	5,505	4,903	4,877	4,914
Divorces	5,494	4,883	4,858	4,894
Annulments	9	20	17	17
Not reported	2	-	2	3
Percent occurring on Oahu	76.1	73.9	74.3	73.9
Percent Hawaii residents:				
Both partners	75.5	76.0	75.7	74.3
One partner only	23.0	23.0	23.4	24.4
Neither partner	<0.1	<0.1	0.1	<0.1
Not reported 1/	1.4	0.9	0.8	1.3
Median age (years):				
Husband	36	37	37	37
Wife	34	35	34	35
Percent interracial 2/	41.9	41.5	43.2	42.5
Percent with children under 18 years	50.1	50.9	50.1	49.5
Median years married	6.4	6.8	6.7	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 2.38-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1998

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents	Residence unknown
All marriages	20,974	8,746	12,226	2
Race of partners:				
Both partners same race 1/	15,273	4,616	10,656	1
Different	5,701	4,130	1,570	1
Percent different	27.2	47.2	12.9	-
Type of ceremony:				
Civil ceremony	3,177	2,525	652	-
Religious ceremony	17,796	6,221	11,573	2
Unknown	1	-	1	-

1/ Includes marriages with both partners of unknown race.
Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.39-- MARITAL DISSOLUTION: 1980 TO 1998

Subject	1980	1990	1998	Percent		
				1980	1990	1998
Married couples	185,698	210,468	226,087	100.0	100.0	100.0
Marriages ended	6,782	8,292	8,690	3.7	3.9	3.8
By divorce	4,438	5,172	4,914	2.4	2.5	2.2
By death	2,344	3,120	3,776	1.3	1.5	1.7
Husbands	1,678	2,234	2,700	0.9	1.1	1.2
Wives	666	886	1,076	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; 1998 DBEDT estimate of married couples, based on 1990-98 percent increase in estimated population.

Section 3: Education

Section Narrative			
3.01	School Enrollment, by Type of School and Age, by Geographic Areas: 1990		
3.02	Educational Attainment, by Geographic Area: 1990		
3.03	Years of School Completed by Persons 25 Years Old and Over: 1940 to 1990		
3.04	Educational Attainment of Persons 25 Years Old and Over, by Counties: 1990		
3.05	Years of School Completed by Persons 25 Years Old and Over, for the United States and Hawaii: March 1998		
3.06	Private Educational Services (SIC 82), by Type of Service: 1997		
3.07	Private Educational Services (NAICS 61), by Type of Services: 1997		
3.08	Public and Private School Enrollment, by Grades: 1997 to 1999		
3.09	Public School Enrollment by Grades, by Counties: September 1999		
3.10	Private Schools, Teachers, and Enrollment, 1993-94 to 1997-98 and Private High School Graduates, 1991-1992 to 1996-1997		
3.11	Scholastic Assessment Test Score Averages: 1998 and 1999		
3.12	Stanford Achievement Test Results for Public School Grades 3, 5, 7, and 9: Spring 1999		
3.13	Enrollment at the University of Hawaii, by Campus: Fall 1989 to 1999		
3.14	Degrees, Diplomas, and Certificates Awarded by the University of Hawaii: 1989 to 1999		
3.15	University of Hawaii Curricula, Tuition, Finances, and Faculty and Staff: 1996 to 1998		
3.16	Enrollment and Earned Degrees Conferred, for Private Colleges and Universities: 1993 to 1999		
3.17	Residence and Migration of Freshmen Students in Institutions of Higher Education and Freshmen Students Graduating from High School in the Past 12 Months: Fall 1996		
3.18	Characteristics of the Hawaii State Library System: 1994 to 1999		
3.19	Characteristics of the Hawaii State Library System by Districts: 1999		
3.20	University of Hawaii Library System Holdings and Circulation, by Campus: 1998 and 1999		

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: 1999* 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 1998

[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	172,211	82.8	0.3	24.4	0.3
Hawaii	773	84.6	2.2	24.0	2.6
Rank 2/	40	23	...	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. Bureau of the Census, *Educational Attainment in the United States: March 1998*, Detailed Tables, from website http://www.census.gov/.

Table 3.06-- PRIVATE EDUCATIONAL SERVICES (SIC 82), BY TYPE OF SERVICE: 1997

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	325	70	11,297	272,982
821	Elementary and secondary schools	113	49	6,471	188,052
822	Colleges and universities	28	9	3,575	64,955
823	Libraries	5	1	33	926
824	Vocational schools	34	-	164	3,925
829	Schools and educ. services, n.e.c.	145	11	1,054	15,124

Source: U.S. Bureau of the Census, *County Business Patterns 1997, Hawaii*, CBP 97-13 (September 1999), p. 12.

Table 3.07-- PRIVATE EDUCATIONAL SERVICES (NAICS 61), BY TYPE OF SERVICE: 1997

NAICS code	Type of service	Establish-ment (number)	Receipts/ Revenue ($1,000)	Employees, week including March 12	Annual payroll ($1,000)
611	Educational services	277	75,686	1,610	26,096
6114	Business schools, & computer & management training	27	8,687	189	4,686
6115	Technical & trade schools	29	13,582	184	3,790
6116	Other schools & instruction	203	44,194	1,140	14,787
6117	Educational support services	18	9,223	97	2,833

Source: U.S. Bureau of the Census, *1997 Economic Census, Educational Services, Geographic Area Series* EC97S61A-HI (August 1999), p. 7.

Table 3.08-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES: 1997 TO 1999

Grade	September 1997			September 1998			September 1999		
	Total	Public 1/	Private	Total	Public 1/	Private	Total	Public 1/	Private 3/
All grades	226,610	189,887	36,723	224,771	188,069	36,702	222,086	185,860	36,226
Nursery	4,763	606	4,157	5,018	674	4,344	3,988	824	3,164
Kindergarten	17,466	14,915	2,551	16,806	14,481	2,325	15,555	14,055	1,500
1	17,818	15,617	2,201	17,060	14,904	2,156	15,535	14,227	1,308
2	17,839	15,642	2,197	17,016	14,954	2,062	15,382	14,149	1,233
3	16,522	14,489	2,033	16,904	14,863	2,041	15,457	14,184	1,273
4	15,820	13,813	2,007	15,750	13,730	2,020	15,455	14,152	1,303
5	15,323	13,376	1,947	15,170	13,202	1,968	14,493	13,184	1,309
6	15,137	12,908	2,229	14,833	12,674	2,159	14,073	12,591	1,482
7	15,134	12,227	2,907	14,830	11,934	2,896	13,783	11,937	1,846
8	15,272	12,345	2,927	14,476	11,601	2,875	13,199	11,354	1,845
9	17,579	14,742	2,837	16,999	14,103	2,896	15,345	13,317	2,028
10	15,507	12,660	2,847	15,106	12,374	2,732	13,833	11,804	2,029
11	14,115	11,527	2,588	14,297	11,531	2,766	13,047	11,115	1,932
12	11,928	9,459	2,469	12,126	9,523	2,603	11,674	9,698	1,976
Specials 2/	16,387	15,561	826	18,380	17,521	859	19,812	19,269	543

NA Not available.

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

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

3/ 1999 data for Hawaii Catholic Schools are included in the total but not reflected in the individual grade

Source: Hawaii Council of Private Schools, *Private School Enrollment Report* (annual) , Hawaii State Department of Education, records.

Table 3.09-- PUBLIC SCHOOL ENROLLMENT BY GRADES, BY COUNTIES: SEPTEMBER 1999

Grade	State total 1/	Hawaii	Maui	Honolulu 1/	Kauai
All grades	185,860	27,675	21,655	125,579	10,860
Nursery	824	118	85	569	39
Kindergarten	14,055	1,793	1,494	10,019	749
1	14,227	1,865	1,579	9,992	791
2	14,149	1,959	1,524	9,940	725
3	14,184	2,027	1,519	9,829	809
4	14,152	2,013	1,555	9,830	754
5	13,184	1,876	1,487	9,101	720
6	12,591	1,838	1,360	8,637	756
7	11,937	1,781	1,349	8,073	734
8	11,354	1,823	1,385	7,472	674
9	13,317	2,219	1,561	8,825	710
10	11,804	1,915	1,458	7,751	680
11	11,115	1,884	1,372	7,156	703
12	9,698	1,653	1,185	6,247	613
Specials 2/	19,269	2,911	2,742	12,138	1,403

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/public/stats/EN98a.NSF

Table 3.10-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT, 1993-1994 TO 1997-1998, AND PRIVATE HIGH SCHOOL GRADUATES, 1991-1992 TO 1996-1997

[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
1997-98	126	33,300	2,658	1996-97	2,618

Source: National Center for Education Statistics, Private School Universe Survey, 1993-94, NCES 96-143 (May 15,1996), Private School Universe Survey, 1995-96, NCES 98-229 (March 25,1998), Private School Universe Survey, 1997-98, NCES 1999-319 (August 31,1999).

Table 3.11-- SCHOLASTIC ASSESSMENT TEST SCORE AVERAGES: 1998 AND 1999

[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	
	1998	1999	1998	1999
Mathematical	513	513	512	511
Verbal	483	482	505	505

Source: *Honolulu Star Bulletin, August 31, 1999.*

Table 3.12-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 3, 5, 7, AND 9: SPRING 1999

[Percent of students taking test. The 1999 test differed in several respects from the 1998 test reported in the *Databook 1998* , table 3.17]

Subject and level	U.S. Average	Hawaii results , by grade			
		Grade 3	Grade 5	Grade 7	Grade 9
Reading:					
Low	23	28	26	28	36
Average	54	56	56	54	53
High	23	16	18	18	11
Math:					
Low	23	24	25	24	21
Average	54	52	49	53	58
High	23	23	27	22	20
Open-ended reading: 1/					
Low	23	23	12	26	29
Average	54	54	61	60	50
High	23	23	26	14	21

1/ New category in 1999. Essay type rather than multiple-choice, as used in reading and math questions.
Source: *Honolulu Star-Bulletin,* December 17, 1999, p. A-7.

Table 3.13-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1989 TO 1999

[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		Unclassified 1/		
			Under-graduates	Gradu-ates			
1989	43,785	18,622	12,021	4,601	2,000	1,935	601
1990	45,870	18,874	12,073	4,809	1,992	2,564	652
1991	47,668	19,383	12,530	5,005	1,848	2,681	667
1992	49,851	19,865	12,838	5,207	1,820	2,966	692
1993	50,647	20,090	12,991	5,343	1,756	3,174	676
1994	51,677	20,041	12,903	5,518	1,620	2,987	744
1995	50,242	19,801	13,050	5,220	1,531	2,872	716
1996	47,379	18,252	12,216	4,789	1,247	2,800	648
1997	45,551	17,365	11,782	4,514	1,069	2,639	648
1998	45,337	17,013	11,500	4,508	1,005	2,730	685
1999	46,479	17,612	11,458	4,741	1,413	2,790	687

Year	Community Colleges 3/							
	Total	Honolulu	Kapiolani	Leeward	Windward	Hawaii	Kauai	Maui
1989	22,627	4,199	5,741	5,652	1,606	2,038	1,313	2,078
1990	23,780	4,383	6,292	5,812	1,627	1,896	1,424	2,346
1991	24,937	4,466	6,550	6,351	1,616	1,857	1,507	2,590
1992	26,328	4,774	7,132	6,135	1,787	2,207	1,580	2,713
1993	26,707	4,741	7,375	6,473	1,642	2,415	1,464	2,597
1994	27,905	4,824	7,648	6,507	1,767	2,815	1,518	2,826
1995	26,853	4,445	7,329	6,368	1,674	2,811	1,461	2,765
1996	25,679	4,090	7,373	6,014	1,518	2,463	1,367	2,854
1997	24,899	3,970	7,189	5,936	1,513	2,221	1,283	2,787
1998	24,909	4,124	7,236	5,765	1,491	2,308	1,136	2,849
1999	25,390	4,769	7,254	5,570	1,514	2,279	1,142	2,862

Note: Unclassified includes Specials, beginning Spring 1999. Data for prior years have been adjusted from records and therefore may not tie to number published in previous years.

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 3.14-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY THE UNIVERSITY OF HAWAII: 1989 TO 1999

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/
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
1998	-	2,528	932	161	128	81
1999	-	2,481	1,041	160	127	54

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
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	-
1998	46	411	147	396	2,310	4
1999	31	419	189	371	2,244	11

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 3.15-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES, AND FACULTY AND STAFF: 1997 TO 1999

Subject		1997	1998	1999
Curricula offered at Manoa Campus, Fall 1/		280	282	285
Bachelor's degree programs		88	90	88
Master's degree programs		87	87	88
Doctoral programs (DrPH, EdD, PhD)		55	56	58
Other programs 1/		50	49	51
Tuition per semester (full-time undergraduate, regular session) (dollars):				
Manoa Campus:	Resident	1,416	1,464	1,512
	Nonresident	4,656	4,704	4,752
Hilo (upper division):	Resident	1,068	1,104	1,140
	Nonresident	3,852	3,888	3,924
West Oahu:	Resident	876	912	948
	Nonresident	3,444	3,480	3,516
Community colleges:	Resident	468	492	516
	Nonresident	2,856	2,880	2,904
Finances, fiscal year ending June 30:				
Current fund revenues ($1,000)		575,003	621,334	653,675
Current fund expenditures ($1,000)		648,926	688,945	676,483
Faculty and staff, October		7,816	7,830	7,956
Board of Regents appointees		6,132	6,156	6,253
Full-time		4,120	4,111	4,162
Part-time		2,012	2,045	2,091
Civil Service personnel		1,684	1,674	1,703
Full-time		1,641	1,625	1,659
Part-time		43	49	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 3.16-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1993 TO 1999

[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	Asso-ciate's	Bache-lor's	Master's
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	13,296	11,710	1,586	356	1,362	474
Brigham Young	2,294	2,294	-	29	212	-
Chaminade	2,612	2,130	482	168	231	137
Hawaii Pacific	8,390	7,286	1,104	159	919	337
1998, total	13,496	11,764	1,732	436	1,518	491
Brigham Young	2,301	2,301	-	28	267	-
Chaminade	2,690	2,034	656	173	236	145
Hawaii Pacific	8,505	7,429	1,076	235	1,015	346
1999, total	13,539	11,738	1,801	461	1,620	578
Brigham Young	2,276	2,276	-	22	312	-
Chaminade	2,740	2,029	711	190	287	220
Hawaii Pacific	8,523	7,433	1,090	249	1,021	358

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

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 3.17-- RESIDENCE AND MIGRATION OF FRESHMEN STUDENTS IN INSTITUTIONS OF HIGHER EDUCATION AND FRESHMEN STUDENTS GRADUATING FROM HIGH SCHOOL IN THE PAST 12 MONTHS: FALL 1996

Category	New undergraduate students 1/	Freshmen students 2/	
		Total	In 4-year colleges
Students enrolled in State 3/	9,519	6,062	3,037
Students residents of State 4/	9,936	7,020	3,929
Students remaining in State 5/	7,611	4,951	1,978
Migration of students:			
Out of State	2,325	2,069	1,951
Into State	1,908	1,111	1,059
Net migration	-417	-958	-892

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 1998*, pp. 225-227.

Table 3.18-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM: 1994 TO 1999

Subject	1994	1995	1996	1997	1998	1999
Library locations, June 30	49	49	49	49	49	50
Oahu	23	23	23	23	23	23
Other islands	26	26	26	26	26	27
Personnel, June 30 1/	614.05	514.05	512.05	512.05	512.05	512.05
Librarians	179.00	159.00	159.00	159.00	159.00	157.00
All others	435.05	355.05	353.05	353.05	353.05	355.05
Hours open 2/	55	53	53	53	53	53
Collections, June 30 (1,000)	3,364	3,644	3,662	3,197	3,201	3,317
Circulation, year ended June 30 (1,000)	7,259	7,499	7,407	7,602	7,781	7,345

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.

Source: Hawaii State Public Library System, Administrative Services Branch, records.

Table 3.19-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM BY DISTRICTS: 1999

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30
Total system	50	512.05	7,344,856
Oahu	23	306.00	5,002,276
Hawaii State Library	1	85.00	667,126
East Oahu Library District	12	120.50	2,423,713
West Oahu Library District	9	88.50	1,874,469
Library for the Blind and Physically Handicapped	1	12.00	36,968
Other islands	27	129.05	2,342,580
Hawaii Library District	13	58.05	1,114,005
Kauai Library District	6	28.50	501,876
Maui Library District 2/	8	42.50	726,699
Administration/Centralized Processing Center	…	77.00	…

	Collections, June 30			
District	Books	Periodical subscriptions	Video tapes	Sound recordings 3/
Total system	3,066,872	5,378	51,136	199,398
Oahu	1,999,187	3,116	30,344	62,683
Hawaii State Library	532,257	1,631	5,237	13,681
East Oahu Library District	853,895	1,035	16,266	29,891
West Oahu Library District	613,035	450	8,841	19,111
Other islands	1,031,740	2,231	20,591	31,538
Hawaii Library District	464,553	1,010	8,939	9,801
Kauai Library District	226,002	417	6,171	9,487
Maui Library District 2/	341,185	804	5,481	12,250
Library for the Blind and Physically Handicapped 4/	35,945	31	201	105,177

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, Administrative Services Branch, records.

Table 3.20-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1998 AND 1999

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1998	1999	1998	1999
All campuses	3,597,854	3,672,002	725,317	749,924
University of Hawaii at Manoa 1/	2,991,974	3,055,401	537,331	577,544
University of Hawaii-West Oahu	26,708	26,829	5,585	4,725
University of Hawaii at Hilo 2/ 3/	252,187	257,688	66,006	61,028
Community colleges, total 2/	326,985	332,084	116,395	106,627
Honolulu	55,012	54,372	8,376	8,641
Kapiolani	67,133	68,755	28,252	26,060
Leeward	64,687	65,214	19,811	16,896
Windward	46,417	45,816	12,391	11,550
Kauai	48,095	49,381	9,990	9,026
Maui 4/	45,641	48,546	37,575	34,454

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.

3/ UH Hilo bound volumes also include Government Documents.

4/ Maui circulation also includes in-house and Interlibrary loan counts.

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

Section 4: Law Enforcement, Courts and Prisons

Section Narrative	
4.01	Crime Victimization, by Type of Offense, Age, Sex, and Counties: 1997
4.02	Actual Major (Part I) Offenses Known to the Police, by Counties: 1988 to 1998
4.03	Actual Part I Offenses Known to the Police, by Type of Offense, for the State of Hawaii: 1989 to 1998
4.04	Actual Offenses Known to Police and Offenses Cleared by Arrest or Otherwise, by Class of Offense: 1988 to 1998
4.05	Actual Offenses Known to Police and Offenses Cleared by Arrest or Otherwise, by Class of Offense, by Counties: 1998
4.06	Actual Part I Offenses Known to Police and Part I Offenses Cleared by Arrest or Otherwise, for the State and Oahu: 1998
4.07	Persons Arrested for Part I and Part II Offenses, by Age and Sex, for Counties: 1998
4.08	Child Abuse and Neglect Reports: 1970 to 1998
4.09	Characteristics of Child Abuse and Neglect Reports and Victims: 1998
4.10	Value of Property Reported Stolen and Value of Stolen Property Recovered, by Category: 1988 to 1998
4.11	Value of Property Stolen and Value of Stolen Property Recovered, by Counties: 1998
4.12	Crime Rates for the United States and Hawaii: 1997 and 1998
4.13	Authorized Police Personnel, by Counties: December 1999
4.14	Courts, Judges, Magistrates, and Attorneys: 1997 to 1999
4.15	United States District Court Cases: 1997 to 1999
4.16	United States Bankruptcy Court Cases Filed Under Chapter 7 and Chapter 13 of the Bankruptcy Code: 1989 to 1999
4.17	State Judiciary Cases Filed, by Type of Action: 1997 to 1999
4.18	State Judiciary Cases Terminations, By Type of Action: 1997 to 1999
4.19	Inmates Present in State Correctional Facilities: Annual Averages, 1989 to 1999
4.20	Median Ages and Average Sentences of Sentenced Felon Population: 1989 to 1999

4.21	Hawaii Paroling Authority Statistical Summary: 1996 to 1999	

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 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: 1999*, Section 5.

Table 4.01-- CRIME VICTIMIZATION, BY TYPE OF OFFENSE, AGE, SEX, AND BY COUNTIES: 1997

[Based on 879 complete responses to a questionnaire mailed to 1,465 licensed drivers]

County, sex, and age	Percent victimized 1/			Selected offenses	Percent victim-ized 1/	Percent of crimes reported to police
	Any crime	Property crime	Violent crime			
Total	48.0	45.0	11.6	Robbery	1.2	50.0
				Attempted robbery	1.2	50.0
County:				Assault	1.0	67.7
Honolulu	50.8	48.1	11.7	Threatened assault	5.9	31.1
Hawaii	47.9	41.4	13.7	Rape	0.9	20.0
Maui	41.1	38.4	9.8	Other sexual assault	0.8	0.0
Kauai	28.6	29.2	8.2	Vehicle theft	7.1	91.2
				Theft from vehicle	24.4	50.8
Sex:				Attempted theft from vehicle	14.7	33.3
Male	51.1	48.0	13.0	Burglary	9.1	68.7
Female	45.0	42.1	10.1	Attempted burglary	18.0	77.4
Age (years):						
16 to 18	60.9	52.2	26.1			
19 to 24	64.3	51.8	19.6			
25 to 34	59.1	54.5	19.7			
35 to 44	49.5	47.3	9.9			
45 to 54	53.2	50.6	12.7			
55 to 64	36.3	33.7	8.8			
65 to 74	32.6	32.6	0.0			
75 and over	20.4	20.8	2.0			

1/ One or more times in 1997.

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

Table 4.02-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTIES: 1988 TO 1998

[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/				
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	2/ 61.3	51,175	7,518	2,605	6,659
1991	68,116	60.2	51,294	7,279	2,385	7,158
1992	71,258	2/ 62.0	53,826	6,940	2,502	7,990
1993	73,935	2/ 63.7	56,681	6,919	2,355	7,980
1994	79,190	2/ 67.5	61,158	7,162	2,383	8,487
1995	85,824	2/ 72.7	67,439	7,107	2,657	8,621
1996	78,314	2/ 66.1	60,352	6,889	2,987	8,086
1997	71,874	2/ 60.4	53,713	7,353	2,855	7,953
1998	63,997	53.8	47,731	6,804	2,265	7,197

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. 29, 1999.

2/ Changed due to revision in the population estimate.

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 as well as 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: 1989 TO 1998

Offense	1989	1990	1991	1992	1993
All Part I offenses	69,601	67,957	68,116	71,258	73,935
Murder	53	44	45	42	45
Manslaughter (negligent) 1/	1	2	1	-	1
Forcible rape 2/	353	352	375	440	394
Robbery	908	1,016	986	1,151	1,214
Aggravated assault	1,427	1,605	1,338	1,365	1,408
Burglary	14,879	13,577	14,011	13,006	13,310
Larceny - theft	47,204	46,699	47,195	50,544	51,912
Motor vehicle theft	4,385	4,224	3,814	4,351	5,283
Arson 3/	391	438	351	359	368

Offense	1994	1995	1996	1997	1998
All Part I offenses	79,190	85,824	78,314	71,874	63,997
Murder	50	56	40	47	24
Manslaughter (negligent) 1/	3	-	-	2	-
Forcible rape 2/	359	336	326	371	352
Robbery	1,221	1,553	1,606	1,403	1,225
Aggravated assault	1,461	1,564	1,350	1,478	1,345
Burglary	14,029	13,832	12,781	12,741	11,169
Larceny - theft	55,260	59,907	54,701	48,984	43,914
Motor vehicle theft	6,383	8,199	7,157	6,468	5,594
Arson 3/	424	377	353	380	374

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: 1988 TO 1998

	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
Year	Part I	Part II, except traffic 2/	Part I	Part II, except traffic 2/	Part I	Part II, except traffic 2/
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
1997	71,874	117,352	12,692	3/ 85,606	17.7	3/ 72.9
1998	63,997	109,183	12,069	72,564	18.9	66.5

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

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

3/ A special effort by the Hawaii County Police Department to close cases which were referred to the Prosecutor dating back to 1984 resulted in a greater number of Part II clearances than would normally be expected.

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: 1998

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/
State total	63,997	109,183	12,069	72,564	18.9	66.5
Honolulu	47,731	63,968	8,033	42,725	16.8	66.8
Hawaii	6,804	15,131	2,285	3/ 13,519	33.6	89.3
Kauai	2,265	4,867	615	2,520	27.2	51.8
Maui	7,197	25,217	1,136	13,800	15.8	54.7

1/ Includes arson.

2/ Excludes traffic offenses.

3/ The Part II clearance rates in 1997 and 1998 were higher than in previous years due to administrative "house cleaning".

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

Table 4.06-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1998

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
All Part I offenses	63,997	47,731	12,069	8,033	18.9	16.8
Murder	24	17	24	18	100.0	105.9
Manslaughter (neg.)	-	-	-	-	-	-
Rape	352	242	256	177	72.7	73.1
Robbery	1,225	1,052	385	295	31.4	28.0
Aggravated assault	1,345	1,031	708	472	52.6	45.8
Burglary	11,169	7,692	1,427	654	12.8	8.5
Larceny	43,914	32,669	8,378	5,801	19.1	17.8
Motor vehicle theft	5,594	4,750	845	592	15.1	12.5
Arson	374	278	46	24	12.3	8.6

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 4.07-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, AND BY COUNTIES: 1998

Subject	State total	Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	11,100	8,124	1,416	1,024	536
Juveniles	3,311	2,305	471	278	257
Male	2,343	1,633	338	191	181
Female	968	672	133	87	76
Adults	7,789	5,819	945	746	279
Male	5,725	4,294	666	560	205
Female	2,064	1,525	279	186	74
PART II OFFENSES (EXCLUDE TRAFFIC)					
Total	52,108	35,109	7,647	5,609	3,743
Juveniles	11,123	8,108	1,242	767	1,006
Male	6,369	4,566	703	442	658
Female	4,754	3,542	539	325	348
Adults	40,985	27,001	6,405	4,842	2,737
Male	32,768	21,734	4,980	3,869	2,185
Female	8,217	5,267	1,425	973	552

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

Table 4.08-- CHILD ABUSE AND NEGLECT REPORTS: 1970 TO 1998

[Includes abuse, neglect, abuse and neglect, and sexual abuse reports]

Year	Reported	Confirmed	Year	Reported	Confirmed	Year	Reported	Confirmed
1970	972	487	1980	2,106	1,059	1990	4,407	2,392
1971	1,015	504	1981	2,360	1,137	1991	4,365	2,318
1972	1,191	558	1982	2,685	1,379	1992	4,568	2,485
1973	1,079	499	1983	3,635	1,621	1993	4,753	2,411
1974	1,142	560	1984	4,388	2,180	1994	5,186	2,334
1975	914	423	1985	4,359	2,391	1995	4,984	2,317
1976	1,325	634	1986	4,900	2,629	1996	4,775	2,268
1977	1,794	841	1987	4,741	2,555	1997	5,235	2,531
1978	1,845	1,110	1988	3,893	2,315	1998	4,762	2,242
1979	2,290	1,109	1989	4,054	2,386			

Source: Hawaii State Department of Human Services, Management Services Office, *A Statistical Report on Child Abuse and Neglect in Hawaii, 1998,* p. 4, at http://www.hawaii.gov/dhs/DHS%20CAN%2098.pdf.

Table 4.09-- CHARACTERISTICS OF CHILD ABUSE AND NEGLECT REPORTS AND VICTIMS: 1998

Subject	Reported	Confirmed
Total reports	4,762	2,242
Type of report:		
Abuse	1,809	928
Neglect	1,479	689
Abuse and neglect	1,012	448
Sexual abuse	462	177
County:		
Hawaii	1,107	437
Honolulu	2,297	1,204
Kauai	309	110
Maui	914	431
Victim characteristics:		
Median age (years)	…	6.1
Percent females	…	52.9
Race (percent):		
Hawaiian or part Hawaiian	…	43.9
Mixed	…	23.8
White	…	13.7
Other	…	18.6
Percent military or dependents	…	3.1

Source: Hawaii State Department of Human Services, Management Services Office, *A Statistical Report on Child Abuse and Neglect in Hawaii, 1998,* p. 4, at http://www.hawaii.gov/dhs/DHS%20CAN%2098.pdf.

Table 4.10-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1988 TO 1998

Year	Locally stolen motor vehicles			Other stolen property		
		Value recovered 1/			Value recovered 1/	
	Value stolen ($1,000)	Amount ($1,000)	Percent	Value stolen ($1,000)	Amount ($1,000)	Percent
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
1997	15,908.6	11,341.6	71.3	50,515.4	2,262.1	4.5
1998	12,406.3	8,702.4	70.1	47,282.6	2,492.7	5.3

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 and *Crime in Hawaii 1998* (August 1999).

Table 4.11-- VALUE OF PROPERTY STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY COUNTIES: 1998

Subject	State total	Honolulu	Hawaii	Maui	Kauai
Value of property stolen (1,000)	59,688.9	45,098.4	4,313.3	8,378.0	1,899.2
Motor vehicles	12,406.3	8,091.2	706.4	3,151.8	456.9
Other property	47,282.6	37,007.2	3,607.0	5,226.2	1,442.3
Value of stolen property recovered 1/ ($1,000)	11,195.2	7,150.1	912.2	2,708.8	424.2
Motor vehicles	8,702.4	5,576.0	522.6	2,246.1	357.9
Other property	2,492.7	1,574.1	389.6	462.7	66.3
Percent of value recovered	18.8	15.9	21.1	32.3	22.3
Motor vehicles	70.1	68.9	74.0	71.3	78.3
Other property	5.3	4.3	10.8	8.9	4.6

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 and *Crime in Hawaii 1998* (August 1999).

Table 4.12-- CRIME RATES FOR THE UNITED STATES AND HAWAII: 1997 AND 1998

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

Type of offense	U.S. rate		Hawaii rate		Hawaii rank 1/	
	1997 2/	1998	1997 2/	1998	1997	1998
All index offenses 3/	4,930.0	4,615.5	5,997.4	5,344.4	9	13
Violent crime	611.3	566.4	276.7	247.5	41	45
Property crime	4,318.7	4,049.1	5,720.6	5,096.9	6	9

1/ Out of 50 states and D. C., with highest crime rate ranking 1.
2/ Revised.
3/ 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 4.13-- AUTHORIZED POLICE PERSONNEL, BY COUNTIES: DECEMBER 1999

Year and status	State total	Honolulu	Hawaii	Kauai	Maui
Total	4,349	3,150	575	177	447
Sworn, active	3,093	2,237	388	134	334
Sworn, reserve	112	84	28	-	-
Training pool 1/	182	152	23	7	-
Not sworn	962	677	136	36	113

1/ New category.
Source: County police departments, records.

Table 4.14-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS: 1997 TO 1999

[As of June 30]

Subject	1997	1998	1999
Federal judges and magistrates: 1/			
U.S. Bankruptcy Court	1	1	1
U.S. District Court	2/ 5	2/ 6	7
State justices and judges: 1/			
Supreme Court	5	5	5
Intermediate Court of Appeals	4	4	4
Circuit Courts 3/	29	29	29
Assigned to Family Court	2	2	2
District Courts 4/	35	35	35
Assigned to Family Court	13	13	13
Land Court	(5/)	(5/)	(5/)
Tax Appeal Court	(5/)	(5/)	(5/)
Attorneys licensed in Hawaii 6/	5,892	6,102	6,116
Active	4,132	4,249	4,159
Inactive	1,760	1,853	1,957

1/ Authorized full-time positions.

2/ Revised.

3/ 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.

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

5/ Caseload assigned to Circuit Court judges.

6/ Data for all years include judges. The 1998 data are as of November 23 and the 1999 data are as of October 22.

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 4.15-- UNITED STATES DISTRICT COURT CASES: 1997 TO 1999

[Years ended September 30}

Subject	1997	1998	1999
Civil cases:			
Commenced (filings)	1,840	1,075	918
Terminated	1,297	1,108	1,147
Pending, end of period 1/	1,517	2/ 1,472	1,243
Criminal cases:			
Commenced (filings)	1,292	718	586
Terminated	1,032	723	1,080
Pending, end of period	3/ 971	4/ 1,017	5/ 523
Bankruptcy:			
Commenced (filings), total	4,161	5,522	5,725
Business	189	127	98
Nonbusiness	3,972	5,395	5,627
Terminated	3,602	4,716	6,059
Pending, end of period	2,359	3,165	2,831

1/ Excludes asbestos cases transferred to the Pennsylvania Eastern District Court under Order 875 of the Judicial Panel on Multidistrict Litigation.

2/ Revised.

3/ Exclude each case in which the defendant has been a fugitive since before April 1, 1996. However, no case with multiple defendants was excluded unless all defendants in the case have been fugitives since before April 1, 1996.

4/ Revised. Exclude each case in which the defendant has been a fugitive since before October 1, 1998 However, no case with multiple defendants has been excluded unless all defendants in the case have been fugitives since before October 1, 1998.

5/ Exclude each case in which the defendant has been a fugitive since before October 1, 1998 However, no case with multiple defendants has been excluded unless all defendants in the case have been fugitives since before October 1, 1998.

Source: Administrative Office of the United States Courts, *Judicial Business of the United States Courts Annual Report of the Director 1997, 1998* and *1999* at http://www.uscourts.gov/publications.html.

Table 4.16-- UNITED STATES BANKRUPTCY COURT CASES FILED UNDER CHAPTER 7 AND CHAPTER 13 OF THE BANKRUPTCY CODE: 1989 TO 1999

[Revised table. Based upon original chapter designation at the time the case is originally filed. This differs from previous tables in the *State of Hawaii Data Book 1996, 1997 and 1998* because chapter designation may change over the course of the case and previous *Data Book* tables reflected that change. Table includes cases filed in 1999 which were on the caseload as of 7/20/00]

Year	Chapter 7 1/			Chapter 13 2/		
	Total	Business	Personal	Total	Business	Personal
1989	747	79	668	79	2	77
1990	754	43	711	80	-	80
1991	984	45	939	69	-	69
1992	1,262	92	1,170	79	3	76
1993	1,351	126	1,225	80	10	70
1994	1,430	92	1,338	98	9	89
1995	1,843	111	1,732	140	10	130
1996	2,765	125	2,640	267	16	251
1997	3,956	124	3,832	454	19	435
1998	5,265	79	5,186	518	6	512
1999	4,882	59	4,823	500	6	494

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 4.17-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1997 TO 1999

[Years ended June 30]

Court and type of action	1997	1998	1999
Supreme Court 1/	3,135	4,012	3,876
Primary cases	695	713	730
Appeals	616	646	623
Original proceedings	79	67	107
Supplemental proceedings	2,440	3,299	3,146
Intermediate Court of Appeals 2/	311	350	414
Primary cases	123	148	229
Appeals	123	148	229
Supplemental proceedings	188	202	185
Circuit Courts Proper	16,185	16,913	14,820
Primary proceedings	16,185	16,913	14,820
Civil actions	7,642	8,021	6,992
Probate proceedings	1,344	1,408	1,368
Guardianship proceedings	643	622	478
Miscellaneous proceedings	1,595	1,645	1,486
Criminal actions	4,961	5,217	4,496
Part I offenses	1,962	2,014	1,716
Part II offenses	2,999	3,203	2,780
Family Courts	48,465	47,419	48,689
Primary proceedings and referrals	35,913	34,219	30,937
Marital actions and proceedings	5,915	6,261	5,513
Uniform reciprocal enforcement of support	586	364	322
Adoption proceedings	641	750	789
Parental proceedings	2,636	2,766	2,061
Domestic Abuse Protective Orders (Ch. 586)	2,859	3,275	3,055
Miscellaneous proceedings	2,457	2,247	1,799
Criminal actions	4,815	4,337	4,297
Adults' referrals	(3/)	(3/)	(3/)
Children's referrals	16,004	14,219	13,101
Supplemental proceedings	12,552	13,200	17,752

Footnote and source on next page.

Table 4.17-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1997 TO 1999 -- Con.

Court and type of action	1997	1998	1999
District Court	566,282	574,172	563,976
Civil	25,111	27,645	24,032
Regular civil	19,538	21,586	18,272
Small claims	5,573	6,059	5,760
Traffic	490,282	491,113	479,747
Moving - arrest and citation	125,336	137,236	149,170
Non-moving	102,098	109,697	115,783
Parking	262,848	244,180	214,794
Other violations	4,507	5,532	4,749
Criminal actions	46,382	49,882	55,448
Part I offenses	6,621	7,780	7,170
Part II offenses	39,761	42,102	48,278

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 127 in 1997, 153 in 1998 and 225 in 1999.

2/ Data exclude cases transferred back to the Supreme Court: 9 in 1997, 6 in 1998, and 3 in 1999.

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

Source: The Judiciary, State of Hawaii, records.

Table 4.18-- STATE JUDICIARY CASES TERMINATED, BY TYPE OF ACTION: 1997 TO 1999

[Years ended June 30]

Court and type of action	1997	1998	1999
Supreme Court 1/	3,254	4,131	3,922
Primary cases	822	856	763
Appeals	752	792	658
Original proceedings	70	64	105
Supplemental proceedings	2,432	3,275	3,159
Intermediate Court of Appeals 2/	579	509	420
Primary cases	402	315	200
Appeals	402	315	200
Supplemental proceedings	177	194	220
Circuit Courts Proper	12,399	17,433	14,393
Primary proceedings	12,399	17,433	14,393
Civil actions	5,498	8,226	7,173
Probate proceedings	1,155	1,007	1,175
Guardianship proceedings	308	337	210
Miscellaneous proceedings	1,199	2,730	1,447
Criminal actions	4,239	5,133	4,388
Part I offenses	1,748	1,886	1,783
Part II offenses	2,491	3,247	2,605
Family Courts	53,330	52,790	49,157
Primary proceedings and referrals	40,696	39,514	31,957
Marital actions and proceedings	6,112	8,697	5,415
Uniform reciprocal enforcement of support	765	452	1,190
Adoption proceedings	766	731	739
Parental proceedings	2,830	2,853	2,373
Domestic Abuse Protective Orders (Ch. 586)	2,760	3,202	2,936
Miscellaneous proceedings	3,522	3,129	1,425
Criminal actions	6,617	5,472	4,873
Adults' referrals	(3/)	(3/)	(3/)
Children's referrals	17,324	14,978	13,006
Supplemental proceedings	12,634	13,276	17,200

Footnote and source on next page.

Table 4.18-- STATE JUDICIARY CASES TERMINATED, BY TYPE OF ACTION: 1997 TO 1999 -- Con.

Court and type of action	1997	1998	1999
District Court	494,027	515,675	508,203
Civil	21,359	23,274	22,126
Regular civil	16,213	17,697	16,494
Small claims	5,146	5,577	5,632
Traffic	430,906	440,551	434,669
Moving - arrest and citation	106,334	119,875	138,142
Non-moving	82,479	91,916	104,980
Parking	242,093	228,760	191,547
Other violations	3,542	4,533	4,217
Criminal actions	38,220	47,317	47,191
Part I offenses	6,258	8,252	6,908
Part II offenses	31,962	39,065	40,283

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 127 in 1997, 153 in 1998 and 225 in 1999.

2/ Data exclude cases transferred back to the Supreme Court: 9 in 1997, 6 in 1998, and 3 in 1999.

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

Source: The Judiciary, State of Hawaii, records.

Table 4.19-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1989 TO 1999

[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
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
1998	8/ 4,157	8/ 1,662	432	1,348	644	61	10
1999	9/ 3,811	9/ 1,456	438	1,163	9/ 667	60	27

1/ Includes eight facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers; Kulani Correctional Facility, Halawa Correctional 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.

9/ Excludes sentenced felons incarcerated in four contracted out-of-state 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 4.20-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED FELON POPULATION: 1989 TO 1999

[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]

	Median age (years) 1/		Average sentences (months)		
			Felons admitted		
Year	At admission	Currently as of June 30	Minimum	Maximum	Felons released: time served
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
1998	33.5	34.9	45.2	3/ 105.2	36.7
1999	33.7	31.9	47.6	3/ 105.5	34.4

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 4.21-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY: 1996 TO 1999

[Years ended June 30]

Item	1996	1997	1998	1999
Number of parolees, June 30 1/	1,769	1,804	1,878	2,214
Parolees in Hawaii	1,249	1,376	1,261	1,480
Parolees outside Hawaii 2/	219	251	292	371
In institution	45	54	70	88
Whereabouts unknown (cumulative)	244	123	255	275
Administrative cases	12	-	-	-
Minimum imprisonment terms fixed	2,159	2,558	2,876	3,351
Number of persons for whom minimum terms fixed	695	852	864	1,000
Number of parole consideration hearings	2,082	3/ 1,920	1,426	1,741
Persons considered for parole	1,135	1,356	1,094	1,000
Paroles tentatively granted	622	713	721	986
Paroles denied	513	643	589	669
Paroles deferred/continued	947	564	116	86
Parole violation hearings	446	482	439	422
Parole revocations	316	376	359	311
Continued on parole/deferred	130	106	80	111
Pardon investigations	32	24	55	47
Persons recommended for pardon	11	21	27	21
Discharges from parole	272	287	277	320
Full parole term before discharge	153	179	185	160
Early discharge approved	110	101	80	147
Deceased	9	7	12	13

1/ In addition, provided courtesy supervision to 28 interstate cases as of June 30, 1999.

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.

3/ Revised.

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

Section 5: Geography and Environment

Section Narrative	
5.01	Great Circle Distances Between Specified Places
5.02	Latitudes and Longitudes of Selected Places
5.03	Time Differentials Between Honolulu and Selected Cities
5.04	Widths and Depths of Channels
5.05	General Coastline and Tidal Shoreline of Counties and Islands
5.06	Land and Water Area within the Fishery Conservation Zone
5.07	Land and Water Area of Counties: 1990
5.08	Land Area of Islands: 1990
5.09	Major and Minor Islands in the Hawaiian Archipelago
5.10	Area and Depth of Selected Craters
5.11	Elevations of Major Summits
5.12	Major named Waterfalls, by Islands
5.13	Major Streams, by Islands
5.14	Lakes and Lake-Like Waters, by Islands
5.15	Length and Width of Selected Beaches
5.16	Miscellaneous Geographic Statistics, by Island
5.17	Volcanic Eruptions: 1969 to 1999
5.18	Major Earthquakes: 1838 to 2000
5.19	Earthquakes with Honolulu Intensities of V or Greater: 1859 to 1998
5.20	Tsunamis with Run-up of 2 Meters (6.6 feet) or More: 1819 to 1998

5.21	Major Dams: 1994		
5.22	Fresh Water Use, by Type, by Islands: 1995		
5.23	Water Services and Consumption, for County Waterworks: 1997 to 1999		
5.24	Hazardous Waste Sites on the National Priority List: 1994 to 1998		
5.25	Water Quality at Public Beaches, by Islands: 1998 and 1999		
5.26	Water Quality at Selected Public Beaches: 1998 and 1999		
5.27	Refuse and Sewage Statistics for Oahu: 1989 to 1999		
5.28	Air Quality in Downtown Honolulu: 1988 to 1999		
5.29	Air Quality at Specified Locations: 1998		
5.30	Air Quality at Specified Locations: 1999		
5.31	Atmospheric Carbon Dioxide Measurements at Mauna Loa: Annual Mean Values, 1958 to 1999		
5.32	Temperatures and Precipitation for Selected Places		
5.33	Climatic Normals, Means, and Extremes for Hilo, Kahului, Honolulu, and Lihue Airports		
5.34	Monthly and Annual Climatic Data for Honolulu International Airport		
5.35	Average Temperature, Percent of Possible Sunshine, and Precipitation, for Honolulu International Airport: Annually, 1950 to 1999		
5.36	Average Daily Temperature and Days with Maximum of 90 degrees or Higher, for Honolulu International Airport: 1971 to 1999		
5.37	Climatic Data for Honolulu International Airport: Annually 1989 to 1999		
5.38	Climatic Data for the Period of Record		
5.39	Rainfall at Specified Locations: Annually, 1989 to 1999		
5.40	Major Hurricanes: 1950 to 1999		
5.41	Trade Winds, High Surf, and Temperatures in Hawaiian Waters, by Months		
5.42	Average Water Temperatures at Waikiki Beach		
5.43	Sunrise, Sunset, and Hours of Daylight at Selected Locations, at Beginning of Each Season: 2000		

5.44	Sunrise, Sunset, and Hours of Daylight at Selected Locations, at Beginning of Each Season: 2001		
5.45	Lahaina (Shadowless) Noons for Selected Locations: 1999 and 2000		
5.46	Hawaii Audubon Society Bird Counts of the Honolulu Area: 1996 to 1999		
5.47	Hawaii Audubon Society Bird Counts of the Honolulu Area, by Type of Species: 1996 to 1998		
5.48	Trees along Streets or in Parks under the Jurisdiction of the City and County of Honolulu: 1994 to 1999		
5.49	Estimated Number of Species in Hawaii: 1997 to 1998		
5.50	Threatened and Endangered Species, for the United States and Hawaii: 1995		

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*, 3rd edition, published by the University of Hawaii Press in 1998. National data are reported in the *Statistical Abstract of the United States: 1999*, 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'
Laau Point	21°06'	157°19'
Cape Halawa	21°10'	156°43'
Oahu:		
Honolulu: International Airport	21°20'	157°55'
Aloha Tower	21°19'	157°52'
Kaena Point	21°35'	158°17'
Kahuku Point	21°43'	157°59'
Makapuu Point	21°19'	157°39'
Diamond Head	21°16'	157°49'
Kauai:		
Lihue (Kauai Airport)	21°59'	159°21'
Mana	22°02'	159°46'
Kilauea Point	22°14'	159°24'
Niihau:		
Puuwai	21°54'	160°12'
Kure Atoll	28°25'	178°22'

Source: U.S. Board on Geographic Names, *Gazetteer No. 24, Hawaiian Islands* (1956); U.S. Geological Survey, *Elevations and Distances in the United States* (1980), pp. 17 and 22-23; U.S. Department of Commerce, National Oceanic and Atmospheric Administration, 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

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 Tel, The White Pages, *Oahu, June 1999-2000,* pp. 38, 41.

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-Maro Reef	155.5	250.3	12,300	3,749
Maro 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
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

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

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

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

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

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

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

Table 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, U.S. Department of Commerce, 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 the Hawaii State Department of Business, Economic Development & Tourism.

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 Kaleihoohie	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

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
	Wailele	...	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, Commission on Water Resource Management, records; "Tall Falls", *The Honolulu Advertiser*, June 25, 1995, pp. A17 and A20.

Table 5.13-- MAJOR STREAMS, BY ISLANDS

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, Commission on Water Resource Management, records.

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

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, Commission on 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

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
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. Department of the Interior, Geological Survey, *Elevations and Distances in the United States* (1978), pp. 4-5.

Table 5.17-- VOLCANIC ERUPTIONS: 1969 TO 1999

[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, 1999]

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	6,206	ER	780-650	105.5	1,893.8

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

2/ Still in progress. There have been 55 separate episodes, they destroyed 181 housing units and added 205 hectares 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; and http://hvo.wr.usgs.gov/.

Table 5.18-- MAJOR EARTHQUAKES: 1838 TO 2000

[Includes all earthquakes with magnitudes of 6.0 or greater, 1838 to 1983, and 5.0 or greater, 1984 to 1999. Except for the earthquake of April 2, 1868, magnitudes of earthquakes prior to 1929 are conjectural. Complete through April 10, 2000]

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	Honomu, 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	5 miles W. of Kalapana	5.2
1999: April 16, 2:56 PM	4 miles N. of Pahala	5.6
2000: April 1, 8:18 PM	S. Flank of Kilauea Volcano	5.0

Source: Augustine S. Furumoto, N. Norby Nielsen, and William R. Phillips, *A Study of Past Earthquakes, Isoseismic 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. http://hvo.wr.usgs.gov/earthquakes/felt/currEQ.html.

Table 5.19-- EARTHQUAKES WITH HONOLULU INTENSITIES OF V OR GREATER: 1859 TO 1999

[Complete through December 31, 1999]

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 1999

[Complete through December 31, 1999]

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, Commission on Water Resource Management, records.

Table 5.22-- FRESH WATER USE, BY TYPE, BY ISLANDS: 1995

[Million gallons per day]

Use	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai	Niihau 1/
Total	981.44	108.52	356.06	3.44	9.33	264.23	239.86	-
Ground water	498.34	104.14	120.18	3.44	4.77	227.85	37.96	-
Domestic	133.06	17.17	19.60	0.52	1.48	86.39	7.90	-
Agricultural	180.49	12.63	88.85	1.95	3.18	52.59	21.29	-
Industrial	25.38	0.33	2.27	0.01	0.01	17.27	5.49	-
Thermoelectric	67.34	67.34	-	-	-	-	-	-
Commercial	92.07	6.67	9.46	0.96	0.10	71.60	3.28	-
Surface water	483.10	4.38	235.88	-	4.56	36.38	201.90	-
Domestic	1.33	1.33	-	-	-	-	-	-
Agricultural	481.30	3.05	235.47	-	4.50	36.38	201.90	-
Industrial	0.05	-	-	-	0.05	-	-	-
Thermoelectric	-	-	-	-	-	-	-	-
Commercial	0.42	-	0.41	-	0.01	-	-	-

1/ 1995 water-use data for Niihau not compiled.

Source: Data compiled by the U.S. Geological Survey and provided by the Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records.

Table 5.23-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1997 TO 1999

[Services as of June 30; consumption for fiscal years]

Geographic area	Number of services			Consumption (million gallons)		
	1997	1998	1999	1997	1998	1999
State total	2/ 231,260	233,043	234,893	71,810	73,301	76,610
City and County of Honolulu	152,692	153,649	155,935	48,624	49,265	51,614
Honolulu District 1/	61,180	61,205	61,406	24,420	24,587	25,156
Rest of Oahu	91,512	92,444	94,529	24,204	24,678	26,458
Hawaii County	2/ 33,402	33,716	34,254	7,804	8,159	8,076
Kauai County	16,860	16,958	17,420	3,944	4,148	4,373
Maui County	28,306	28,720	29,333	11,438	11,729	12,547
Maui	26,795	27,205	27,809	11,110	11,387	12,199
Molokai	1,511	1,515	1,524	328	342	348

1/ Maunalua to Moanalua.

2/ Revised.

Source: Data compiled by Hawaii State Department of Business, Economic Development & Tourism from City and County of 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-- HAZARDOUS WASTE SITES: 1994 TO 1998

[Includes both proposed and final sites
listed on the National Priorities List for the Superfund Program]

Subject	1994	1995	1996	1997	1998
Number of sites	4	4	4	4	1/ 4
Rank (among the 50 states)	46	45	45	45	45

1/ The United States total was 1,245 sites, including one site in the District of Columbia.

Source: Data from the U.S. Environmental Protection Agency, as cited in *Statistical Abstract of the United States* for 1995 (p.237), 1996 (p. 238), 1997 (p. 238), 1998 (p. 246), and 1999 (p. 250).

Table 5.25-- WATER QUALITY AT PUBLIC BEACHES, BY ISLANDS: 1998 AND 1999

Island	Number of locations	Number of samples	Enterococci density 1/			
			Lowest 2/	Highest 3/	Number over 7	Mean 4/
1998						
State total	159	2,499	0.6	258.4	30	2.5
Hawaii	45	536	0.6	83.2	9	2.5
Hilo Shoreline	20	239	0.8	83.2	9	4.8
Kona Shoreline	25	297	0.6	3.0	-	1.5
Maui	48	525	0.6	39.6	1	1.7
Lanai	-	-	(X)	(X)	(X)	(X)
Molokai	-	-	(X)	(X)	(X)	(X)
Oahu	36	1,081	0.6	258.4	6	2.9
Kauai	30	357	0.6	75.8	5	2.6
1999						
State total	105	3,158	0.3	872.3	21	2.2
Hawaii	22	618	0.3	14.5	3	1.8
Hilo Shoreline	11	313	0.5	7.9	1	2.6
Kona Shoreline	11	305	0.3	14.5	2	1.2
Maui	25	945	0.5	3.9	-	1.2
Lanai	-	-	(X)	(X)	(X)	(X)
Molokai	-	-	(X)	(X)	(X)	(X)
Oahu	39	1,042	0.4	872.3	11	2.7
Kauai	19	553	0.9	139.7	7	4.4

X Not applicable.

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 1998 was reported at multiple beaches on the islands of Hawaii, Kauai, Maui and Oahu. The lowest average value in 1999 was reported at Kona Coast Park on the island of Hawaii.

3/ The highest values, both in 1998 and 1999, were those reported for the Ala Wai Canal at the McCully Street Bridge on Oahu.

4/ Not weighted by number of samples.

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

Table 5.26-- WATER QUALITY AT SELECTED PUBLIC BEACHES: 1998 AND 1999

Island and beach	Number of samples		Enterococci density 1/	
	1998	1999	1998	1999
Hawaii:				
Hapuna Beach	12	38	1.4	0.5
Kahaluu Beach	12	39	2.7	3.7
Kealakekua Bay (off curio stand)	12	-	1.9	(X)
Hilo Bay (Mooheau Park)	-	-	(X)	(X)
Spencer Beach Park	12	46	2.5	2.6
Maui:				
Kapalua (Fleming) Beach (north)	12	48	0.9	1.0
Kihei (north)	12	-	2.0	(X)
Makena Beach	12	-	0.8	(X)
Seven Pools	9	3	1.5	0.5
Sheraton Kaanapali (shoreline)	12	39	1.2	0.8
Lanai:				
Hulopoe Bay	-	-	(X)	(X)
Molokai:				
Kaunakakai Harbor	-	-	(X)	(X)
Oahu:				
Ala Moana Park (center)	-	4	(X)	9.7
Ewa Beach Park	-	7	(X)	0.8
Haleiwa Beach	23	25	1.6	3.0
Hanauma Bay	46	49	3.4	4.2
Kailua Beach Park	36	50	2.2	1.9
Kuhio Beach	46	49	5.0	8.7
Makaha Beach	-	-	(X)	(X)
Waimea Beach	44	41	2.0	3.2
Kauai:				
Anini Park Pavilion	12	43	1.4	1.6
Kalapaki Beach (middle)	12	50	6.2	4.7
Kekaha (Oomano Point)	12	-	0.9	(X)
Poipu Beach Pavilion	12	43	1.0	1.4
West of Lydgate Park (wading pool)	13	50	1.5	1.2

X Not applicable.

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 5.27-- REFUSE AND SEWAGE STATISTICS FOR OAHU: 1989 TO 1999

[Years ended June 30]

Year	Tons of municipal solid waste delivered 1/			Sewage treated 2/ (millions of gallons)
	Total	City and County refuse vehicles	Other vehicles	
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
1998	861,851	295,117	566,714	41,289
1999	830,035	284,007	546,028	40,750

Year	Sewage pumped 2/ (millions of gallons)	Miles of sewers 2/	City and County pump stations	City and County treatment plants
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
1998	50,605	1,940	64	8
1999	49,379	1,970	65	8

1/ Excludes small landfill controlled by armed forces.

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

Source: City and County of Honolulu, Department of Environmental Services.

Table 5.28-- AIR QUALITY IN DOWNTOWN HONOLULU: 1988 TO 1999

[Annual arithmetic means, in micrograms per cubic meter ($\mu g/m^3$), for particulate matter 10 microns or less in diameter (PM_{10}) and in parts per million (ppm) for carbon monoxide (CO). Sampling is conducted about 46 feet above ground on the roof of the State Health Department building (Kinau Hale), 1250 Punchbowl Street, Honolulu, Hawaii]

Year	PM_{10} ($\mu g/m^3$) 1/	CO (ppm) 2/	Year	PM_{10} ($\mu g/m^3$) 1/	CO (ppm) 2/
1988	-	1.7	1994	14	0.8
1989	-	1.8	1995	14	0.8
1990	-	1.5	1996	14	0.8
1991	-	1.7	1997	8	0.8
1992	-	1.6	1998	9	0.8
1993	13	1.8	1999	14	0.6

1/ The State and Federal Ambient Air Standard for PM_{10} annual average is 50 $\mu g/m^3$.

2/ There is no annual standard for CO. The State Ambient Air Standard for 1-hour CO is 9 ppm/m^3 and the Federal standard is 35 ppm/m^3.

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

Table 5.29-- AIR QUALITY AT SPECIFIED LOCATIONS: 1998

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

Sampling station	PM 10			Sulfur dioxide		
	Annual range		Annual arithmetic average	Annual range		Annual arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Downtown Honolulu	4	28	9	-	8	2
Liliha	7	39	15	…	…	…
Pearl City	7	103	16	…	…	…
Kapolei	7	34	15	-	17	2
Makaiwa	…	…	…	-	24	3
West Beach 1/	8	43	16	-	16	4
Waimanalo 1/	11	31	20	…	…	…
Kauai:						
Lihue 1/	8	31	20	…	…	…

1/ Manual PM_{10} samplers operated for 24 hours, once every 6 days in accordance with EPA guidelines.
Source: Hawaii State Department of Health, Clean Air Branch, records.

Table 5.30-- AIR QUALITY AT SPECIFIED LOCATIONS: 1999

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

Sampling station	PM 10			Sulfur dioxide		
	Annual range		Annual arithmetic average	Annual range		Annual arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Downtown Honolulu	6	43	14	-	8	2
Liliha	8	133	15	…	…	…
Pearl City	7	94	14	…	…	…
Kapolei	7	129	15	-	6	2
Makaiwa	…	…	…	-	11	2
West Beach 1/	6	21	13	-	6	1
Waimanalo 1/	8	33	18	…	…	…
Kauai:						
Lihue 1/	9	35	17	…	…	…

1/ Manual PM_{10} samplers operated for 24 hours, once every 6 days in accordance with EPA guidelines.
Source: Hawaii State Department of Health, Clean Air Branch, records.

Table 5.31-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT MAUNA LOA: ANNUAL MEAN VALUES, 1958 TO 1999

[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	1998	366.60
1971	326.17	1985	345.85	1999	368.03

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 National Weather Service, Pacific Region, Honolulu (for 1958-1991), and by Mauna Loa Observatory (for 1992-1999).

Table 5.32-- 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)
		Coolest month	Warmest month	Lowest	Highest	
Hawaii:						
Hilo Airport	30	63.3	83.6	53	94	129
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	63.5	87.9	48	97	21
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 5.32-- 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)
		Coolest month	Warmest month	Lowest	Highest	
Oahu:						
Honolulu International Airport	10	65.5	88.0	53	95	22
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	64.7	84.8	50	90	43
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, records; Hawaii State Climatology Office, Department of Meterology, University of Hawaii, records.

Table 5.33-- 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 1/	71.7	71.7	72.9	71.6
Warmest month 1/	76.3	79.3	81.4	79.5
Annual 1/	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	0.13	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	14.6	11.4	12.8
Maximum 2-second	31	38	33	36
Percent of possible sunshine	40	67	71	58
Mean number of days:				
Clear	35.5	130.5	90.0	55.3
Partly cloudy	131.3	145.2	179.8	183.2
Cloudy	195.3	89.5	92.0	123.2
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.

1/ Normal dry bulb temperature, which is the temperature of the ambient air.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1999* for Hilo, Kahului, Honolulu, and Lihue.

Table 5.34-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F)			Extreme temperature (°F)		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly 1/	Highest daily maximum	Lowest daily minimum	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
January	80.1	65.6	72.9	88	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	91	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	0.07	7.57
November	84.1	70.3	77.2	93	57	3.00	18.79	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

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Table 5.34-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent)		Wind (miles/hour)		Percent of possible sunshine	Mean number of days		
	8 A.M.	2 P.M.	Mean speed	Maximum 2-minute speed		Clear	Cloudy	Precip. .01 inch or more
January	81	62	9.4	30	65	9.5	8.5	9.7
February	78	59	10.1	33	68	8.1	7.6	8.6
March	73	57	11.3	31	72	7.4	9.3	9.2
April	70	56	11.7	28	70	5.9	9.6	9.5
May	67	54	11.6	25	72	6.7	8.7	7.9
June	66	52	12.6	30	74	6.5	6.2	5.8
July	67	52	13.4	30	76	7.4	5.1	7.4
August	67	51	13.0	29	77	8.0	5.7	6.1
September	68	52	11.4	26	77	7.9	5.7	7.4
October	70	56	10.7	24	71	7.5	8.1	8.8
November	74	59	10.9	26	64	7.2	8.8	9.8
December	78	61	10.6	28	63	7.9	8.7	10.5
Annual	72	56	11.4	33	71	90.0	92.0	100.7

T Trace amount.

1/ Normal dry bulb.

2/ During period of record, 1999.

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 1999.*

Table 5.35-- AVERAGE TEMPERATURE, PERCENT OF POSSIBLE SUNSHINE, AND PRECIPITATION, FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1950 TO 1999

Year	Average tempera-ture (°F)	Percent of possible sunshine	Precipi-tation (inches)	Year	Average tempera-ture (°F)	Percent of possible sunshine	Precipi-tation (inches)
1950	75.7	(NA)	31.68	1975	76.2	62	24.39
1951	76.3	(NA)	39.73	1976	76.8	60	12.90
1952	75.4	(NA)	10.65	1977	78.2	68	12.36
1953	75.9	71	9.97	1978	76.8	69	25.05
1954	75.8	68	27.30	1979	77.0	68	16.93
1955	74.5	62	37.86				
1956	75.9	69	21.23	1980	77.5	69	26.90
1957	76.0	72	24.22	1981	77.1	72	13.41
1958	75.3	70	35.02	1982	76.9	56	34.92
1959	76.7	70	14.14	1983	77.2	64	5.03
				1984	78.1	71	17.08
1960	76.7	70	12.07	1985	76.9	69	17.38
1961	77.2	81	14.26	1986	78.3	77	13.93
1962	76.5	71	13.58	1987	77.9	73	23.53
1963	76.7	64	37.91	1988	78.5	75	16.47
1964	77.0	63	20.12	1989	77.5	79	27.52
1965 1/	76.1	74	42.78				
1966 1/	77.6	68	23.18	1990	77.6	77	19.84
1967 1/	77.6	58	34.34	1991	77.7	67	17.94
1968 1/	77.9	63	37.26	1992	77.8	(NA)	19.00
1969 1/	77.4	68	22.50	1993	77.1	88	5.84
				1994	78.8	89	15.59
1970 1/	78.2	72	15.49	1995	79.3	89	13.60
1971 1/	76.1	70	26.64	1996	78.6	(NA)	33.12
1972	76.2	65	26.94	1997	77.8	88	19.99
1973	77.2	63	14.24	1998	77.1	(NA)	4.52
1974	77.5	61	24.02	1999	76.9	(NA)	11.99

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).

Table 5.36-- AVERAGE DAILY TEMPERATURE AND DAYS WITH MAXIMUM OF 90° OR HIGHER; FOR HONOLULU INTERNATIONAL AIRPORT: 1971 TO 1999

Year	Average daily maximum (°F)	Days 90° or higher	Year	Average daily maximum (°F)	Days 90° or higher
1971	82.7	-	1986	86.2	64
1972	83.2	3	1987	85.7	93
1973	84.4	10	1988	86.1	70
1974	85.0	25	1989	85.2	34
1975	83.6	1	1990	84.0	47
1976	84.1	9			
1977	85.2	16	1991	84.9	35
1978	84.2	13	1992	85.2	28
1979	84.7	51	1993	84.5	23
1980	84.6	22	1994	85.5	85
			1995	86.8	116
1981	84.6	9	1996	84.0	69
1982	83.5	27	1997	85.1	50
1983	85.1	44	1998	83.7	-
1984	85.5	63	1999	83.2	-
1985	84.6	53			

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 5.37-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1989 TO 1999

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
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
1997	77.8	72.3	82.7	57	94	19.99
1998	77.1	72.5	81.1	53	89	4.52
1999	76.9	73.3	80.8	60	89	11.99

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		
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
1997	80	57	10.0	41	88	105
1998	72	56	11.0	(NA)	(NA)	74
1999	73	57	11.0	(NA)	(NA)	94

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 5.38-- 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. No updates as of September 22, 2000.

Table 5.39-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1989 TO 1999

[In inches]

Year	Hawaii				Maui		
	Hilo Airport	Lalamilo	Kona Village	Naalehu	Kahului Airport	Kihei	Lahaina
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
1997	131.61	17.48	15.57	49.43	23.08	19.96	16.68
1998	108.78	8.86	1.37	17.62	6.76	4.47	1.86
1999	116.78	8.12	3.93	36.54	9.66	7.13	6.11

Year	Oahu				Kauai		
	Waikiki	University of Hawaii	Nuuanu Res. 4	Kane-ohe 1/	Koloa	Lihue Airport	Princeville
1989	(NA)	39.53	129.50	73.53	87.81	56.77	116.65
1990	26.15	40.66	137.81	60.48	73.27	39.37	86.44
1991	26.10	42.83	115.02	65.33	71.30	41.63	82.01
1992	(NA)	35.10	118.58	60.14	52.53	50.17	(NA)
1993	16.92	24.14	81.62	34.55	52.98	22.27	48.02
1994	20.16	33.68	125.48	52.36	60.73	32.99	72.15
1995	12.25	20.98	99.26	(NA)	56.76	46.57	86.94
1996	29.96	42.11	116.76	68.02	(NA)	56.14	85.53
1997	25.30	40.67	116.22	(NA)	42.02	48.02	81.57
1998	10.97	24.50	74.62	28.52	33.72	26.47	56.52
1999	19.09	26.55	89.60	30.76	40.25	33.19	67.15

NA Not available.

1/ Revised.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Climatological Data, Annual Summary, Hawaii and Pacific* (annual); Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, records; Hawaii State Climatology Office, Department of Meteorology, University of Hawaii, records.

Table 5.40-- MAJOR HURRICANES: 1950 TO 1999

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. http://www.nws.noaa.gov/pr/hnl/cphc/pages/summaries.html. Updated as of August 28, 2000.

Table 5.41-- 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. No updates as of September 22, 2000.

Table 5.42-- 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 5.43-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT SELECTED LOCATIONS, AT BEGINNING OF EACH SEASON: 2000

[Hawaiian Standard Time]

Subject	Hilo	Kahului	Honolulu	Lihue
Sunrise (a.m.):				
March 20	6:24	6:29	6:35	6:41
June 21	5:43	5:46	5:50	5:55
Sept. 22	6:09	6:15	6:20	6:26
Dec. 21	6:51	6:58	7:05	7:12
Sunset (p.m.):				
March 20	6:32	6:37	6:43	6:49
June 21	7:02	7:10	7:16	7:24
Sept. 22	6:16	6:22	6:27	6:33
Dec. 21	5:47	5:50	5:55	6:00
Hours of daylight:				
March 20	12:08	12:08	12:08	12:08
June 21	13:19	13:24	13:26	13:29
Sept. 22	12:07	12:07	12:07	12:07
Dec. 21	10:56	10:52	10:50	10:48

Source: U.S. Naval Observatory, Tables of Sunrise and Sunset <http://aa.usno.navy.mil/AA/data/>.

Table 5.44-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT SELECTED LOCATIONS, AT BEGINNING OF EACH SEASON: 2001

[Hawaiian Standard Time]

Subject	Hilo	Kahului	Honolulu	Lihue
Sunrise (a.m.):				
March 20	6:24	6:30	6:35	6:41
June 20	5:43	5:46	5:50	5:55
Sept. 22	6:09	6:15	6:20	6:26
Dec. 21	6:50	6:58	7:05	7:12
Sunset (p.m.):				
March 20	6:31	6:37	6:43	6:49
June 20	7:02	7:10	7:16	7:24
Sept. 22	6:16	6:22	6:27	6:33
Dec. 21	5:47	5:50	5:55	6:00
Hours of daylight:				
March 20	12:07	12:07	12:08	12:08
June 20	13:19	13:24	13:26	13:29
Sept. 22	12:07	12:07	12:07	12:07
Dec. 21	10:57	10:52	10:50	10:48

Source: U.S. Naval Observatory, Tables of Sunrise and Sunset <http://aa.usno.navy.mil/AA/data/>.

Table 5.45-- "LAHAINA" (SHADOWLESS) NOONS FOR SELECTED LOCATIONS: 1999 and 2000

[Lahaina (or shadowless) noons occur when the sun is directly overhead at a specified location]

Location	Lahaina Noon	
	May	July
Honolulu:		
1999	27	16
2000	26	15
Time	12:28 p.m.	12:37 p.m.
Kahului:		
1999	24	19
2000	24	18
Time	12:22 p.m.	12:31 p.m.
Lihue:		
1999	31	11
2000	31	11
Time	12:23 p.m.	12:31 p.m.
Hilo:		
1999	19	24
2000	18	24
Time	12:17 p.m.	12:27 p.m.

Source: Bishop Museum Planetarium, http://www.bishop.hawaii.org/bishop/planet/lahainanoon.html.

Table 5.46-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1996 TO 1999

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

Species	1996	1997	1998	1999
All species:				
Species	46	57	51	49
Individual birds	9,781	17,836	17,005	17,343
Endemic species: 1/				
'Apapane	6	16	9	43
Hawaiian Coot 2/	62	58	76	1
Hawaiian Stilt 2/	155	148	168	151
Oahu 'Amakihi	34	38	20	38
Hawaiian Moorhen 2/	4	8	9	6/ CW
Oahu 'Elepaio	13	4	10	13
Indigenous species: 3/				
Great Frigatebird	111	23	44	9
Red-footed Booby	1,246	125	1,221	969
Alien species: 4/				
Cattle Egret	231	40	178	172
Common Myna	1,146	2,136	2,474	1,732
Common Waxbill	622	1,117	408	713
House Sparrow	244	480	455	463
Japanese White-eye	303	547	403	95
Java Sparrow	396	1,754	1,525	2,515
Red-vented Bulbul	710	1,743	1,406	1,543
Rock Dove	239	304	302	305
Spotted Dove	703	1,239	1,295	1,238
Zebra (Barred) Dove	1,424	3,505	3,690	3,956
Visitor species: 5/				
Pacific Golden-Plover	763	1,351	1,268	894
Ruddy Turnstone	340	288	287	256

1/ Birds peculiar to Hawaii, and found nowhere else.
2/ Endangered species.
3/ Native to Hawaii, but also found elsewhere.
4/ Formerly termed "introduced". Includes accidental escapes from captivity.
5/ Formerly termed "migratory". Includes stragglers and seasonal migrants.
6/ Seen in count circle during Count Week [3 days before count day and 3 days after] but not found on count day.

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

Table 5.47-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA, BY TYPE OF SPECIES: 1997 TO 1999

[Counts are made in late December. Annual changes reflect differences in numbers of bird counters and counting time in the field, as well as changes in bird populations. Totals by species are also affected by the types of habitats studied]

Type of species	Number of species			Number of individuals		
	1997	1998	1999	1997	1998	1999
All species	57	51	49	17,836	17,005	17,343
Endemic	7	7	8	281	306	329
Indigenous	4	9	7	171	1,313	1,038
Alien	34	27	30	15,695	13,761	14,762
Visitor	12	8	4	1,689	1,625	1,214

Source: Hawaii Audubon Society, records.

Table 5.48-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1994 TO 1999

[As of June 30]

Location	1994	1995	1996	1997	1998	1999
Along City and County streets and highways 1/	131,817	132,286	134,270	135,626	136,982	138,352
In City and County parks	99,412	100,377	101,063	102,083	103,103	104,134

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

Table 5.49-- ESTIMATED NUMBER OF SPECIES IN HAWAII: 1996 TO 1998

[Excludes viruses and bacteria]

Category	Species		
	1996	1997	1998
Total in Hawaii and surrounding waters	22,077	22,462	23,187
Endemic to Hawaii	8,805	8,864	9,176
Nonindigenous protists, fungi, plants, and animals	4,573	4,598	4,831
Terrestrial	(NA)	(NA)	(NA)
Found in fresh water	(NA)	(NA)	(NA)
Marine-inhabiting	6,500	(NA)	(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 Bidiversity 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; L. G. Eldredge, "Numbers of Hawaiian species: Supplement 4", *Bishop Museum Occasional Papers* 58 (1999): 72-78.

Table 5.50-- THREATENED AND ENDANGERED SPECIES, FOR THE UNITED STATES AND HAWAII: JULY 11, 2000

	United States	Hawaii
Total	1,256	310
Mammals	74	1
Birds	94	31
Snails	31	2
Insects	39	1
Arachnids	6	1
Crustaceans	21	1
Flowering plants	704	261
Ferns and allies	26	12
Others	261	-

Source: U.S. Fish and Wildlife Service, Division of Endangered Species, Threatened and Endangered Species System (TESS) http://ecos.fws.gov/servlet/TESSSpeciesReport/type.

Section 6: Land Use and Ownership

Section Narrative			
6.01	Land Ownership, Cover, or Use: 1982 to 1997		
6.02	Land Use and Structural Characteristics of Oahu: 1992 and 1997		
6.03	Estimated Acreage of Land Use Districts: 1964 to 1999		
6.04	Estimated Acreage of Land Use Districts, by Islands: December 31, 1999		
6.05	Land Ownership or Tenure, by Islands: Fall 1988		
6.06	Land Parcels, by Counties: Fiscal Years 1991 to 2001		
6.07	Property Tax Exemptions: Cemeteries, Churches, Hospitals, and Schools, by Counties: 2000-2001		
6.08	Land Owned in Fee Simple by Selected Large Landowners: 1997 to 1999		
6.09	Real Property Owned by or Leased to the Federal Government: 1995 to 1999		
6.10	Department of Hawaiian Home Lands Acreage, Lessees, and Applicants, by Islands: June 30, 1999		
6.11	State Public and Set-Aside Land Inventory, by Counties: January 10, 1999		

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 Information Branch 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: 1999*.

Table 6.01-- LAND OWNERSHIP, COVER, OR USE: 1982 TO 1997

[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 1/	1997
Total surface area	4,163.2	4,163.2	4,163.2	4,163.2
LAND OWNERSHIP				
Federal land 2/	319.8	386.3	388.0	388.0
Water area	58.5	58.5	58.5	58.5
Nonfederal land	3,784.9	3,718.4	3,716.7	3,716.7
Developed	153.2	156.6	176.8	185.5
Rural	3,631.7	3,561.8	3,539.9	3,531.2
LAND COVER OR USE				
Nonfederal rural land	3,631.7	3,561.8	3,539.9	3,531.2
Cropland	302.0	294.2	274.4	243.9
Cultivated	267.1	252.1	228.6	3/ 197.2
Irrigated	169.4	13.6	197.2	103.0
Nonirrigated	97.7	88.5	89.8	94.2
Noncultivated	34.9	42.1	45.8	46.7
Irrigated	8.2	10.4	24.2	22.4
Nonirrigated	26.7	31.7	21.6	24.3
Conservation Reserve Program land	-	-	-	-
Pastureland	87.5	79.5	90.7	89.3
Rangeland	946.7	936.8	945.9	945.7
Forest land	1,619.2	1,588.1	1,530.2	1,514.3
Other rural land	676.3	663.2	698.7	738.0
PRIME FARMLAND, BY COVER OR USE				
Total rural land	284.3	272.8	268.0	268.4
Cropland	184.3	179.8	168.8	149.5
Conservation Reserve Program land	-	-	-	-
Pastureland	41.4	36.9	41.9	41.6
Rangeland	32.7	31.7	31.7	40.1
Forest land	24.8	22.9	21.9	22.4
Other rural land	1.1	1.5	3.7	14.8

1/ Data for 1982 through 1992 revised based on 1997 publication. 1997 data are preliminary.
2/ Includes ceded land; excludes leased land and submerged land.
3/ At the 95-percent confidence interval, estimated standard error is 19.0.
Source: U.S. Department of Agriculture, Natural Resources Conservation Service (formerly the Soil Conservation Service), *1997 National Resources Inventory* <http://www.nhq.nrcs.usda.gov/NRI/1997/>

Table 6.02-- 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	374,889	54,117	320,772
Residential	30,162	32,104	9,914	22,189
Industrial	9,361	9,597	3,793	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	48,256	2,431	45,825
Other	221,233	223,493	36,005	187,489
STRUCTURES BY YEAR BUILT 1/				
All structures	156,126	165,733	64,450	101,283
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	25,290
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	18,689	3,294	15,389
DWELLING UNITS BY TYPE 1/				
All dwelling units	271,108	290,715	152,041	138,674
Single family and duplex	144,815	153,592	58,107	95,485
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 6.03-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1999

[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
1998: December	4,112,388	193,001	1,974,994	1,934,423	9,970
1999: December	4,112,388	194,592	1,974,994	1,932,792	10,010

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 6.04-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS: DECEMBER 31, 1999

[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	194,592	1,974,994	1,932,792	10,010
Hawaii	2,573,400	53,339	1,305,706	1,213,639	716
Maui	465,800	21,389	194,836	245,797	3,778
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	99,684	156,618	129,886	-
Kauai	353,900	14,413	198,769	139,465	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 6.05-- 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/	4,035,601	338,035	1,188,242	14,898	2,494,426
Percent	100.0	8.4	29.4	0.4	61.8
Hawaii	2,497,055	229,848	817,391	1,278	1,448,537
Maui	448,170	26,875	102,345	1,568	317,381
Kahoolawe	28,800	28,800	-	-	-
Molokini	19	19	-	-	-
Lanai	88,985	5	124	14	88,843
Molokai	170,910	211	47,601	265	122,831
Oahu	403,154	48,861	69,541	11,162	273,590
Kauai	351,292	3,158	150,984	610	196,540
Niihau	46,705	-	-	-	46,705
Lehua and Kaula	512	256	256	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

3/ Data exclude the Northwestern Hawaiian Islands (1,722 acres).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records. Tabulation by State Department of Business, Economic Development & Tourism.

Table 6.06-- LAND PARCELS, BY COUNTIES: FISCAL YEARS 1991 TO 2001

[Fiscal year ending June 30]

Fiscal Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1991	424,111	224,339	50,966	124,902	23,904
1992	431,271	227,449	52,362	126,497	24,963
1993	438,388	231,893	53,414	127,444	25,637
1994	446,276	236,138	55,379	128,543	26,216
1995	452,568	240,652	56,108	128,954	26,854
1996	459,646	245,257	57,044	129,708	27,637
1997	467,966	250,320	57,992	131,060	28,594
1998	471,942	252,587	58,866	131,658	28,831
1999	475,538	254,282	59,852	132,366	29,038
2000	476,194	256,839	58,866	131,658	28,831
2001	484,467	258,162	62,213	134,573	29,519

Source: City and County of Honolulu, Depart ment of Budget & Fiscal Services (Department of Finance through 1999), Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, State of Hawaii* (annual).

Table 6.07-- REAL PROPERTY TAX EXEMPTIONS FOR CEMETERIES, CHURCHES, HOSPITALS AND SCHOOLS, BY COUNTIES: 2000-2001

[For fiscal year ended June 30]

Category	Cemeteries	Churches	Hospitals	Schools
PARCELS				
State total	106	1,459	103	185
Honolulu	48	800	79	125
Maui	5	228	12	7
Hawaii	44	296	3	49
Kauai	9	135	9	4
AMOUNT ($1,000)				
State total	44,704	1,111,958	498,903	649,398
Honolulu	39,690	853,098	449,262	569,675
Maui	71	131,128	26,900	18,923
Hawaii	2,666	85,137	10,908	40,023
Kauai	2,277	42,596	11,833	20,778

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 2000-2001 Tax Year, State of Hawaii* (July 2000) and <http://www.co.honolulu.hi.us/rpa/staterpt.htm>

Table 6.08-- LAND OWNED IN FEE SIMPLE BY SELECTED LARGE LANDOWNERS: 1997 TO 1999

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

Landowner	1997	1998	1999
Eight large landowners	996,226	992,998	981,844
Percent of total land area 1/	24.2	24.2	23.9
Bernice P. Bishop Estate 2/	366,098	366,374	366,252
Parker Ranch	136,602	136,436	136,406
Castle & Cooke, Inc.	100,023	99,909	99,791
Dole Food Company, Inc.	28,745	28,685	28,518
Samuel M. Damon Estate	121,595	121,595	121,360
Alexander and Baldwin Properties	93,020	93,080	91,226
C. Brewer and Company, Ltd.	79,343	76,219	75,891
James Campbell Estate	70,800	70,700	62,400

1/ Based on area of 4,110,966 acres.
2/ As of July 1.
Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of major landowners.

Table 6.09-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1995 TO 1999

[As of September 30]

Subject	1995	1996	1997	1998	1999
OWNED					
Number of installations	262	256	254	265	563
Land area, total (acres)	350,932.7	350,221.2	350,151.4	605,362.0	618,327.3
Percent of State area	8.5	8.5	1/ 8.5	1/ 14.8	1/ 15.1
Urban	20,626.0	125,628.7	125,628.7	125,493.8	126,642.1
Rural	330,306.7	224,592.5	224,522.7	479,868.2	491,685.2
Number of buildings	15,084	15,166	15,145	14,827	14,967
Floor area of bldgs. (1,000 sq. ft.)	76,136	77,846	77,834	72,324	72,324
Cost, total ($1,000) 2/	3,212,033	3,397,303	3,398,474	3,372,301	3,584,825
Land	70,393	64,021	64,021	69,520	67,503
Buildings	2,192,454	2,383,306	2,384,505	2,415,232	2,576,501
Structures and facilities	949,186	949,976	949,948	887,549	940,821
Predominant usage of land (acres):					
Agriculture and grazing	-	-	-	-	-
Forest and wildlife	1,384.3	450.0	450.0	255,806.4	267,670.0
Parks and historic sites	220,526.7	220,526.7	220,526.7	220,526.7	220,526.7
Power development and distribution	-	-	-	-	-
Military, excluding airfields	111,014.5	111,025.5	111,025.5	113,937.6	117,105.1
Airfields	6,794.9	6,794.4	6,794.4	3,890.7	289.1
Harbor and port facilities	2.2	2.2	2.2	22.9	22.9
Reclamation and irrigation	-	-	-	-	-
Office building locations	62.4	61.7	61.7	61.7	51.3
Flood control and navigation	-	-	-	-	-
Vacant	1.5	1.5	1.5	1.5	-
Institutional	-	-	-	-	-
Housing	-	-	-	-	-
Storage	778.2	772.8	772.8	632.2	638.0
Industrial	8,996.3	9,144.9	9,144.9	9,141.8	8,838.0
Research and development	209.5	279.3	209.5	178.3	209.0
Misc. land	1,162.2	1,162.2	1,162.2	1,162.2	-
LEASED					
Number of leases	542	533	531	525	532
Land area, total (acres)	72,572.4	72,653.6	72,653.6	66,346.4	72,655.9
Urban	633.7	633.7	633.7	633.5	633.5
Rural	71,938.7	72,019.9	72,019.9	65,712.9	72,022.7
Number of building locations	644	641	639	635	657
Floor area of buildings (1,000 sq. ft.)	1,038.6	1,017.7	1,015.5	993.1	1,226.1
Annual rental ($1,000)	13,680	13,965	13,906	13,781	18,916

Footnotes and source on next page.

Table 6.09-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1995 TO 1999 -- Con.

1/ An unpublished correction to the source, shows the U.S. percentage was 24.8 and the Hawaii percentage ranking to be the 17th highest among the 50 States and D.C. A rank of 1 indicates the state or area that has the largest percentage of land owned by the Federal Government. Similarly, in 1998, the U.S. percentage was 28.8 and the Hawaii percentage ranked the 14th highest while in 1999, the U.S. percentage was 27.7 and again, the Hawaii percentage ranked the 14th highest.

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, Real Property Clearinghouse, accessed August 21, 2000 at http://policyworks.gov/org/main/mp/library/policydocs/wwi.htm

Table 6.10-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1999

[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/	199,257	115,951	30,862	25,386	6,848	20,211
Homestead leases 2/	6,809	1,931	654	809	2,916	499
Residential	5,375	1,171	514	382	2,858	450
Agricultural	1,059	487	66	401	58	47
Pastoral	375	273	74	26	-	2
Applicant waiting list 2/	30,383	11,509	5,964	1,645	7,881	3,384
Residential	16,248	4,902	2,777	705	6,373	1,491
Agricultural	12,169	5,350	2,816	798	1,508	1,697
Pastoral	1,966	1,257	371	142	-	196

1/ Data based on latest figures from the trust resolution project. Acreages are rounded to the nearest acre and include 12,057 acres of new lands out of the 16,518-acre land transfer from the Public Land Trust and 20 acres from the Hawaiian Home Lands Recovery Act. 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. Act 95, SLH 1996, also transferred 51.324 acres at Kealakehe (La'i'opua) and 37.839 acres at Kapolei, Oahu, as part of the land claims settlement. DHHL also purchased 57.160 acres at Waiehu Kou, Maui.

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 18,660. Data are subject to audit.

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

Table 6.11-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY, BY COUNTIES: JANUARY 10, 1999

[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					
Public lands	397.9	19.5	296.9	38.0	43.5
General lease 1/ 2/	224.7	4.7	184.6	22.9	12.5
Revocable permit 1/ 3/	41.5	1.3	23.2	4.4	12.6
Unencumbered lands 4/	131.7	13.5	89.1	10.7	18.4
Lands set aside to other government agencies	758.0	42.9	525.1	96.6	93.4
Executive order 1/	255.9	13.7	199.9	23.9	18.4
Governor's proclamation	502.1	29.2	325.2	72.7	75.0
Dept. of Hawaiian Home Lands	(NA)	(NA)	(NA)	(NA)	(NA)
University of Hawaii	(NA)	(NA)	(NA)	(NA)	(NA)
Hawaii Housing Authority	(NA)	(NA)	(NA)	(NA)	(NA)
Highways and roads	(NA)	(NA)	(NA)	(NA)	(NA)

1/ Acreage may include overlapping encumbrances.

2/ Long-term leases. Mostly agricultural and pasture land. Includes land covered by water licenses not set aside to other government agencies.

3/ Month-to-month leases. Mostly agricultural and pasture land. Includes land licenses.

4/ 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

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Section Narrative	
7.01	Travel Characteristics for Hawaii and the United States: 1977 and 1995
7.02	Person Trips to, from, and within Hawaii, by Census Divisions or States of Destination or Origin: 1995
7.03	Person Trips to, from, and within Hawaii, by Selected Traveler Characteristics: 1995
7.04	Passengers Arriving, by Points or Origin and Transit Status: 1990 to 1999
7.05	Passenger Status of Parties and Passengers Arriving in Hawaii, by Points of Origin: 1998 to 1999
7.06	Visitor Arrivals and Average Visitor Census: 1965 to 1999
7.07	Overnight and Longer Visitors to Hawaii: 1998 and 1999
7.08	Visitor Days, by Points of Origin: 1990 to 1999
7.09	Average Visitor Census, by Counties and Islands: 1998 and 1999
7.10	Visitor Arrivals, Domestic and International, by Areas Visited: 1998 and 1999
7.11	Summary Characteristics of Overnight and Longer Visitors, by Points of Originl: 1998 and 1999
7.12	Domestic Visitors by States and Regions: 1998 and 1999
7.13	Trip Characteristics of Visitors, by Points of Origin: 1998 and 1999
7.14	Characteristics of Visitor Party Heads, by Points or Origin: 1999
7.15	Length of Stay of Visitors Staying Overnight or Longer, by Points of Origin: 1998 and 1999
7.16	Japanese Visitor Arrivals and Expenditures: 1994 to 1999
7.17	Family Income, Education, Trip Characteristics, and Satisfaction of Mainlanders Visiting Hawaii: 1996 and 1998
7.18	Average Expenditure per Visitor Day, by Origin of Visitors: 1931-32 to 1999
7.19	Average Expenditure per Visitor Day in Constant Dollars, for Visitors from the Mainland: 1931 to 1999
7.20	Expenditures per Visitor Day by Visitors from the U.S. West, U.S. East, and Japan, by Expenditure Type: 1998 and 1999

7.21	Expenditures per Visitor Day by Visitors from U.S. West, U.S. East, and Japan, by Visitor or Trip Characteristics: 1998 and 1999		
7.22	Estimated Visitor Expenditures: 1951 to 1999		
7.23	Visitor Expenditures, by Country of Residence: 1990 to 1999		
7.24	Estimated Direct Visitor-Related Expenditures: 1985 to 1998		
7.25	Economic Activity Generated by Visitor-Related Expenditures: 1985 to 1998		
7.26	Visitor Industry Prices, Price Deflator, and Price Indexes: 1980 to 1999		
7.27	Returning Residents and Average Number Absent, by Direction of Travel: 1992 to 1999		
7.28	Passports Issued by the Honolulu Passport Agency: 1995 to 1999		
7.29	Performing Arts, for Oahu: 1998-1999 Season		
7.30	Symphony Orchestra Activities: 1986-1987 to 1997-1998		
7.31	Attendance at Museums and Other Cultural Attractions: 1997 to 1999		
7.32	Characteristics of Museums and Other Cultural Attractions: 1996		
7.33	National Parks: 1990 to 1999		
7.34	State Parks and Historic Sites: 1989 to 1999		
7.35	Major State Parks: 1998 and 1999		
7.36	National and State Historic Sites, by Islands: 1998 and 1999		
7.37	Zoos: 1996 to 1999		
7.38	Aquatic Collections: 1999		
7.39	County Parks, by Islands: 1997 to 1999		
7.40	Attendance and Water Safety at Guarded Beach Parks, for the City and County of Honolulu: 1999		
7.41	Swimming and Surfing Sites, by Islands		
7.42	County Tennis Facilities: 1997 to 1999		
7.43	Golf Courses, by Number of Holes, Ownership, and Islands: 2000		

7.44	Average Annual Golf Round and Total Golf Revenues: 1995 & 1996		
7.45	County Golf Courses and Camping Permits, for Oahu: 1991 to 1999		
7.46	Sony Open Scores and Purses: 1992 to 2000		
7.47	Public Hunting Areas and Wildlife Sanctuaries and Refuges, by Islands: October 30, 1997		
7.48	Fishing and Hunting Licenses Issued: 1994 to 1999		
7.49	Fishing, Hunting, and Wildlife - Associated Recreation of Persons 16 Years of Age and Older: 1996		
7.50	Honolulu Marathon Registrants, Finishers and Winning Times: 1992 to 1999		
7.51	Ironman Triathlon World Championship Participants, Finishers, and Winning Times: 1992 to 1999		
7.52	Transpacific Yacht Club's Honolulu Race Entries and Winning Times: 1985 to 1999		
7.53	Total Attendance at Football Bowl Games: 1994-1995 to 1999-2000 Seasons		
7.54	Varsity Sports Summary for the University of Hawaii at Manoa: 1996-1997 to 1998-1999		
7.55	Public High School Interscholastic Sports: 1996-1997 and 1997-1998 Season		
7.56	Professional Boxing: 1993 to 1999		
7.57	Dog Licenses Issued, by Islands: 1993 to 1999		

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 State Department of Business, Economic Development and Tourism's, Tourism Research Branch (particularly in its annual research reports) and Research and Economic Analysis Division, the State Parks Division of the Hawaii State Department of Land and Natural Resources, 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: 1999.*

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 POINTS OF ORIGIN AND TRANSIT STATUS: 1990 TO 1999

Points of origin and status	1990	1991	1992	1993	1994
All directions	8,507,330	8,272,760	8,405,740	7,878,950	7,909,250
Landing	7,453,550	7,286,140	7,266,350	6,945,630	7,263,820
Intransit	1,053,780	986,620	1,139,390	933,320	645,430
Domestic	5,692,950	5,444,070	5,295,770	5,039,640	5,197,640
Landing	5,127,690	4,913,650	4,664,350	4,520,430	4,772,380
Intransit	565,260	530,420	631,420	519,210	425,260
International	2,814,380	2,828,690	3,109,970	2,839,310	2,711,610
Landing	2,325,860	2,372,490	2,602,000	2,425,200	2,491,440
Intransit	488,520	456,200	507,970	414,110	220,170

Points of origin and status	1995	1996	1997	1998	1999
All directions	7,957,220	8,049,980	8,182,660	7,852,500	7,980,220
Landing	7,466,710	7,648,880	7,723,580	7,545,230	7,708,206
Intransit	490,510	401,100	459,080	307,270	272,014
Domestic	5,056,770	5,078,740	5,147,470	5,169,410	5,172,404
Landing	4,725,150	4,801,570	4,907,620	5,033,100	5,088,781
Intransit	331,620	277,170	239,850	136,310	83,623
International	2,900,450	2,971,240	3,035,190	2,683,090	2,807,816
Landing	2,741,560	2,847,310	2,815,960	2,512,130	2,619,425
Intransit	158,890	123,930	219,230	170,960	188,391

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.05-- PASSENGER STATUS OF PARTIES AND PASSENGERS ARRIVING IN HAWAII, BY POINTS OF ORIGIN: 1998 TO 1999

Year and points of origin	All types	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents
			Overnight or longer	Intransit		
PARTIES 1/						
1998, total	3,909,518	3,084,929	219,360	(NA)	587,062	18,166
Domestic	2,671,532	2,047,562	99,037	(NA)	506,767	18,166
International	1,237,986	1,037,368	120,323	(NA)	80,295	(NA)
1999, total	3,813,442	3,109,358	94,585	(NA)	591,766	17,733
Domestic	2,730,904	2,099,026	94,585	(NA)	519,560	17,733
International	1,082,538	1,010,332	(NA)	(NA)	72,206	(NA)
PASSENGERS						
1998, total	8,093,186	6,413,804	423,466	307,270	919,581	29,065
Domestic	5,206,483	4,062,286	193,334	136,310	785,488	29,065
International	2,886,703	2,351,518	230,132	170,960	134,093	(NA)
1999, total	7,980,514	6,564,988	176,049	272,014	939,622	27,841
Domestic	5,172,403	4,079,572	176,049	83,623	805,318	27,841
International	2,808,111	2,485,416	(NA)	188,391	134,304	(NA)

NA Not available.

1/ Not surveyed for intransit passengers.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.06-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1965 TO 1999

	Visitors staying overnight or longer			Average number of visitors present		
Year	Total	Domestic	International	Total	Domestic	International
1965	686,314	539,211	147,103	17,353	16,057	1,296
1966	834,732	629,564	205,168	20,900	19,271	1,629
1967	1,124,012	828,849	295,163	27,610	24,898	2,712
1968	1,313,706	952,821	360,885	32,314	28,784	3,530
1969	1,526,074	1,121,714	404,360	37,175	33,088	4,087
1970	1,745,904	1,273,639	472,265	36,920	32,028	4,892
1971	1,817,941	1,363,081	454,860	40,866	36,504	4,362
1972	2,233,627	1,682,285	551,342	49,987	45,098	4,889
1973	2,622,376	1,942,714	679,662	59,450	53,407	6,043
1974	2,804,394	2,036,203	768,191	63,772	56,939	6,833
1975	2,818,082	2,028,068	790,014	66,146	59,495	6,651
1976	3,213,249	2,327,399	885,850	75,426	68,225	7,201
1977	3,413,095	2,508,472	904,623	82,737	75,684	7,053
1978	3,676,967	2,766,012	910,955	92,114	85,028	7,086
1979	3,966,192	2,888,521	1,077,671	98,745	89,678	9,067
1980	3,928,789	2,793,101	1,135,688	96,406	86,788	9,618
1981	3,928,906	2,778,566	1,150,340	95,874	85,449	10,425
1982	4,227,733	3,072,543	1,155,189	105,075	94,740	10,335
1983	4,356,317	3,219,219	1,137,098	107,860	97,390	10,470
1984	4,827,884	3,499,419	1,328,466	118,252	106,260	11,992
1985	4,843,414	3,522,126	1,321,288	116,107	103,820	12,287
1986	5,569,067	4,063,928	1,505,138	132,355	118,110	14,245
1987	5,770,585	4,040,204	1,730,381	133,835	116,780	17,055
1988	6,101,483	4,041,878	2,059,605	140,798	115,760	25,038
1989	6,488,428	4,339,513	2,148,915	165,058	135,480	29,578
1990	6,723,530	4,315,159	2,408,370	154,516	113,066	41,450
1991	6,518,460	4,068,508	2,449,952	147,323	105,686	41,637
1992	6,473,675	3,791,951	2,681,724	152,249	106,589	45,660
1993	6,070,987	3,570,051	2,500,936	147,498	100,430	47,068
1994	6,364,675	3,813,280	2,551,395	156,630	107,904	48,726
1995	6,546,762	3,743,477	2,803,285	157,098	105,649	51,450
1996	6,723,150	3,794,122	2,929,028	158,297	106,404	51,892
1997	6,761,148	3,890,811	2,870,337	157,187	108,019	49,168
1998	6,595,790	4,014,140	2,581,650	157,388	112,068	45,320
1999	6,741,037	4,255,621	2,485,416	164,439	117,998	46,441

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.07-- OVERNIGHT AND LONGER VISITORS TO HAWAII: 1998 AND 1999

Departure from Major Market Areas (MMA)	1998 Total	1998 Domestic	1998 Inter-national	1999 Total	1999 Domestic	1999 Inter-national
All visitors	6,595,790	4,014,140	2,581,650	6,741,037	4,255,621	2,485,416
US West MMA	2,125,993	2,047,943	78,050	2,308,836	2,208,409	100,427
US East MMA	1,508,698	1,414,765	93,933	1,601,238	1,517,603	83,636
Japan MMA	2,004,354	57,977	1,946,377	1,825,588	47,348	1,778,240
Canada MMA	232,592	55,403	177,189	252,777	37,836	214,941
Other Asia MMA						
China	29,863	21,324	8,539	27,466	19,325	8,141
Hong Kong	21,016	4,652	16,364	13,629	3,562	10,067
Korea	20,877	5,449	15,428	39,263	8,072	31,191
Singapore	6,176	873	5,303	6,502	1,188	5,314
Taiwan	36,549	5,726	30,823	42,703	5,107	37,596
Oceania MMA						
Australia	69,748	26,332	43,416	78,869	26,011	52,858
New Zealand	37,368	14,587	22,781	32,336	11,720	20,616
Europe MMA						
United Kingdom	79,778	65,175	14,603	85,339	68,971	16,368
France	12,670	11,052	1,618	12,635	11,088	1,547
Germany	67,540	59,550	7,990	64,228	58,552	5,676
Italy	6,756	5,398	1,358	7,249	5,912	1,337
Switzerland	16,022	14,367	1,655	14,417	13,117	1,300
Latin America MMA						
Argentina	3,740	3,740	(NA)	3,631	3,631	(NA)
Brazil	11,250	11,250	(NA)	7,577	7,577	(NA)
Mexico	6,388	6,388	(NA)	6,097	6,097	(NA)
Other MMA	298,412	182,189	116,223	310,656	194,494	116,162

NA Not available

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.08-- VISITOR DAYS, BY POINTS OF ORIGIN: 1990 TO 1999

Year	Total	Domestic	International
1990	56,398,499	41,269,155	15,129,344
1991	53,772,839	38,575,333	15,197,505
1992	55,723,013	39,011,618	16,711,395
1993	53,836,611	36,656,820	17,179,791
1994	57,169,825	39,384,934	17,784,891
1995	57,340,911	38,561,739	18,779,172
1996	57,936,622	38,944,059	18,992,563
1997	57,373,493	39,427,198	17,946,295
1998	57,446,913	40,904,938	16,541,975
1999	60,020,237	43,069,177	16,951,060

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.09-- AVERAGE VISITOR CENSUS, BY COUNTIES AND ISLANDS: 1998 AND 1999

County or island	1998 Total	1998 Domestic	1998 Inter-national	1999 Total	1999 Domestic	1999 Inter-national
State total	157,389	112,068	45,320	164,439	117,998	46,441
Oahu	72,623	42,526	30,098	79,497	45,755	33,743
Hawaii County	23,993	18,654	5,338	22,736	18,175	4,561
Kauai County	17,909	15,286	2,623	18,214	16,579	1,634
Maui County	42,864	35,603	7,261	43,992	37,489	6,503
Lanai	1,267	1,011	255	1,124	909	215
Maui	40,440	33,671	6,768	41,918	35,750	6,167
Molokai	1,157	920	237	950	830	121

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.10-- VISITOR ARRIVALS, DOMESTIC AND INTERNATIONAL, BY AREAS VISITED: 1998 AND 1999

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

Areas visited	1998			1999		
	Total	Domestic	Inter-national	Total	Domestic	Inter-national
State total 1/	6,595,790	4,014,140	2,581,650	6,741,037	4,255,621	2,485,416
Oahu	4,601,834	2,222,551	2,379,283	4,560,142	2,347,040	2,213,101
Kauai	1,078,400	881,571	196,828	1,089,289	929,657	159,632
Maui County 1/	2,304,115	1,776,165	527,950	2,347,002	1,866,531	480,471
Maui	2,243,912	1,725,134	518,779	2,278,933	1,813,488	465,446
Molokai	75,245	62,563	12,682	69,657	59,685	9,972
Lanai	97,434	82,385	15,048	94,546	80,434	14,112
Hawaii County 1/	1,340,767	927,037	413,731	1,307,720	942,359	365,361
Hilo side	413,935	292,847	121,087	429,781	298,094	131,686
Kona side	1,137,993	809,424	328,569	1,093,524	815,881	277,643
One island only	4,552,759	2,730,306	1,822,452	4,800,628	2,930,443	1,870,185
Oahu only	2,861,640	1,209,846	1,651,795	2,917,116	1,294,883	1,622,233

1/ Because many visitors planned to visit more than one area, detail sums to more than the totals and subtotals shown here.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.11-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS, BY POINTS OF ORIGIN: 1998 AND 1999

Subject	Total	Domestic	International
1998			
Residence (percent):			
United States	55.1	86.3	6.7
Pacific and Mountain States	32.2	51.0	3.0
California	(NA)	31.6	(NA)
Males per 100 females	(NA)	(NA)	(NA)
Average age (years)	(NA)	(NA)	(NA)
High-status occupations 1/ (percent)	(NA)	(NA)	(NA)
Persons per party	2.0	1.9	2.2
Arriving June-August (percent)	26.9	27.6	25.8
Repeat visitors 2/ (percent)	60.0	63.9	53.8
Pleasure trip (percent)	81.9	77.0	89.5
In hotel only	64.1	54.5	79.0
One island only	69.0	68.0	70.6
Destined beyond Hawaii (percent)	6.4	4.8	8.9
1999			
Residence (percent):			
United States	58.0	87.6	7.4
Pacific and Mountain States	34.3	51.9	4.0
California	(NA)	31.9	(NA)
Males per 100 females	(NA)	(NA)	(NA)
Average age (years)	(NA)	(NA)	(NA)
High-status occupations 1/ (percent)	38.4	43.8	26.9
Persons per party	2.1	1.9	2.5
Arriving June-August (percent)	27.4	28.1	26.2
Repeat visitors 2/ (percent)	58.9	64.2	49.8
Pleasure trip (percent)	81.1	77.0	88.1
In hotel only	63.6	54.6	79.0
One island only	71.2	68.9	75.2
Destined beyond Hawaii (percent)	(NA)	4.1	(NA)

NA Not available.

1/ Senior management, middle management, and professional as a percent of all visitor party heads.

2/ Party heads.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.12-- DOMESTIC VISITORS BY STATES AND REGIONS: 1998 AND 1999

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

Residence	1998	1999
United States	3,462,708	3,726,012
Pacific	1,705,992	1,844,511
Alaska	37,579	41,737
California	1,269,623	1,355,754
Oregon	128,510	147,220
Washington	270,279	299,802
Mountain	341,950	363,898
Arizona	89,333	94,289
Colorado	90,828	98,218
Idaho	21,092	24,522
Montana	12,269	13,273
Nevada	45,397	46,772
New Mexico	19,643	19,803
Utah	58,332	61,635
Wyoming	5,057	5,386
West North Central	172,518	191,856
Iowa	20,830	23,772
Kansas	20,182	21,695
Minnesota	66,034	76,502
Missouri	42,131	45,279
Nebraska	13,710	14,199
N. Dakota	4,819	4,727
S. Dakota	4,813	5,682
West South Central	208,235	217,433
Arkansas	11,022	12,001
Louisiana	15,593	16,401
Oklahoma	19,916	21,902
Texas	161,704	167,129
East North Central	358,967	374,582
Illinois	128,745	132,675
Indiana	40,563	41,724
Michigan	76,217	78,946
Ohio	70,824	75,441
Wisconsin	42,619	45,795
East South Central	71,242	76,409
Alabama	16,445	17,746
Kentucky	18,194	19,150
Mississippi	7,961	8,092
Tennessee	28,642	31,421

Continued on next page.

Table 7.12-- DOMESTIC VISITORS BY STATES AND REGIONS: 1998 AND 1999 - Con.

Residence	1998	1999
New England	92,070	97,204
Connecticut	24,710	26,653
Maine	6,426	6,663
Massachusetts	43,867	44,878
New Hampshire	7,981	8,783
Rhode Island	5,690	6,121
Vermont	3,397	4,106
Middle Atlantic	220,845	241,256
New Jersey	58,958	66,806
New York	102,379	107,906
Pennsylvania	59,508	66,544
South Atlantic	290,888	318,863
Delaware	3,913	4,518
Washington,D.C.	5,945	5,928
Florida	77,474	84,007
Georgia	50,635	54,025
Maryland	40,298	44,226
N. Carolina	33,435	38,848
S. Carolina	14,666	15,901
Virginia	59,587	65,683
West Virginia	4,935	5,727

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.13-- TRIP CHARACTERISTICS OF VISITORS, BY POINTS OF ORIGIN: 1998 AND 1999

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

Subject	Domestic		International	
	1998	1999	1998	1999
All visitors 1/	4,014,140	4,255,621	2,581,650	2,485,416
Purpose of visit: 1/				
Pleasure	3,090,475	3,275,236	2,309,694	2,189,324
Honeymoon	254,510	266,304	338,248	395,463
Meetings, conventions, incentive 1/	351,887	384,171	99,826	100,580
Convention	213,505	247,556	42,687	52,685
Corporate meeting	75,759	79,792	19,765	18,861
Incentive	68,017	61,412	39,326	30,099
Other business	179,107	183,546	29,714	32,088
Visit friends or relatives	339,500	350,874	83,278	55,594
Government or military	57,202	62,511	7,690	31,626
Attend school	11,102	12,067	5,949	9,032
Traveler method:				
Tour group	391,892	387,342	1,246,640	1,134,365
Package	1,491,705	1,520,407	1,413,934	1,689,339
Group tour and package	314,120	309,916	904,459	1,008,590
True independent	2,442,187	2,657,788	822,503	669,953
Accommodations:				
Hotel	2,445,157	2,581,579	2,117,497	2,031,123
Hotel only	2,188,177	2,321,714	2,038,262	1,964,564
Condo	1,025,681	1,046,359	324,681	280,375
Condo only	860,019	884,467	270,472	230,795
Apartment	63,789	64,650	20,706	16,004
Bed & Breakfast	59,427	61,709	26,761	34,679
Cruise ship	79,470	82,575	10,197	7,396
Friends, relatives	451,904	476,356	102,955	75,216

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

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.14-- CHARACTERISTICS OF VISITOR PARTY HEADS, BY POINTS OF ORIGIN: 1999

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

Subject	Total	Domestic	International
All visitor party heads	3,203,951	2,193,619	1,010,332
Occupation:			
Senior management, executive	325,475	256,667	68,808
Middle management	310,346	214,088	96,258
Sales, marketing	278,353	210,921	67,433
Clerical, administration	228,159	88,495	139,664
Professional	596,015	489,683	106,333
Technical, trade	196,475	118,596	77,880
Labor	124,028	23,947	100,081
Farming/Fishing	17,172	10,213	6,958
Homemaker	145,507	59,224	86,283
Military service	29,947	25,907	4,040
Military dependent	3,222	2,392	830
Student	180,526	110,900	69,626
Self-employed	254,020	170,153	83,866
Retired	309,541	277,511	32,030
Other non-employed	54,323	18,576	35,747
Other employed	150,842	116,347	34,495
Trips to Hawaii:			
First trip	1,283,263	784,679	498,584
Second trip	614,019	409,983	204,036
Third trip	309,724	221,040	88,684
Fourth trip and over	996,945	777,917	219,028
Persons in party:			
1 person	1,217,011	877,132	339,879
2 persons	1,419,609	989,933	429,676
3 persons	214,808	131,580	83,228
4 persons	201,923	126,629	75,294
5 persons or more	150,600	68,345	82,255

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.15-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY POINTS OF ORIGIN: 1998 AND 1999

Length of stay	1998			1999		
	Total	Domestic	International	Total	Domestic	International
All visitors	6,595,790	4,014,140	2,581,650	6,741,037	4,255,621	2,485,416
1 to 6 days	2,920,881	1,017,356	1,903,525	2,803,212	1,040,079	1,763,133
7 to 12 days	2,729,966	2,193,740	536,226	2,932,315	2,390,829	541,487
13 to 30 days	862,548	721,388	141,160	890,998	741,919	149,080
31 to 365 days	82,395	81,656	739	114,512	82,795	31,716
Median (days)	6.83	8.00	5.00	6.89	8.00	5.00
Mean (days)	8.71	10.19	6.41	8.90	10.12	6.82

NA Not available.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.16-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES: 1994 TO 1999

Subject	1994	1995	1996	1997	1998	1999
Arrivals (1,000)	1,748	1,969	2,070	2,152	2,004	1,826
Average stay (days)	6.1	6.0	5.8	5.5	5.7	5.7
Expenditures (mil. dol.)	3,768	4,371	3,532	3,402	2,933	2,359

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.17-- FAMILY INCOME, EDUCATION, TRIP CHARACTERISTICS, AND SATISFACTION OF MAINLANDERS VISITING HAWAII: 1996 AND 1998

Subject	1996 1/	1998 2/
Sample size	1,319	1,689
Family income before taxes (percent)	100	100
Under $25,000	8	6
$25,000 to $49,999	23	20
$50,000 to $74,999	22	24
$75,000 to $99,999	15	18
$100,000 to $149,999	12	17
$150,000 and over	9	15
Not reported	11	-
Median income (dollars)	(NA)	75,000
Mean income (dollars)	80,500	(NA)
Education (percent):		
Associate degree	8	8
Bachelor's or higher	46	63
Using travel agent (percent)	57	58
Islands visited (percent):		
Oahu	56	52
Kauai	22	22
Maui	46	45
Hawaii	23	23
Overall satisfaction (percent):		
Excellent	58	68
Above average	29	31
Average or below average	12	2

NA Not available.
1/ Study not conducted in 1995 and 1997.
2/ No responses are not included.
Source: Hawaii Visitors & Convention Bureau, records.

Table 7.18-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1999

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

Year	Mainlanders	Japanese	Year	Mainlanders	Japanese
1931-32 1/	17.50	(NA)	1989	126.57	322.00
1951	28.00	(NA)	1990	136.30	294.04
1960-61	32.00	(NA)	1991	140.54	344.29
1965-66 1/	37.23	(NA)	1992	117.14	344.68
1974	46.20	123.00	1993	116.15	306.54
1977	54.62	146.85	1994	133.79	340.88
1980	71.24	185.00	1995	132.73	356.15
1983	85.88	227.32	1996	137.04	286.89
1986	95.40	299.00	1997	157.07	279.58
1987	102.49	324.00	1998	147.37	257.80
1988	121.44	350.00	1999	148.92	227.30

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, Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, Annual Visitor Research Report (annual) and records.

Table 7.19-- AVERAGE EXPENDITURE PER VISITOR DAY IN CONSTANT DOLLARS, FOR VISITORS FROM THE MAINLAND: 1931 TO 1999

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	1990	130.7	104
1951	26.0	108	1991	136.2	103
1960-61	29.8	107	1992	140.3	83
1965-66 2/	32.0	116	1993	144.5	80
1974	49.3	94	1994	148.2	90
1977	60.6	90	1995	152.4	87
1980	82.4	86	1996	156.9	87
1983	99.6	86	1997	160.5	98
1986	109.6	87	1998	163.0	90
1989	124.0	102	1999	166.6	89

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 7.20-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM THE U.S. WEST, U.S. EAST, AND JAPAN, BY EXPENDITURE TYPE: 1998 AND 1999

	Visitors from U.S. West		Visitors from U.S. East		Visitors from Japan	
Expenditure type	**1998**	**1999**	**1998**	**1999**	**1998**	**1999**
All items	140.4	139.8	175.5	176.8	261.0	229.9
Total food and beverage	29.4	32.3	35.5	36.4	42.8	34.1
Restaurants	18.0	19.8	21.9	22.8	26.7	14.2
Dinner shows	2.9	3.7	3.9	4.2	4.2	(NA)
Dinner or lunch cruise	2.0	2.4	3.7	3.2	5.1	(NA)
Nightclubs, bars	1.3	2.0	2.1	2.5	0.8	(NA)
Groceries	5.2	4.4	3.9	3.7	6.0	3.8
Other food expenditures	(NA)	(NA)	(NA)	(NA)	(NA)	7.0
Total entertainment 1/	12.4	10.7	15.7	13.9	18.1	4.4
Attractions	7.0	6.6	9.2	7.8	10.8	1.4
Sports, recreation	4.3	3.4	5.1	5.5	4.2	0.7
Other entertainment	1.1	0.7	1.5	0.7	3.1	2.3
Total transportation 1/	21.1	15.4	21.9	18.2	25.0	9.8
Interisland travel	5.3	3.8	5.6	4.6	7.8	4.9
Ground transportation	6.2	7.7	6.4	9.2	14.2	1.9
Rental vehicles	8.2	2.2	8.0	2.5	2.8	2.1
Gasoline	1.0	1.0	1.1	1.0	0.2	0.4
Parking	0.5	0.7	0.8	0.9	0.1	(NA)
Other transportation exp.	(NA)	(NA)	(NA)	(NA)	(NA)	0.6
Total fashion 2/	12.4	15.5	23.8	20.3	83.0	49.1
Fashion and clothing	7.2	8.7	14.9	11.7	26.3	21.1
Jewelry and watches	3.3	4.8	6.1	6.2	15.2	9.1
Cosmetics and perfumes	0.2	0.2	0.3	0.3	7.6	4.5
Leather goods	0.4	0.2	0.9	0.5	27.9	14.4
Other fashion items	1.2	1.6	1.5	1.6	6.0	
Total agricultural	1.9	1.8	1.8	2.0	5.9	2.7
Other shopping 2/	(NA)	(NA)	(NA)	(NA)	(NA)	15.9
Total souvenirs	4.7	5.2	6.2	6.4	9.7	15.5
Total communications	0.5	0.6	0.7	1.1	0.6	(NA)
Total personal services	1.1	1.6	1.3	2.0	1.7	(NA)
Total lodging	52.8	46.6	59.1	66.1	66.3	60.3
Tour pak not alloc./misc. 1/	4.1	10.1	9.5	10.4	7.9	38.2

1/ For Japan, spending on tour packages are not allocated in 1999, therefore, data are not directly comparable in these categories.

2/ For Japan, differences may be due to changes in the questionnaire in 1999.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.21-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM U.S. WEST, U.S. EAST, AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS: 1998 AND 1999

[Dollars]

Visitor or trip characteristics	Domestic Visitors from U.S.West		Domestic Visitors from U.S. East		International Visitors from Japan	
	1998	1999	1998	1999	1998	1999
All visitors	140.40	139.80	175.50	176.80	261.00	229.90
Group tour status:						
Organized group tour	181.50	132.70	207.20	172.20	257.10	236.20
Individually arranged	139.30	140.10	174.40	176.40	306.80	(NA)
Arrived on package tour:						
Yes	151.70	142.80	193.70	176.90	271.80	230.50
No	126.80	137.90	163.30	175.90	195.50	238.40
Accommodations:						
Hotel only	159.00	146.50	186.10	184.90	265.70	237.30
Condo only	112.70	124.00	145.40	140.20	274.50	189.50
Guests of friends and relatives	82.40	105.90	137.00	100.00	(NA)	115.00
Other	119.30	101.40	114.10	152.40	145.20	179.40
Previous visits:						
First trip	142.60	137.60	172.10	171.50	249.90	237.50
Repeat visitors	139.90	140.70	178.30	179.30	269.80	224.80
Purpose of trip:						
Pleasure	139.20	136.30	173.50	172.00	260.20	213.50
Business: meetings, conventions, incentive	162.90	173.10	178.70	248.50	208.50	302.60
On honeymoon:	175.30	190.50	218.00	206.40	334.10	294.10

NA Not available.

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.22-- ESTIMATED VISITOR EXPENDITURES: 1951 TO 1999

[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	1968	440	1985	4,780	302
1952	33	1969	550	1986	5,567	351
1953	43	1970	595	1987	6,281	395
1954	49	1971	705	1988	7,813	491
1955	55	1972	836	1989	8,371	534
1956	65	1973	1,017	1990	8,707	375
1957	78	1974	1,233	1991	9,004	814
1958	83	1975	1,355	1992	8,614	697
1959	109	1976	1,637	1993	7,808	664
1960	131	1977	1,834	1994	9,544	710
1961	137	1978	2,150	1995	10,067	1,040
1962	154	1979	2,541	1996	9,569	598
1963	186	1980	2,871	1997	10,102	389
1964	205	1981	3,195	1998	9,910	399
1965	225	1982	3,687	1999	9,844	436
1966	280	1983	3,847			
1967	380	1984	4,442			

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 State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.23-- VISITOR EXPENDITURES, BY COUNTRY OF RESIDENCE: 1990 TO 1999

[In thousands of dollars]

Year	Total expendi-tures	Personal (diary) expenditures					Additional business (MCI) expendi-tures
		All countries	United States	Japan	Canada	Other countries	
1990	9,082,130	8,706,772	5,041,774	2,572,284	306,867	785,847	375,358
1991	9,817,697	9,004,163	5,019,993	2,895,278	334,673	754,219	813,534
1992	9,310,860	8,613,581	3,969,014	3,349,276	276,632	1,018,660	697,279
1993	8,472,267	7,808,307	3,655,465	3,151,487	252,868	748,487	663,960
1994	10,253,911	9,544,014	4,504,806	3,768,143	349,484	921,581	709,897
1995	11,107,203	10,067,050	4,449,797	4,370,717	363,914	882,622	1,040,153
1996	10,166,844	9,568,828	4,651,449	3,531,913	351,511	1,033,954	598,016
1997	10,490,965	10,102,123	5,290,584	3,402,139	382,771	1,026,628	388,842
1998	10,309,191	9,910,271	5,327,957	2,932,547	346,211	1,303,556	398,919
1999	10,279,675	9,843,993	5,776,260	2,359,243	479,568	1,228,923	435,681

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.24-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES: 1985 TO 1998

[In millions of dollars]

Year	Total	Visitors 1/	Overseas airlines 2/
1985	5,436.6	5,243.6	193.0
1986	6,296.1	6,103.8	192.3
1987	7,128.9	6,867.6	261.3
1988	8,813.8	8,528.1	285.7
1989	9,613.4	9,281.8	331.6
1990	10,109.2	9,738.6	370.6
1991	11,039.5	10,633.8	405.7
1992	10,020.1	9,558.9	461.2
1993	9,125.1	8,677.6	447.5
1994	11,035.7	10,603.2	432.5
1995	12,027.0	11,587.7	439.3
1996	11,126.6	10,684.8	441.8
1997	11,231.7	10,770.1	461.6
1998 3/	11,594.7	11,133.3	461.4

1/ Includes airline and ship crews' expenditures. Estimated by the Hawaii Visitors Bureau.
2/ Includes payroll, fuel taxes, and landing fees.
3/ Preliminary estimate, note that as of November 2000 all figures were in the process of revision.
Source: Hawaii State Department of Business, Economic Development & Tourism, *Hawaii's Economy, July 1999* , p. 6.

Table 7.25-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1985 TO 1998

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	6,262.6	3,952.0	752.7	181.6
1993	9,125.1	5,703.2	3,599.0	687.2	176.3
1994	11,035.7	6,897.3	4,352.6	826.4	176.4
1995	12,027.0	7,516.9	4,743.5	912.0	177.7
1996	11,126.6	6,954.1	4,388.4	870.0	179.6
1997	11,231.7	7,019.8	4,429.9	880.0	180.7
1998 3/	11,594.7	7,246.7	4,573.0	903.3	180.1

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.
2/ Direct and indirect.
3/ Preliminary estimate, note that as of November 2000 all figures were in the process of revision.
Source: Hawaii State Department of Business, Economic Development & Tourism, *Hawaii's Economy, July 1999,* p.6.

Table 7.26-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES: 1980 TO 1999

Year	Implicit price deflator 1/ (1992=100)	Average daily room rate 2/ (dollars)	1-way air fares (dollars)		Honolulu consumer price index 5/ (1982-84=100)		
			San Francisco-Hono-lulu 3/	Honolulu-Kahu-lui 4/	Eating out	Apparel, upkeep	All items
1980	57.0	47.28	211.08	41.00	81.0	89.8	83.0
1981	59.5	49.73	296.09	51.00	88.5	94.5	91.7
1982	63.9	51.78	328.10	48.00	95.5	98.4	97.2
1983	66.6	54.78	353.14	49.95	100.1	101.4	99.3
1984	69.1	59.25	353.14	49.95	104.5	100.2	103.5
1985	71.3	68.84	364.00	44.95	108.6	99.6	106.8
1986	73.0	73.20	364.00	46.95	111.4	99.8	109.4
1987	76.3	80.09	486.00	48.95	115.6	102.5	114.9
1988	80.3	87.94	494.00	48.95	121.0	106.8	121.7
1989	84.4	95.83	524.00	44.95	122.2	104.3	128.7
1990	89.8	102.10	560.00	54.95	128.0	107.0	138.1
1991	95.4	101.89	642.00	65.95	133.6	110.5	148.0
1992	100.0	105.59	400.00	69.95	137.8	114.2	155.1
1993	102.6	103.26	566.00	74.00	141.9	116.5	160.1
1994	105.2	105.46	566.00	74.00	146.4	118.7	164.5
1995	107.2	110.27	596.00	74.00	149.2	117.5	168.1
1996	108.8	127.95	530.00	85.00	150.8	118.5	170.7
1997	109.5	135.94	521.00	80.00	152.6	117.3	171.9
1998	109.3	140.80	521.00	88.00	153.3	112.2	171.5
1999	110.4	142.39	(NA)	94.75	158.3	105.4	173.3

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*, 1980-1998.

4/ Regular fare, including taxes, as of July 1, by Hawaiian Airlines. From chronology in *Data Book*, 1984-1998 and Hawaiian Airlines, records.

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

Source: See above footnotes.

Table 7.27-- RETURNING RESIDENTS AND AVERAGE NUMBER ABSENT, BY POINTS OF ORIGIN: 1992 TO 1999

Year	Number returning			Average number absent		
	Total	Domestic	Inter-national	Total	Domestic	Inter-national
1992	746,611	642,440	104,171	39,200	32,960	6,240
1993	832,592	716,100	116,492	52,487	44,890	7,597
1994	858,075	738,540	119,535	54,362	46,150	8,212
1995	878,599	755,970	122,629	55,856	47,864	7,992
1996	889,496	764,790	124,706	58,137	50,108	8,029
1997	925,812	796,650	129,162	40,898	35,467	5,431
1998	931,068	796,967	134,101	38,495	34,791	3,704
1999	939,622	805,318	134,304	42,297	36,339	5,958

Source: Hawaii State Department of Business, Economic Development and Tourism, Tourism Research Branch, *Annual Visitor Research Report* (annual) and records.

Table 7.28-- PASSPORTS ISSUED BY THE HONOLULU PASSPORT AGENCY: 1996 TO 1999

[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, the Republic of the Marshall Islands, and Taiwan (beginning in calender year 1997)]

Mailing address	1996	1997	1998	1999
Issued by Honolulu Office	65,404	66,607	66,472	67,046
Mailed to Hawaii addresses	43,243	43,790	43,490	44,786
Mailed outside the state	22,161	22,817	22,982	22,260

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

Table 7.29-- PERFORMING ARTS, FOR OAHU: 1998-1999 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	41	616	175,279
Diamond Head Theatre	6	98	41,225
Hawaii Pacific University (Hawaii Loa Campus)	4	38	4,350
Honolulu Theatre for Youth	8	327	120,882
Manoa Valley Theatre	6	120	15,404
U.S. Army Community Theatre	8	48	13,038
University of Hawaii at Manoa	15	83	21,605

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

Table 7.30-- SYMPHONY ORCHESTRA ACTIVITIES: 1986-1987 TO 1997-1998

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
1997-1998	80	48	79,605	5,044,888

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 7.31-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1997 TO 1999

[Calendar year data unless otherwise specified]

Island and cultural attraction	1997	1998	1999
OAHU			
Battleship Missouri Memorial	(NA)	(NA)	386,524
Bernice P. Bishop Museum 1/	493,866	477,609	483,055
Byodo-In Temple	128,596	117,343	(NA)
The Contemporary Museum 2/	34,276	34,830	33,508
Damien Museum and Archives	10,134	10,095	17,844
Diamond Head State Monument 3/	1,000,000	1,000,000	1,000,000
Foster Botanical Garden 4/	48,461	46,863	48,434
Fred Ohrt Water Museum 5/	4,236	3,821	(NA)
Halawa Shaft 6/	7,680	3,762	(NA)
Halawa Xeriscape Garden 1/	9,714	9,975	(NA)
Harold L. Lyon Arboretum	29,500	29,500	30,000
Hawaii Children's Discovery Center 7/	(NA)	(NA)	49,472
Hawaii Maritime Center	82,833	78,281	75,896
Hawaii Nature Center	46,591	(NA)	(NA)
Honolulu Academy of Arts	222,150	215,219	211,560
Honolulu Zoo	634,105	622,517	(NA)
Ho'omaluhia Botanical Garden	85,456	86,406	86,368
Iolani Palace State Monument 1/	70,365	71,083	70,355
Judiciary History Center	44,241	35,455	37,937
Mission Houses Museum	23,000	19,500	(NA)
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center)	117,223	107,153	112,709
Pacific Aerospace Museum	44,300	42,500	35,000
Polynesian Cultural Center	880,425	779,086	793,932
Puu o Mahuka Heiau State Monument 3/	20,000	20,000	20,000
Queen Emma Summer Palace	33,222	17,257	16,541
Royal Mausoleum State Monument 3/	115,000	115,000	115,000
Sea Life Park Hawaii	457,000	407,242	356,123
Senator Fong's Plantation and Gardens	100,058	105,242	106,675
Tropic Lightning Museum 8/	10,476	10,738	10,568
Ulu Po Heiau State Monument 3/	5,000	5,000	5,000
U.S. Army Museum, Ft. DeRussy 8/	124,083	125,428	106,877
U.S.S. Arizona Memorial	1,412,484	1,366,499	1,410,218
U.S.S. Bowfin Submarine Museum	162,296	164,333	184,471
University of Hawaii Art Gallery	50,000	50,000	50,000
Waikiki Aquarium 1/	336,849	346,668	339,000
Waimea Falls Park	371,848	284,628	240,759
Waipahu Cultural Garden Park	28,618	30,678	30,825

Continued on next page.

Table 7.31-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1997 TO 1999 - Con.

Island and cultural attraction	1997	1998	1999
HAWAII			
Astronaut Ellison S. Onizuka Space Center	18,468	17,631	19,132
Hawaii Tropical Botanical Garden	40,320	49,445	63,706
Greenwell Store Museum	7,000	7,050	1,106
Hawaii Volcanoes National Park 9/	2,977,956	2,653,330	(NA)
Hulihee Palace	25,061	25,499	25,340
Lyman House Memorial Museum 10/	15,744	19,128	20,212
Panaewa Rainforest Zoo	77,790	76,574	78,000
Parker Ranch Historic Homes	(NA)	13,618	16,720
Parker Ranch Visitor Center	16,665	18,074	(NA)
Volcano Art Center	94,000	102,500	101,000
Wailoa Center 1/	56,000	60,000	(NA)
MAUI			
Alexander & Baldwin Sugar Museum	27,748	27,832	36,528
Halekii-Pihana Heiaus State Monument 1/	10,150	(NA)	(NA)
Hana Cultural Center	15,210	15,760	16,117
Hawaii Nature Center	25,200	55,699	91,470
Iao Valley State Monument 1/	710,000	(NA)	(NA)
Kula Botanical Gardens	23,100	23,800	24,100
Lahaina Restoration Foundation	202,556	213,192	208,466
Baldwin Missionary Home Museum	50,180	56,703	57,837
Brig *Carthaginian*	62,688	57,673	51,329
Hale Pa'ahao (Old Lahaina Prison)	31,800	32,347	32,150
Hale Pa'i Printing House	10,578	4,020	5,950
Wo Hing Temple Museum	47,310	62,449	61,200
Maui Historical Society Bailey House Museum	14,000	14,000	14,352
Maui Ocean Center	(NA)	(NA)	(NA)
Maui Tropical Plantation	(NA)	(NA)	(NA)
Whale Center of the Pacific	436,246	426,132	345,144
KAUAI			
Grove Farm Homestead	3,417	3,428	3,098
Kauai Museum	25,000	30,000	35,000
Kilauea National Wildlife Refuge 11/	400,000	400,000	(NA)
Kokee Natural History Museum	119,384	111,810	120,336
National Tropical Botanical Garden	25,138	31,126	(NA)
Waioli Mission House 12/	-	735	1,157

Continued on next page.

Table 7.31-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1997 TO 1999 - Con.

Island and cultural attraction	1997	1998	1999
MOLOKAI			
Kalaupapa Settlement	9,589	11,658	10,068

NA Not available.

1/ Years ended June 30.

2/ The Contemporary Museum also manages the Honolulu Advertiser Gallery (1997 attendence--17,000, closed in 1998 and 1999) and the First Hawaii Center Gallery (1997 attendence--30,000, 1998 attendence 30,000, 1999 attendence--40,000).

3/ Years ended June 30. data for 1997-99 estimated, Diamond Head State Monument attendance does not reflect paying users since some park users currently drive into and out of Diamond Head Crater without stopping.

4/ Also Koko Head Crater Botanical Garden (1999 attendence--8,000) and Wahiawa Botanical Garden (1999 attendence--5,000)

5/ Years ended June 30. The Fred Ohrt Museam was unavailable for tours for two months in 1998.

6/ Years ended June 30. The Halawa Shaft was closed down from 8/7/97 to 2/5/98 for equipment maintenance.

7/ Closed May 1994 to 1998, formerly Hawaii Children's Museum.

8/ Fiscal year starts October 1 and ends September 30.

9/ Kilauea Visitor Center and Jagger Museum are included in the total attendance at Hawaii Volcanoes National Park.

10/ Reopened on March 3, 1997.

11/ data for 1997-98 estimated.

12/ Closed for repairs all of 1996 & 1997, re-opened June 1998.

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

Table 7.32-- 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 7.33-- NATIONAL PARKS: 1990 TO 1999

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
1998	247,349	235,885	11,464	6,274,424
1999	249,001	237,731	11,270	7,469,412
AREAS: 1999				
Hawaii Volcanoes National Park	207,643	207,643	-	2,771,899
Haleakala National Park	29,195	29,195	-	2,609,489
Pu'uhonua o Honaunau National Historical Park	182	182	-	435,810
Kaloko-Honokohau National Historical Park	1,161	616	545	47,328
Pu'ukohola Heiau National Historic Site	83	61	22	194,668
U.S.S. Arizona Memorial 2/	11	11	-	1,410,218
Kalaupapa National Historical Park 3/	10,726	23	10,703	(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.

3/ As of 1999 National Park Service is not yet keeping visitation figures.

Source: U.S. Department of the Interior, National Park Service, Pacific Island Support Office, records.

Table 7.34-- STATE PARKS AND HISTORIC SITES: 1989 TO 1999

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
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
1995	69	25,476	772.2	14,221
1996	68	26,784	772.2	14,221
1997	68	26,554	711.2	12,852
1998	68	26,814	771.2	12,676
1999	69	26,815	772.1	12,661
ISLANDS: 1997				
Hawaii	16	2,695	272.9	5,259
Maui	9	332	37.9	1,931
Molokai	1	234	10.0	36
Oahu	21	9,590	259.8	2,707
Kauai	9	13,703	130.6	2,919
ISLANDS: 1998				
Hawaii	16	2,695	272.9	4,521
Maui	9	332	37.9	1,885
Molokai	1	234	10.0	36
Oahu	21	9,590	259.8	3,388
Kauai	9	13,703	130.6	2,846
ISLANDS: 1999				
Hawaii	16	2,695	272.9	4,521
Maui	9	332	37.9	1,885
Molokai	1	234	10.0	36
Oahu	21	9,590	259.8	3,388
Kauai	10	13,704	131.5	2,831

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 7.35-- MAJOR STATE PARKS: 1998 AND 1999

[Parks having at least 500,000 recreation visits or 1,000 acres]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1998			
Old Kona Airport State Rec. Area	103.7	20.0	1,300
Hapuna Beach State Rec. Area	63.6	21.0	1,146
Wailua River State Park	1,093.0	37.4	1,144
Haena State Park	65.9	2.0	663
Wailoa River State Recreation Area	131.9	97.0	589
Na Pali Coast State Park	6,175.0	4.0	80
Kahana Valley State Park	5,256.5	26.0	88
Kokee State Park	4,345.0	55.0	304
Waimea Canyon State Park	1,866.4	10.0	345
Sacred Falls State Park	1,375.9	10.0	125
1999			
Old Kona Airport State Rec. Area	103.7	20.0	1300
Hapuna Beach State Rec. Area	63.6	21.0	1146
Wailua River State Park	1,093.0	37.4	1144
Diamond Head State Monument 1/	493.4	8.0	1000
Haena State Park	65.7	2.0	648
Wailoa River State Recreation Area	131.9	97.0	589
Na Pali Coast State Park	6,175.0	4.0	80
Kahana Valley State Park	5,256.5	26.0	88
Kokee State Park	4,345.0	55.0	304
Waimea Canyon State Park	1,866.4	10.0	345
Kekaha Kai State Park	1,642.0	40.0	127
Sacred Falls State Park 2/	1,375.9	10.0	42

1/ Diamond Head State Monument attendance does not reflect paying users since some park users currently drive into and out of Diamond Head Crater without stopping.

2/ Park closed since May 1999.

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

Table 7.36-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS: 1998 AND 1999

[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/
1998					
State total	642	279	110	217	36
Hawaii	123	55	23	40	5
Maui	63	37	4	21	1
Kahoolawe	1	-	1	-	-
Lanai	2	-	-	2	-
Molokai	93	41	10	40	2
Oahu	279	109	68	79	23
Kauai	81	37	4	35	5
1999					
State total	652	288	110	218	36
Hawaii	125	56	23	41	5
Maui	63	37	4	21	1
Kahoolawe	1	-	1	-	-
Lanai	2	-	-	2	-
Molokai	93	41	10	40	2
Oahu	287	117	68	79	23
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 7.37-- ZOOS: 1996 TO 1999

Subject and Zoo	1996	1997	1998	1999
Species: 1/				
Honolulu Zoo	300	314	304	(NA)
Panaewa Rainforest Zoo (Hilo)	59	65	70	65
Individuals: 1/				
Honolulu Zoo	1,311	1,364	1,335	(NA)
Panaewa Rainforest Zoo (Hilo)	191	196	200	185
Attendance:				
Honolulu Zoo	639,754	634,105	622,517	(NA)
Panaewa Rainforest Zoo (Hilo)	73,400	77,790	76,574	78,000

NA Not available.

1/ Animal and bird inventory, December 31.

Source: Data obtained by Hawaii State Department of Business, Economic Development & Tourism from the County of Hawaii and the Honolulu Zoo records.

Table 7.38-- AQUATIC COLLECTIONS: 1999

[For annual attendance, see table 7.31]

Phylum or class	Sea Life Park, June 30,1999		Waikiki Aquarium, June 30, 1999	
	Species	Individuals	Species	Individuals
Total	206	4,958	426	2,523
Fishes	94	804	195	559
Reptiles	2	31	2	3
Mammals	1/ 6	1/ 71	1	3
Invertebrates	95	4,000	228	1,958
Birds	9	52	-	-

1/ Plus 2 hybrid dolphin/whales.
Source: Sea Life Park, records; Waikiki Aquarium, records.

Table 7.39-- COUNTY PARKS, BY ISLANDS: 1997 TO 1999

[As of December 31]

Island	Number			Acreage		
	1997	1998	1999	1997	1998	1999
State totals	(NA)	(NA)	(NA)	6,580	6,768	(NA)
Hawaii	135	135	135	1,361	1,361	1,377
Maui	113	115	115	935	1,054	1,054
Lanai	4	4	4	15	15	15
Molokai	13	13	13	73	73	73
Oahu 1/	(NA)	(NA)	(NA)	3,793	3,862	7,030
Kauai	64	64	(NA)	403	403	(NA)

1/ 1997-1999 numbers exclude Botanical Gardens, Zoo & Golf Courses.

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

Table 7.40-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1999

Beach park	Estimated attendance 1/	Rescues	Drownings	Surfing accidents
All parks	16,944,487	810	4	385
Ala Moana	1,451,829	47	1	14
Alii/Haleiwa	326,817	24	-	6
Bellows	145,834	5	-	2
Ehukai	445,098	56	1	39
Hanauma	2,307,994	141	2	-
Kailua	461,377	2	-	-
Keauwaula	133,833	9	-	17
Ke Waena	299,051	5	-	9
Kualoa	152,911	2	-	1
Maili	340,395	21	-	13
Makaha	389,145	26	-	12
Makapuu	208,383	55	-	10
Nanakuli	303,058	5	-	2
Pokai Bay	408,191	9	-	-
Sandy	515,570	135	-	46
Sunset	691,227	37	-	5
Waikiki	7,409,535	128	-	200
Waimanalo	249,318	6	-	3
Waimea	704,921	97	-	15

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, Emergency Services Department, Ocean Safety & Lifeguard Services Division, records.

Table 7.41-- 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 7.42-- COUNTY TENNIS FACILITIES: 1997 TO 1999

[As of December 31]

Subject	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Locations:							
1997	(NA)	20	11	1	1	(NA)	9
1998	(NA)	20	11	1	1	(NA)	9
1999	(NA)	20	12	1	1	45	(NA)
Courts:							
1997	307	45	39	2	2	197	22
1998	311	45	39	2	2	201	22
1999	(NA)	45	41	2	2	179	(NA)

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

Table 7.43-- GOLF COURSES, BY NUMBER OF HOLES, OWNERSHIP, AND ISLANDS: 2000

Status, island, and ownership	Number of golf courses						Number of holes
	Total	9-hole	18-hole	27-hole	36-hole	54-hole	
State total	77	10	56	2	5	2	1,494
Hawaii	17	2	13	-	2	-	324
Municipal	1	-	1	-	-	-	18
Private	16	2	12	-	2	-	306
Maui	10	1	5	-	2	2	279
Municipal	1	-	1	-	-	-	18
Private	9	1	4	-	2	2	261
Lanai	3	1	2	-	-	-	45
Private	3	1	2	-	-	-	45
Molokai	2	1	1	-	-	-	27
Private	2	1	1	-	-	-	27
Oahu	36	3	29	3	1	-	666
Military	7	1	5	1	-	-	126
Municipal	6	1	5	-	-	-	99
Private	23	1	19	2	1	-	441
Kauai	9	2	6	1	-	-	153
Municipal	1	-	1	-	-	-	18
Private	8	2	5	1	-	-	135

Source: *The Honolulu Advertiser* , July 6, 2000.

Table 7.44-- 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 7.45-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1991 TO 1999

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
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
1997	6	99	686,188	15,804
1998	6	99	747,379	16,929
1999	(NA)	(NA)	(NA)	16,884

NA Not available.

1/ By the City and County of Honolulu, camping permits issued reflect cumulative family and group camping permits.

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

Table 7.46-- SONY OPEN SCORES AND PURSES: 1992 TO 2000

[The Sony Open (Formerly the Hawaiian Open) is held at the Waialae Country Club golf course. Distance is 7,060 yards; par is 70/280]

Year	Holes	Winning score		Purse (dollars)	
		Total	Below par	Total	Winner
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
1999	72	271	9	2,600,000	468,000
2000	72	261	19	2,900,000	522,000

Note: Up until 1998, event known as the Hawaiian Open, which was held at the Waialae Country Club golf course. Distance was 6,975 yards; par was 72/288.

Source: *Honolulu Star-Bulletin,* various issues.

Table 7.47-- 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 7.48-- FISHING AND HUNTING LICENSES ISSUED: 1994 TO 1999

[Years ended June 30]

Type of license	1994	1995	1996	1997	1998	1999
Freshwater fishing	9,612	7,740	6,557	6,505	6,876	5,937
Hunting	11,073	10,863	10,969	9,888	10,061	12,783

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources and Division of Forestry and Wildlife, records.

Table 7.49-- 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 7.50-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1992 TO 1999

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
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
1998	27,704	22,112	2:14:53	2:33:27
1999	26,724	21,211	2:16:45	2:32:36

NA Not available.

Source: Honolulu Marathon Association, records; Honolulu Marathon Records & Statistics, at http://www.honolulumarathon.org/stats.html

Table 7.51-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP PARTICIPANTS, FINISHERS, AND WINNING TIMES: 1992 TO 1999

Year	Number of participants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
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
1998	1,487	1,379	8:24:20	9:24:16
1999	1,463	1,411	8:17:17	9:13:02

Source: Ironman Triathlon World Championship, records; 1995-1998 race results from JTL Timing Systems Hawaii at "http://www.ironmantri.com" and "http://www.ironmanlive.com" Internet Website.

Table 7.52-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND WINNING TIMES: 1985 TO 1999

[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
1999	33	8:02:52:27	7:08:40:10

Source: Transpac 99' website, http://www.transpacificyc.org, *The Honolulu Advertiser* , July 19, 1999.

Table 7.53-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES: 1994-1995 TO 1999-2000 SEASONS

Bowl	1994-1995	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000
Aloha Bowl 1/	20,092	20,780	19,467	34,419	34,803	40,974
Hula Bowl 2/	17,074	14,933	14,725	20,079	23,719	23,719
Pro Bowl	45,828	47,066	47,205	49,995	50,075	50,112

1/ From the 1998-99, the Aloha Bowl is played in conjunction with the Oahu Bowl, attendence numbers reflect total attendence during both games.

2/ The Hula Bowl has been played at Maui's War Memorial Stadium from the 1997-98 season.

Source: Aloha Stadium and Rivals.com Hula Bowl, records; *Honolulu Star-Bulletin* , various issues.

Table 7.54-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF HAWAII AT MANOA: 1996-1997 TO 1998-1999

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

Sports	Games played 1/				Home games	
	Total	Won	Lost	Tied	Home dates	Attendance
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
1997-1998:						
Baseball	56	34	22	-	39	98,436
Basketball (men's)	30	21	9	-	22	211,520
Basketball (women's)	28	24	4	-	18	38,201
Football	12	3	9	-	8	267,528
Volleyball (men's)	29	23	6	-	19	135,180
Volleyball (women's)	33	25	8	-	19	129,622
1998-1999:						
Baseball	57	37	20	-	36	98,668
Basketball (men's)	26	6	20	-	18	149,351
Basketball (women's)	37	17	10	-	20	40,399
Football	12	0	12	-	9	234,821
Volleyball (men's)	29	19	10	-	18	112,054
Volleyball (women's)	35	32	3	-	26	144,476

1/ Volleyball data refer to matches.

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

Table 7.55-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS: 1996-1997 AND 1997-1998 SEASONS

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
1996-1997: 3/				
Baseball	Boys	351	17,430	53,200
Basketball	Boys and girls	946	116,237	144,700
Football	Boys	282	190,412	120,575
1997-1998:				
Baseball	Boys	374	18,380	54,850
Basketball	Boys and girls	945	123,650	146,945
Football	Boys	289	210,425	129,800

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 Accountability and School Instructional Support, records.

Table 7.56-- PROFESSIONAL BOXING: 1993 TO 1999

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
1998	2	3	2,059	52,510
1999	1	1	479	10,120

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

Table 7.57-- DOG LICENSES ISSUED, BY ISLANDS: 1993 TO 1999

[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
1998	28,304	5,777	649	35	83	19,520	2,240
1999	28,205	6,311	581	29	84	19,999	1,201

1/ Beginning in January 1995, the number of registrations issued by the animal shelter were not included in the count. Therefore, the figures for 1995-1999 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, 1995-1999).

Section 8: Elections

Section Narrative		
8.01	Popularly Elected Officials of State and Local Governments: 1967 to 1992	
8.02	Population of Voting Age and Percent Voting: 1990 to 2000	
8.03	Reported Voting and Registration, by Sex: November 1998	
8.04	Registered Voters and Votes Cast in Primary and General Elections, by Counties: 1998	
8.05	Registered Voters and Votes Cast in Primary and General Elections: 1976 to 1998	
8.06	Votes Cast for Candidates for Major Offices: Primary Election, September 19, 1998	
8.07	Votes Cast by Party Ballot in Primary Elections: 1988 to 1998	
8.08	Votes cast by Party Ballot in Primary Election, by Counties: September 19, 1998	
8.09	Number of Precincts, Registered Voters, and Votes Cast, by Islands: November 3, 1998	
8.10	Age and Sex of Registered Voters: November 3, 1998	
8.11	Votes Cast for Major Offices: General Elections, 1986 to 1998	
8.12	Votes Cast for Major Offices, by Counties: General Election, November 3, 1998	
8.13	Registered Voters and Votes Cast for the Board of Trustees of the Office of Hawaiian Affairs, by Counties: November 3, 1998	
8.14	Campaign Expenditures: 1998 Elections	
8.15	Neighborhood Board Elections, for Oahu: 1989 to 1999	
8.16	Party Membership of the State Legislature: 1987 to 1999	
8.17	Party Membership of County Councils: 1997 and 1999	
8.18	Length of Legislative Sessions: 1991 to 1999	
8.19	Legislative Bills and Resolutions, by Disposition: 1996 to 1999	

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: 1999*, 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: 1990 TO 2000

Subject	1990	1992	1994	1996	1998	2000
Persons of voting age 1/ (1,000)	841	861	875	886	902	909
Casting votes 2/ (1,000)	453	464	489	545	601	(NA)
Percent	53.9	53.9	55.9	61.5	66.6	(NA)

NA Not available.

1/ Resident population 18 years and over, including Armed Forces stationed in Hawaii, aliens, and institutional population. November estimates.

2/ General elections.

Source: *Statistical Abstract of the United States*: *1999*, p. 302; U.S. Census Bureau, *Table 3. Estimates and Projections of the Voting-Age Population, 1992 to 2000, and Percent Casting Votes for President, by State: November 1992 and 1996* (July 31, 2000) at http://www.census.gov/population/socdemo/voting/proj00/tab03.txt; *Data Book 1998*, p. 253.

Table 8.03-- REPORTED VOTING AND REGISTRATION, BY SEX: NOVEMBER 1998

[Civilian noninstitutional population of voting age]

Sex	All persons (1,000)	Total registered		Total voted	
		Number (1,000)	Percent	Number (1,000)	Percent
Both sexes	855	463	1/ 54.1	411	2/ 48.1
Male	396	222	56.2	202	50.9
Female	459	240	52.4	210	45.7

1/ The U.S. percentage was 62.1. Hawaii ranked 47th among the 50 States, with the largest number ranking 1.

2/ The U.S. percentage was 41.9. Hawaii ranked 15th among the 50 States, with the largest number ranking 1.

Source: U.S. Census Bureau, *Reported Voting and Registration, by Sex, Race, and Hispanic Origin, for States: November 1998* at http://www.census.gov/population/socdemo/voting/cps1998/tab04.txt.

Table 8.04-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1998

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total	582,558	282,773	299,785	291,069	50.0
Hawaii	75,205	36,068	39,137	38,988	51.8
Maui	64,333	31,513	32,820	30,495	47.4
Honolulu	411,071	199,676	211,395	201,583	49.0
Kauai	31,949	15,516	16,433	20,003	62.6
Overseas	-	-	-	-	-
GENERAL ELECTION					
State total	601,404	292,307	309,097	412,520	68.6
Hawaii	77,726	37,349	40,377	53,658	69.0
Maui	66,740	32,741	33,999	43,382	65.0
Honolulu	423,875	206,104	217,771	291,114	68.7
Kauai	33,063	16,113	16,950	24,366	73.7
Overseas	-	-	-	-	-

Source: Hawaii State Office of Elections, records.

Table 8.05-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS: 1976 TO 1998

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	70.6
1988: Sept. 17 1/	419,441	199,440	220,001	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	251,576	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
1998: Sept. 19	582,558	282,773	299,785	291,069	50.0
GENERAL ELECTIONS:					
1976: Nov. 2	363,045	180,265	182,780	309,089	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	78.9
1982: Nov. 2	405,005	195,259	209,746	325,459	80.3
1984: Nov. 6	418,904	200,424	218,480	349,253	83.3
1986: Nov. 4	419,794	200,233	219,561	344,387	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
1998: Nov. 3	601,404	292,307	309,097	412,520	68.6

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

Source: Hawaii State 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 19, 1998

Office, party, and candidate	Votes
U.S. SENATE	
Democrat:	
Inouye, D.	108,891
Thompson, R.	8,468
Republican:	
Young, C.	26,920
Friedheim, J.	18,969
Douglass, E.	10,417
Deluze, J.	8,995
Sink, W.	7,519
Amen, R.	7,476
Gregory S.	6,368
Friel, H.	5,358
Manner, P.	3,703
Libertarian:	
Mallan, L.	300
Nonpartisan:	
Brown, J.	133
U.S. HOUSE, DISTRICT 1	
Democrat:	
Abercrombie, N.	40,492
Kaan, A.	2,089
Canopin, A.	1,783
Republican:	
Ward, G.	54,844
Natural Law:	
Bedworth, N.	35
U.S. HOUSE, DISTRICT 2	
Democrat:	
Mink, P.	61,382
Bourgoin, D.	7,106
Republican:	
Douglass, C.	19,575
O'Leary, P.	15,289
White, T.	9,640
Libertarian:	
Chun, N.	182
GOVERNOR	
Democrat:	
Cayetano, B.	95,797
Brewer, J.	6,169
Ho, R.	3,024
Tamura, F.	2,740
Onaga, R.	1,651
Shiratori, M.	1,499
Republican:	
Lingle, L.	109,061
Fasi, F.	48,488
Libertarian:	
Peabody, G.	300
Nonpartisan:	
Hitchcock, L.	79
Mattes, P.	38
Najibi, M.	26

Continued on next page.

Table 8.06-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 19, 1998 -- Con.

Office, party, and candidate	Votes	Office, party, and candidate	Votes
LT. GOVERNOR		COUNTY OF MAUI MAYOR	
Democrat:		Democrat:	
Hirono, M.	99,490	Apana, J.	7,882
Cook, N.	12,154	Lee, A.	7,792
		Lindsey, E.	1,255
Republican:		Cannon, T.	726
Koki, S.	69,546		
Liu, M.	56,937	Republican:	
Dudley, K.	13,880	Arakawa, A.	7,699
Lessary, J.	3,861	Downing, M.	2,045
Libertarian:		COUNTY OF KAUAI MAYOR	
Bartley, L.	301		
		Kusaka, M.	8,721
		Thronas, M.	5,044
		Asing, B.	4,869
		Field-Grace, S.	260
		Goodwin, G.	80

Source: Hawaii State Office of Elections, *1998 Primary and Special Election Statewide Summary Reports.*

Table 8.07-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTIONS: 1988 TO 1998

Year	Total votes cast	Democratic	Republican	Other parties	Nonpartisan	Invalid or blank
1988	1/ 275,673	1/ 221,340	1/ 50,924	563	1,340	1/ 1,180
1990	1/ 276,407	1/ 221,839	1/ 48,563	1/ 963	1/ 3,847	1/ 1,195
1992	251,576	194,945	49,379	4,290	1,815	1,147
1994	309,700	212,270	58,316	1/ 35,355	2,045	1,714
1996	1/ 275,548	1/ 213,512	1/ 54,644	1/ 3,273	1/ 2,443	1/ 1,676
1998	291,069	122,977	159,126	752	197	8,017

1/ Revised.

Source: Hawaii State Office of Elections, *Results of Votes Cast, Primary Elections,* and records.

Table 8.08-- VOTES CAST BY PARTY BALLOT IN PRIMARY ELECTION, BY COUNTIES: SEPTEMBER 19, 1998

Party	State total	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
Total votes cast	291,069	38,988	30,495	201,583	20,003
Democratic	122,977	19,548	18,432	72,812	12,185
Hawaii Green	378	206	36	109	27
Libertarian	339	62	23	223	31
Natural Law	35	0	0	35	0
Republican	159,126	18,289	11,230	122,806	6,801
Nonpartisan	197	64	18	105	10
Invalid	8,017	819	756	5,493	949

Source: Hawaii State Office of Elections, *Results of Votes Cast, Primary Election 1998,* and records.

Table 8.09-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES CAST, BY ISLANDS: NOVEMBER 3, 1998

Island	Number of precincts	Registered voters	Votes cast	Percent voting
State total	334	601,404	412,520	68.6
Hawaii	59	77,726	53,658	69.0
Maui	36	61,310	39,632	64.6
Lanai	1	1,509	1,016	67.3
Molokai: Molokai District	4	3,847	2,672	69.5
Kalawao District	1	74	62	83.8
Oahu 1/	213	423,875	291,114	68.7
Kauai	19	32,957	24,298	73.7
Niihau	1	106	68	64.2

1/ Includes the Northwestern Hawaiian Islands as part of the 51st Representative District. Includes count of overseas ballots.

Source: Hawaii State Office of Elections, records.

Table 8.10-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 3, 1998

Age	Both sexes	Male	Female
All ages	601,404	292,307	309,097
18 or 19 years	10,921	5,135	5,786
20 to 29 years	94,812	45,451	49,361
30 to 39 years	119,062	57,797	61,265
40 to 49 years	132,849	65,046	67,803
50 to 64 years	130,650	64,331	66,319
65 years and over	113,103	54,547	58,556
Not reported	7	-	7

Source: Hawaii State Office of Elections, records.

Table 8.11-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1986 TO 1998

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	356,902	Akaka, D.	256,189	Hustace, M.	86,320	14,393
1998	398,124	Inouye, D.	315,252	Young, C.	70,964	11,908
U.S. REPRE-SENTATIVE, 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
1998	189,571	Abercrombie, N.	116,693	Ward, G.	68,905	3,973
U.S. REPRE-SENTATIVE, 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
1998	207,871	Mink, P.	144,254	Douglass, C.	50,423	13,194

Continued on next page.

Table 8.11-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1986 TO 1998 -- 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/)
1998	407,556	Cayetano, B.	204,206	Lingle, L.	198,952	4,398
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 *Data Book 1987*, table 280.

4/ The total for other parties, 126,127, included 113,158 for F. Fasi (Best) and 12,969 for K. Dudley (Green).

5/ In 1994, Mayor Fasi resigned to run for governor, creating the need for a special election to choose his 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 blank votes. J. Harris, the winner, received 67,670 votes.

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: Hawaii State Office of Elections, *Results of Votes Cast, General Elections,* and records.

Table 8.12-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES: GENERAL ELECTION, NOVEMBER 3, 1998

Office, candidate and party 1/	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
U.S. SENATE				
Inouye, D (D)	38,844	32,326	224,619	19,463
Young, C. (R)	10,840	8,086	48,941	3,097
Mallan, L. (L)	2,223	1,261	7,831	593
U.S. HOUSE, DISTRICT 1				
Abercrombie, N (D)	-	-	116,693	-
Ward, G. (R)	-	-	68,905	-
Bedworth, N. (NL)	-	-	3,973	-
U.S. HOUSE, DISTRICT 2				
Mink, P. (D)	34,832	29,851	62,868	16,703
Douglass, C. (R)	13,400	9,542	23,847	3,634
Chun, N. (L)	3,129	2,044	5,695	2,326
GOVERNOR/LT. GOVERNOR				
Cayetano/Hirono (D)	23,826	20,777	145,839	13,764
Lingle/Koki (R)	28,326	21,390	139,171	10,065
Peabody/Bartley (L)	848	572	2,849	129
COUNTY OF MAUI MAYOR				
Apana, J. (D)	-	22,350	-	-
Arakawa, A. (R)	-	20,101	-	-
COUNTY OF KAUAI MAYOR				
Kusaka, M.	-	-	-	14,115
Thronas, M.	-	-	-	9,564

1/ D, Democrat; L, Libertarian; NL, Natural Law; R, Republican.
Source: Hawaii State Office of Elections, *1998 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 3, 1998

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total	100,163	46,566	53,597	64,806	64.7
Hawaii	15,674	7,074	8,600	10,084	64.3
Maui	12,428	5,909	6,519	7,628	61.4
Honolulu	66,670	31,010	35,660	43,233	64.8
Kauai	5,391	2,573	2,818	3,861	71.6

Source: Hawaii State Office of Elections, records.

Table 8.14-- CAMPAIGN EXPENDITURES: 1998 ELECTIONS

[Dollars. Table excludes national races.]

Election and office	All candidates (dollars)	Number of Candidates	Open Seats
Total	19,995,083.91	401	113
Election:			
Primary	9,714,834.77	363	-
General	5,683,305.02	256	-
Supplemental	4,325,026.10	(NA)	-
Office:			
Governor	8,616,620.07	12	1
Lt. Governor	1,715,197.18	7	1
State Senator	2,432,177.06	44	13
State Representative	2,789,214.53	155	51
Mayor (Maui)	627,445.17	6	1
Mayor (Kauai)	415,393.58	5	1
Council (Honolulu)	1,887,788.98	19	9
Council (Hawaii)	352,430.49	29	9
Council (Maui)	586,680.57	42	9
Council (Kauai)	300,218.26	21	7
Board of Education	29,953.31	23	6
Office of Hawaiian Affairs	241,964.70	38	5

NA Not available.
Source: Hawaii State Campaign Spending Commission, records.

Table 8.15-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU: 1989 TO 1999

Year	Number of boards		Board seats elected	Ballots mailed	Voters (ballots cast)
	In operation, Dec. 31	Holding elections			
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
1999	32	32	408	299,799	82,574

Source: City and County of Honolulu, Neighborhood Commission records; *Honolulu Advertiser*, May 3, 1999, p. B3.

Table 8.16-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1987 TO 1999

Regular session	House of Representatives				Senate			
	Total	Demo-crats	Repub-licans	Other	Total	Demo-crats	Repub-licans	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	-
1999	51	39	12	-	25	23	2	-

Source: Hawaii State Office of Elections, records; *Hawaii State Legislature Members of the Senate* at http://www.capitol.hawaii.gov/site1/senate/members/members.asp?press1=senate&press2=members and *Hawaii State Legislature Members of the House* at http://www.capitol.hawaii.gov/site1/house/members/members.asp?press1=house&press2=members.

Table 8.17-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1997 AND 1999

[As of January]

County	Total seats	Democrats		Republicans		Hawaii Green		Nonpartisan	
		1997	1999	1997	1999	1997	1999	1997	1999
All counties	34	16	13	9	4	-	1	9	16
Hawaii	9	5	6	4	2	-	1	-	-
Maui	9	6	7	3	2	-	-	-	-
Honolulu	9	-	-	-	-	-	-	9	9
Kauai	7	5	-	2	-	-	-	-	7

Source: Hawaii State Office of Elections, records.

Table 8.18-- LENGTH OF LEGISLATIVE SESSIONS: 1991 TO 1999

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	None	-
1998	Jan. 21	4/ 114	None	-
1999	Jan. 20	105	None	-

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 September 20.

3/ Combined length for First Special Session (5 days) and Second Special Session (2 days).

4/ Session extended by Governor Cayetano from May 7 to May 14, 1998.

Source: Hawaii State Legislative Reference Bureau, records.

Table 8.19-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1996 TO 1999

Action	Session			
	1996 Regular	1997 Regular	1998 Regular	1999 Regular
House bills:				
Carried over from previous year	2,179	-	2,087	-
Introduced	1,793	2,329	1,296	1,755
Passed 1/	200	242	182	199
Vetoed	17	6	9	24
Became law 2/	182	235	173	175
Senate bills:				
Carried over from previous year	1,799	-	1,801	-
Introduced	1,271	1,958	1,258	1,642
Passed 1/	145	157	152	150
Vetoed	10	8	14	19
Became law 3/	133	148	138	131
House resolutions:				
Offered	337	242	90	257
Adopted	112	117	54	107
House concurrent resolutions:				
Offered	345	290	251	262
Adopted	29	37	62	32
Senate resolutions:				
Offered	238	150	115	107
Adopted	71	32	33	49
Senate concurrent resolutions:				
Offered	289	279	216	225
Adopted	23	25	39	37

1/ Includes bills for constitutional amendments: H.B. 4142, S.B. 2211, and S.B. 3091 in 1996; H.B 117 and S.B. 209 in 1997.

2/ The 1996 total includes H.B. 2800, which includes a vetoed item. The 1997 total includes H.B. 118 which became law without the Governor's signature. The 1998 total includes H.B. 2552 which became law without the Governor's signature. The 1999 total includes H.B. 100, which contains vetoed items.

3/ The 1996 total includes S.B. 659, which became law without the Governor's signature. The 1999 total includes S.B. 1325 which became law without the Governor's signature and S.B. 1518, which contains vetoed items.

Source: Hawaii State Legislative Reference Bureau, records.

Section 9: Government Finances and Employment

Section Narrative	
9.01	Federal, State, and County Tax Collections: 1980 to 1998
9.02	Federal Tax Collections, by Source: 1994 to 1998
9.03	State and County Tax Collections, by Source: 1995 to 1998
9.04	Estimated State and Local Taxes Paid by a Family of Four, for Honolulu and the Median and Average of 51 Major Cities: 1997 and 1998
9.05	Total Taxes for a Family of Four in a Selected City in Each of the 50 States and Washington D.C.
9.06	Estimated Tax Freedom Day for the United States, Each of the 50 States and Washington, D.C.: 2000
9.07	Hawaii State Government Finances: 1996-98
9.08	Hawaii State Government Finances: 1998
9.09	State Government Revenues: 1997 and 1998
9.10	State Government Operating Expenditures, by Function: 1996 to 1998
9.11	County Government Operating Revenues, by Source: 1997
9.12	County Government Operating Revenues, By Source: 1998
9.13	County Government Operating Expenditures, by Object: 1997
9.14	County Government Operating Expenditures, by Object: 1998
9.15	Number of Exemptions and Adjusted Gross Income Reported on Individual Federal Income Tax Returns: Tax Years 1980 to 1998
9.16	Adjusted Gross Income and Income Tax, by Size of Adjusted Gross Income, for Individual Federal Income Tax Returns: Tax Years 1997 and 1998
9.17	Characteristics of Individual Federal Income Tax Returns: Tax Years 1997 and 1998
9.18	Internal Revenue Service Operations: 1994 to 1998
9.19	Resident Individual State Income Tax Returns: Tax Years 1982 to 1998
9.20	Sources of Income Reported by Elderly and All Other Resident Taxpayers: Tax Year 1997

9.21	Sources of Income Reported by Elderly and All Other Resident Taxpayers: Tax Year 1998		
9.22	State Income Tax Resident Returns on Income Received During 1997, by Adjusted Gross Income Class		
9.23	State Income Tax Resident Returns on Income Received During 1998, By Adjusted Gross Income Class		
9.24	Median Adjusted Gross Income of Resident State Income Tax Returns, by Type of Return, 1982 to 1998, and by Counties, 1997 and 1998		
9.25	Tax Credits Claimed by Individuals and Corporations: 1998		
9.26	General Excise and Use Tax Base and Collections: 1998 and 1999		
9.27	Tobacco Tax Base, Rate, and Collections: 1994 to 1999		
9.28	Liquor Tax Collections: 1990 to 1999		
9.29	Real Property Tax Valuations: Annually, 1986 to 2001		
9.30	Real Property Tax Valuations for the State, 1997 to 2001, and by County, 2000 and 2001		
9.31	Real Property Tax Exemptions for the State, by Type: Tax Years 2000 and 2001		
9.32	Real Property Tax Valuations, by Land Use Classes: Fiscal Years 1999-2000 and 2000-2001		
9.33	Major Real Property Taxpayers, for the City and County of Honolulu: Fiscal Year 1999-2000		
9.34	Residential Property Tax Rates in Honolulu and the Median of 51 Major Cities: 1985 to 1998		
9.35	Real Property Tax Rates, by Counties: 2000 and 2001		
9.36	Federal Expenditures in Hawaii: 1986 to 1999		
9.37	Federal Expenditures in Hawaii, by Source, By Type: 1994 to 1999		
9.38	Per Capita Direct Federal Expenditures in the United States and Hawaii, by Types: 1999		
9.39	Direct Federal Expenditures or Obligations in Hawaii, by Counties: 1999		
9.40	Adjusted Federal Expenditures per Dollar of Taxes, by State: Fiscal Years 1989 and 1999		
9.41	Public Bonded Debt of State and County Governments: 1985 to 1999		
9.42	State General Obligation Bond Debt: 1990 to 1999		

9.43	Government Workers, by Level of Government, Civil Service Status, and Membership in State Retirement System: 1940 to 1999		
9.44	State and Local Government Employment and Payrolls, by Function: March 1998		
9.45	State and Local Government Employment and Payrolls, by Function: March 1999		
9.46	State Government Employment and Payrolls, by Function, March 1998		
9.47	State Government Employment and Payrolls, by Function, March 1999		
9.48	Local Government Employment and Payrolls, By Function: March 1998		
9.49	Local Government Employment and Payrolls, By Function: March 1999		
9.50	Full-Time Equivalent Civil Service and Exempt Employment, by Department, in the Hawaii State Executive Branch: 1994 to 1999		
9.51	Employment, by Type, in the Hawaii State Executive Branch: as of December 31, 1999		
9.52	Public Employees Included in Collective Bargaining Units: 1999		
9.53	Salaries of Selected Government Officials: 1995 to 2000		

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. Additional information appears in Sections 10 and 12.

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 Department of Accounting and General Services, Hawaii State Department of Budget and Finance, Hawaii State Department of Taxation, 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: 1999*, Sections 9 and 10.

Table 9.01-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1980 TO 1998

[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	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	8,571,030	4,573,256	3,997,774	3,257,099	740,675
1997	(NA)	1/ (NA)	4,040,110	3,301,030	739,081
1998	8,748,424	4,690,970	4,057,454	3,324,827	732,627

NA Not available.

1/ IRS *Data Book 1997* contains data for the Pacific-Northwest of which Hawaii is a part. No Hawaii detail.

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual) and unpublished compilations of Hawaii State Department of Accounting and General Services, Annual Report of the Comptroller (annual) and of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports); and U.S. Department of the Treasury, Internal Revenue Service, *Annual Report of the Commissioner* (annual), and *Data Book, 1993-94, 1995*, for 1996 <http://www.irs.ustreas.gov/tax_stats/96CR 3CL.exe>; for 1997 <http://www.irs.ustreas.gov/tax_stats/97CR 3CL.exe> and for 1998 IRS *Data Book 1998*, forthcoming and <http://www.irs.treas.gov/prod/tax_stats/other_ia.html>.

Table 9.02-- FEDERAL TAX COLLECTIONS, BY SOURCE: 1994 TO 1998

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

Source	1994	1995	1996	1997 1/	1998
Federal collections	4,613,644	4,461,739	4,573,256	(NA)	4,690,970
Corporate income and excess profits	389,484	371,960	403,869	(NA)	390,821
Indiv. income and employment	4,060,861	3,968,349	4,045,271	(NA)	4,123,307
Income tax not withheld & SECA 2/	873,167	834,124	892,202	(NA)	1,037,358
Income tax withheld & FICA 3/	3,165,905	3,113,111	3,133,796	(NA)	3,066,906
Railroad retirement	2	4	-	(NA)	1
Unemployment insurance	21,787	21,110	19,273	(NA)	19,043
Estate	85,516	55,593	65,512	(NA)	92,817
Gift	6,995	4,817	6,940	(NA)	12,882
Excise	70,788	61,020	51,664	(NA)	71,143

1/ The IRS *Data Book 1997* contains data for the Pacific-Northwest, of which Hawaii is a part. There is no Hawaii detail.

2/ SECA Self employment insurance contributions.

3/ 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;* for 1996, <http://www.irs.ustreas.gov/tax_stats/96CR 3CL.exe>; for 1997 <http://www.irs.ustreas.gov/tax_stats/97CR 3CL.exe> and for 1998 IRS *Data Book 1998*, forthcoming, and <http://www.irs.treas.gov/prod/tax_stats/other_ia.html>.

Table 9.03-- STATE AND COUNTY TAX COLLECTIONS, BY SOURCE: 1995 TO 1998

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

Source	1995	1996	1997	1998
Total State and county tax collections	3,749,407	3,997,774	4,040,110	4,057,454
State collections 1/	3,012,835	3,257,099	3,301,030	3,324,827
General excise and use	1,363,920	1,432,486	1,457,907	1,425,904
Transient accommodations 2/	98,046	115,747	125,461	127,081
Fuel	134,031	138,267	136,837	134,017
Liquor	38,362	37,811	38,347	38,894
Tobacco	35,386	39,572	36,427	36,098
Insurance	62,271	59,164	55,847	59,443
Public service companies	100,505	104,131	114,364	120,326
Banks and other financial institutions	17,048	17,109	9,731	15,546
Corporate income 3/	30,249	48,438	57,839	46,209
Indiv. income, net income 4/	925,704	999,928	976,311	1,083,651
Inheritance and estate	16,438	17,540	55,847	19,645
Conveyance	6,952	5,669	6,007	6,926
Environmental response (FY94)	1,953	1,669	1,781	1,969
Rental vehicle surcharge	21,465	21,951	22,601	22,838
Hospital and nursing home 5/	16,601	10,104	11,559	3,414
Licenses, permits, and others	21,104	23,985	24,181	27,804
Unemployment compensation	122,801	183,526	169,984	155,062
County collections 1/	736,572	740,675	739,081	732,627
Real property	612,149	612,689	607,265	598,632
Liquor licenses and fees	4,366	5,091	5,148	5,030
Utility franchise	24,718	26,702	29,403	30,703
Motor vehicle weight 6/	69,057	67,430	68,309	69,861
Licenses, permits, and others	26,282	28,763	28,955	28,400

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/ Hospital tax repealed in 1994.

6/ Includes State motor vehicle weight tax.

Source: Tax Foundation of Hawaii, *Government in Hawaii,* table 13 (annual) and Tax Foundation of Hawaii unpublished compilations of Hawaii State Department of Accounting and General Services, *Annual Report of the Comptroller* (annual) and of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports).

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: 1997 TO 1999

Gross family income level (dollars)	Honolulu			51-city median 1/		51-city average	
	Taxes (dollars)	Percent of income	Rank 2/	Taxes (dollars)	Percent of income	Taxes (dollars)	Percent of income
1997							
25,000	2,168	8.7	15	1,970	7.9	2,027	8.1
50,000	4,778	9.6	13	4,180	8.4	4,221	8.4
75,000	7,905	10.5	13	6,870	9.2	6,885	9.2
100,000	10,805	10.8	14	9,318	9.3	9,318	9.3
150,000	16,551	11.0	12	14,549	9.7	14,148	9.4
1998							
25,000	2,256	9.0	11	1,918	7.7	2,026	8.1
50,000	4,967	9.9	12	4,173	8.3	4,272	8.5
75,000	8,196	10.9	9	7,018	9.4	7,004	9.3
100,000	11,185	11.2	8	9,575	9.6	9,442	9.4
150,000	17,221	11.5	8	14,648	9.8	14,376	9.6
1999							
25,000	2,172	8.7	12	1,938	7.8	2,024	8.1
50,000	4,512	9.0	18	4,160	8.3	4,296	8.6
75,000	7,368	9.8	17	6,836	9.1	6,968	9.3
100,000	10,010	10.0	17	9,424	9.4	9,371	9.4
150,000	15,449	10.3	18	14,565	9.7	14,397	9.6

1/ Largest city in each state, and the District of Columbia. For the listing of cities, see source.

2/ The lower the rank, the higher the percentage of income paid in taxes. For a breakdown of taxes, see source.

Source: Government of the District of Columbia, *Tax Rates and Tax Burdens in the District of Columbia- A National Comparison 1997* (July 1998), table 1; Ibid. *1998* (July 1999), table 1, and <http://www.dccfo.com/otrdcfo/netscape/mediacenter/recent.htm> and Ibid. *1999* (July 2000) table 1 and <http://www.dccfo.com/services/studies/index.html>.

Table 9.05 --TOTAL TAXES FOR A FAMILY OF FOUR IN A SELECTED CITY IN EACH OF THE 50 STATES AND WASHINGTON, D.C.: 2000

(In dollars and percent. Ranked by total annual taxes. For both homeowners and renters, areas researched are suburban communities surrounding each of the metropolitan areas where families earning $60,000 annual income reside. Total tax liability for the homeowner is based on an identical home value of $180,000 in all locations. Mortgage costs are based on a 20% down payment and 8.5% interest for 30 years.). Next, total tax liability has been determined for the renter using an annual rental of $14,640, or $1,220 per month in all locations. Taxes included are real estate (for homeowners only), sales; Federal, State and Local income taxes; F.I.C.A. (social security) and ad valorem (registration of motor vehicle) tax. See sources for details]

City	State	Total Annual Taxes of Homeowners			Total Annual Taxes of Renters		
		Rank	Amount	Percent of Income	Rank	Amount	Percent of Income
Anchorage	AK	49	11,932	19.9	51	10,145	16.9
Birmingham	AL	22	13,968	23.3	6	14,511	24.2
Little Rock	AR	20	14,055	23.4	5	14,513	24.2
Phoenix	AZ	45	12,588	21.0	38	12,588	21.0
Los Angeles	CA	39	12,948	21.6	33	13,099	21.8
Denver	CO	46	12,546	21.0	35	12,901	21.5
Stamford	CT	7	14,560	24.3	39	12,249	20.4
Wilmington	DE	44	12,589	21.0	31	13,147	21.9
Miami	FL	47	12,399	20.7	49	11,021	18.4
Atlanta	GA	24	13,943	23.2	15	14,144	23.6
Honolulu	HI	42	12,679	21.1	4	14,543	24.2
Des Moines	IA	19	14,062	23.4	25	13,528	22.6
Boise	ID	34	13,415	22.4	21	13,765	22.9
Chicago	IL	10	14,230	23.8	37	12,638	21.2
Indianapolis	IN	16	14,132	23.6	28	13,390	22.3
Kansas City	KS	21	14,044	23.4	12	14,205	23.7
Louisville	KY	5	14,802	24.7	1	15,311	25.5
New Orleans	LA	40	12,725	21.2	34	12,989	21.7
Boston	MA	23	13,946	23.2	30	13,318	22.2
Baltimore	MD	25	13,895	23.2	8	14,386	24.0
Portland	ME	14	14,201	23.7	24	13,539	22.6
Detroit	MI	6	14,627	24.4	26	13,501	22.5

Continued on next page.

Table 9.05 --TOTAL TAXES FOR A FAMILY OF FOUR IN A SELECTED CITY IN EACH OF THE 50 STATES AND WASHINGTON, D.C.: 2000 --Con.

City	State	Total Annual Taxes of Homeowners			Total Annual Taxes of Renters		
		Rank	Amount	Percent of Income	Rank	Amount	Percent of Income
Minneapolis	MN	26	13,816	23.0	23	13,565	22.6
St. Louis	MO	12	14,222	23.7	10	14,319	23.9
Jackson	MS	18	14,087	23.5	20	13,783	23.0
Billings	MT	13	14,206	23.7	16	14,076	23.5
Charlotte	NC	17	14,118	23.5	9	14,382	24.0
Fargo	ND	38	13,186	22.0	45	11,324	18.9
Omaha	NE	8	14,307	23.9	29	13,343	22.2
Manchester	NH	27	13,740	22.9	50	10,316	17.2
Bergen County	NJ	9	14,283	23.8	44	11,443	19.1
Albuquerque	NM	35	13,265	22.1	32	13,135	21.9
Las Vegas	NV	48	12,242	20.4	42	11,560	19.3
New York	NY	1	16,362	27.3	19	13,914	23.2
Cleveland	OH	4	14,981	25.0	13	14,161	23.6
Tulsa	OK	11	14,226	23.7	7	14,462	24.1
Portland	OR	29	13,707	22.8	11	14,228	23.7
Philadelphia	PA	2	15,724	26.2	3	14,717	24.5
Providence	RI	15	14,176	23.6	36	12,743	21.2
Charleston	SC	36	13,237	22.1	22	13,756	22.9
Sioux Falls	SD	41	12,724	21.2	47	11,185	18.6
Nashville	TN	50	11,902	19.8	43	11,541	19.2
Dallas	TX	37	13,225	22.0	46	11,222	18.7
Salt Lake City	UT	33	13,447	22.4	14	14,161	23.6
Richmond	VA	28	13,719	22.9	17	14,057	23.4
Burlington	VT	32	13,565	22.6	40	11,777	19.6
Seattle	WA	43	12,592	21.0	41	11,725	19.5
Milwaukee	WI	3	15,123	25.2	27	13,469	22.5
Charleston	WV	30	13,652	22.8	18	13,987	23.3
Casper	WY	51	11,342	18.9	48	11,171	18.6
Washington, D.C.	(NA)	31	13,622	22.7	2	15,193	25.3

Source: Runzheimer International, U.S. News Releases "Runzheimer Conducts 50-State (Plus Washington DC) Tax Analysis" (May 1, 2000) and "Runzheimer Analyzes Tax Burden Nationwide for Renters" (May 8, 2000).
Homeowners: http://www.runzheimer.com/corpc/news/scripts/050100.asp
Renters: http://www.runzheimer.com/corpc/news/scripts/050800.asp

Table 9.06-- ESTIMATED TAX FREEDOM DAY FOR THE UNITED STATES, EACH OF THE 50 STATES AND WASHINGTON D.C. FOR THE YEAR 2000

[Rank is among the 50 states where 50 indicates the earliest Tax Freedom Day in the year 2000. Tax Freedom Day is used to illustrate the portion of the American budget that goes to pay for taxes. See source for details]

Area	Tax Freedom Day	Rank	Number of Days		
			Total Taxes	Federal Taxes	State/Local Taxes
U.S.	**May 3**	**(NA)**	**124**	**86**	**38**
Mississippi	April 23	50	114	77	37
Alabama	April 23	49	114	81	33
Kentucky	April 23	48	114	80	34
Alaska	April 23	47	114	89	25
Tennessee	April 23	46	114	83	31
Oklahoma	April 23	45	114	79	35
North Dakota	April 24	44	115	80	35
West Virginia	April 24	43	115	76	39
Arkansas	April 24	42	115	79	36
South Dakota	April 25	41	116	83	33
South Carolina	April 25	40	116	81	35
Texas	April 26	39	117	84	33
Montana	April 26	38	117	82	35
Louisiana	April 26	37	117	81	36
Colorado	April 26	36	117	86	31
Arizona	April 28	35	119	85	34
Virginia	April 28	34	119	82	37
Delaware	April 29	33	120	84	36
Missouri	April 29	32	120	84	36
Georgia	April 29	31	120	83	37
Oregon	April 29	30	120	86	34
North Carolina	April 29	29	120	83	37
Iowa	April 30	28	121	82	39
Hawaii	***April 30***	***27***	***121***	***76***	***45***
Idaho	April 30	26	121	81	40
New Mexico	April 30	25	121	82	39
Indiana	May 1	24	122	84	38
New Hampshire	May 1	23	122	91	31
Pennsylvania	May 1	22	122	85	37
Kansas	May 2	21	123	85	38
Ohio	May 3	20	124	84	40
Michigan	May 3	19	124	88	36
California	May 3	18	124	85	39
Utah	May 3	17	124	81	43
Nebraska	May 4	16	125	83	42
Illinois	May 4	15	125	89	36
Maryland	May 4	14	125	88	37
Minnesota	May 5	13	126	86	40
Vermont	May 5	12	126	83	43
Rhode Island	May 6	11	127	85	42
Massachusetts	May 6	10	127	90	37
Nevada	May 6	9	127	91	36
Florida	May 7	8	128	92	36
Maine	May 7	7	128	79	49
Washington	May 8	6	129	90	39
Wisconsin	May 9	5	130	85	45
New Jersey	May 10	4	131	92	39
New York	May 12	3	133	86	47
Wyoming	May 13	2	135	101	34
Dist. of Col.	May 17	(NA)	138	85	53
Connecticut	May 18	1	139	99	40

Source: Tax Foundation, *Tax Bites* , "America to Celebrate Tax Freedom Day on May 3, 2000, States' Tax Freedom Days Vary from April 23 to May 18" (April 13, 2000) and <http://www.taxfoundation.com>. <http://www.taxfoundation.com>

Table 9.07-- HAWAII STATE GOVERNMENT FINANCES: 1996-98

[Thousands of dollars. Fiscal year ended June 30]

Category 1/	1996	1997	1998
Total revenue	6,383,347	6,700,545	6,760,740
General revenue	5,379,231	5,526,957	5,473,742
Intergovernmental revenue	1,227,974	1,302,690	1,175,599
Taxes	3,079,404	3,087,946	3,176,246
General sales	1,431,802	1,457,274	1,425,352
Selective sales	472,881	468,697	486,399
License taxes	85,456	89,876	92,647
Individual income	999,976	976,579	1,083,388
Corporation net income	65,547	67,570	61,755
Other taxes	23,742	27,950	26,705
Current charges	755,596	776,421	793,513
Miscellaneous general revenue	316,257	359,900	328,384
Insurance trust revenue	1,004,116	1,173,588	1,286,998
Total expenditure	5,946,676	6,093,375	5,860,425
General expenditure, by function:	5,229,112	5,420,946	5,261,479
Education	1,548,266	1,557,019	1,636,140
Public welfare	914,957	983,336	919,329
Hospitals	181,127	237,641	231,668
Health	305,725	276,988	269,974
Highways	269,998	321,658	248,700
Police protection	8,618	7,019	6,966
Correction	105,997	127,535	120,854
Natural resources	75,358	71,097	87,103
Parks and recreation 2/	109,075	144,309	49,939
Governmental administration	268,141	248,081	273,181
Interest on general debt	332,513	328,297	345,596
Other and unallocable	1,109,337	1,117,966	1,072,029
Utility expenditure	168	235	-
Liquor stores expenditure	-	-	-
Insurance trust expenditure	717,396	672,194	598,946
General expenditure	5,229,112	5,420,946	5,261,479
Intergovernmental expenditure	144,333	156,055	147,059
Direct expenditure	5,084,779	5,264,891	5,114,420
Debt at end of fiscal year	5,116,982	5,252,711	5,709,739
Cash and security holdings	9,675,590	10,842,971	11,719,346

1/ Utility revenues and Liquor stores revenues and expenditures are zero.
2/ Expenditures include development of Kakaako Waterfront Park.

Source: U.S. Department of Commerce, <http://www.census.gov/govs/state/96sthi.html>; <http://www.census.gov/govs/state/97sthi.html>; and <http://www.census.gov/govs/state/98sthi.html>.

Table 9.08-- HAWAII STATE GOVERNMENT FINANCES: 1998

[Amount in thousands of dollars, per capita in dollars. Fiscal year ended June 30]

Category 1/	Amount	Percent distribution	Per capita
Total revenue	6,760,740	100.00	5,667.00
General revenue	5,473,742	80.96	4,588.21
Intergovernmental revenue	1,175,599	17.39	985.41
Taxes	3,176,246	46.98	2,662.40
General sales	1,425,352	21.08	1,194.76
Selective sales	486,399	7.19	407.71
License taxes	92,647	1.37	77.66
Individual income	1,083,388	16.02	908.12
Corporation net income	61,755	0.91	51.76
Other taxes	26,705	0.40	22.38
Current charges	793,513	11.74	665.14
Miscellaneous general revenue	328,384	4.86	275.26
Insurance trust revenue	1,286,998	19.04	1,078.79
Total expenditure	5,860,425	100.00	4,912.34
General expenditure, by function:			
Education	1,636,140	27.92	1,371.45
Public welfare	919,329	15.69	770.60
Hospitals	231,668	3.95	194.19
Health	269,974	4.61	226.30
Highways	248,700	4.24	208.47
Police protection	6,966	0.12	5.84
Correction	120,854	2.06	101.30
Natural resources	87,103	1.49	73.01
Parks and recreation	49,939	0.85	41.86
Governmental administration	273,181	4.66	228.99
Interest on general debt	345,596	5.90	289.69
Other and unallocable	1,072,029	18.29	898.60
	-	-	-
Insurance trust expenditure	598,946	10.22	502.05
General expenditure	5,261,479	100.00	4,410.29
Intergovernmental expenditure	147,059	2.80	123.27
Direct expenditure	5,114,420	97.20	4,287.02
Debt at end of fiscal year	5,709,739	100.00	4,786.03
Cash and security holdings	11,719,346	100.00	9,823.42

1/ Utility revenues and expenditures and Liquor stores revenues and expenditures are zero.
Source: U.S. Department of Commerce, <http://www.census.gov/govs/state/98sthi.html>.

Table 9.09-- STATE GOVERNMENT REVENUES: 1997 AND 1998

[Data rounded to thousands of dollars. For fiscal years ended June 30]

Source of revenues	Fiscal 1997			Fiscal 1998		
	Total	General Fund	Special Funds	Total	General Fund	Special Funds
Total 1/	5,701,598	2,997,557	2,704,041	5,804,122	3,118,954	2,685,168
Tax revenues	3,093,796	2,761,628	332,168	3,197,366	2,873,402	323,964
General excise	1,429,589	1,429,589	-	1,416,584	1,416,584	0
Specific excises 3/	405,125	264,564	140,561	419,028	282,458	136,570
Individual income	973,055	973,055	-	1,077,844	1,077,844	0
Corporate income	49,933	49,933	-	50,542	50,542	0
Transient accommodations	5,227	5,227	-	5,295	5,295	0
Unemployment compensation	163,498	-	163,498	163,498	-	163,498
Other taxes, licenses, permits 4/	67,369	39,260	28,109	64,575	40,679	23,896
Federal Grants-in-Aid	1,302,161	7,469	1,294,692	1,227,832	8,381	1,219,451
Fines & Forfeitures	20,967	16,285	4,682	23,467	19,313	4,154
Rents, Royalties & Land Inc. 5/	136,784	5,107	131,677	138,462	5,317	133,145
Revenues from Other Agencies	37,236	7,934	29,302	49,841	8,669	41,172
Earnings: General Dept.	527,264	94,264	433,000	576,804	102,168	474,636
Auxiliary Enterprises	55,626	-	55,626	56,896	-	56,896
Public Service Enterprises	205,076	-	205,076	214,487	-	214,487
Interest Earned	170,455	45,195	125,260	198,323	57,054	141,269
Miscellaneous	152,233	59,675	92,558	120,644	44,650	75,994

1/ Excludes transfers and repayments except as shown.

2/ Reflects source revision in Special fund, Unemployment compensation from $62,687 to $142,330 thousand.

3/ Includes public service companies, tobacco, liquor, insurance premiums vehicle registration and weight, and fuel taxes; includes $111.7 million inn insurance premiums tax revenues previously held in escrow.

4/ Includes franchise, inherence and estate, hospital and nursing home, and conveyance taxes.

5/ Includes investment and unallocable interest income.

SOURCE: Compiled by the Tax Foundation of Hawaii from Annual Reports of the Comptroller. Dept. of Accounting and General Services, State of Hawaii.

Table 9.10-- STATE GOVERNMENT OPERATING EXPENDITURES, BY FUNCTION: 1996 TO 1998

[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	1996	1997	1998
Total	6,019,882	5,999,925	5,777,308
General government: Control	108,191	111,782	116,603
Staff	386,869	380,712	413,659
Public safety: Police and fire	9,651	7,441	8,528
Other protection	156,516	161,647	173,433
Highways	158,990	210,145	178,828
Natural resources	44,996	34,947	36,884
Health and sanitation	173,887	203,053	202,329
Hospitals and institutions	316,030	341,788	324,826
Public welfare	1,039,884	1,104,712	1,026,985
Education: Higher	548,673	536,491	559,590
Public education	863,071	860,644	912,107
Libraries and other	41,733	34,503	33,884
Recreation	37,887	34,903	32,159
Utilities and other enterprises	314,352	277,341	284,225
Debt service 1/	607,529	580,251	466,696
Retirement and pension	268,052	273,211	272,156
Employees' health and hosp. Insurance	639	602	604
Unemployment compensation	233,884	210,135	181,767
Grants-in-aid to counties	2,826	2,986	250
Urban redevelopment and housing	152,857	161,945	127,220
Miscellaneous	205,551	130,611	128,802
Cash capital improvements	347,812	340,075	295,771

1/ 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: State of Hawaii Department of Accounting and General Services *Annual Comptrollers Report 1997 and 1998* compiled by the Tax Foundation of Hawaii.

Table 9.11-- COUNTY GOVERNMENT OPERATING REVENUES, BY SOURCE: 1997

[Data rounded to 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/	1,385,681	965,749	160,433	167,787	91,711
Taxes	728,716	503,504	88,018	98,513	38,681
Real property taxes	607,265	413,844	74,141	86,490	32,790
Liquid fuel	61,628	46,226	7,215	5,784	2,404
Utility franchise	29,403	20,149	3,576	3,851	1,827
Motor vehicle weight	30,419	23,285	3,085	2,389	1,661
Liquor licenses and fees	5,148	2,540	1,371	863	375
Parking meter fees	4,512	4,389	NA	123	NA
Other 2/	26,824	20,781	2,474	2,872	697
Fines, forfeits, and penalties	1,757	589	822	346	-
Departmental earnings 3/	272,255	224,839	26,009	12,771	8,639
Mass transit	30,963	30,963	NA	NA	NA
State grants	126,322	49,411	30,143	29,333	17,435
Unrestricted 4/	96,702	42,450	21,947	17,904	14,401
Others	29,620	6,961	8,196	11,429	3,034
Federal grants	108,696	58,087	6,700	19,505	24,404
Hawaii Housing Authority	35	-	35	-	-
Miscellaneous	80,451	70,646	4,862	3,462	1,480

1/ Excludes loan, bond, revolving, trust funds, Board of Water Supply revenues and for County of Hawaii excludes Hilo Hospital. For City & County of Honolulu includes bus transportation and H-Power 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 compilations of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports).

Table 9.12-- COUNTY GOVERNMENT OPERATING REVENUES, BY SOURCE: 1998

[Data rounded to 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/	1,380,006	965,749	162,654	166,894	84,709
Taxes	721,423	494,366	89,466	99,796	37,795
Real property taxes	598,632	404,415	75,185	87,420	31,612
Liquid fuel	60,697	45,214	7,212	5,832	2,439
Utility franchise	30,703	20,756	3,829	4,080	2,038
Motor vehicle weight	31,391	23,981	3,240	2,464	1,706
Liquor licenses and fees	5,120	2,466	1,267	1,018	369
Parking meter fees	4,091	4,009	NA	82	NA
Other 2/	26,160	20,036	2,536	2,869	720
Fines, forfeits, and penalties	1,609	559	683	367	-
Departmental earnings 3/	287,059	237,777	25,920	14,034	9,329
Mass transit	30,437	30,437	NA	NA	NA
State grants	128,678	51,627	29,050	30,345	17,656
Unrestricted 4/	100,126	44,120	22,810	18,608	14,587
Others	28,553	7,507	6,240	11,736	3,070
Federal grants	135,417	93,791	8,743	14,845	18,039
Hawaii Housing Authority	35	NA	35	NA	NA
Miscellaneous	86,203	76,907	4,955	3,539	802

1/ Excludes loan, bond, revolving, trust funds, Board of Water Supply revenues and for County of Hawaii excludes Hilo Hospital. For City & County of Honolulu includes bus transportation and H-Power 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 compilations of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports).

Table 9.13-- COUNTY GOVERNMENT OPERATING EXPENDITURES, BY OBJECT: 1997

[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/	1,416,928	981,160	183,061	163,530	89,177
General government:					
Control	16,048	8,079	2,729	3,548	1,691
Staff	158,481	114,913	12,339	14,793	16,435
Public safety:					
Police and fire	260,640	172,416	31,356	43,787	13,082
Other protection	40,504	22,108	4,920	11,661	1,814
Highways	36,431	18,946	8,303	4,921	4,261
Health and sanitation */	184,363	152,153	14,691	11,704	5,815
Public welfare	42,766	-	18,429	12,606	11,731
Public schools	277	-	-	257	20
Recreation	80,453	52,449	13,673	10,788	3,544
Interest	110,892	93,209	8,296	7,598	1,789
Bond redemption	90,169	74,426	7,959	5,984	1,800
Pension and retirement	104,001	69,292	13,309	14,367	7,033
Salary adjustment	385	-	-	-	385
Econ. and urban devel. 2/	3,334	3,334	-	-	-
Mass transit 3/	118,282	117,136	-	1,146	-
Miscellaneous	107,673	70,785	16,514	11,745	8,629
Cash capital improvements	62,229	11,914	30,542	8,624	11,149

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 unpublished compilations of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports).

Table 9.14-- COUNTY GOVERNMENT OPERATING EXPENDITURES, BY OBJECT: 1998

[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/	(NA)	(NA)	177,956	171,341	88,127
General government:	(NA)	(NA)			
Control	(NA)	(NA)	3,436	2,889	1,602
Staff	(NA)	(NA)	13,218	15,915	12,777
Public safety:	(NA)	(NA)			
Police and fire	(NA)	(NA)	33,421	45,672	13,935
Other protection	(NA)	(NA)	4,743	12,304	2,317
Highways	(NA)	(NA)	1,514	6,280	4,502
Health and sanitation	(NA)	(NA)	14,805	12,307	7,171
Public welfare	(NA)	(NA)	20,319	12,573	18,581
Public schools	(NA)	(NA)	-	257	21
Recreation	(NA)	(NA)	14,402	11,746	4,189
Interest	(NA)	(NA)	8,862	7,725	1,650
Bond redemption	(NA)	(NA)	8,463	6,423	1,650
Pension and retirement	(NA)	(NA)	13,827	14,264	6,961
Salary adjustment	(NA)	(NA)	-	-	21
Econ. and urban devel. 2/	(NA)	(NA)	-	-	-
Mass transit 3/	(NA)	(NA)	-	1,326	-
Miscellaneous	(NA)	(NA)	18,540	13,034	8,524
Cash capital improvements	(NA)	(NA)	22,405	8,624	4,225

NA Not available. Estimates for the City and County of Honolulu were not available by closing date for *State of Hawaii Data Book 1999*. Table will be updated as soon as estimates are compiled.

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 unpublished compilations of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports).

Table 9.15-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1980 TO 1998

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
1996	549,619	1,066,834	19,537,774	35,548	18,314
1997	552,105	1,197,378	20,367,085	36,890	17,010
1998	553,525	1,090,735	20,874,106	37,711	19,138

1/ Exemptions for age or blindness excluded through 1981 and included thereafter. "Number of exemptions" also includes responses of taxpayers who checked the boxes on their tax returns for age 65 or over or for blindness, partly to justify the additional standard deductions for age or blindness. Treating these responses as if they were for personal exemptions enables some comparability to be maintained in the State data between years starting with 1987 (the first year for which the additional standard deductions were allowed for age and blindness) and earlier years, when additional personal exemptions were allowed for this purpose, instead. Note, though, that these responses were not included in the 1996 statistics, so data for that year are not altogether comparable with those for 1997 and years preceding 1996.

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; *Spring 1998* , p. 163; Spring 1999 <http://ftp.fedworld.gov/pub/irs-soi/97in12hi.exe>; *Spring 2000* <http://ftp.fedworld.gov/pub/irs-soi/98in12hi.xls> and calculations by Hawaii State Department of Business, Economic Development & Tourism, and records.

Table 9.16-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1997 AND 1998

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 2/ (dollars)
1997					
All returns	552,105	20,367,085	468,570	2,709,226	5,532
Under $20,000 2/	227,436	1,824,877	147,167	123,402	839
$20,000 under $30,000	88,456	2,185,744	86,250	185,855	2,155
$30,000 under $50,000	105,234	4,102,520	104,383	425,728	4,079
$50,000 under $75,000	71,321	4,351,648	71,170	509,094	7,153
$75,000 under $100,000	32,166	2,755,976	32,132	380,225	11,833
$100,000 under $200,000	22,253	2,860,449	22,234	499,369	22,460
$200,000 or more	5,239	2,285,873	5,234	585,555	111,875
Median income	25,496	...	...	...	...
1998					
All returns	553,525	20,874,106	450,491	2,720,096	6,038
Under $20,000 2/	224,543	1,610,214	131,064	111,365	850
$20,000 under $30,000	87,807	2,172,001	80,879	168,516	2,084
$30,000 under $50,000	105,183	4,101,877	102,967	394,747	3,834
$50,000 under $75,000	72,161	4,408,814	71,828	486,531	6,774
$75,000 under $100,000	33,825	2,901,069	33,775	381,502	11,295
$100,000 under $200,000	24,140	3,101,824	24,116	530,425	21,995
$200,000 or more	5,866	2,578,305	5,862	647,011	110,374
Median income	0	...	...	...	...

1/ Filed in following year.

2/ Includes returns with adjusted gross deficit.

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin, Spring 1999* and <http://ftp.fedworld.gov/pub/irs-soi/97in12hi.exe>; *Spring 2000* and <http://ftp.fedworld.gov/pub/irs-soi/98in12hi.xls>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.17-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1997 AND 1998

Subject	1997		1998	
	Number of returns	Amount ($1,000)	Number of returns	Amount ($1,000)
All returns and adj. gross income (AGI)	552,105	20,367,085	553,525	20,874,106
Salaries and wages	461,379	14,962,558	460,581	15,231,624
Taxable interest income	373,305	679,451	365,389	689,865
Tax-exempt interest income	24,163	153,376	23,724	155,211
Dividends	140,348	458,284	143,151	426,050
Business or prof. net income (less loss)	80,343	776,116	79,801	751,408
Net capital gain (less loss)	111,141	965,190	118,643	1,092,446
Taxable Indiv. Retire. Arrangements distrib.	30,492	249,513	43,575	367,930
Pensions and annuities	100,780	1,652,245	103,174	1,760,332
Social security benefits	42,946	349,033	45,464	360,446
Total statutory adjustments	86,868	203,523	94,298	208,173
Self-employment retirement plans	5,781	44,153	5,752	45,460
Itemized deductions	180,042	3,445,595	183,467	3,488,201
Medical & dental expenses	27,555	227,553	28,107	131,063
Taxes paid	179,215	960,175	182,618	1,012,024
Interest paid	143,794	1,748,061	144,506	1,797,355
Contributions	160,797	347,571	163,821	374,399
Taxable income	455,234	13,165,194	449,788	13,646,230
Total tax credits	41,798	26,984	140,752	110,260
Child care credit	27,093	9,984	27,335	9,873
Earned income credit	66,480	81,529	67,211	88,059
Excess earned income credit (refundable)	49,136	62,314	53,340	73,400
Income tax	453,380	2,575,869	432,777	2,580,336
Tax liability	468,570	2,709,226	450,491	2,720,096
Tax due at time of filing	147,158	291,116	126,337	280,209
Overpayments	271,127	453,414	390,882	555,649

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin, Spring 1999* and <http://ftp.fedworld.gov/irs-soi/97in12hi.exe> and *Spring 2000* and <http://ftp.fedworld.gov/irs-soi/98in12hi.xls>.

Table 9.18-- INTERNAL REVENUE SERVICE OPERATIONS: 1994 TO 1998

Subject	1994	1995	1996	1997 1/	1998
Internal revenue collections ($1,000)	4,613,645	4,461,739	4,573,256	(NA)	4,690,970
Indiv. income and employment taxes	4,060,861	3,968,349	4,045,271	(NA)	4,123,307
Total number of returns filed	1,005,219	994,156	980,494	(NA)	1,028,339
Individual income tax	554,871	553,326	549,941	(NA)	551,494
Total no. of returns filed electronically	(NA)	(NA)	(NA)	(NA)	(NA)
Individual income tax	35,013	29,077	39,434	(NA)	(NA)
Number of returns examined	3,216	4,171	4,203	(NA)	(NA)
Individual	2,543	3,660	3,317	(NA)	(NA)
Additional tax and penalties recommended after examination ($1,000)	111,540	42,295	60,714	(NA)	(NA)
Individual	29,933	23,379	32,098	(NA)	(NA)
Costs incurred ($1,000)	12,594	12,566	10,656	(NA)	(NA)

1/ The IRS *1997 Data Book* contains data for the Pacific-Northwest, of which Hawaii is a part. There is no Hawaii detail.

Source: Internal Revenue Service, *Annual Report, 1991, 1992,* and *1993,* and Ibid. *Data Book, 1993-94, 1995, 1996, 1997;* and *Data Book 1998*, forthcoming, and <http://www.irs.ustreas.gov/prod/tax_stats/soi/other_ia.html>.

Table 9.19-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS: TAX YEARS 1982 TO 1998

Year income was received	Number of resident returns	Adjusted gross income 1/ ($1,000)	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
1996	523,967	15,966,451	11,510,879	917,117
1997	514,563	16,651,182	12,245,720	983,677
1998	516,582	17,212,238	12,734,546	1,027,478

1/ Exclusive of losses.
Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals* (annual) and records.

Table 9.20-- SOURCES OF INCOME REPORTED BY ELDERLY AND ALL OTHER RESIDENT TAXPAYERS: TAX YEAR 1997

[In thousands of dollars. Use of federal amounts for income sources was necessary because there is no detailed information on income sources on the simplified Hawaii Form N-11 used by most residents]

Source of Income	Total	Elderly	All others
Salaries and wages	13,332,841	615,781	12,717,060
Taxable dividends	370,510	193,398	177,112
Interest	624,708	335,637	289,071
Sole proprietorships	652,684	66,897	585,787
Capital assets or other property	696,116	299,926	396,190
Rents and royalties	-10,248	90,747	-100,995
Partnerships	331,252	30,213	301,039
Estates and trusts	89,899	44,108	45,791
Pensions and annuities	1,642,174	1,086,937	555,237
Taxable IRA payouts	218,694	144,001	74,693
Taxable Social Security	315,272	280,538	34,734
All other sources	318,913	4,729	314,184
Total reportable income for Federal purposes	18,582,815	3,192,912	15,389,903
Plus: Items taxed by Hawaii but not federal 1/	319,303	65,829	253,475
Less: Items taxed by federal but not by Hawaii 2/	2,078,600	1,414,720	663,887
Total reportable income for Hawaii purposes	16,823,518	1,844,021	14,979,491

NA Not available.

1/ Includes COLA for federal employees, Employee retirement contributions of state and county employees, and Interest from municipal bonds

2/ Includes Social security benefits, most pensions, and interest on federal bonds.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals: 1997* , p. 19, Department of Taxation unpublished detail, and and calculations by Hawaii State Department of Business, Economic Development & Tourism).

Table 9.21-- SOURCES OF INCOME REPORTED BY ELDERLY AND ALL OTHER RESIDENT TAXPAYERS: TAX YEAR 1998

[In thousands of dollars. Use of federal amounts for income sources was necessary because there is no detailed information on income sources on the simplified Hawaii Form N-11 used by most residents]

Source of Income	Total	Elderly	All others
Salaries and wages	13,676,281	638,047	13,038,234
Taxable dividends	375,771	201,462	174,309
Interest	656,121	340,486	315,635
Sole proprietorships	722,729	69,616	653,113
Capital assets or other property	910,655	360,469	550,186
Rents and royalties	-25,053	85,709	-110,762
Partnerships	312,879	52,267	260,612
Estates and trusts	104,156	56,822	47,334
Pensions and annuities	1,736,273	1,145,506	590,767
Taxable IRA payouts	308,091	161,825	146,266
Taxable Social Security	352,185	312,602	39,583
All other sources	182,668	2,638	180,030
Total reportable income for Federal purposes	19,312,760	3,427,452	15,885,308
Plus: Items taxed by Hawaii but not federal 1/	301,576	45,164	256,412
Less: Items taxed by federal but not by Hawaii 2/	2,216,566	1,522,813	693,753
Total reportable income for Hawaii purposes	17,397,760	1,949,752	15,448,008

1/ Includes COLA for federal employees, Employee retirement contributions of state and county employees, and Interest from municipal bonds

2/ Includes Social security benefits, most pensions, and interest on federal bonds.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns Individuals: 1998* , pp. 19-20, Department of Taxation unpublished detail, and and calculations by Hawaii State Department of Business, Economic Development & Tourism).

Table 9.22-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (dollars)	Taxable income (dollars)	Tax liability (dollars)
All resident returns	514,563	16,651,182,143	12,245,720,419	983,677,263
Taxable resident returns	423,107	16,573,666,392	12,245,720,419	983,677,263
Under $5,000	32,719	100,487,814	42,648,410	1,182,609
$5,000, under $10,000	46,902	348,987,254	197,393,453	8,928,902
$10,000, under $20,000	81,337	1,212,191,328	844,426,063	51,938,104
$20,000, under $30,000	74,386	1,842,478,641	1,377,064,415	98,982,076
$30,000, under $40,000	48,051	1,669,068,866	1,238,796,739	94,769,164
$40,000, under $50,000	36,303	1,627,054,004	1,187,889,589	93,006,480
$50,000, under $75,000	55,766	3,398,296,172	2,443,660,657	198,449,289
$75,000, under $100,000	25,199	2,165,114,562	1,572,113,624	134,071,642
$100,000, under $150,000	14,675	1,727,291,933	1,303,259,450	115,617,506
$150,000, under $200,000	3,474	590,570,829	464,617,228	42,200,263
$200,000 and over	4,295	1,892,124,989	1,573,850,791	144,531,228
Nontaxable resident returns	91,456	77,515,751	...	...
Loss	6,021	(189,655,264)	...	...
Under $5,000	71,500	81,480,085	...	...
$5,000, under $10,000	7,738	54,497,204	...	...
$10,000 and over	6,197	131,193,726	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, 1997,* table 1.

Table 9.23-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED

Adjusted gross income class	Number of returns	Adjusted gross income 1/ (dollars)	Taxable income (dollars)	Tax liability (dollars)
All resident returns	516,582	17,212,237,655	12,734,546,102	1,027,477,572
Taxable resident returns	425,612	17,236,142,525	12,734,546,102	1,027,477,572
Under $5,000	33,394	101,716,105	42,614,988	1,203,848
$5,000, under $10,000	45,389	339,849,614	190,983,954	8,648,034
$10,000, under $20,000	82,637	1,235,566,191	858,265,946	53,061,510
$20,000, under $30,000	71,787	1,781,263,875	1,324,413,386	95,094,033
$30,000, under $40,000	49,623	1,723,556,363	1,271,436,849	97,040,645
$40,000, under $50,000	35,424	1,590,282,771	1,152,079,876	90,457,984
$50,000, under $75,000	55,700	3,392,826,580	2,438,141,431	197,889,920
$75,000, under $100,000	27,252	2,341,440,593	1,704,792,949	145,513,663
$100,000, under $150,000	15,627	1,842,502,587	1,386,107,976	122,861,409
$150,000, under $200,000	3,800	655,958,218	515,618,336	46,842,344
$200,000 and over	4,979	2,231,179,628	1,850,090,411	168,864,182
Nontaxable resident returns	90,970	-23,904,870	...	...
Loss	6,345	(301,620,107)	...	...
Under $5,000	69,831	82,214,210	...	...
$5,000, under $10,000	8,077	56,040,646	...	...
$10,000 and over	6,717	139,460,381	...	...

1/ Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, 1998,* table 1.

Table 9.24-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN, 1982 TO 1998, AND BY COUNTIES, 1997 AND 1998

[In dollars]

Year income was received	Taxable and nontaxable returns 1/			Taxable returns only		
	All returns	Joint	Other 2/	All returns	Joint	Other 2/
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	12,070	25,265	46,778	17,922
1995	19,602	39,147	13,401	25,277	46,714	18,439
1996	19,834	39,079	13,217	25,393	47,505	18,294
1997	20,866	41,750	13,671	26,475	48,865	18,475
1998	21,065	42,534	13,944	26,838	50,147	18,615
COUNTIES: 1997						
Honolulu	21,518	43,953	14,067	27,259	51,281	18,815
Maui	22,194	40,891	16,199	25,805	45,628	19,069
Hawaii	15,394	32,285	10,042	22,810	42,479	15,278
Kauai	20,356	34,557	11,870	25,492	41,548	18,083
COUNTIES: 1998						
Honolulu	21,678	44,368	14,374	27,711	52,474	19,021
Maui	22,577	42,378	15,838	26,660	48,453	19,574
Hawaii	16,409	34,257	10,783	22,642	43,250	15,823
Kauai	19,993	38,080	12,995	25,076	43,814	17,662

1/ Includes returns with adjusted gross income losses.
2/ Including single, married filing separately, heads of households and qualifying widows and widowers.
Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals* (annual).

Table 9.25-- TAX CREDITS CLAIMED BY INDIVIDUALS AND CORPORATIONS: 1998

[In numbers and dollars]

Type of credit	Number of returns	Amount of credit
Number of individual returns filed	565,422	
Returns with tax credits	462,064	62,877,680
Food credit	457,994	25,432,002
Renter's credit	3,150	6,957,550
Dependent care credit	3,442	7,662,757
Child care credit	71,432	86,050
Capital goods excise credit	25,843	2,446,087
Fuel credit for fishing	3,987	104,966
Motion picture credit	352	11,551
Hotel remodeling credit	13	135,094
Energy device credit	19	4,534,355
Vocational rehabilitation job credit	8	25,703
Enterprise zone credit	49	236,590
Other nonrefundable credits 1/	7,507	15,244,975
Number of corporation income tax returns filed	18,387	
Returns with tax credits	2,410	25,466,244
Capital goods tax credit	2,348	22,536,557
Fuel credit for fishers	22	10,280
Vocational rehabilitation job credit	13	10,963
Hotel remodeling credit	69	87,173
Energy device credit	12	87,173
Low-income housing credit	15	242,576
Other credits 2/	10	734,681
Motion picture credit	(NA)	682,233
Enterprise zone credit	(NA)	52,448
Lifeline telephone service credit	3/	169,158

NA Not available.

1/ Includes the low-income housing tax credit and the credit for taxes paid to other jurisdictions.

2/ Includes enterprise zone credit and motion picture credit.

3/ Initiated in 1986. At the close of 1998, the telephone company reported 7,572 subscribers who are being serviced at subsidized rates. It claimed $169,158 for the telephone lifeline credit.

Source: Hawaii State Department of Taxation, *Tax Credits Claimed by Hawaii Individuals and Corporations: 1998* (April 2000) and <http://www.state.hi.us>.

Table 9.26-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1998 AND 1999

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

Source of revenue	Tax base		Tax collections	
	1998	1999	1998	1999
All sources	46,995,324	47,888,314	1,436,654	1,454,779
Sources taxed at 4 percent	33,008,791	33,327,745	1,320,352	1,333,110
Retailing	15,730,858	15,957,379	629,234	638,295
Services	5,545,001	5,647,648	221,800	225,906
Contracting	3,015,977	2,991,201	120,639	119,648
Theater, amusement, radio	232,288	220,959	9,292	8,838
Interest	218,533	216,884	8,741	8,675
Commissions	661,422	710,880	26,457	28,435
Hotel rentals	2,147,217	2,158,193	85,889	86,328
All other rentals	3,756,979	3,687,580	150,279	147,503
Use (4 percent)	456,404	462,928	18,256	18,517
All others (4 percent)	1,244,112	1,274,095	49,764	50,964
Sources taxed at other rates 1/	13,986,533	14,560,569	67,811	70,139
Insurance solicitors	606,164	761,218	909	1,142
Sugar processing	9,301	26,195	47	131
Pineapple canning	5,301	5,148	27	26
Producing	478,201	501,501	2,391	2,508
Manufacturing	535,371	585,305	2,677	2,927
Wholesaling	8,030,448	8,059,260	40,152	40,296
Services (intermediary)	320,845	298,815	1,604	1,494
Use (1/2 percent)	4,000,903	4,323,127	20,005	21,616
Unallocated net collections 2/	-	-	48,491	51,530

1/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

2/ 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) and <http://www.state.hi.us/tax/tax.html>.

Table 9.27-- TOBACCO TAX COLLECTIONS: 1994 TO 1999

[In dollars]

Year	Cigarettes 1/	Other tobacco products 2/
1994	33,424,978	2,802,993
1995	34,683,672	2,765,172
1996	35,836,158	1,805,131
1997	32,878,288	2,677,839
1998	35,694,448	3,804,475
1999	39,697,383	1,996,928

1/ The rate per cigarette was changed on July 1, 1993 to $0.03 (Act 220; SLH 1993) September 1, 1997 to $0.04 and on July 1, 1998 to $0.05.

2/ Other [than cigarettes] tobacco products are 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).

Table 9.28-- LIQUOR TAX COLLECTIONS: 1990 TO 1999

[In thousands of dollars. Definitions and rates are as specified in Hawaii Revised Statutes Chapter 244D, and as amended]

Year	Total	Year	Total
1990	42,094	1995	37,486
1991	40,125	1996	38,624
1992	40,983	1997	38,624
1993	38,286	1998 1/	38,361
1994	38,753	1999	37,139

1/ Beginning July 1, 1998, tax rates per wine gallon are $5.98 on distilled spirits, $2.12 on sparkling wine, $1.38 on still wine, $0.85 on cooler beverages, $0.93 on beer other than draft beer, and $0.54 on draft beer.

Source: Hawaii State Department of Taxation, "Liquor Tax Collections and Permits" (annual release).

Table 9.29-- REAL PROPERTY TAX VALUATIONS: 1986 TO 2001

[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/			Valuation for tax 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	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
1999	125,412,154	72,253,741	53,158,413	105,184,585
2000	120,687,029	67,673,347	53,013,682	100,906,373
2001	118,929,005	65,241,123	53,687,882	98,984,387

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 Budget & Fiscal Services, Real Property Assessment *Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 2000-2001 Tax Year, State of Hawaii* (July 2000) and earlier reports as the Department of Finance.
http://www.co.honolulu.hi.us/rpa/staterpt.htm

Table 9.30-- REAL PROPERTY TAX VALUATIONS FOR THE STATE, 1998 TO 2001, AND BY COUNTY, 2000 AND 2001

[In thousands of dollars. Fiscal year ended June 30]

Subject: State	1998	1999	2000	2001
Assessor's gross valuation 1/	131,536,224	125,412,154	120,687,029	118,929,005
Land	78,049,699	72,253,741	67,673,347	65,241,123
Improvement	53,486,525	53,158,413	53,013,682	53,687,882
Exemptions 1/	18,639,707	18,460,133	18,386,518	18,443,052
Assessor's net taxable valuation	112,896,517	106,952,021	102,300,511	100,485,953
Half of valuation on appeal	1,941,070	1,767,433	1,394,133	1,220,936
Number of appeals	5,396	3/ 3,951	3,786	3,966
Valuation for tax rate purposes	110,955,447	105,184,585	100,906,373	98,984,387
Land	70,423,702	65,316,594	61,127,903	58,895,855
Improvement	40,531,745	39,867,991	39,778,470	40,088,532
Amount to be raised by taxation 2/	582,877	579,983	590,613	579,709

Subject: Tax Year 2000	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/ 2/	86,538,349	15,929,026	12,101,003	6,118,651
Land	50,579,900	7,994,761	5,973,405	3,125,281
Improvement	35,958,449	7,934,265	6,127,598	2,993,370
Exemptions 1/	13,772,526	1,633,290	2,092,946	887,756
Assessor's net taxable valuation	72,765,823	14,295,736	10,008,057	5,230,895
Half of valuation on appeal	945,146	251,246	125,945	71,796
Number of appeals	2,289	330	897	270
Valuation for tax rate purposes	71,820,677	14,044,490	9,882,112	5,159,094
Land	45,469,305	7,448,417	5,417,729	2,792,452
Improvement	26,351,372	6,596,073	4,464,383	2,366,642
Amount to be raised by taxation	392,752	82,430	80,949	34,482

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Table 9.30-- REAL PROPERTY TAX VALUATIONS FOR THE STATE, 1998 TO 2001, AND BY COUNTY, 2000 AND 2001--Con.

Subject: Tax Year 2001	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/ 2/	83,432,669	16,845,811	12,264,491	6,386,034
Land	47,506,124	8,427,293	6,023,035	3,284,671
Improvement	35,926,545	8,418,518	6,241,456	3,101,363
Exemptions 1/	13,737,279	1,676,414	2,125,066	904,293
Assessor's net taxable valuation	69,695,390	15,169,397	10,139,425	5,481,741
Half of valuation on appeal	1,019,190	103,687	56,042	42,017
Number of appeals	2,576	572	598	220
Valuation for tax rate purposes	68,676,200	15,065,710	10,083,383	5,159,094
Land	42,691,040	7,909,841	5,502,522	2,792,452
Improvement	25,985,160	7,155,869	4,580,861	2,366,642
Amount to be raised by taxation	374,099	88,359	82,769	34,482

This table conforms to the convention of "Fiscal Year ending June 30, 2001" as 2001. Earlier *Data Book* tables may have used as "Year" that beginning July 1.

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.

3/ Source revised August 19, 1998.

Source: City and County of Honolulu, Department of Budget and Fiscal Services, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1999-2000 Tax Year, State* of Hawaii (July 1999) and Ibid. *2000-2001* (July 2000) and earlier reports as Department of Finance. http://www.co.honolulu.hi.us/rpa/staterpt.htm

Table 9.31-- REAL PROPERTY TAX EXEMPTIONS FOR THE STATE, BY TYPE: TAX YEARS 2000 AND 2001

Type of exemption	2000 Number	2000 Amount 1/ ($1,000)	2001 Number	2001 Amount 1/ ($1,000)
All exemptions, Statewide	227,935	37,067,441	227,714	36,731,469
Federal government	628	3,508,589	707	3,702,676
State government	7,968	10,310,399	8,033	10,061,750
County government	3,824	3,871,050	3,793	3,720,077
Government leases - Total	148	59,465	152	61,356
Government leases - Portion	99	19,981	107	24,803
Hawaiian Homes Commission	2,129	315,272	2,329	352,212
Hawaiian Homes Land - Basic	611	41,932	617	40,597
Hawaiian Homes Land - Multiple	330	29,804	334	29,108
Hawaiian Homes Land - Total land	2,753	466,024	2,764	428,468
Hawaiian Homes Land - Vacant land	143	14	143	14
Hawaiian Homes - 7 Year	455	59,498	619	67,080
Homes - fee (Basic)	93,152	3,830,751	88,978	3,667,972
Homes - fee (Multiple)	85,781	8,309,438	90,366	8,610,307
Homes - lease (Basic)	5,695	229,681	4,952	200,070
Homes - lease (Multiple)	5,326	497,383	5,460	495,686
Additional home exemption	1,424	49,565	1,111	38,385
Blind	480	12,089	476	11,825
Deaf	148	3,924	141	3,693
Leprosy	8	140	7	117
Totally disabled	5,787	157,199	5,766	154,491
Totally disabled veterans	596	132,312	635	133,786
Cemeteries	102	38,971	106	44,704
Charitable organizations	977	971,525	991	966,167
Churches	1,455	1,155,480	1,459	1,111,958
Civil - Condemnation	61	26,996	48	32,861
Credit Unions	79	69,841	82	71,106
Crop shelters	49	3,156	46	3,089
Foreign consulates	30	14,686	30	14,322
Forest reserve	6	4,115	6	4,115
Historic residential properties	98	70,111	99	62,725
Hospitals	89	497,029	103	498,903
Landscaping, open-space	49	18,213	48	16,404
Low-moderate income housing	488	870,568	379	847,594
Public utilities	796	667,697	627	577,825
Roadways and waterways	5,901	11,288	5,947	11,940
Schools	184	726,728	185	649,398

Continued on next page.

Table 9.31-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 2000 AND 2001 - Con.

Type of exemption	2000		2001	
	Number	Amount 1/ ($1,000)	Number	Amount 1/ ($1,000)
Setbacks	4	764	3	499
Slaughterhouse	2	2,054	2	2,022
Taro	44	8	36	9
Tree Farm	3	754	-	-
Miscellaneous	33	12,947	27	11,352

1/ Includes government parcels at actual value and exemptions on federal leases, if any.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1999-2000 Tax Year, State of Hawaii* (July 1999) and City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 2000-2001 Tax Year, State of Hawaii* (July 2000), http://www.co.honolulu.hi.us/rpa/staterpt.htm

Table 9.32-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES: FISCAL YEARS 1999- 2000 AND 2000-2001

[In thousands of dollars. For fiscal year ending June 30 of latter year]

Land use class	Gross valuation, January 1st of earlier year			To be raised by taxation, fiscal year
	Total	Land	Improvement	
1999-2000				
All classes	120,687,029	67,673,347	53,013,682	590,613
Improved residential 2/	49,200,374	32,482,321	16,718,053	157,917
Apartment	21,243,048	7,581,487	13,661,561	88,677
Commercial	13,527,313	7,266,804	6,260,509	107,763
Industrial	6,757,914	4,382,223	2,375,691	57,699
Agricultural	4,599,416	3,091,451	1,507,965	33,350
Conservation	1,284,461	1,153,263	131,198	9,493
Hotel/resort	10,850,246	4,531,894	6,318,352	94,582
Unimproved residential 2/	2,035,989	1,771,312	264,677	7,986
Homeowner 3/	7,923,995	3,593,966	4,330,029	20,402
Single family 4/	1,649,833	1,047,203	602,630	8,189
Homestead 4/	1,614,440	771,423	843,017	4,555
2000-2001				
All classes	118,929,005	65,241,123	53,687,882	579,709
Improved residential 2/	48,121,195	31,122,554	16,998,641	153,598
Apartment	20,724,701	7,207,845	13,516,856	87,050
Commercial	13,066,069	6,792,892	6,273,177	103,533
Industrial	6,405,513	4,041,396	2,364,117	54,589
Agricultural	4,821,572	3,261,783	1,559,789	33,963
Conservation	1,301,399	1,157,575	143,824	9,868
Hotel/resort	11,060,671	4,510,235	6,550,436	95,243
Unimproved residential 2/	1,882,216	1,617,066	265,150	7,696
Homeowner 3/	8,245,948	3,728,537	4,517,411	21,425
Single family 4/	1,626,110	1,018,231	607,879	8,189
Homestead 4/	1,673,611	783,009	890,602	4,555

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, 1999-2000 Tax Year, State of Hawaii* (July 1999) and City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 2000-2001 Tax Year, State of Hawaii* (July 2000), http://www.co.honolulu.hi.us/rpa/staterpt.htm

Table 9.33--MAJOR REAL PROPERTY TAXPAYERS, FOR THE CITY AND COUNTY OF HONOLULU: FISCAL YEAR 1999-2000

Rank	Taxpayer	Original debit 1/ (dollars)	Land area (acres)	Gross assessed value 2/ (dollars)
	Top 20 real property taxpayers	91,654,704	71,350.31	12,591,259,100
1	Bishop Estate	17,470,346	24,706.49	3,867,228,700
2	Queen's Medical Center et al	9,080,524	2,191.49	1,096,377,900
3	D/E Hawaii Joint Venture	7,144,565	60.56	774,507,200
4	Hilton Hawaiian Village Joint Venture	6,687,961	19.46	671,482,000
5	Kyo-Ya Co., Ltd.	6,479,379	14.11	651,526,800
6	James Campbell Trust Estate	6,123,870	22,146.64	744,581,300
7	Liliuokalani Trust	5,103,616	36.72	661,628,400
8	Samuel M. Damon Trust Estate	5,045,335	3,968.57	554,862,200
9	Dole Food Company	4,061,653	17,104.33	573,703,300
10	Outrigger Hotels Hawaii	2,795,573	9.31	288,869,000
11	Loyalty Development	2,660,323	92.45	327,501,500
12	First Hawaiian Inc.	2,615,407	87.00	317,451,200
13	Victoria Ward Ltd.	2,577,334	61.14	278,748,500
14	Bancorp Hawaii Inc.	2,356,577	119.50	407,735,200
15	Gentry Properties, etc.	2,222,468	673.46	324,373,100
16	Weinberg, Harry Foundation	2,055,165	46.53	296,985,000
17	Steiner Family Ltd. Partnership	2,007,594	2.35	202,183,000
18	MFD Partners	1,936,273	5.64	211,840,400
19	Bishop Square Associates	1,776,253	2.92	192,455,700
20	JOWA Hawaii Company Ltd	1,454,488	1.64	147,218,700

1/ Original debit as of July 1, 1999.

2/ Land and improvements. As of January 1, 1999. Valuation at 100 percent of market value.

Source: City and County of Honolulu, Real Property Assessment Division, Administration/Technical Branch, records.

Table 9.34-- RESIDENTIAL PROPERTY TAX RATES IN HONOLULU AND THE MEDIAN OF 51 MAJOR CITIES: 1985 TO 1999

Year	Effective tax rate per $100 1/			Nominal tax rate per $100	Honolulu assessment level (percent)
	Median city 2/	Honolulu	Rank 3/		
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 4/	(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
1997	1.42	0.39	51	0.39	100.0
1998	1.41	0.46	51	0.46	100.0
1999	1.55	0.37	51	0.37	100.0

NA Not available.

1/ Adjusted to 100-percent assessment level.

2/ Largest city in each state, and the District of Columbia. For the listing of cities, see source.

3/ The lower the rank, the higher the percentage of income paid in taxes. For a breakdown of taxes, see source.

4/ Both *Statistical Abstract 1994* and *1995* contained data for 1992 and none contained 1993 data.

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 and 1997 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; Ibid. *1997* (July 1998), table 1; Ibid. *1998* (July 1999), table 4, <http://www.dccfo.com/otrdcfo/netscape/mediacenter/recent.htm> and Ibid. *1999* (July 2000), table 4, and <http://www.dccfo.com/services/studies/index.html>.

Table 9.35-- REAL PROPERTY TAX RATES, BY COUNTIES: 2000 AND 2001

[In dollars per $1,000 net taxable value. For fiscal years ended June 30, 2000 and 2001]

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential	3.65	5.04	8.50	1/ 5.74
Unimproved residential	4.66	5.04	10.00	(X)
Apartment	4.49	5.04	10.00	8.80
Hotel/resort	9.96	8.48	10.00	8.80
Commercial	9.25	6.89	10.00	8.80
Industrial	9.39	6.89	10.00	8.80
Agricultural	9.89	5.04	10.00	8.20
Conservation	9.25	5.04	10.00	8.70
Homeowner	(X)	3.71	4.45	(X)
Homestead	(X)	(X)	(X)	4.85
Building:				
Improved residential	3.65	5.04	8.50	1/ 4.75
Unimproved residential	4.66	5.04	8.50	(X)
Apartment	4.49	5.04	8.50	8.40
Hotel/resort	9.96	8.48	8.50	8.40
Commercial	9.25	6.89	8.50	8.40
Industrial	9.39	6.89	8.50	8.40
Agricultural	9.89	5.04	8.50	4.75
Conservation	9.25	5.04	8.50	4.75
Homeowner	(X)	3.71	4.45	(X)
Homestead	(X)	(X)	(X)	3.99

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, 1999-2000 Tax Year, State of Hawaii* (July 1999) and City and County of Honolulu, Department of Budget & Fiscal Services, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 2000-2001 Tax Year, State of Hawaii* (July 2000), http://www.co.honolulu.hi.us/rpa/staterpt.htm

Table 9.36-- FEDERAL EXPENDITURES IN HAWAII: 1986 TO 1999

[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
1986	4,647	1991	6,198	1996	7,990
1987	4,811	1992	6,636	1997	8,159
1988	5,065	1993	7,283	1998	8,442
1989	5,571	1994	7,644	1999	8,568
1990	5,634	1995	7,450		

Source: U.S. Bureau of the Census, *Consolidated Federal Funds, Fiscal Year by State* (annual report, 1986-1999) and <http://www.census.gov/govs/99cffr.pdf>.

Table 9.37-- FEDERAL EXPENDITURES IN HAWAII, BY TYPE: 1994 TO 1999

[In millions of dollars and percent. For fiscal years ended September 30]

Type of expenditure	1994	1995	1996	1997	1998	1999
All categories	7,644	7,450	7,990	8,159	8,442	8,568
Grants to State and local governments	1,192	1,083	1,105	1,137	1,190	1,335
Salaries and wages	2,498	2,310	2,409	2,330	2,557	2,436
Retirement and disability	1,970	2,043	2,139	2,262	2,348	2,430
Procurement	905	777	1,027	1,077	1,053	1,141
Other direct payments	1,077	1,235	1,311	1,352	1,293	1,226
Department of Defense	3,212	2,901	3,258	3,179	3,394	3,356
Other federal agencies	4,432	4,549	4,732	4,981	5,048	5,212

	Percentage change from year previous					
Type of expenditure	1994	1995	1996	1997	1998	1999
All categories	8.4	-2.5	7.2	2.1	3.5	1.5
Grants to State and local governments	21.1	-9.1	2.0	2.9	4.7	12.2
Salaries and wages	4.7	-7.5	4.3	-3.3	9.7	-4.7
Retirement and disability	-27.9	3.7	4.7	5.8	3.8	3.5
Procurement	21.8	-14.1	32.2	4.9	-2.2	8.4
Other direct payments	417.8	14.7	6.2	3.1	-4.4	-5.2
Department of Defense	9.7	-9.7	12.3	-2.4	6.8	-1.1
Other federal agencies	7.5	2.6	4.0	5.3	1.3	3.2

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report for Fiscal Year 1999* (April 14, 2000) tables 12 and 13, and <http://www.census.gov/govs/cffr.html>.

Table 9.38-- PER CAPITA DIRECT FEDERAL EXPENDITURES IN THE UNITED STATES AND HAWAII, BY TYPES: 1999

[For fiscal year ended September 30. Direct expenditures exclude federal assistance such as loans and insurance. Catagories have been modified]

Category	Per capita direct federal expenditures 1/			
	United States (dollars)	Hawaii (dollars)	Hawaii as percent of U.S.	Hawaii rank 2/
All categories	5,555.20	7,227.53	130.1	5
Retirement and disability	1,888.34	2,050.21	108.6	15
Other direct payments	1,184.47	1,033.88	87.3	32
Grants to State and local governments	1,062.29	1,125.75	106.0	16
Procurement	780.56	962.76	123.3	9
Salaries and wages	639.53	2,054.92	321.3	1
Department of Defense	856.58	2,830.72	330.5	2
All other Federal agencies	4,698.62	4,396.81	93.6	36

1/ Resident population as of July 1, 1999 provisional estimate for the United States: 277,200,866 and for Hawaii: 1,185,497 (source table 10). Hawaii has 0.4 percent of the United States resident population.

2/ A rank of 1 indicates the highest per capita direct federal expenditure. Rank among the 50 states. When the District of Columbia is included, Hawaii ranked sixth for the all-categories total.

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report for Fiscal Year 1999* (April 2000), tables 10 and 12, and <http://www.census.gov/govs/99cffr.pdf>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.39-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTY: 1999

[In thousands of dollars. For fiscal year ended September 30. Direct expenditures exclude federal assistance such as loans and insurance. Values less than $500 rounded to 0]

Area	Total	City and County of Honolulu	Hawaii County	Kauai County	Maui County	State undistri-buted
Population (July 1, 1999 estimate)	1,185,497	142,390	864,571	56,539	121,939	-
Direct expenditures or obligations	8,568,210	597,032	6,944,746	253,724	393,084	379,623
Defense	3,355,806	37,942	3,226,668	55,555	35,641	-
Non-defense	5,212,404	559,090	3,718,079	198,169	357,443	379,623
Retirement and disability payments -	2,430,521	281,575	1,861,343	99,734	181,403	6,465
Social Security	1,597,905	225,250	1,134,745	83,104	154,806	-
Federal	712,818	36,531	639,070	12,544	18,208	6,465
Veterans benefit payments	95,345	15,698	68,771	3,768	7,107	1/ -
All other	24,453	4,097	18,757	317	1,283	-
Other direct payments.	1,225,665	128,876	668,109	45,051	78,425	305,204
Other direct payments for individuals	1,103,265	127,779	650,683	44,707	75,710	204,385
Food Stamps	179,525	39,570	116,712	8,841	14,401	-
Medicare	658,347	78,287	486,316	34,614	58,559	571
Unemployment Compensation Benefits	130,414	-	-	-	-	130,414
Excess Earned Income Tax Credits	73,400	-	-	-	-	73,400
Lower Income Housing Assistance - Section 8 Moderate Rehabilitation	25,613	6,037	19,257	-	319	-
All other	35,966	3,886	28,397	1,251	2,431	-
Direct Payments Other Than For Individuals	122,399	1,096	17,426	344	2,715	100,818

Continued on next page.

Table 9.39-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTY: 1999 --Con.

Area	Total	City and County of Honolulu	Hawaii County	Kauai County	Maui County	State undistri-buted
Total grant awards	1,334,569	130,019	1,029,991	42,251	64,354	67,954
Highway Planning and Construction	106,032	14,263	71,231	6,094	11,349	3,095
Family Support Payments to States (AFDC+TANF)	99,626	18,033	70,135	3,986	7,472	-
Medical Assistance Program (Medicaid)	345,761	38,176	268,475	17,452	21,659	-
Other	783,149	59,547	620,150	14,719	23,874	64,860
Procurement contract awards	1,141,351	14,810	1,039,753	41,914	44,874	-
Defense	992,729	8,326	925,478	34,149	24,776	-
Non-defense	148,622	6,484	114,275	7,765	20,098	-
Salaries and wages	2,436,104	41,751	2,345,550	24,774	24,028	-
Defense	2,083,517	9,118	2,055,828	15,728	2,843	-
Non-defense	352,587	32,633	289,722	9,046	21,185	-
US Postal Service	154,568	12,170	125,129	5,050	12,220	-
Other	198,018	20,464	164,593	3,997	8,965	-
Other federal assistance	6,247,396	555,915	3,849,163	481,810	1,344,614	15,895
Direct loans	21,169	4,031	8,459	3,680	4,999	-
Guaranteed loans	792,848	97,144	587,930	19,143	88,631	-
Insurance	5,433,379	454,740	3,252,774	458,987	1,250,984	15,895

1/ In FY 1999, State undistributed veterans benefits were $192.

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report for Fiscal Year 1999* (April 2000) p. 38, <http://www.census.gov/govs/99cffr.pdf>, and <http://www.census.gov/govs/cffr/99cffhi.txt>.

Table 9.40 ADJUSTED FEDERAL EXPENDITURES PER DOLLAR OF TAXES, BY STATE: FISCAL YEARS 1989 AND 1999

[Expenditures calculated by Tax Foundation based on federal expenditure data from the U.S. Bureau of the Census. Federal tax revenue is derived from the individual income tax; social insurance taxes (Social Security and Medicare); corporate income tax; excise taxes (on beer, wine, tobacco, gasoline and other products); and estate and gift taxes; and customs duties. Rank of 1 indicates highest expenditure per tax dollar]

Area	Expenditures Per Dollar of Taxes			Ranking	
	1989	1999	Percent change 1989-99	1989	1999
Alabama	1.38	1.46	5.8	11	10
Alaska	1.31	1.57	19.8	16	6
Arizona	1.20	1.19	-0.8	21	19
Arkansas	1.38	1.39	0.7	10	12
California	0.90	0.88	-2.2	41	39
Colorado	1.20	0.90	-25.0	20	38
Connecticut	0.85	0.65	-23.5	43	50
Delaware	0.79	0.83	5.1	46	43
District of Columbia	5.52	6.71	21.6	-	-
Florida	0.95	1.01	6.3	34	31
Georgia	0.97	0.99	2.1	33	32
Hawaii	1.33	1.50	12.8	14	8
Idaho	1.41	1.19	-15.6	7	20
Illinois	0.73	0.73	0.0	48	46
Indiana	0.91	0.92	1.1	38	35
Iowa	1.14	1.15	0.9	24	22
Kansas	1.08	1.07	-0.9	26	25
Kentucky	1.24	1.35	8.9	18	14
Louisiana	1.33	1.36	2.3	13	13
Maine	1.05	1.31	24.8	28	15
Maryland	1.21	1.27	5.0	19	17
Massachusetts	1.03	0.86	-16.5	29	40
Michigan	0.77	0.82	6.5	47	44
Minnesota	0.91	0.79	-13.2	39	45
Mississippi	1.67	1.69	1.2	3	4
Missouri	1.38	1.22	-11.6	9	18
Montana	1.48	1.73	16.9	5	2
Nebraska	1.15	1.06	-7.8	23	27
Nevada	0.85	0.73	-14.1	44	47
New Hampshire	0.71	0.69	-2.8	49	48
New Jersey	0.64	0.65	1.6	50	49
New Mexico	2.07	1.97	-4.8	1	1
New York	0.82	0.85	3.7	45	41

Continued on next page.

Table 9.40 ADJUSTED FEDERAL EXPENDITURES PER DOLLAR OF TAXES, BY STATE: FISCAL YEARS 1989 AND 1999 - Con.

Area	Expenditures Per Dollar of Taxes			Ranking	
	1989	1999	Percent change 1989-99	1989	1999
North Carolina	0.93	1.03	10.8	36	30
North Dakota	1.73	1.65	-4.6	2	5
Ohio	0.99	0.93	-6.1	31	34
Oklahoma	1.27	1.43	12.6	17	11
Oregon	0.93	0.91	-2.2	37	37
Pennsylvania	0.94	1.05	11.7	35	29
Rhode Island	0.97	1.11	14.4	32	23
South Carolina	1.31	1.28	-2.3	15	16
South Dakota	1.56	1.47	-5.8	4	9
Tennessee	1.15	1.19	3.5	22	21
Texas	0.99	0.97	-2.0	30	33
Utah	1.45	1.06	-26.9	6	28
Vermont	0.89	1.07	20.2	42	24
Virginia	1.36	1.53	12.5	12	7
Washington	1.06	0.91	-14.2	27	36
West Virginia	1.39	1.72	23.7	8	3
Wisconsin	0.90	0.84	-6.7	40	42
Wyoming	1.12	1.06	-5.4	25	26

Source: Tax Foundation "Tax and Spending Policies Benefit Some States, Leave Others Footing the Bill", June 27, 2000 <http://www.taxfoundation.org/> and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 9.41-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1985 TO 1999

[In millions of dollars. As of December 31 unless otherwise noted]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
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	7,078.0	5,126.1	1,604.0	188.4	114.1	45.5
1996	7,098.6	5,051.3	1,669.8	194.3	143.5	39.8
1997 2/	6,997.1	5,013.2	1,616.2	190.8	139.0	37.8
1998 2/	7,831.8	5,814.0	1,635.9	225.6	120.4	35.9
1999 2/	7,712.3	5,540.3	1,785.7	236.6	114.1	35.7

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. Does not include anticipated issues.

Source: Tax Foundation of Hawaii, *Government in Hawaii*, table 52 (annual) and Tax Foundation of Hawaii unpublished compilations of Hawaii State Department of Accounting and General Services, *Annual Report of the Comptroller* (annual) and of the Finance Directors' Annual Reports of the City & County of Honolulu, and the counties of Hawaii, Kauai and Maui (various reports).

Table 9.42-- STATE GENERAL OBLIGATION BOND DEBT: 1990 TO 1999

[In thousands of dollars. As of June 30]

Year	Debt	Year	Debt
1990	2,026,100	1995	2,934,965
1991	2,274,846	1996	2,869,639
1992	2,328,546	1997	3,102,288
1993	2,767,691	1998	3,387,988
1994	2,872,488	1999	3,189,298

Source: Hawaii State Department of Accounting and General Services, *State of Hawaii, Comprehensive Annual Financial Report* , Schedule I-2, annual (fiscal years 1994-99) and records.

Table 9.43-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 1999

[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	24,716	61,082
1995	111,400	31,050	63,950	16,450	24,138	60,687
1996	110,550	31,100	62,800	16,600	23,338	59,275
1997	111,650	30,650	64,250	16,750	23,133	59,500
1998	112,200	30,400	64,950	16,850	23,627	60,447
1999	112,800	30,350	65,800	16,650	23,927	61,164

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

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

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1978), pp. 616-617; *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 9.44--STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION: MARCH 1998

[In number of jobs, hours and thousands of dollars]

Government Function	Employment			Payroll			Part-time hrs paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employ.	Part-time empl.	
Total	62,489	20,286	67,053	190,657	178,740	11,918	783,260
Financial Administration	1,530	13	1,533	4,426	4,419	7	764
Other Government Admin.	1,874	83	1,905	5,408	5,338	70	5,516
Judicial and Legal	2,707	70	2,728	8,889	8,816	73	3,584
Police Protection - Officers	2,717	-	2,717	11,181	11,181	-	-
Police - Other	775	214	817	2,289	2,218	71	7,614
Firefighters	1,585	-	1,585	6,220	6,220	-	-
Fire - Other	69	-	69	207	207	-	-
Correction	2,251	25	2,263	5,509	5,476	34	2,098
Streets and Highways	1,921	21	1,928	5,190	5,178	12	1,282
Airports	990	18	997	2,269	2,261	8	1,168
Water Trans. & Terminals	212	8	215	550	547	3	478
Welfare	1,007	5	1,009	2,562	2,557	4	388
Health	3,202	128	3,266	8,857	8,693	164	11,440
Hospitals	2,978	213	3,072	7,757	7,415	342	16,990
Social Ins. Admin. (State)	391	41	420	1,041	976	65	5,088
Solid Waste Management	602	1	602	1,765	1,765	-	46
Sewerage	899	2	900	2,920	2,919	1	152
Parks and Recreation	1,793	1,272	2,107	4,944	4,368	576	55,814
Hous. & Comm. Dev. (Loca	123	2	124	381	380	2	116
Natural Resources	1,089	367	1,233	3,820	3,427	392	25,676
Water Supply	1,056	25	1,065	3,288	3,272	16	1,644
Transit	44	-	44	92	92	-	-
Elem. and Sec: Instruction	16,985	6,244	18,271	50,597	46,685	3,912	213,510
Elem. and Sec: Other Total	4,299	4,325	5,273	10,039	8,321	1,718	161,640
Admin/Cler	1,637	65	1,654	3,948	3,917	31	2,786
Oper/Maint	1,273	2,215	1,819	2,887	1,980	906	90,644
Cafeteria	1,296	-	1,296	2,123	2,123	-	-
Health/Rec	69	235	233	734	272	462	27,174
Student	-	423	57	67	-	67	9,514
Unalloc	24	1,387	214	281	29	252	31,522
Higher Educ. - Instructional	2,104	1,325	2,393	11,279	9,956	1,324	51,068
Higher Educ. - Other	3,434	5,085	4,385	12,782	10,094	2,687	168,308
Other Education (State)	136	2	137	404	401	3	160
Local Libraries	494	230	562	1,275	1,158	118	11,312
Other and Unallocable	5,222	567	5,433	14,716	14,400	316	37,404

Source: U.S. Bureau of the Census, <http://www.census.gov/govs/apes/98stlall.wk1>, released August 12, 1999.

Table 9.45--STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION: MARCH 1999

[In number of jobs and thousands of dollars]

Government Function	Employment			Payroll			Part-time hours paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employees	Part-time employees	
Total	62,455	19,759	67,484	194,733	182,433	12,299	864,781
Financial Administration	1,399	12	1,402	4,271	4,262	9	7,014
Other Government Admin.	1,886	104	1,925	5,812	5,680	132	3,262
Judicial and Legal	2,748	69	2,766	8,869	8,795	74	-
Police Protection - Officers	2,688	-	2,688	11,524	11,524	-	6,840
Police - Other	774	190	813	2,278	2,216	62	-
Firefighters	1,603	-	1,603	6,117	6,117	-	32
Fire - Other	77	1	77	220	220	1	1,998
Correction	2,278	19	2,289	5,574	5,539	35	752
Streets and Highways	1,897	15	1,901	5,313	5,307	6	748
Airports	1,036	15	1,040	2,321	2,316	5	608
Water Trans. & Terminals	214	10	217	546	541	5	66
Welfare	890	1	890	2,301	2,301	1	10,732
Health	3,037	119	3,097	8,651	8,490	161	17,510
Hospitals	3,061	213	3,157	7,880	7,521	359	4,170
Social Ins. Admin. (State)	404	31	428	1,056	1,003	53	160
Solid Waste Management	579	1	580	1,707	1,705	2	152
Sewerage	784	2	785	2,425	2,424	1	44,472
Parks and Recreation	1,610	911	1,861	4,255	3,811	444	7,256
Hous. & Comm. Dev. (Local	242	65	283	787	731	56	29,589
Natural Resources	1,203	400	1,369	4,245	3,778	467	2,666
Water Supply	1,050	47	1,065	3,135	3,114	21	-
Transit	45	-	45	92	92	-	-

Continued on next page.

Table 9.45--STATE AND LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION: MARCH 1999 -- Con.

Government Function	Employment			Payroll			Part-time hours paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employees	Part-time employees	
Elem. and Secondary	21,825	10,521	24,187	64,662	58,980	5,682	392,042
Instruction	17,152	6,204	18,548	53,663	49,626	4,037	231,742
Other Total	4,673	4,317	5,639	10,999	9,354	1,645	160,300
Elem & Sec Admin/Cler	1,828	57	1,840	4,699	4,671	28	1,932
Elem & Sec Oper/Maint	1,356	2,083	1,904	2,824	2,048	777	91,042
Elem & Sec Cafeteria	1,362	-	1,362	2,269	2,269	-	-
Elem & Sec Bus Transit	-	-	-	-	-	-	-
Elem & Sec Health/Rec	79	283	224	807	297	510	24,026
Elem & Sec Student	-	481	70	69	-	69	11,580
Elem & Sec Unalloc	48	1,413	239	331	70	261	31,720
Higher Educ. - Instructional	2,023	1,315	2,313	11,234	9,849	1,385	51,314
Higher Educ. - Other	3,406	4,928	4,734	13,417	10,543	2,874	234,996
Other Education (State)	135	2	136	400	398	3	160
Local Libraries	494	236	551	1,264	1,140	123	9,498
Other and Unallocable	5,067	532	5,282	14,376	14,040	337	37,990

Source: U.S. Bureau of the Census, <http://www.census.gov/govs/apes/99stlall.wk1>, released August 4, 2000.

Table 9.46--STATE GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION:

[In number of jobs, hours and thousands of dollars]

Government Function	Employment			Payroll			Part-time hrs paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employ.	Part-time empl.	
Total	48,424	18,952	52,615	143,750	132,522	11,227	716,186
Financial Administration	756	5	757	2,131	2,129	2	306
Other Government Admin.	1,039	41	1,055	2,496	2,464	32	2,690
Judicial and Legal	2,147	53	2,162	6,845	6,783	62	2,516
Police Protection - Officers	-	-	-	-	-	-	-
Police - Other	-	-	-	-	-	-	-
Firefighters	-	-	-	-	-	-	-
Fire - Other	-	-	-	-	-	-	-
Correction	2,251	25	2,263	5,509	5,476	34	2,098
Streets and Highways	875	11	879	2,353	2,347	6	642
Airports	990	18	997	2,269	2,261	8	1,168
Water Trans. & Terminals	212	8	215	550	547	3	478
Welfare	908	4	910	2,347	2,344	4	308
Health	2,998	123	3,060	8,085	7,931	154	11,042
Hospitals	2,978	213	3,072	7,757	7,415	342	16,990
Social Ins. Admin. (State)	391	41	420	1,041	976	65	5,088
Solid Waste Management	-	-	-	-	-	-	-
Sewerage	-	-	-	-	-	-	-
Parks and Recreation	160	411	234	495	376	119	13,174
Hous. & Comm. Dev. (Loc	-	-	-	-	-	-	-
Natural Resources	1,080	364	1,224	3,783	3,393	389	25,502
Water Supply	-	-	-	-	-	-	-
Electric Power	-	-	-	-	-	-	-
Gas Supply	-	-	-	-	-	-	-
Transit	-	-	-	-	-	-	-
Elem. and Sec: Instruction	16,985	6,244	18,271	50,597	46,685	3,912	213,510
Elem. and Sec: Other Tota	4,299	4,325	5,273	10,039	8,321	1,718	161,640
Admin/Cler	1,637	65	1,654	3,948	3,917	31	2,786
Oper/Maint	1,273	2,215	1,819	2,887	1,980	906	90,644
Cafeteria	1,296	0	1,296	2,123	2,123	0	0
Elem & Sec Bus Transit	-	-	-	-	-	-	-
Health/Rec	69	235	233	734	272	462	27,174
Student	0	423	57	67	0	67	9,514
Unalloc	24	1,387	214	281	29	252	31,522
Higher Educ. - Instructiona	2,104	1,325	2,393	11,279	9,956	1,324	51,068
Higher Educ. - Other	3,434	5,085	4,385	12,782	10,094	2,687	168,308
Other Education (State)	136	2	137	404	401	3	160
Local Libraries	494	230	562	1,275	1,158	118	11,312
Other and Unallocable	4,187	424	4,346	11,712	11,466	246	28,186

Source: U.S. Bureau of the Census, <http://www.census.gov/govs/apes/98stall.wk1>, released August 12, 1999.

Table 9.47--STATE GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION: MARCH 1999

[In number of jobs, hours and thousands of dollars]

Government Function	Employment			Payroll			Part-time hrs paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employ.	Part-time empl.	
Total	48,722	18,462	53,363	148,344	136,720	11,624	795,666
Financial Administration	656	5	657	1,861	1,858	3	222
Other Government Admi	989	65	1,019	2,654	2,553	102	5,384
Judicial and Legal	2,210	65	2,227	6,748	6,675	73	3,044
Police Protection - Office	-	-	-	-	-	-	-
Police - Other	-	-	-	-	-	-	-
Firefighters	-	-	-	-	-	-	-
Fire - Other	-	-	-	-	-	-	-
Correction	2,278	19	2,289	5,574	5,539	35	1,998
Streets and Highways	899	14	903	2,416	2,410	6	706
Airports	1,036	15	1,040	2,321	2,316	5	748
Water Trans. & Terminal	214	10	217	546	541	5	608
Welfare	787	-	787	2,073	2,073	-	-
Health	2,838	117	2,898	7,928	7,768	160	10,668
Hospitals	3,061	213	3,157	7,880	7,521	359	17,510
Social Ins. Admin. (State	404	31	428	1,056	1,003	53	4,170
Solid Waste Managemer	-	-	-	-	-	-	-
Sewerage	-	-	-	-	-	-	-
Parks and Recreation	153	124	186	411	354	57	5,908
Hous. & Comm. Dev. (Lc	-	-	-	-	-	-	-
Natural Resources	1,068	360	1,218	3,836	3,410	427	26,586
Water Supply	-	-	-	-	-	-	-
Electric Power	-	-	-	-	-	-	-
Gas Supply	-	-	-	-	-	-	-
Transit	-	-	-	-	-	-	-
Elem. and Sec: Instructic	17,152	6,204	18,548	53,663	49,626	4,037	231,742
Elem. and Sec: Other To	4,673	4,317	5,639	10,999	9,354	1,645	160,300
Admin/Cler	1,828	57	1,840	4,699	4,671	28	1,932
Oper/Maint	1,356	2,083	1,904	2,824	2,048	777	91,042
Cafeteria	1,362	-	1,362	2,269	2,269	-	-
Elem & Sec Bus Transi	-	-	-	-	-	-	-
Health/Rec	79	283	224	807	297	510	24,026
Student	-	481	70	69	-	69	11,580
Unalloc	48	1,413	239	331	70	261	31,720
Higher Educ. - Instructior	2,023	1,315	2,313	11,234	9,849	1,385	51,314
Higher Educ. - Other	3,406	4,928	4,734	13,417	10,543	2,874	234,996
Other Education (State)	135	2	136	400	398	3	160
Local Libraries	489	236	546	1,248	1,125	123	9,498
Other and Unallocable	4,251	422	4,421	12,077	11,805	272	30,104

Source: U.S. Bureau of the Census, <http://www.census.gov/govs/apes/99stall.wk1>, released August 4, 2000.

Table 9.48--LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION:

[In number of jobs, hours and thousands of dollars]

Government Function	Employment			Payroll			Part-time hrs paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employ.	Part-time empl.	
Total	14,065	1,334	14,438	46,908	46,217	690	67,074
Financial Administration	774	8	776	2,295	2,290	5	458
Other Government Admin.	835	42	850	2,912	2,874	38	2,826
Judicial and Legal	560	17	566	2,043	2,033	11	1,068
Police Protection - Officers	2,717	-	2,717	11,181	11,181	-	-
Police - Other	775	214	817	2,289	2,218	71	7,614
Firefighters	1,585	-	1,585	6,220	6,220	-	-
Fire - Other	69	-	69	207	207	-	-
Correction	-	-	-	-	-	-	-
Streets and Highways	1,046	10	1,049	2,837	2,831	6	640
Airports	-	-	-	-	-	-	-
Water Trans. & Terminals	-	-	-	-	-	-	-
Welfare	99	1	99	215	214	1	80
Health	204	5	206	772	762	10	398
Hospitals	-	-	-	-	-	-	-
Social Ins. Admin. (State)	-	-	-	-	-	-	-
Solid Waste Management	602	1	602	1,765	1,765	0	46
Sewerage	899	2	900	2,920	2,919	1	152
Parks and Recreation	1,633	861	1,873	4,448	3,992	456	42,640
Hous. & Comm. Dev. (Loc	123	2	124	381	380	2	116
Natural Resources	9	3	9	37	34	3	174
Water Supply	1,056	25	1,065	3,288	3,272	16	1,644
Transit	44	-	44	92	92	-	-
Elem. and Sec: Instruction	-	-	-	-	-	-	-
Elem. and Sec: Other Tota	-	-	-	-	-	-	-
Admin/Cler	-	-	-	-	-	-	-
Oper/Maint	-	-	-	-	-	-	-
Cafeteria	-	-	-	-	-	-	-
Health/Rec	-	-	-	-	-	-	-
Student	-	-	-	-	-	-	-
Unalloc	-	-	-	-	-	-	-
Higher Educ. - Instructiona	-	-	-	-	-	-	-
Higher Educ. - Other	-	-	-	-	-	-	-
Other Education (State)	-	-	-	-	-	-	-
Local Libraries	-	-	-	-	-	-	-
Other and Unallocable	1,035	143	1,087	3,004	2,934	70	9,218

Source: U.S. Bureau of the Census, <http://www.census.gov/govs/apes/98locall.wk1>, released August 12, 1999.

Table 9.49--LOCAL GOVERNMENT EMPLOYMENT AND PAYROLLS, BY FUNCTION:MARCH 1999

[In number of jobs, hours and thousands of dollars]

Government Function	Employment			Payroll			Part-time hrs paid (March)
	Full-time	Part-time	Full-time equiv.	Total March	Full-time employ.	Part-time empl.	
Total	13,733	1,297	14,121	46,389	45,713	676	69,115
Financial Administration	743	7	745	2,410	2,404	6	532
Other Government Admi	897	39	906	3,158	3,127	31	1,630
Judicial and Legal	538	4	539	2,121	2,120	1	218
Police Protection - Office	2,688	-	2,688	11,524	11,524	-	-
Police - Other	774	190	813	2,278	2,216	62	6,840
Firefighters	1,603	-	1,603	6,117	6,117	-	-
Fire - Other	77	1	77	220	220	1	32
Correction	-	-	-	-	-	-	-
Streets and Highways	998	1	998	2,897	2,897	-	46
Airports	-	-	-	-	-	-	-
Water Trans. & Terminal	-	-	-	-	-	-	-
Welfare	103	1	103	228	228	1	66
Health	199	2	199	722	721	1	64
Hospitals	-	-	-	-	-	-	-
Social Ins. Admin. (State	-	-	-	-	-	-	-
Solid Waste Managemer	579	1	580	1,707	1,705	2	160
Sewerage	784	2	785	2,425	2,424	1	152
Parks and Recreation	1,457	787	1,675	3,845	3,457	388	38,564
Hous. & Comm. Dev. (Lo	242	65	283	787	731	56	7,256
Natural Resources	135	40	151	408	368	40	3,003
Water Supply	1,050	47	1,065	3,135	3,114	21	2,666
Transit	45	-	45	92	92	-	-
Elem. and Sec: Instructio	-	-	-	-	-	-	-
Elem. and Sec: Other To	-	-	-	-	-	-	-
Admin/Cler	-	-	-	-	-	-	-
Oper/Maint	-	-	-	-	-	-	-
Cafeteria	-	-	-	-	-	-	-
Health/Rec	-	-	-	-	-	-	-
Student	-	-	-	-	-	-	-
Unalloc	-	-	-	-	-	-	-
Higher Educ. - Instructior	-	-	-	-	-	-	-
Higher Educ. - Other	-	-	-	-	-	-	-
Other Education (State)	-	-	-	-	-	-	-
Local Libraries	5	-	5	15	15	-	-
Other and Unallocable	816	110	861	2,299	2,235	65	7,886

Source: U.S. Bureau of the Census, <http://www.census.gov/govs/apes/99locall.wk1>, released August 4, 2000.

Table 9.50-- FULL-TIME EQUIVALENT CIVIL SERVICE AND EXEMPT EMPLOYMENT, BY DEPARTMENT, IN THE HAWAII STATE EXECUTIVE BRANCH: 1994 TO 1999

[As of December 31. In number of employees]

Department	1994	1995	1996	1997	1998	1999
Total 1/	45,604.035	42,724.379	42,638.339	43,239.136	43,505.538	44,131.992
Accounting & Gen. Services	910.000	816.500	804.000	992.500	990.500	997.500
Agriculture	454.750	366.000	350.600	356.750	345.000	324.000
Attorney General	558.462	523.250	529.500	555.975	555.000	576.276
Budget and Finance	711.500	601.500	579.000	382.500	313.000	308.000
Busi., Econ Dev & Tourism	317.250	249.640	266.500	260.990	607.000	585.125
Commerce & Consumer Aff.	439.250	380.000	407.200	409.200	412.100	402.500
Defense	248.100	236.000	245.500	245.675	228.000	228.900
Education	17,846.425	17,671.110	17,804.878	18,194.987	18,502.012	19,263.578
Governor	225.612	152.990	69.490	70.990	66.780	66.490
Hawaiian Home Lands	138.000	121.000	134.600	132.600	130.900	129.600
Health	6,537.390	6,177.400	6,216.550	6,199.700	6,104.300	5,877.750
Human Resources Devel.	166.050	141.000	134.000	125.000	119.000	117.000
Human Services	2,390.975	2,210.600	2,251.975	2,229.475	1,943.450	1,947.450
Labor & Industrial Relations	930.235	776.305	754.715	753.575	747.220	749.270
Land & Natural Resources	806.570	711.460	719.270	730.390	723.870	733.370
Lieutenant Governor	67.500	37.000	52.977	38.495	44.995	26.710
Public Safety	2,218.050	1,987.800	1,976.275	2,079.975	2,116.500	2,220.500
Taxation	409.750	359.000	358.000	361.500	337.000	331.500
Transportation	2,427.500	2,235.350	2,243.650	2,330.950	2,409.750	2,447.250
University of Hawaii	7,800.666	6,970.474	6,739.659	6,787.909	6,809.161	6,799.223

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 9.51-- EMPLOYMENT, BY TYPE, IN THE HAWAII STATE EXECUTIVE BRANCH: DECEMBER 31, 1999

Department	Civil Service and Exempt						Paid casual employees 2/
	Employees 1/	Full time	Part time	Full-time equivalent (FTE)	FTE change since Dec. 31, 1994	FTE % change since Dec. 31, 1994	
Total	46,700	41,742	4,958	44,131.992	-1,472.043	-3.2	17,842
Accounting & General Services	1,001	994	7	997.500	87.500	9.6	290
Agriculture	330	321	9	324.000	-130.750	-28.8	0
Attorney General	579	573	6	576.276	17.814	3.2	13
Budget and Finance	310	306	4	308.000	-403.500	-56.7	2
Business, Econ Dev. & Tourism	586	584	2	585.125	267.875	84.4	23
Commerce & Consumer Affairs	403	402	1	402.500	-36.750	-8.4	11
Defense	231	227	4	228.900	-19.200	-7.7	0
Education	20,386	18,007	2,379	19,263.578	1,417.153	7.9	12,279
Governor	68	65	3	66.490	-159.122	-70.5	0
Hawaiian Home Lands	130	129	1	129.600	-8.400	-6.1	5
Health	6,033	5,733	300	5,877.750	-659.640	-10.1	53
Human Resources Dev.	117	117	0	117.000	-49.050	-29.5	1
Human Services	1,952	1,943	9	1,947.450	-443.525	-18.5	47
Labor and Industrial Relations	772	724	48	749.270	-180.965	-19.5	107
Land and Natural Resources	737	729	8	733.370	-73.200	-9.1	17
Lieutenant Governor	29	25	4	26.710	-40.790	-60.4	0
Public Safety	2,225	2,216	9	2,220.500	2.450	0.1	2
Taxation	332	331	1	331.500	-78.250	-19.1	0
Transportation	2,452	2,439	13	2,447.250	19.750	0.8	50
University of Hawaii	8,027	5,877	2,150	6,799.223	-1,001.443	-12.8	4,942

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, 1999".

Table 9.52-- PUBLIC EMPLOYEES INCLUDED IN COLLECTIVE BARGAINING UNITS: 1999

[As of December 31, 1999, unless otherwise indicated]

Bargaining 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/	Judiciary	University of Hawaii
		Total	54,778	23,484	7,995	1,815	1,632	875	13,113	1,434	4,430
1	UPW	Blue-collar nonsupervisors	8,752	5,500	1,969	439	469	321	-	54	-
2	HGEA	Blue-collar supervisors	853	503	247	45	40	15	-	3	-
3	HGEA	White-collar nonsupervisors	12,222	8,573	1,673	500	451	190	-	835	-
4	UPW	White-collar supervisors	599	332	147	28	26	12	-	54	-
5	HSTA	Hawaii State Teachers Assn.	12,383	-	-	-	-	-	12,383	-	-
6	HGEA	Educational officers	730	-	-	-	-	-	730	-	-
7	UHPA	University of Hawaii faculty	3,140	-	-	-	-	-	-	-	3,140
8	HGEA	Admin. & prof. technicians	1,290	-	-	-	-	-	-	-	1,290
9	HGEA	Registered prof. nurses	1,138	1,137	-	-	-	-	-	1	-
10	UPW	Institutional health & corrections workers	2,610	2,389	187	-	-	-	-	34	-
11	HFFA	Firefighters	1,692	145	953	262	214	118	-	-	-
12	SHOPO	Police officers	2,601	-	1,848	351	277	125	-	-	-
13	HGEA	Prof. & scientific workers	6,768	4,905	971	190	155	94	-	453	-

1/ As of January 19, 2000.

Source: State of Hawaii Labor Relations Board, *HLRB Informational Bulletin* No. 37, February 23, 2000.

Table 9.53-- SALARIES OF SELECTED GOVERNMENT OFFICIALS: 1995 TO 2000

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

Government official	1995	1996	1997	1998	1999	2000
Governor	94,780	94,780	94,780	94,780	94,780	94,780
Lieutenant Governor	90,041	90,041	90,041	90,041	90,041	90,041
Mayor, Honolulu 1/	100,000	100,000	100,000	102,000	102,000	110,000
Mayor, Hawaii 2/	78,564	78,564	78,564	78,564	78,564	78,564
Mayor, Maui	87,098	87,098	87,098	87,098	87,098	89,712
Mayor, Kauai 3/	73,118	73,118	73,118	73,118	73,118	73,118
Chief Justice, Supreme Court 4/	94,780	94,780	94,780	94,780	94,780	116,779
Assoc. Justice, Supreme Court 4/	93,780	93,780	93,780	93,780	93,780	115,547
President, University of Hawaii 5/	153,000	156,060	156,060	156,060	167,184	167,184

1/ July 1, 1997, increased from $100,000 to $102,000, and to $110,000 effective July 1, 2000.

2/ July 1, 1993, increased from $76,848 to $78,564.

3/ Data for 1997 to 1999 corrected. The Salary Commission recommended an increase from $73,118 to $76,408 effective July 1, 1996, but this was not approved.

4/ On February 16, 2000, Governor Benjamin J. Cayetano signed a bill that rectifies a measure passed by the 1999 Legislature of 4 percent over two years. The increase is retroactive to July 1, 1999.

5/ Reported salary under the contract due to expire June 30, 2003. Contract reportedly includes use of residence at College Hill and of a car. Contract and salary specifics preliminary pending confirmation.

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

Section Narrative	
10.01	Hawaii Residents on Active Duty with the U.S. Armed Forces Worldwide: 1950 to 1995
10.02	Military Personnel, Dependents, and Families: 1980 to 1998
10.03	Military Personnel, Dependents, and Families, by Service and Island: July 1, 1999 and 2000
10.04	Department of Defense Personnel and Dependents: 1989 to 1999
10.05	Department of Defense Personnel and Dependents, by Service: September 30, 1998 and 1999
10.06	Department of Defense Personnel, Military and Civilian, by Selected Locations: September 30, 1999
10.07	Federal Defense Expenditures on Hawaii Gross State Product and Employment: 1985 to 1999
10.08	Federal Expenditures for Army and Air National Guard for Hawaii: 1998 and 1999
10.09	National Guard Strength: 1980 to 1999
10.10	Civilian Employment in the Air Force, Army, and Navy: Annual Averages, 1990 to 1999
10.11	Military Accessions in Hawaii, by Branch of Service: 1978 to 1997
10.12	Selective Service Registration in Hawaii: 1999
10.13	Military Procurement Awards, by Defense Component: 1995 to 1999
10.14	Military Prime Contract Awards, By County: 1999
10.15	Military Subcontracting Program: 1998
10.16	Nuclear Weapons: 1985, 1992, and 1998
10.17	Acreage Owned or Controlled by the U.S. Department of Defense, by Branch of Service and by Islands: 1992
10.18	Military Installations by Branch of Service in the United States and Hawaii: September 30, 1995
10.19	Military Installations by Branch of Service, Acreage, Personnel, and Classification: September 30, 1995
10.20	Housing Units Owned by the Armed Forces, by Service and Geographic Area: April 1, 1995 to 1998

10.21	Veteran Status of Civilians 16 Years and Over: 1970 to 1998		
10.22	War Casualties of Hawaii Residents in the Armed Forces: 1914 to 1998		
10.23	Military Personnel Receiving Retired Pay from the Department of Defense: September 30, 1999		

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard expenditures and strength, civilian employment in national defense, veterans, land controlled by the U.S. Department of Defense (DOD), military housing, and expenditures by the armed forces. Additional information appears in sections 1, 2, 9, 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 DOD, U.S. Census Bureau, U.S. Department of Veterans Affairs, the Hawaii State Department of Labor and Industrial Relations and the Hawaii State 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. *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: 1999* 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 1998

[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 2/	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 3/	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
1997: July 1 4/	97,344	41,769	38,884	2,885	55,575	22,996
1998: July 1 5/	101,311	40,773	37,761	3,012	60,538	24,965

1/ Beginning in 1982, ship crews living ashore are included with the total ashore.
2/ Air Force and Marine Corps data for 1993 partly estimated.
3/ Coast Guard and Marine Corps data for 1995 partly estimated.
4/ Coast Guard and Marine Corps data for 1997 estimated.
5/ Air Force and Army data for 1998 partly estimated.

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

Table 10.03-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1999 AND 2000

[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			
1999							
State total	78,812	34,462	22,726	11,575	5,926	44,350	25,678
By island:							
Oahu	78,383	34,288	22,597	11,536	5,920	44,095	25,567
Hawaii	102	42	31	5	6	60	23
Maui	65	26	22	4	-	39	13
Kauai	262	106	76	30	-	156	75
By service:							
Air Force: 1/	10,318	3,866	3,129	737	-	6,452	2,814
Army: 2/	30,715	15,790	11,191	4,599	-	14,925	9,667
Coast Guard:	2,786	1,255	1,060	91	104	1,531	781
Marine Corps: 3/	11,927	6,213	2,577	3,636	-	5,714	2,722
Navy: 3/	23,066	4/ 7,338	4,769	2,512	5,822	15,728	9,694
2000							
State total	78,346	35,813	23,241	12,642	6,394	42,533	23,034
By island:							
Oahu	77,918	35,637	23,109	12,598	6,394	42,281	22,922
Hawaii	104	44	33	11	-	60	24
Maui	63	25	22	3	-	38	14
Kauai	261	107	77	30	-	154	74
By service:							
Air Force: 1/	10,835	4,492	3,708	784	-	6,343	2,745
Army: 2/	29,743	15,474	10,829	4,645	-	14,269	9,455
Coast Guard: 3/	2,491	1,091	891	96	104	1,400	610
Marine Corps: 3/	12,117	7,115	3,106	4,009	-	5,002	2,287
Navy: 3/	23,160	4/ 7,641	4,707	3,108	6,290	15,519	7,937

1/ Estimated. Not included are 15 Air Force personnel living in housing units on Johnston Atoll.

2/ Estimated. Also, no new information was available for the island of Hawaii so the 1998 figures were used as an estimate. In 1998, there were 263 Army personnel living in barracks on Johnston Island (which includes Kwajalein, Pago Pago and Alaska) and 64 Army personnel stationed in Hawaii and living in housing units, but with duty locations in Guam or foreign countries. These Army personnel are not included in the annual tables shown above and the figures for 1998 are listed in this footnote because no new information was available for 1999.

3/ Estimated.

4/ The total number of navy military personnel is not sum to the total of personnel living in housing units, in barracks and aboard ship. This is because navy personnel assigned to ships on a specified date may also have another place to live elsewhere in Hawaii. Therefore, they may be counted more than once in the type of residence columns.

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

Table 10.04-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS: 1989 TO 1999

[As of September 30. Includes personnel performing Civil Functions, primarily those associated with the Army Corps of Engineers. Excludes Coast Guard]

Year	Total	Active-duty shore-based military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel
1989	120,905	45,935	54,724	20,246
1990	113,471	41,887	51,727	19,857
1991	113,076	44,092	50,006	18,978
1992	110,428	44,864	47,671	17,893
1993	105,911	42,958	45,612	17,341
1994	99,188	42,161	39,989	17,038
1995	114,139	38,172	58,788	17,179
1996	111,002	36,392	57,786	16,824
1997	109,762	34,826	57,720	17,216
1998	104,018	34,643	52,643	16,732
1999	100,084	32,708	51,063	16,313

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.

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/mmid/mo1/fy96>; for 1997 <http://web1.whs.osd.mil/mmid/m02/97city.htm>, June 8, 1998. For 1998: *Worldwide Manpower Distribution by Geographical Area, September 30, 1998* (p. 1) and <http://web1.whs.osd.mil/mmid/m05sep98.pdf>. For 1999: *Worldwide Manpower Distribution by Geographical Area, September 30, 1999* (p. 1) and <http://web1.whs.osd.mil/mmid/m05sep99.pdf>.

Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND MILITARY DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1998 AND 1999

[As of September 30. Includes personnel performing Civil Functions, primarily those associated with the Army Corps of Engineers. Excludes Coast Guard. 1998 data have been disaggregated]

Category	All services	Army	Navy	Air Force	Marine Corps	Other DOD
1998						
Total	104,018	44,311	34,131	12,408	12,101	1,067
Total military and dependents	87,286	39,874	24,894	10,417	12,101	(NA)
Military personnel 1/	34,643	15,133	7,882	4,547	7,081	(NA)
Dependents 2/	52,643	24,741	17,012	5,870	5,020	(NA)
Command-sponsored	49,447	24,741	15,127	5,769	3,810	(NA)
Non-command-sponsored	3,196	-	1,885	101	1,210	(NA)
Direct-hire civilians 3/	16,732	4,437	9,237	1,991	(NA)	1,067
1999						
Total	100,084	42,749	32,311	12,759	11,135	1,130
Total military and dependents	83,771	38,456	23,447	10,733	11,135	(NA)
Military personnel 1/	32,708	14,692	7,397	4,483	6,136	(NA)
Dependents 2/	51,063	23,764	16,050	6,250	4,999	(NA)
Command-sponsored	48,344	23,764	14,753	6,164	3,663	(NA)
Non-command-sponsored	2,719	-	1,297	86	1,336	(NA)
Direct-hire civilians 3/	16,313	4,293	8,864	2,026	(NA)	1,130

NA Not available.

1/ Active duty. Data exclude personnel afloat or temporary shore-based.

2/ Dependents of active-duty military personnel. Command-sponsorship depends upon whether the dependent resides with the member at the duty station, whether the accompanied tour is authorized and meets criteria for funded travel and station allowance.

3/ Source data includes Marine Corps with Navy. 1998 Navy data includes 1 foreign national direct hire.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Worldwide Manpower Distribution by Geographical Area, September 30, 1998* (pp. 1, 27, 31, 34, and 41) and <http://web1.whs.osd.mil/mmid/m05sep98.pdf>. For 1999: *Worldwide Manpower Distribution by Geographical Area, September 30, 1999* (pp. 1, 8, 18, 20, 22, 24, 28, 32, 36, 40, and 44-45; and <http://web1.whs.osd.mil/mmid/m05sep99.pdf>.

Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SELECTED LOCATIONS: SEPTEMBER 30, 1999

Installation or geographic area	Total DOD	Military personnel 1/	Civilian personnel 2/
State total	48,672	32,354	16,318
Aiea	464	245	219
Barbers Point NAS	557	299	258
Camp H.M. Smith	919	829	90
Ford Island	384	128	256
Fort Shafter	2,529	1,207	1,322
Hickam AFB	5,358	3,446	1,912
Honolulu	472	267	205
Kaneohe	6,846	6,244	602
Kunia	2,026	1,959	67
Lualualei	315	110	205
Pearl Harbor	12,291	4,696	7,595
Schofield Barracks	11,691	10,587	1,104
Tripler Army Med Ctr	1,986	778	1,208
Wahiawa	546	406	140
Wheeler AFB/Army Fld	1,519	958	561
Kauai Island	540	109	431
Other	229	86	143

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/mmid/m02/fy99/99city.htm>.

Table 10.07-- FEDERAL DEFENSE EXPENDITURES ON HAWAII GROSS STATE PRODUCT AND EMPLOYMENT: 1985 TO 1999

[In millions of dollars unless otherwise indicated]

Year	Gross State Product (GSP) 1/	Federal Defense				
		Expenditures			Employment	
		Total 1/	Percent change from year previous	As percent of GSP 2/	Civilian jobs	Armed forces 3/
1985	18,664.2	3,111.6	17.3	14.7	20,750	56,383
1986	19,850.0	3,098.6	-0.4	13.8	20,400	58,122
1987	21,563.1	3,077.6	-0.7	12.6	20,100	58,122
1988	23,916.6	3,188.4	3.6	11.8	20,200	56,815
1989	26,447.0	3,295.9	3.4	11.0	20,100	56,360
1990	29,091.2	3,346.2	1.5	10.2	19,350	55,222
1991	30,730.0	3,648.2	9.0	10.5	18,850	54,738
1992	32,505.2	3,837.4	5.2	10.4	18,100	55,099
1993	33,532.1	3,759.6	-2.0	9.9	17,450	52,674
1994	34,354.6	3,876.8	3.1	10.0	16,850	52,845
1995	34,526.4	3,782.5	-2.4	9.7	16,750	50,729
1996	34,893.5	3,883.5	2.7	9.8	16,800	47,986
1997	35,871.1	4,074.9	4.9	10.0	16,300	44,542
1998	36,537.6	4,103.7	0.7	9.9	16,050	44,984
1999	37,807.9	4,174.2	1.7	9.8	15,750	41,361

1/ Data for 1985 through 1998 have been revised.

2/ Expenditures adjusted for imports before dividing by GSP.

3/ 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: 1998 AND 1999

[In dollars. Fiscal year ended September 30]

Category	1998		1999	
	Army	Air	Army	Air
Total Federal support for National Guard in Hawaii	62,114,696	90,481,934	70,991,712	127,321,884
Total Funds allotted by National Guard to Hawaii	44,431,767	70,700,899	55,668,405	86,801,786
National Guard Personnel Appropriation	9,320,398	1,498,488	14,644,570	1,563,315
Military pay, transportation, and subsistence	8,433,186	1,040,985	13,863,825	1,200,902
Military uniform	579,530	355,779	452,392	199,368
Subsistence	307,682	101,724	328,353	163,045
Oper. and maint., military constr. approp. - Army	32,745,755	69,202,411	41,023,835	85,238,471
Civilian pay	14,956,832	39,611,797	15,899,651	41,090,545
Transportation and travel	1,275,763	633,352	4,319,055	1,328,988
Personnel	336,511	597,410	329,621	1,277,173
Equipment and supplies	939,252	35,942	3,989,434	51,815
Equipment, supplies and service	5,534,372	28,957,262	9,533,014	42,818,938
Organizational equipment	701,377	656,630	1,105,660	602,547
Petroleum, oils and lubricants	348,341	(NA)	539,377	(NA)
Repair parts and services	1,938,084	(NA)	3,760,807	(NA)
Other operating supplies and services	2,546,570	(NA)	4,127,170	(NA)
Supplies	(NA)	4,524,488	(NA)	4,302,743
Depot level repairables	(NA)	12,249,912	(NA)	22,822,651
Aviation fuel	(NA)	0	(NA)	0
Other operating supplies and services	(NA)	1,663,648	(NA)	1,851,714
Construction repairs	(NA)	9,862,584	(NA)	13,239,283
Major construction	(NA)	7,254,127	(NA)	10,895,657
Major construction/major repairs	(NA)	1,177,548	(NA)	801,714
Operations and maintenance agreements	(NA)	1,430,909	(NA)	1,541,912
Construction, repairs, and utilities	10,978,788	(NA)	11,272,115	(NA)
Armory construction	4,305,704	(NA)	0	(NA)
Architectural and engineering services	249,397	(NA)	2,554,857	(NA)
Non-armory construction	2,102,843	(NA)	6,407,740	(NA)
Maintenance, repairs, and minor construction	4,154,779	(NA)	1,874,918	(NA)
Utilities	166,065	(NA)	434,600	(NA)
Oper. & maint. Def. Approp.-Army Youth ChalleNGe	2,365,614	(NA)	1,896,667	(NA)
Total Funded directly by National Guard Bureau	17,682,929	19,781,035	17,781,426	20,260,049
Army drill pay	7,163,508	(NA)	7,009,256	(NA)
AGR pay	10,519,421	(NA)	10,772,170	(NA)
Annual training pay	(NA)	2,287,224	(NA)	2,790,160
Other active duty pay	(NA)	2,321,827	(NA)	2,439,169
Inactive duty training pay	(NA)	6,720,394	(NA)	6,941,830
Basic training pay	(NA)	803,083	(NA)	841,498
Active Guard Reserve pay	(NA)	7,256,542	(NA)	7,247,394

NA Not available.

Source: Hawaii Department of Defense, *Annual Report Fiscal Year 1998*, p. 48; and *1999*, p. 49.

Table 10.09-- NATIONAL GUARD STRENGTH: 1980 TO 1999

[Strength as of September 30]

Year	Actual strength			Authorized strength		
	Total	Army National Guard	Air National Guard	Total	Army National Guard	Air National Guard
1980	5,378	3,468	1,910	6,090	4,053	2,037
1981	5,338	3,395	1,943	6,216	4,181	2,035
1982	5,720	3,698	2,022	6,238	4,201	2,037
1983	5,799	3,768	2,031	6,127	4,012	2,115
1984	5,866	3,793	2,073	6,207	3,992	2,215
1985	6,096	3,869	2,227	6,227	4,005	2,222
1986	5,882	3,685	2,197	6,250	4,016	2,234
1987	5,848	3,654	2,194	6,517	4,237	2,280
1988	5,832	3,658	2,174	6,461	4,160	2,301
1989	5,810	3,641	2,169	6,505	4,154	2,351
1990	5,702	3,579	2,123	6,469	4,237	2,232
1991	5,635	3,547	2,088	6,473	4,252	2,221
1992	5,665	3,500	2,165	6,480	4,258	2,222
1993	5,689	3,430	2,259	6,490	4,056	2,434
1994	5,689	3,430	2,259	6,490	4,056	2,434
1995	6,078	3,744	2,334	7,061	4,462	2,599
1996	5,381	2,995	2,386	6,025	3,564	2,461
1997	5,511	3,120	2,391	6,047	3,543	2,504
1998	5,475	3,053	2,422	6,047	3,543	2,504
1999	5,475	3,053	2,422	6,047	3,543	2,504

Source: Hawaii State Department of Defense, *Annual Report Fiscal Year* (annual).

Table 10.10-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1990 TO 1999

Year	Total	Air Force	Army	Navy
1990	19,350	2,300	5,600	11,450
1991	18,850	2,250	5,400	11,200
1992	18,100	2,200	4,800	11,100
1993	17,450	2,150	4,600	10,700
1994	16,850	2,000	4,600	10,250
1995	16,750	2,100	4,450	10,200
1996	16,800	2,100	4,850	9,850
1997	16,300	2,050	5,000	9,250
1998	16,050	2,050	4,900	9,100
1999	15,750	2,050	4,700	9,000

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book,* May 1997, p. 11; <http://www.state.hi.us/dlir/loihi/LFR/cst1998b.txt>; <http://www.state.hi.us/dlir/loihi/LFR/cst1999.txt>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 10.11-- MILITARY ACCESSIONS IN HAWAII, BY BRANCH OF SERVICE: 1978 TO 1997

[In fiscal year October 1 to September 30. Includes prior service accessions]

Year	Total accessions	Army	Navy	Air Force	Marine Corps
1978	1,751	748	336	520	147
1979	1,648	660	334	482	172
1980	1,518	712	317	364	125
1981	1,451	603	317	427	104
1982	1,183	550	195	363	75
1983	1,098	563	154	313	68
1984	1,296	644	243	308	101
1985	1,268	597	250	349	72
1986	1,341	554	305	387	95
1987	1,125	497	272	268	88
1988	907	397	246	180	84
1989	833	387	201	145	100
1990	578	220	186	108	64
1991	455	158	126	110	61
1992	421	124	121	123	53
1993	394	137	113	114	30
1994	338	124	80	93	41
1995	347	135	112	78	22
1996	516	198	108	154	56
1997	733	293	146	224	70

Source: U.S. Department of Defense, Defense Manpower Data Center (DMDC), DMDC Data Archive Request <http://www.dmdc.osd.mil/ids/archive/accession.html>, accessed August 3, 1999.

Table 10.12-- SELECTIVE SERVICE REGISTRATION IN HAWAII: 1999

[Percentage of eligible young men born in 1980 registered through calendar year. Rank is among the 50 states. Rank of 1 has the highest percentage of eligible men registered]

Area	United States Average	Hawaii
Percent registered 1/	88	73
Rank	…	50

1/ Hawaii is not among the 26 states that have enacted legislation supporting registration.

Source: Selective Service System, *Annual Report to Congress for Fiscal Year 1999*, <http://www.sss.gov/public.html> and <http://www.sss.gov/newsconf17may/main.html> accessed May 19, 2000.

Table 10.13-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1995 TO 1999

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

Procurement program 1/	1995	1996	1997	1998	1999
Total	673,640	928,480	957,353	889,607	984,848
Airframes and spares	-	39	581	877	-
Aircraft engines and spares	-	89	-	-	-
Other aircraft equipment	34	67	-	831	-
Missile and space systems	20,452	6,088	9,694	7,843	6,901
Ships	23,789	18,140	18,394	7,692	24,880
Non-combat vehicles	-	-	-	41	28
Ammunition	-	-	-	85	-
Electronics and communication equip.	26,485	30,838	36,222	38,840	38,342
Petroleum	34,574	33,633	47,883	44,523	42,129
Containers and hauling equipment	1,039	-	-	-	-
Textiles, clothing, and equipage	75	124	-	-	-
Building supplies	747	584	576	352	333
Subsistence	11,544	8,436	9,158	20,623	25,729
Production equipment	-	-	64	-	-
Construction 2/	318,231	513,290	524,134	469,862	548,100
Construction equipment	-	-	124	1,990	834
Medical and dental supplies and equip.	1,245	6,255	5,823	7,580	8,938
Photographic supplies and equipment	45	-	-	29	-
Materials handling equipment	-	1,629	8,089	411	1,331
All other supplies and equipment	34,841	55,974	40,487	32,747	62,110
Services	200,537	253,294	256,123	255,280	225,195

1/ Procurement programs with no expenditures for the 1995-99 period are: Combat vehicles, Weapons, Other fuels and lubricants and Transportation equipment.

2/ In FY99, Hawaii had 5.4 percent of the United States total, placing as the 4th highest state.

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/fy1999/p06.htm>.

Table 10.14-- UNITED STATES DEPARTMENT OF DEFENSE PROCUREMENT AWARDS, BY COUNTY, BY DEFENSE COMPONENT: 1999

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

Procurement program 1/	State	Hawaii	Honolulu	Kauai	Maui
Total	984,848	8,302	917,732	34,065	24,749
Army	229,131	4,549	222,384	1,639	558
Navy	569,599	940	536,163	32,426	70
Air Force	92,311	2,383	66,031	-	23,896
Defense Logistics Agency	68,682	61	68,621	-	-
Civil Functions	2,492	157	2,110	-	225
Unallocated 1/	22,633	212	22,423	-	-

1/ Addendum so components sum to source total. Await confirmation from U.S. Department of Defense.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Prime Contract Awards by Region and State, Fiscal Year 1999.*
http://web1.whs.osd.mil/peidhome/geostats/p09/Fy1999/P09tab6_99.htm

Table 10.15-- MILITARY SUBCONTRACTING PROGRAM: 1998

[In thousands of dollars and percent. Fiscal years ended September 30. Public Law 95-507, as amended, requires large business firms that have received at least one contract over $500,000, or $1,000,000 for construction, to establish a subcontracting program]

Procurement program 1/	Total	Air Force	Army	Defense Logistics Agency	Navy
Hawaii total contracts	217,333	-	14,173	267	200,018
Large business	67,116	-	5,974	140	59,692
Small business	150,217	-	8,199	127	140,326
Small disadvantaged business	46,841	-	3,068	9	42,760
Women-owned business	24,077	-	269	2	23,737
Historically Black Colleges and Universities/Minority Institutions	-	-	-	-	-
Hawaii contracts as percent of total	100.0	-	100.0	100.0	100.0
Large business	30.9	-	42.2	52.4	29.8
Small business	69.1	-	57.8	47.6	70.2
Small disadvantaged business	21.6	-	21.6	3.4	21.4
Women-owned business	11.1	-	1.9	0.7	11.9
Historically Black Colleges and Universities/Minority Institutions	-	-	-	-	-
United States total contracts	46,464,777	567,919	3,326,367	37,299,757	5,270,734
Large business	26,379,447	250,167	1,404,514	22,274,976	2,449,790
Small business	20,085,330	317,752	1,921,853	15,024,781	2,820,944
Small disadvantaged business	2,799,861	62,739	297,274	2,049,154	390,694
Women-owned business	2,214,010	46,613	218,159	1,631,204	318,034
Historically Black Colleges and Universities/Minority Institutions	17,324	57	428	15,977	862
U.S. contracts as percent of total	100.0	100.0	100.0	100.0	100.0
Large business	56.8	44.0	42.2	59.7	46.5
Small business	43.2	56.0	57.8	40.3	53.5
Small disadvantaged business	6.0	11.0	8.9	5.5	7.4
Women-owned business	4.8	8.2	6.6	4.4	6.0
Historically Black Colleges and Universities/Minority Institutions	1/	1/	1/	1/	1/

1/ Less than 0.1.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Companies Participating in the Department of Defense Subcontracting Program: 1998* and <http://web1.whs.osd.mil/peidhome/procstat/p14/py14menu.htm>.

Table 10.16-- NUCLEAR WEAPONS: 1985, 1992, AND 1998

Year	Number of weapons	Rank 1/
1985	345	14
1992	275	17
1998	-	15-50

1/ Rank is among the 50 states where 1 indicated the greatest number. In 1998, since only 14 states were identified as having nuclear weapons, the remainder were tied at 15-50.

Source: Natural Resource Defense Council, cited in *Honolulu Star-Bulletin* , October 7, 1998, p. A-3 and <http://www.ndrc.org/nuclear/default.asp> and for 1998 <http://www.nrdc.org/nuclear/tkstock/tssum.asp> accessed May 31, 2000.

Table 10.17-- ACREAGE OWNED OR CONTROLLED BY THE U.S. 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 10.18-- MILITARY INSTALLATIONS BY BRANCH OF SERVICE IN THE UNITED STATES AND HAWAII: SEPTEMBER 30, 1995

Branch of service	Total	Army	Army National Guard	Navy	Air Force	Marines
United States	519	139	53	122	187	18
Hawaii	16	6	-	7	2	1

Source: US Department of Defense, U.S. Military Installations <http://www.defenselink.mil/pubs/installations/index.html> accessed April 28, 2000.

Table 10.19-- MILITARY INSTALLATIONS BY BRANCH OF SERVICE, ACREAGE, PERSONNEL, AND CLASSIFICATION: SEPTEMBER 30, 1995

Installation	City	Cate-gory 2/	Personnel			Acres	Major unit or activity
			Total	Military	Civilian		
ARMY			21,892	17,382	4,510	164,185	
Fort DeRussy	Honolulu	3	134	49	85	73	Army reserve
Fort Kamehameha	Honolulu	3	16	13	3	-	25th Infantry Division training
Fort Ruger	Honolulu	3	99	-	99	8	RC Headquarters
Fort Shafter	Honolulu	1	21,559	17,306	4,253	55,297	Headquarters & administration
Pohakuloa Training Area	Hilo	3	82	14	68	108,792	25th Infantry Division Training
Waianae	Waianae	3	2	-	2	15	25th Infantry Division Training
NAVY			26,263	18,062	8,201	28,965	
NAS, Barbers' Point 1/	Barbers' Point	1	3,327	2,868	459	4,598	Patrol Aircraft
Naval Computer & Telecomm, East Pac	Wahaiwa	3	827	695	132	2,422	Communications
Naval Magazine Lualualei	Lualualei	3	674	392	282	12,028	Ordnance support
Naval Station, Pearl Harbor	Pearl Harbor	1	10,075	8,033	2,042	6,077	Operating base
Naval Station, Pearl Harbor	Pearl Harbor	1	5,925	5,654	271	125	Submarine Forces support
PAC Missile Range Facility at Barking Sands	Kekaha	3	295	122	173	3,555	Operating base
Pearl Harbor Naval Shipyard	Pearl Harbor	2	5,140	298	4,842	160	Ship alteration & repair

Continued on next page.

Table 10.19-- MILITARY INSTALLATIONS BY BRANCH OF SERVICE, ACREAGE, PERSONNEL, AND CLASSIFICATION: SEPTEMBER 30, 1995-- Con.

Installation	City	Cate-gory 2/	Personnel			Acres	Major unit or activity
			Total	Military	Civilian		
AIR FORCE			4,646	3,293	1,353	2,862	
Hickam AFB	Honolulu	1	4,646	3,293	1,353	2,851	Headquarters PACAF, 15th Air Base Wing , 154 Wing (Air National Guard)
Kokee Air Force Station	Kekaha	3	-	-	-	11	150 Aircraft Control Warning Squadron (Air National Guard)
MARINES			9,592	8,505	1,087	34,526	
Marine Corps Base, Hawaii		1	9,592	8,505	1,087	34,526	
Camp Smith	Pearl City	1	(NA)	(NA)	(NA)	(NA)	HQ, FMFPAC
MCAF, Kaneohe Bay	Kailua	1	(NA)	(NA)	(NA)	(NA)	FMF Ground units/Helo Training OPS

1/ The Base Closures Commission recommendations listed this as "93C" indicating that in 1993 Barbers' Point was recommended for closure.

2/ Category refers to designation of installation as Classification 1 (major), 2 (minor) or 3 (support or other activities). Criteria are specific to each service but are generally based on number and type of personnel (Army) and/or type of equipment and activites (Navy, Air Force and Marines). For specifics, see U.S. Military Installations-Data Element Definitions at <http://www.denenselink.mil/pubs/installations/terms.html>.

Source: US Department of Defense, U.S. Military Installations <http://www.defenselink.mil/pubs/installations/index.html>, accessed April 28, 2000.

Table 10.20-- HOUSING UNITS OWNED BY THE ARMED FORCES, BY SERVICE AND GEOGRAPHIC AREA: APRIL 1, 1995 TO 1998

Geographic area	All services	Air Force	Army	Coast Guard	Marine Corps	Navy
1995						
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
1996						
State total	20,824	2,675	8,641	316	2,095	7,097
Oahu	20,735	2,675	8,638	299	2,095	7,028
Other islands	89	-	3	17	-	69
1997						
State total	20,481	2,659	8,641	316	2,095	6,770
Oahu	20,392	2,659	8,638	299	2,095	6,701
Other islands	89	-	3	17	-	69
1998						
State total	20,616	2,659	8,847	342	2,041	6,727
Oahu	20,527	2,659	8,844	325	2,041	6,658
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) and Ibid., survey of local housing agencies.

Table 10.21-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER: 1970 TO 1998

Veteran status	Civilian males		All civilians 1/				
	1970	1980	1980	1990	1995	1997	1998
Civilians 16 and over	223,573	316,651	665,036	801,517	(NA)	(NA)	(NA)
Veterans	89,098	98,633	103,774	119,256	116,000	114,000	113,000
War veterans 2/	75,026	82,230	85,322	87,301	85,000	84,000	83,000
Persian Gulf War	-	-	-	-	6,000	8,000	9,000
Vietnam era	20,548	36,441	38,136	41,860	42,000	42,000	42,000
Korean conflict	20,006	21,860	22,351	22,362	20,000	19,000	19,000
World War II	34,486	31,170	32,156	32,551	27,000	24,000	23,000
World War I	2,501	824	854	132	(Z)	(Z)	(Z)
Peacetime only	14,072	16,403	18,452	31,955	31,000	30,000	30,000
Nonveterans	134,475	218,018	561,262	682,261	(NA)	(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: 1997* , p. 365; Ibid, *1998* , p. 369; Ibid., *1999* , p. 379; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 10.22-- WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES: 1914 TO 1998

War	Personnel serving	Battle deaths 1/	Nonbattle deaths	Wounded
World War I 2/	9,800	102		(NA)
World War II	36,777	658	138	(NA)
Korean conflict	25,000	403	(NA)	923
Vietnam conflict	12,970	221	51	(NA)
Persian Gulf War	2,839	1	-	(NA)

NA Not available.

1/ Data after World War II refer to deaths from hostile action.

2/ Data include nearly 200 Hawaii residents serving (and dying) with the British armed forces, many prior to the U.S. entry into World War I. Battle deaths of persons in the U.S. armed forces whose pre-service residence was Hawaii numbered 6.

Source: Robert C. Schmitt, "Hawaii's War Veterans and Battle Deaths", *The Hawaiian Journal of History* , vol. 32 (1998), pp. 171-174.

Table 10.23-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1999

Service	Number of personnel		Monthly payment 2/ ($1,000)	Average payment per person paid 3/ (dollars)
	Retired 1/	Paid by DOD		
Department of Defense	14,156	12,847	20,332	1,583
Officers	4,026	3,953	9,778	2,474
Nondisabled and reserve	3,830	3,775	9,345	2,475
Disabled	196	178	432	2,427
Enlisted	10,130	8,894	10,554	1,187
Nondisabled and reserve	9,147	8,431	10,215	1,212
Disabled	983	463	339	732
Department of Defense	14,156	12,847	20,332	1,583
Army	5,558	4,946	7,155	1,447
Officers	1,650	1,602	3,525	2,200
Enlisted	3,908	3,344	3,631	1,086
Navy	3,965	3,633	6,047	1,664
Officers	1,002	989	2,687	2,717
Enlisted	2,963	2,644	3,360	1,271
Marine Corps	979	881	1,639	1,860
Officers	295	292	828	2,836
Enlisted	684	589	811	1,377
Air Force	3,654	3,387	5,490	1,621
Officers	1,079	1,070	2,738	2,559
Enlisted	2,575	2,317	2,752	1,188
Addendum 4/:				
Coast Guard	245	236	446	1,890

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.

3/ Calculated by Hawaii State Department of Business, Economic Development & Tourism as Monthly Payment (in dollars) divided by Number Paid by DOD.

4/ Payments made by the U.S. Department of Transportation, shown for informational purposes only, and not included in the DOD totals. Coast Guard data are as of September 30, 1998.

Source: U.S. Department of Defense, Office of the Actuary, FY 1999 DOD Statistical Report on the *Military Retirement System (1999), and e-mail from Office of the Actuary, September 11, 2000.*

Section 11: Social Insurance and Human Services

Section Narrative	
11.01	AFDC and AFDC-UP Cases, by Islands, Average Monthly: 1980 to 1997
11.02	AFDC and AFDC-UP Recipients, by Islands, Average Monthly: 1980 to 1997
11.03	AFDC and AFDC-UP Annual Expenditures, by Islands: 1980 to 1997
11.04	General Assistance (Family) Cases, by Islands, Average Monthly: 1980 to 1997
11.05	General Assistance (Family) Recipients, by Islands, Average Monthly: 1980 to 1997
11.06	General Assistance (Family) Expenditures, by Islands, Average Monthly: 1980 to 1997
11.07	Temporary Assistance to Needy Families, Average Monthly, by Islands: 1998 and 1999
11.08	Temporary Assistance to Other Needy Families, Average Monthly, by Islands: 1998 and 1999
11.09	Average Monthly Cases Served by Food Stamp Program, by Islands: Annually, 1980 to 1999
11.10	Average Monthly Number of Individuals Served by Food Stamp Program, by Islands: Annually, 1980 to 1999
11.11	Annual Benefits of Food Stamp Program, by Islands: 1986 to 1999
11.12	Retirement, Survivors and Disability Insurance (OASDI) Beneficiaries in Current-Payment Status, by Age, Race, and Sex: 1997 to 1999
11.13	Retirement, Survivors and Disability Insurance (OASDI) Beneficiaries and Benefits in Current-Payment Status, by Type of Benefit: 1998 and 1999
11.14	Retirement, Survivors and Disability Insurance (OASDI) Beneficiaries in Current-Payment Status, by Counties: 1998
11.15	Retirement, Survivors and Disability Insurance (OASDI) Benefits in Current-Payment Status, by Counties: 1998
11.16	Number and Percent Receiving Retirement, Survivors and Disability Insurance (OASDI) Benefits: 1998
11.17	Social Security Beneficiaries and Benefits Paid: 1991 to 1999
11.18	Medicare Beneficiaries Enrolled and Benefit Payments: 1996 and 1997
11.19	Disability of Civilian Noninstitutionalized Persons, for the State and Oahu: 1990
11.20	Persons Served by State Homeless Programs: 1998 and 1999

11.21	Characteristics of New Clients Entering the State Homeless Outreach Programs: 1999		
11.22	Characteristics of Persons Participating in the State Homeless Stipend Programs: 1999		
11.23	Hawaii State Employees' Retirement System: 1992 to 1999		
11.24	Child Adoptions: 1989 to 1994		
11.25	Foster Care: 1995 and 1996		
11.26	Child welfare indicators: 1997		
11.27	Unemployment Insurance: 1987 to 1999		
11.28	Child Day Care Services with Payroll, by Federal Income Tax Status and Broad Geographic Area: 1992, 1997 and 1998		
11.29	Licensed Child Care Centers, 1998, and Licensed Family Child Care Providers, 1998		
11.30	United Way Revenues and Outlays, by Islands: 1997 to 1999		
11.31	Reporting Public Charities in Hawaii, by type: circa 1997		
11.32	Quality of Life Index Rankings, for the State and Honolulu Metropolitan Statistical Area: 1993 to 1999		

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: 1999* presents comparable national data.

Table 11.01-- AFDC AND AFDC-UP CASES, BY ISLANDS, AVERAGE MONTHLY: 1980 TO 1997

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	19,207	14,264	2,745	777	1,421	1,164	248	9
1981	19,963	14,613	3,002	813	1,535	1,235	270	30
1982	18,864	13,755	2,921	741	1,447	1,186	235	26
1983	17,764	12,865	2,902	700	1,297	1,061	209	27
1984	17,326	12,408	2,963	672	1,283	1,004	257	22
1985	16,410	11,525	2,963	667	1,255	959	280	16
1986	15,429	10,574	3,034	678	1,143	847	276	20
1987	14,334	9,717	2,986	591	1,040	740	284	16
1988	13,397	9,136	2,849	488	924	667	247	10
1989	13,675	9,366	2,923	471	915	693	218	4
1990	14,273	9,776	3,045	531	921	688	227	6
1991	14,672	9,966	3,160	564	982	741	229	12
1992	16,079	10,754	3,497	687	1,141	853	269	19
1993	17,876	11,870	3,915	755	1,336	1,053	258	25
1994	19,922	13,239	4,336	845	1,502	1,198	284	20
1995	21,481	14,229	4,616	960	1,676	1,367	291	18
1996	21,968	14,535	4,701	991	1,741	1,444	278	19
1997	22,333	14,726	4,725	1,071	1,811	1,493	293	25

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

Table 11.02-- AFDC AND AFDC-UP RECIPIENTS, BY ISLANDS, AVERAGE MONTHLY: 1980 TO 1997

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	59,656	44,857	8,639	2,045	4,115	3,271	821	23
1981	61,146	45,389	9,202	2,137	4,418	3,430	916	72
1982	57,938	42,884	8,928	1,978	4,148	3,281	808	59
1983	54,741	40,051	8,855	1,993	3,842	3,050	714	78
1984	53,588	38,515	9,119	2,003	3,951	2,940	946	65
1985	51,258	35,979	9,222	2,086	3,971	2,861	1,062	48
1986	48,078	32,758	9,569	2,143	3,608	2,519	1,034	55
1987	43,675	29,363	9,305	1,802	3,205	2,124	1,038	43
1988	41,193	27,847	8,963	1,489	2,894	1,958	911	25
1989	42,323	28,802	9,275	1,441	2,805	2,042	755	8
1990	43,823	29,791	9,610	1,596	2,826	2,036	779	11
1991	44,717	30,171	9,884	1,682	2,980	2,135	809	36
1992	49,090	32,611	10,935	2,059	3,485	2,491	944	50
1993	54,474	35,930	12,185	2,235	4,124	3,106	945	73
1994	60,494	39,930	13,441	2,493	4,630	3,531	1,039	60
1995	65,148	42,788	14,354	2,891	5,115	4,007	1,048	60
1996	66,456	43,507	14,603	3,021	5,325	4,283	980	62
1997	69,047	45,074	15,012	3,348	5,613	4,495	1,048	70

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

Table 11.03-- AFDC AND AFDC-UP ANNUAL EXPENDITURES, BY ISLANDS: 1980 TO 1997

[In dollars. Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	89,286,888	67,065,960	12,672,744	3,243,516	6,304,668	5,240,664	1,031,136	32,868
1981	92,687,724	68,471,652	13,931,544	3,423,210	6,861,288	5,558,964	1,202,628	99,696
1982	90,495,060	66,700,620	13,876,656	3,279,480	6,638,304	5,470,416	1,068,672	99,216
1983	87,196,296	63,915,588	13,980,888	3,131,412	6,168,408	5,098,272	951,144	118,992
1984	84,362,424	60,805,992	14,360,976	3,044,532	6,150,924	4,857,096	1,214,856	78,972
1985	79,482,876	55,969,692	14,383,908	3,153,096	5,976,180	4,594,296	1,321,320	60,564
1986	74,915,472	51,378,768	14,969,220	3,125,256	5,442,228	4,058,520	1,308,984	74,724
1987	69,261,948	47,051,364	14,716,932	2,652,528	4,841,124	3,505,572	1,281,372	54,180
1988	72,918,468	49,765,920	15,744,036	2,514,768	4,893,744	3,610,116	1,240,848	42,780
1989	86,060,340	59,001,672	18,577,308	2,880,420	5,600,940	4,246,824	1,334,772	19,344
1990	96,452,784	66,124,884	20,761,536	3,452,928	6,113,436	4,569,564	1,512,768	31,104
1991	103,802,976	70,588,488	22,517,328	3,840,960	6,856,200	5,103,480	1,670,388	82,332
1992	119,671,268	80,087,976	26,291,248	4,866,573	8,422,471	6,268,527	2,031,771	122,173
1993	138,514,683	91,888,325	30,507,477	6,015,726	10,103,155	7,898,607	2,034,265	170,283
1994	158,373,026	105,521,869	34,624,955	6,511,931	11,714,271	9,237,730	2,327,496	149,045
1995	170,721,612	113,139,192	37,026,048	7,449,492	13,106,880	10,593,444	2,368,704	144,732
1996	173,067,515	114,063,397	37,596,339	7,697,993	13,709,786	11,284,933	2,275,233	149,620
1997	166,195,261	109,418,760	35,653,012	7,854,551	13,268,938	10,867,174	2,228,292	173,472

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

Table 11.04-- GENERAL ASSISTANCE (FAMILY) CASES, BY ISLANDS, AVERAGE MONTHLY: 1980 TO 1997

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	1,085	808	153	43	81	48	32	1
1981	1,014	810	111	26	67	49	16	2
1982	1,044	815	127	34	68	43	23	2
1983	1,042	757	182	34	69	40	29	1/ -
1984	911	630	191	31	59	35	24	1/ -
1985	805	525	186	32	62	29	33	1/ -
1986	734	466	183	24	61	17	42	2
1987	638	404	161	18	55	15	40	1/ -
1988	581	359	163	11	48	10	38	-
1989	563	350	161	8	44	13	31	1/ -
1990	651	432	155	9	55	19	36	-
1991	693	503	163	13	41	15	26	-
1992	819	596	159	20	44	13	31	-
1993	924	663	192	19	50	16	34	-
1994	1,159	808	247	29	75	39	36	-
1995	1,341	881	316	42	102	61	40	1
1996	1,250	782	315	50	103	66	37	-
1997	701	437	171	27	66	41	24	1

1/ Less than 0.5.

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

Table 11.05-- GENERAL ASSISTANCE (FAMILY) RECIPIENTS, BY ISLANDS, AVERAGE MONTHLY: 1980 TO 1997

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	5,103	3,827	680	216	380	222	155	3
1981	4,707	3,775	504	129	299	214	77	8
1982	4,670	3,691	550	136	293	182	104	7
1983	4,211	3,142	646	134	289	164	124	1
1984	3,696	2,645	710	121	220	128	92	0
1985	3,302	2,254	702	129	217	100	117	0
1986	3,103	2,071	697	99	236	67	157	12
1987	2,721	1,804	614	75	228	64	162	2
1988	2,508	1,625	641	50	192	43	149	0
1989	2,451	1,595	636	34	186	53	133	0
1990	2,905	1,990	630	35	250	88	162	0
1991	3,200	2,390	576	51	183	65	118	0
1992	3,637	2,706	661	72	198	61	137	0
1993	3,931	2,855	776	68	232	73	159	0
1994	4,595	3,243	944	112	296	136	160	0
1995	5,140	3,391	1,212	159	378	215	159	4
1996	4,747	2,968	1,203	191	385	239	146	0
1997	2,630	1,634	647	108	241	147	93	1

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

Table 11.06-- GENERAL ASSISTANCE (FAMILY) EXPENDITURES, BY ISLANDS, AVERAGE MONTHLY: 1980 TO 1997

[In dollars. Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County	Maui	Molokai	Lanai
1980	362,577	284,569	45,743	9,699	22,566	13,691	8,790	85
1981	379,267	320,875	35,469	5,520	17,403	13,706	3,370	327
1982	383,684	309,048	45,055	10,140	19,441	12,150	7,029	262
1983	336,112	247,296	56,825	9,756	22,235	13,214	8,963	58
1984	303,661	206,998	64,409	11,570	20,684	11,607	9,036	41
1985	276,331	178,865	64,764	12,093	20,609	10,001	10,596	12
1986	258,675	160,735	68,598	8,667	20,675	5,053	14,826	796
1987	223,055	131,337	64,043	6,408	21,267	5,660	15,547	60
1988	221,003	127,347	68,914	4,403	20,339	4,133	16,206	0
1989	258,285	154,643	77,270	3,237	23,135	6,289	16,790	56
1990	328,127	214,660	80,696	3,632	29,139	10,832	18,307	0
1991	367,514	264,687	75,104	5,273	22,450	8,797	13,653	0
1992	424,895	306,067	86,722	8,813	23,293	6,715	16,578	0
1993	502,439	352,270	110,295	10,501	29,373	7,473	21,900	0
1994	652,621	446,028	149,332	16,285	40,976	19,212	21,764	0
1995	776,751	490,307	202,875	24,668	58,901	33,120	25,502	279
1996	694,736	421,006	189,136	26,998	57,597	35,091	22,506	0
1997	441,256	266,681	114,668	18,092	41,815	24,538	16,980	297

Source: Hawaii State Department of Human Services, DHS Obligations Report, 1980-1997.

Table 11.07-- TEMPORARY ASSISTANCE TO NEEDY FAMILIES, BY ISLANDS, AVERAGE MONTHLY: 1998 AND 1999

[Year ended June 30. AFDC became Temporary Assistance to Needy Families (TANF) effective FY 1998]

Category	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
1998								
Cases	17,253	11,606	3,464	825	1/ 1,357	19	1,170	169
Recipients	1/ 48,300	32,524	9,817	2,251	1/ 3,708	48	3,181	480
Expenditures 2/	9,119	6,168	1,839	419	692	10	593	89
1999								
Cases	16,547	11,125	3,306	789	1,327	20	1,150	157
Recipients	45,540	30,630	9,164	2,125	3,621	49	3,109	463
Expenditures 3/	8,504	5,743	1,709	383	669	10	576	83

1/ Revised.
2/ Revised. Thousands of dollars.
3/ Thousands of dollars.
Source: Hawaii State Department of Human Services, DHS Obligations Report (annual).

Table 11.08-- TEMPORARY ASSISTANCE TO OTHER NEEDY FAMILIES, AVERAGE MONTHLY, BY ISLANDS: 1998 AND 1999

[Year ended June 30. AFDC-UP became Temporary Assistance to Other Needy Families (TAONF) effective FY 1998. General Assistance (Family) was also added to TAONF]

Category	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
1998								
Cases	1/ 6,277	3,879	1,488	349	1/ 561	8	406	148
Recipients	27,026	16,531	6,437	1,531	1/ 2,528	30	1,780	717
Expenditures 2/	3,674	2,254	888	201	331	4	238	90
1999								
Cases	7,111	4,486	1,606	394	625	8	456	161
Recipients	30,543	19,032	6,977	1,721	2,813	34	2,013	766
Expenditures 3/	3,953	2,472	921	215	346	3	254	88

1/ Revised.
2/ Revised. Thousands of dollars.
3/ Thousands of dollars.
Source: Hawaii State Department of Human Services, DHS Obligations Report (annual).

Table 11.09-- AVERAGE MONTHLY CASES SERVED BY FOOD STAMP PROGRAM, BY ISLANDS: ANNUALLY, 1980 TO 1999

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
1980	38,499	27,473	6,324	1,809	2,893	73	2,335	485
1981	40,461	28,788	6,698	1,876	3,099	83	2,473	543
1982	38,238	26,965	6,551	1,840	2,882	67	2,289	526
1983	38,549	26,438	7,040	2,050	3,021	70	2,407	544
1984	37,767	25,393	7,252	1,943	3,179	62	2,484	633
1985	37,282	24,873	7,330	1,980	3,099	64	2,352	683
1986	35,652	23,356	7,520	1,894	2,882	65	2,130	687
1987	33,424	21,908	7,244	1,717	2,555	50	1,839	666
1988	31,388	20,844	6,819	1,474	2,251	40	1,582	629
1989	31,809	21,233	6,916	1,410	2,250	29	1,633	588
1990	32,285	21,705	6,891	1,450	2,239	27	1,629	583
1991	33,558	22,649	7,097	1,545	2,267	29	1,686	552
1992	37,295	24,867	8,012	1,778	2,638	33	1,961	644
1993	42,175	27,789	9,165	2,016	3,205	49	2,454	702
1994	48,142	31,735	10,449	2,264	3,694	48	2,969	677
1995	53,855	35,407	11,578	2,660	4,210	48	3,472	690
1996	58,028	38,107	12,364	2,955	4,602	50	3,872	680
1997	57,905	38,122	12,185	3,054	4,544	53	3,804	687
1998	54,264	35,057	11,926	2,983	4,298	53	3,519	726
1999	55,837	36,623	11,897	3,030	4,287	58	3,548	681

Source: Hawaii State Department of Human Services, HAWI Food Stamp Program, Monthly Summary.

Table 11.10-- AVERAGE MONTHLY NUMBER OF INDIVIDUALS SERVED BY FOOD STAMP PROGRAM, BY ISLANDS: ANNUALLY, 1980 TO 1999

[Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
1980	99,672	74,170	15,163	3,870	6,469	172	4,979	1,318
1981	103,996	77,369	15,781	3,911	6,935	188	5,293	1,454
1982	99,228	72,560	15,905	4,043	6,720	135	5,142	1,443
1983	101,118	71,574	17,474	4,752	7,318	157	5,595	1,566
1984	99,818	69,251	18,145	4,672	7,750	128	5,753	1,869
1985	99,395	68,145	18,539	4,942	7,769	140	5,604	2,025
1986	93,863	62,714	19,131	4,766	7,252	137	5,032	2,083
1987	87,070	57,935	18,456	4,217	6,462	91	4,317	2,054
1988	80,823	54,244	17,357	3,492	5,730	66	3,729	1,935
1989	80,284	53,964	17,444	3,282	5,594	38	3,793	1,763
1990	79,496	53,543	17,226	3,232	5,495	42	3,698	1,755
1991	81,345	54,927	17,466	3,472	5,480	62	3,776	1,642
1992	89,465	59,547	19,482	4,111	6,325	78	4,357	1,890
1993	99,571	65,177	22,044	4,625	7,725	127	5,547	2,051
1994	111,409	72,911	24,603	5,194	8,701	131	6,567	2,003
1995	122,121	79,571	26,781	6,061	9,708	125	7,540	2,043
1996	129,430	83,960	28,298	6,739	10,433	110	8,340	1,983
1997	129,138	84,049	27,757	6,973	10,359	119	8,265	1,975
1998	122,215	78,032	27,081	6,911	10,191	124	7,958	2,109
1999	124,417	80,621	26,710	6,941	10,145	133	8,069	1,943

Source: Hawaii State Department of Human Services, HAWI Food Stamp Program, Monthly Summary.

Table 11.11-- ANNUAL BENEFITS OF FOOD STAMP PROGRAM, BY ISLANDS: 1986 TO 1999

[In dollars. Years ended June 30]

Year	State	Oahu	Hawaii	Kauai	Maui County			
					County total	Lanai	Maui	Molokai
1986	90,431,081	59,584,164	19,178,743	4,523,409	7,144,765	126,266	5,046,328	1,972,171
1987	86,590,419	56,916,991	19,025,062	4,118,900	6,529,466	91,545	4,440,672	1,997,249
1988	79,945,261	53,120,868	17,701,927	3,362,595	5,759,871	62,111	3,844,355	1,853,405
1989	74,533,213	49,550,098	16,722,757	3,006,023	5,254,335	32,933	3,667,459	1,553,943
1990	78,997,519	52,750,217	17,526,168	3,232,313	5,488,821	39,855	3,825,847	1,623,119
1991	94,473,871	63,485,005	20,541,064	4,042,598	6,405,204	64,878	4,574,468	1,765,858
1992	112,329,644	74,283,762	24,838,847	5,156,483	8,050,552	94,856	5,742,270	2,213,426
1993	126,788,607	82,450,018	28,538,846	5,824,432	9,975,311	146,194	7,400,324	2,428,793
1994	147,149,411	95,823,731	32,943,774	6,739,307	11,642,599	154,603	9,055,336	2,432,660
1995	171,641,900	111,603,705	37,840,508	8,411,516	13,786,171	155,076	10,998,797	2,632,298
1996	191,796,701	123,903,621	42,338,840	9,872,685	15,681,555	153,647	12,831,574	2,696,334
1997	193,487,005	125,414,180	42,071,872	10,367,997	15,632,956	171,979	12,749,822	2,711,155
1998	179,727,944	114,359,271	40,461,179	10,057,307	14,850,187	167,244	11,845,597	2,837,346
1999	178,991,763	115,489,788	39,208,297	9,841,805	14,451,873	173,891	11,697,878	2,580,104

Source: Hawaii State Department of Human Services, HAWI Food Stamp Program, Monthly Summary.

Table 11.12-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE, RACE, AND SEX: 1997 TO 1999

[December data. Based on 10-percent samples]

Age, race, and sex	1997	1998	1999
Total	172,050	174,850	179,150
Age:			
17 years or under	10,830	10,780	11,190
18 to 64 years	27,860	28,730	30,280
65 to 69 years	36,390	35,490	34,930
70 to 74 years	37,430	37,450	37,240
75 years or older	59,540	62,400	65,510
Race:			
White	43,730	44,880	46,570
Black	3,640	1,950	2,000
Other	123,460	126,910	129,460
Beneficiaries other than children:			
Men	71,130	72,220	73,760
Women	87,680	89,510	91,860

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* (annual) at http://www.ssa.gov/statistics/Supplement/2000.

Table 11.13-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT: 1998 AND 1999

[December data. Based on 10-percent samples]

Type of benefit	Number of OASDI beneficiaries		Amount of monthly benefits ($1,000)	
	1998	1999	1998	1999
Total	174,850	179,150	124,320	131,387
Retirement program:				
Retired workers	124,150	126,820	1/ 95,712	2/ 100,549
Spouses	10,210	9,900	3,832	3,801
Children	2,600	2,520	905	918
Survivor program:				
Widows, widowers, and parents	15,290	15,590	10,714	11,396
Children	6,830	6,800	3,459	3,598
Disability program:				
Disabled workers	11,670	12,890	8,782	10,069
Spouses	410	420	94	90
Children	3,690	4,210	822	966
Age 65 and over				
Men	59,700	60,560	50,607	52,640
Women	75,640	77,120	50,265	53,140

1/ Average monthly benefit was $770.90; median was $772.50.

2/ Average monthly benefit was $792.90; median was $794.50.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* (annual) at http://www.ssa.gov/statistics/Supplement/2000.

Table 11.14-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY COUNTIES: DECEMBER 1998

County 1/	Total	Benefits			Aged 65 and older	
		Retirement 2/	Survivors 3/	Disability	Men	Women
State total 4/	174,520	136,727	21,720	16,073	59,489	75,454
Hawaii	24,738	17,980	3,545	3,231	8,215	9,425
Honolulu	123,559	98,580	14,780	10,210	42,235	55,330
Kalawao	4	5	-	-	5	-
Kauai	9,311	7,355	1,210	745	3,350	3,845
Maui	16,911	12,845	2,205	1,900	5,670	6,845

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.

2/ Includes special age-72 beneficiaries.

3/ Includes nondisabled widows and widowers, disabled widows and widowers, widowed mothers and fathers, and parents.

4/ Total includes beneficiaries with unknown county code.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement*, table 4; http://www.ssa.gov/statistics/Supplement/2000.

Table 11.15-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFITS IN CURRENT-PAYMENT STATUS, BY COUNTIES: DECEMBER 1998

[In thousand dollars]

County 1/	Total	Benefits			Aged 65 and older	
		Retirement 2/	Survivors 3/	Disability	Men	Women
State total 4/	123,845	99,766	14,259	9,821	50,328	50,149
Hawaii	17,263	13,101	2,259	1,899	7,043	6,181
Honolulu	87,754	71,763	9,711	6,280	35,543	36,812
Kalawao	1	2	-	-	2	-
Kauai	6,613	5,340	808	465	2,829	2,510
Maui	12,211	9,556	1,482	1,175	4,915	4,640

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.

2/ Includes special age-72 beneficiaries.

3/ Includes nondisabled widows and widowers, disabled widows and widowers, widowed mothers and fathers, and parents.

4/ Total includes beneficiaries with unknown county code.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement*, table 5; http://www.ssa.gov/statistics/Supplement/2000.

Table 11.16-- NUMBER AND PERCENT RECEIVING RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFITS: DECEMBER 1998

Comparison	Total population		Aged 65 or older	
	Number (in thousands) 1/	Percent receiving OASDI benefits 2/	Number (in thousands) 1/	Percent receiving OASDI benefits 2/
United States	270,298	16.0	34,400	91.0
Hawaii	1,193	14.6	158	85.2

1/ Population data for 1998 on which percentages are based furnished by Population Estimates Branch, U.S. Census Bureau.

2/ Percentages with OASDI are based on the number of beneficiaries in December 1998.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* , table3; http://www.ssa.gov/statistics/Supplement/2000.

Table 11.17-- SOCIAL SECURITY BENEFICIARIES AND BENEFITS PAID: 1991 TO 1999

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
1997	172,050	119,266	1,385
1998	174,850	124,320	1,453
1999	179,150	131,387	1,517

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* (annual) at http://www.ssa.gov/statistics/Supplement/2000 and data in earlier printed reports.

Table 11.18-- 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 11.19-- 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 11.20-- PERSONS SERVED BY STATE HOMELESS PROGRAMS: 1998 AND 1999

[Years ended June 30. Figures shown are unduplicated counts of persons receiving services under the State Stipend and Outreach programs]

Year and program	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1998					
Total persons	12,887	8,342	1,600	595	2,350
Outreach Program	6,272	3,589	837	567	1,279
Stipend Program	6,615	4,753	763	28	1,071
1999					
Total persons	12,734	7,134	2,198	1,015	2,387
Outreach Program	6,964	3,646	1,293	1,010	1,015
Stipend Program	5,770	3,488	905	5	1,372

Source: Hawaii State Department of Business, Economic Development & Tourism, Housing and Community Development Corporation of Hawaii, Homeless Programs Section, records.

Table 11.21-- CHARACTERISTICS OF NEW CLIENTS ENTERING THE STATE HOMELESS OUTREACH PROGRAMS: 1999

[Year ended June 30. Figures shown are unduplicated counts of new clients in the state homeless outreach programs]

Subject	Persons 2/	Subject	Persons 2/
Total	2,127	Hawaii residency	
		Traveller/transient	109
Number of persons		Less than 3 months (intention to stay)	277
City & County of Honolulu	709	3 months to 2 years	248
Hawaii	593	Long time resident	1,094
Kauai	433		
Maui	392		
		Reason for homelessness 3/	
		Little or no income	500
Age		Unable to find affordable housing	487
Under 1 years	24	Transient from mainland/ other	204
1 to 5 years	94	Loss of employment	170
6 to 12 years	121	Other family conflicts (excluding abused by parent/spouse)????	194
13 to 18 years	109	Eviction	124
19 to 44 years	1,174	Other	894
45 to 60 years	376		
Over 60 years	54		
		Housing status	
Race		Street/park/vehicle/ tent	1,617
Caucasian	752	Sheltered	151
Black	50	Transitional	26
Native American/Alaskan	25	Doubling up	7
Hawaiian/Part Hawaiian	549	Other	83
Filipino	88		
Mixed (except Hawaiian)	158		
Other	183		
Length of homelessness 1/			
Less than 1 month	(NA)		
1 month to 1 year	(NA)		
More than 1 year	(NA)		

NA Not available.
1/ Based on families, not individuals.
2/ Excludes figures for the "not known" category.
3/ More than one response per person was allowed.
Source: Hawaii State Department of Business, Economic Development & Tourism, Housing and Community Development Corporation of Hawaii, Homeless Programs Section, records.

Table 11.22-- CHARACTERISTICS OF PERSONS PARTICIPATING IN THE STATE HOMELESS STIPEND PROGRAMS: 1999

[Year ended June 30. Figures shown are unduplicated counts of persons in the state homeless programs who responded to questionnaire. Excludes 389 persons who were part of the Institute of Human Services program. Includes people exiting to the transitional shelter program. Most categories include only adults]

Subject	Persons 1/	Subject	Persons 1/
Total	5,770	Sex	
		Male	3,263
Number of persons		Female	2,497
City & County of Honolulu	3,488		
Hawaii	905	Hawaii residency	
Kauai	5	Less than 6 months	691
Maui	1,372	6 to 11 months	170
		1 to 5 years	532
Age of child		6 to 10 years	320
Under 1 years	247	10 years and over	676
1 to 5 years	710	Lifetime	1,422
6 to 12 years	697		
13 to under 18 years	278	Employment	
		Unemployed	3,092
Age of adult		Part-time	425
Under 18 years 2/	11	Full-time	311
18 to 29 years	1,113		
30 to 39 years	1,266	Family status 3/	
40 to 49 years	950	Single, no children	2,427
50 to 59 years	318	Couple, no children	47
60 years and over	158	Single, with children	572
		Couple, with children	273
Race		Intergenerational/extended	29
Caucasian	1,762	Other	5
Black	331		
Samoan	217	Length of homelessness 3/	
Filipino	302	0 days/At risk	1,034
Japanese	157	Less than 1 month	1,328
Hawaiian/part Hawaiian	1,969	1 to 3 months	428
Other Pacific Islander	298	4 to 12 months	260
Other	726	1 to 2 years	133
		More than 2 years	121
		Other	5

1/ Excludes figures for the "not known" and the "no answer/don't know" category.
2/ Includes situations where the person is under 18 years old, but has a dependent child.
3/ Based on families, not individuals.
Source: Hawaii State Department of Business, Economic Development & Tourism, Housing and Community Development Corporation of Hawaii, Homeless Programs Section, records.

Table 11.23-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1992 TO 1999

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
1998	60,447	27,403	9,051,782	446,789	1,321	3,331,700
1999	61,164	27,950	9,679,760	483,199	1,369	3,775,942

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 11.24-- 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 11.25-- FOSTER CARE: 1995 AND 1996

[Number of foster homes covers only licensed, certified and approved foster homes. Out-of-home care includes children placed into family foster care, kinship (relative) foster care, group homes, and residential group care]

Subject	1995	1996
Number of foster homes	1,086	(NA)
Children in out-of-home care	1,652	1,921
Rate per 1,000 children	5.2	6.3
Rank (50 states, from highest to lowest)	32	28

NA Not available.

Source: Data from the Child Welfare League of America, Washington, D.C., as cited in *Statistical Abstract of the United States* for 1998 (p. 395), and 1999 (p. 403).

Table 11.26-- CHILD WELFARE INDICATORS: 1997

Indicator	Number	Percent of total population	Percent of children (under 18)
Total Population	1,186,602	100.0	
Children (under 18)	302,592	25.5	100.0
Individuals in poverty, average 1996-97	154,258	13.0	
Children in poverty	62,637		20.7
Public school enrollment, SY 1996-97	188,485	15.9	
Private school enrollment, SY 1996-97	32,550	2.7	
Total in school, K-12	221,035	18.6	
Children in DOE special education	13,951		4.6
Persons in families receiving AFDC or General Assistance	71,683	6.0	
Children receiving free/reduced school lunch	64,356		21.3
Unemployed persons	38,200	1/ 3.2	
Individuals receiving food stamps	122,215	10.3	
Children receiving food stamps	62,782		20.7
Families/individuals claiming Earned Income Tax Credit (1996)	57,846	4.9	
Children with DHS subsidized child care	5,294		1.7
Children in Head Start, SY 1996-97	2,226		0.7
Children in foster care	2,669		0.9
Confirmed child abuse/neglect	1,969		0.7
Juvenile arrests for violent crime	4,291		
Juvenile arrests for property crime	12,570		
	Dollars		
Per capita personal income	25,598		
Median income, family of 4	56,992		
U.S. Poverty threshold, family of 4	16,405		
Hawaii poverty guideline, family of 4	18,460		
Income tax at poverty level, family of 4	501		
DOE per pupil cost	5,350		

1/ Revised.

Source: Hawaii Kids Watch, *Children's Budget Analysis Data Book* (October 1999), p. 9. Table modified by Hawaii Department of Business, Economic Development & Tourism.

Table 11.27-- UNEMPLOYMENT INSURANCE: 1987 TO 1999

[Covering private industry, Federal, State and County governments and nonprofit organizations]

Calendar year	Covered employ-ment	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	534,210	13,819	36	545.20	176,659	259.30	17.1
1998	533,147	12,978	35	558.83	162,013	254.79	16.6
1999	(NA)	11,043	33	(NA)	140,528	265.78	16.6

NA Not available.
1/ Revised.
Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book, 2000*; and records.

Table 11.28-- CHILD DAY CARE SERVICES WITH PAYROLL, BY FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA: 1992, 1997 AND 1998

[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
1992 1/						
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
1997 2/						
State total	35	138	(D)	44,956	100-249	1,572
Oahu	17	96	(D)	35,336	100-249	1,284
Neighbor Islands	18	42	(D)	9,620	20-99	288
1998 2/						
State total	174		(NA)		2,030	
Oahu	116		(NA)		1,644	
Neighbor Islands	58		(NA)		386	

NA Not available.
D Withheld to avoid disclosing data of individual companies.
1/ SIC 835.
2/ NAICS 6244.

Source: U.S. Bureau of the Census, *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; *1997 Economic Census, Hawaii, Health Care and Social Assistance, Geographic Area Series* (June 1999), tables 1a, 1b, 2a, 2b, 3 at http://www.census.gov/prod/ec97/97s62-hi.pdf; *County Business Patterns 1998, Hawaii,* CBP-98-13 (July 2000), tables 2 and 6 at http://www.census.gov/prod/2000pubs/cbp98-13.pdf.

Table 11.29-- LICENSED CHILD CARE CENTERS AND LICENSED FAMILY CHILD CARE PROVIDERS: 1998

Subject	Number	Rank 1/
Licensed child care centers, February 1998	494	41
Licensed family child care providers, August 1998	500	48

1/ 50 States and D.C., from highest to lowest

Source: Children's Foundation, Washington, D.C., as cited in *Statistical Abstract of the United States: 1999*, p. 402.

Table 11.30-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS: 1997 TO 1999

[Thousands of dollars]

Year and island	Public support & revenues	Public support	Allocations & expenses	Allocations to agencies
1997				
Total reported	20,007	17,908	18,353	14,128
Aloha United Way (Oahu)	16,924	14,947	15,660	11,924
Hawaii Island United Way	1,067	990	1,035	744
Kauai United Way	505	505	539	350
Maui United Way	1,440	1,440	(NA)	1,090
Friendly Isle United Way (Molokai)	71	26	29	20
1998				
Total reported	16,380	15,231	(NA)	(NA)
Aloha United Way (Oahu)	1/ 13,081	1/ 12,324	1/ 14,328	11,553
Hawaii Island United Way	1,224	1,148	1,109	(NA)
Kauai United Way	540	540	563	370
Maui United Way	1,455	1,174	(NA)	647
Friendly Isle United Way (Molokai)	80	45	37	27
1999				
Total reported	(NA)	(NA)	(NA)	(NA)
Aloha United Way (Oahu)	13,934	13,380	13,710	10,004
Hawaii Island United Way	(NA)	(NA)	(NA)	(NA)
Kauai United Way	487	487	527	335
Maui United Way	1,109	896	(NA)	863
Friendly Isle United Way (Molokai)	100	53	33	22

NA Not available.
1/ Revised.
Source: Aloha United Way, *1999 Annual Report Financial Information* <http://www.auw.org/annrpt.html>; Aloha United Way, *1998 Annual Report* <http://www.auw.org/new/webar.pdf>; Hawaii Island United Way, Inc., records; Kauai United Way, records; Maui United Way, records; Friendly Isle United Way, records.

Table 11.31-- REPORTING PUBLIC CHARITIES IN HAWAII, BY TYPE: CIRCA 1997

[Dollar amounts in millions]

Type	Organizations number 1/	Expenses 2/	Assets 3/	Public support 4/	Total revenue 5/
Total	1,112	2,422.12	6,781.95	539.77	2,872.86
Operating public charities	1,025	2,336.49	5,719.30	490.04	2,759.25
Arts, culture, humanities	167	106.40	358.32	53.68	126.39
Educational institutions	179	408.92	2,860.63	69.68	676.73
Environmental quality, protection	27	11.15	46.36	11.24	15.50
Animal related	13	7.73	14.70	3.51	8.52
Health - general, rehabilitative	87	1,403.14	1,729.15	82.89	1,477.31
Mental health, crisis intervention	31	27.08	21.25	17.04	28.36
Disease, disorders, medical disciplines	20	35.00	20.88	6.07	36.78
Medical research	13	3.18	4.80	1.89	3.49
Crime, legal related	16	7.51	2.87	6.40	7.49
Employment, job related	6	8.63	5.53	2.89	9.97
Food, agriculture, nutrition	9	13.51	5.24	13.37	14.13
Housing, shelter	53	25.05	193.13	37.47	50.46
Public safety, disaster relief	4	0.35	0.16	0.22	0.34
Recreation, sports, leisure, athletics	51	7.48	5.15	3.04	7.56
Youth development	35	15.99	21.90	10.86	16.83

continued on next page

Table 11.31-- REPORTING PUBLIC CHARITIES IN HAWAII, BY TYPE: CIRCA 1997 -- Con.

[Dollar amounts in millions]

Type	Organizations number 1/	Expenses 2/	Assets 3/	Public support 4/	Total revenue 5/
Human services - multipurpose	132	172.73	206.20	97.27	174.18
International, foreign affairs	14	24.67	33.73	21.91	27.82
Civil rights, social action, advocacy	6	2.26	1.11	2.36	2.55
Community improvement	38	19.58	85.25	18.82	29.65
Philanthropy, grantmaking	1	0.04	0.98	0.00	0.13
Science and technology research	12	21.01	58.64	19.20	27.05
Social science research	3	0.20	0.27	0.07	0.19
Public, social benefit	11	2.95	2.17	0.30	3.13
Religion related, spiritual development	42	7.04	30.42	4.26	7.71
Unknown/unclassified	55	4.89	10.47	5.59	6.96
Supporting public charities	84	85.43	1,058.89	49.64	113.11
Mutual benefit public charities	3	0.20	3.76	0.09	0.50

1/ Include only organizations that both reported (filed IRS Form 990) and were required to do so. The following were excluded: foreign organizations, government-associated organizations, and organizations without state identifiers. Organizations not required to report include religious congregations and organizations with less than $25,000 in gross receipts.

2/ Total expenses = current operating expenditures, grants and benefits, and payments to affiliates.

3/ Total assets = total assets at the end of the year, including cash, savings, investments, land, buildings, equipment, inventory, and accounts, pledges, grants, and loans receivable.

4/ Public support = gifts, grants,and contributions from government and private sources.

5/ Total revenue = calculated by the National Center for Charitable Statistics using the following formula: gross income + public support + dues received - rental expenses - direct expenses other than fundraising expenses.

Source: *US Internal Revenue Service Form 990 Return Transaction File, 1998* (returns received in that calendar year) as adjusted by the National Center for Charitable Statistics. Prepared by the NCCS in April of 1999.

Table 11.32-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE AND HONOLULU METROPOLITAN STATISTICAL AREA: 1993 TO 1999

Area, authority, and year of publication	Number of areas ranked	State or Honolulu rank 1/
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
Morgan Quitno, 1999	50	41
Honolulu MSA:		
Money, 1993	300	124
Money, 1994	300	155
Money, 1995	300	102
Money, 1996	300	88
Money, 1997	300	167
Money, 1998 2/	23	16

1/ For the State, the scale is 1 to 50, the lower the rank, the better. For the Honolulu MSA, the scale is 1 to 300 for the years 1993 to 1997, the lower the rank, the better; 1 to 23 for 1998, the higher the rank, the better.

2/ In the Western States, comparison limited to medium-size Metropolitan Statistical Areas, (MSAs of 250,000 to 1,000,000 inhabitants).

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* 1998 and earlier issues; http://www.money.com/money/depts/real_estate/bplive.

Section 12: Labor Force, Employment, and Earnings

Section Narrative	
12.01	Labor Force Status, by Sex: 1960 to 1990
12.02	Labor Force Characteristics, by Counties: 1990
12.03	Selected Labor Force and Commuting Characteristics, by Geographic Area: 1990
12.04	Labor Force Status of the Civilian Noninstitutional Population 16 Years and Over: Annual Averages, 1997 and 1998
12.05	Civilian Labor Force, Total and Female, by Race and Hispanic Origin: 1998 and 1999
12.06	Civilian Labor Force, Total and Female, and Unemployment Rate, by Race and Hispanic Origin: 1999
12.07	Employment Status of the Civilian Labor Force: Annual Averages, 1980 to 1999
12.08	Employment Status of the Civilian Labor Force, for Counties and Islands: Annual Averages, 1989 to 1999
12.09	Characteristics of the Insured Unemployed: Annual Averages, 1998
12.10	Wage and Salary Jobcount: Annual Averages, 1980 to 1999
12.11	Jobcount, by Industry: Annual Averages, 1995 to 1999
12.12	Employment by Industry: 1970 to 1990
12.13	Jobcount by Industry, by Counties: Annual Averages, 1998 Revised
12.14	Jobcount by Industry, by Counties: Annual Averages, 1999
12.15	Occupation: 1970 to 1990
12.16	Employment by Class of Worker: 1940 to 1990
12.17	Civilian Employment, Full- and Part-Time: Annual Averages, 1997 and 1998
12.18	Occupation of Employed Civilians in Percent, by Sex: Annual Averages, 1997 and 1998
12.19	Multiple Jobholders, Numbers and Percent of Employed: Annual Averages 1995 to1998
12.20	Workers 16 Years and Over, by Place of Residence and Place of Work, for Oahu: 1990

12.21	Employment and Payrolls Covered by the Hawaii Employment Security Law and Unemployment Compensatl Employees: 1988 to 1998		
12.22	Employment and Payrolls Covered by the Hawaii Employment Security Law and Unemployment Compensation for Federal Employees, by Counties: 1998		
12.23	Employment and Payrolls Covered by the Hawaii Employment Security Law and Unemployment Compensation for Federal Employees, by Industry: 1998		
12.24	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 1998		
12.25	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: 1988 and 1998		
12.26	Nongovernmental Reporting Units and Employment, by Size of Firm: December 1998		
12.27	Annual Wages per Employee, Total and Private: 1988 to 1998		
12.28	Hours and Earnings in Specified Industries: Annual Averages, 1994 to 1999		
12.29	Average Pay Rates for Selected Job Classifications in Private Industry: 1995 to 1999		
12.30	Average Pay Rates for Selected Job Classifications in Private Industry, by Counties or Islands: 1999		
12.31	Wages of Hawaii's 20 Largest Occupations: 1998		
12.32	Wages of Honolulu's 20 Largest Occupations: 1998		
12.33	Minimum Wage Chronology: 1942 to 1999		
12.34	Number of Persons at Work by Weekly Hours of Work: Annual Averages, 1994 to 1998		
12.35	Interstate Movement of Job-Seekers: 1949 to 1999		
12.36	Nonfatal Occupational Injuries and Illnesses, Private Sector: 1995 to 1998		
12.37	Work Injuries, Deaths, Time Lost and Compensation Costs: 1990 to 1998		
12.38	Union Membership and Earnings, 1988, 1993, and 1998, and by Sector, 1998		
12.39	Labor Union and Employee Associations: 1998 and 1999		
12.40	State and County Employees in Collectice Bargaining Units, by Employing Jurisdiction: 1996 to 1999		
12.41	Collective Bargaining Agreements: 1987 to 1999		
12.42	Work Stoppages: 1989 to 1999		

12.43	Work Stoppages Involving 1,000 or More Workers: 1984 to 1999	

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: 1999.*

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, 1997 AND 1998

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
1997				
Civilian noninstitutional population	873	413	460	55
Civilian labor force	592	300	292	26
Percent of population	67.8	72.8	63.4	46.9
Employment	554	279	275	21
Percent of population	63.5	67.5	59.9	38.0
Unemployment	38	22	16	5
Rate 1/	6.4	7.2	5.6	19.0
Error range of rate 2/	5.7-7.1	6.1-8.3	4.6-6.5	13.8-24.3
Not in civilian labor force	281	113	168	29
1998				
Civilian noninstitutional population	886	410	476	56
Civilian labor force	597	296	301	21
Percent of population	67.4	72.2	63.2	37.5
Employment	560	277	282	16
Percent of population	63.2	67.6	59.2	28.6
Unemployment	37	19	18	5
Rate 1/	6.2	6.4	6.1	25.2
Error range of rate 2/	5.5-6.9	5.4-7.4	5.1-7.1	18.9-31.5
Not in civilian labor force	289	301	175	35

1/ Percent of civilian labor force.

2/ At the 90-percent confidence level.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment*, *1997* (Bulletin 2515, June 1999), table 12, and *Geographic Profile of Employment and Unemployment, 1998* (Bulletin 2524, November 1999), table 12 and <http://stats.bls.gov/opub/gp/gpsec2.htm> and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 12.05-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, BY RACE AND HISPANIC ORIGIN: 1998 AND 1999

Race or origin 1/	1998		1999	
	Both sexes	Female	Both sexes	Female
All races	597,050	282,450	594,800	281,350
White	194,750	89,750	194,450	89,500
Asian or Pacific Islander	383,200	183,750	381,400	183,050
Japanese	148,100	70,650	147,750	70,500
Filipino	98,100	48,300	97,700	48,150
Hawaiian	68,150	32,050	67,750	31,900
Chinese	39,250	18,450	38,950	18,300
Korean	12,950	7,000	12,850	6,950
Other Asian or Pacific Islander	16,650	7,300	16,450	7,200
Black	7,600	3,750	7,500	3,700
American Indian, Eskimo, Aleut	2,900	1,450	2,850	1,450
Other race	8,650	3,750	8,600	3,700
Minority group	402,300	192,700	400,400	191,900
Hispanic (all races)	36,550	17,100	36,300	17,000

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, Research and Statistics Office, unpublished estimates.

Table 12.06-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, AND UNEMPLOYMENT RATE, BY RACE AND HISPANIC ORIGIN: 1999

Race or origin 1/	Civilian labor force		Unemployed (percent)	
	Both sexes	Female	Both sexes	Female
All races	594,800	281,350	5.6	5.4
White	194,450	89,500	5.9	6.5
Asian or Pacific Islander	381,400	183,050	5.3	4.7
Japanese	147,750	70,500	2.7	2.0
Filipino	97,700	48,150	6.3	5.4
Hawaiian	67,750	31,900	9.3	8.7
Chinese	38,950	18,300	3.9	3.7
Korean	12,850	6,950	5.6	5.7
Other Asian or Pacific Islander	16,450	7,200	10.0	10.0
Black	7,500	3,700	8.5	8.5
American Indian, Eskimo, Aleut	2,850	1,450	9.3	10.2
Other race	8,600	3,700	7.9	8.5
Minority group	400,400	191,900	5.5	4.8
Hispanic (all races)	36,300	17,000	9.5	9.1

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, Research and Statistics Office, unpublished estimates.

Table 12.07-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1980 TO 1999

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	593,600	555,750	37,850	6.4
1997	1/ 594,700	1/ 556,650	1/ 38,050	6.4
1998	1/ 595,000	1/ 557,850	1/ 37,150	6.2
1999	594,800	561,500	33,350	5.6

1/ Revised.

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 12.08-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1989 TO 1999

[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							
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	429,350	67,250	29,000	68,050	1,650	63,250	3,100
1997	1/ 428,100	1/ 68,750	1/ 28,600	1/ 69,250	1,700	1/ 64,700	2,850
1998	1/ 427,650	1/ 68,650	1/ 28,700	1/ 70,050	1,700	1/ 65,400	2,950
1999	424,250	69,900	29,000	71,650	1,750	66,850	3,050
CIVILIAN EMPLOYED							
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	406,650	60,550	25,450	63,050	1,550	58,900	2,600
1997	1/ 405,450	1/ 61,750	1/ 25,400	1/ 64,050	1,600	1/ 60,000	2,450
1998	1/ 404,700	62,050	1/ 25,850	1/ 65,250	1,600	1/ 61,150	2,500
1999	403,300	63,850	26,800	67,550	1,650	63,300	2,600

Continued on next page.

Table 12.08-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1989 TO 1999 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
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	22,700	6,650	3,550	4,950	100	4,400	500
1997	1/ 22,650	1/ 7,000	3,250	5,200	100	4,650	1/ 400
1998	22,950	1/ 6,600	2,850	1/ 4,750	50	1/ 4,250	450
1999	20,950	6,050	2,250	4,100	100	3,600	450
PERCENT UNEMPLOYED							
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	15.9
1997	5.3	10.2	11.3	7.5	5.9	7.2	14.8
1998	5.4	1/ 9.6	1/ 9.9	6.8	3.5	1/ 6.5	1/ 14.9
1999	4.9	8.7	7.7	5.7	4.4	5.3	14.2

1/ Revised.

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 12.09-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: ANNUAL AVERAGES, 1998

[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.:	
		Finance	4.9
Age:		Services	25.4
Under 22 years	2.3	Hotel	6.5
22 to 24 years	4.6	Others	3.7
25 to 34 years	25.5		
35 to 44 years	29.7	Occupation:	
45 to 54 years	23.1	Prof., tech., mgr.	17.2
55 to 64 years	11.4	Clerical, sales	20.8
65 years and over	3.5	Services	17.0
		Farm, fish., forest	4.7
Sex:		Processing	0.7
Male	61.8	Machine trades	1.7
Female	38.2	Bench work	1.1
		Structural work	27.9
Industry:		Miscellaneous	6.7
Government	5.5	Not available	2.1
Agriculture	4.3		
Construction	24.8	Duration:	
Manufacturing	3.9	1 to 4 weeks	35.8
Trans., commun., util.	7.5	5 to 14 weeks	36.6
Wholesale, retail trade	20.0	15 weeks and over	27.5

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 1998.*

Table 12.10-- WAGE AND SALARY JOBCOUNT: ANNUAL AVERAGES, 1980 TO 1999

[Persons holding more than one job are counted in each position. As a result, these data differ from corresponding estimates of employment, reported elsewhere in this section.
Active-duty armed forces are excluded, unless also employed in civilian jobs.
Persons not working because of labor disputes are included]

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	488,150	380,850	40,650	22,200	44,400
1989	515,100	397,900	44,950	24,350	47,900
1990	538,600	413,500	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	49,550	24,450	55,850
1996	538,150	406,750	50,700	24,150	56,200
1997	538,700	1/ 404,950	1/ 51,650	1/ 24,100	1/ 57,000
1998	1/ 538,850	1/ 402,850	1/ 52,500	1/ 24,750	1/ 58,700
1999	541,400	401,650	53,750	25,500	60,500

1/ Revised.

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 12.11-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1995 TO 1999

[Data rounded to nearest 50. Totals may not add due to rounding or residual categories]

Industry	1995	1996	1997	1998	1999
Nonagriculture, wage and salary	532,850	530,750	531,500	1/ 531,250	533,700
Construction, mining	26,300	23,650	22,300	1/ 21,650	21,550
Manufacturing	17,000	16,650	16,550	1/ 16,450	16,450
Durable goods	3,550	3,450	3,300	3,300	3,400
Nondurable goods	13,400	13,200	13,300	1/ 13,150	13,050
Food processing 2/	6,350	6,300	6,400	1/ 6,500	6,500
Textile, apparel	2,200	2,150	(NA)	(NA)	(NA)
Printing, publishing	3,300	3,200	3,100	1/ 3,050	3,050
Transp., commun., utilities	40,700	41,050	41,300	1/ 41,150	41,000
Transportation 3/	30,700	31,000	31,150	1/ 31,000	30,900
Communication	6,250	6,400	6,600	1/ 6,750	6,750
Utilities	3,750	3,700	3,550	1/ 3,400	3,300
Trade	135,800	135,200	134,350	1/ 132,200	132,700
Wholesale	21,550	21,400	20,950	21,000	21,050
Retail	114,250	113,850	113,350	1/ 111,200	111,700
Finance, insur., real estate	37,150	36,900	36,150	35,500	34,950
Services and miscellaneous	164,500	166,650	169,200	1/ 172,200	174,250
Hotels	37,750	38,350	38,350	37,750	37,100
Health services	33,900	34,100	34,700	1/ 35,300	35,650
Government	111,400	110,550	111,700	112,200	112,800
Federal	31,050	31,100	30,650	30,400	30,350
Air Force	2,100	2,100	2,050	2,050	2,050
Army	4,450	4,850	5,000	4,900	4,700
Navy	10,200	9,850	9,250	9,100	9,000
State	63,950	62,800	64,250	64,950	65,800
Local 3/	16,450	16,600	16,750	16,850	16,650
Agriculture, wage and salary	7,300	7,400	7,200	7,550	7,700
Nonagric., self-employed	(NA)	(NA)	(NA)	(NA)	(NA)
Agric., self-employed	(NA)	(NA)	(NA)	(NA)	(NA)
Labor disputes	-	-	-	50	-

NA Not available.
1/ Revised.
2/ Data beginning with 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 12.12-- 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 12.13-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGES, 1998 REVISED

[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	1/ 531,250	1/ 400,650	1/ 50,000	1/ 23,950	1/ 56,700
Construction, mining	1/ 21,650	1/ 16,600	1/ 2,100	1/ 900	2,050
Manufacturing	1/ 16,450	1/ 12,750	1,500	400	1,750
Durable goods	3,300	1/ 12,750	1/ 250	1/ (Z)	250
Nondurable goods	1/ 13,150	1/ 10,000	1/ 1,300	400	1,500
Food processing	1/ 6,500	1/ 4,200	1/ 950	200	1,150
Printing, publishing	1/ 3,050	1/ 2,500	200	100	250
Transp., commun., utilities	1/ 41,150	1/ 32,550	1/ 2,850	1/ 1,650	1/ 4,050
Transportation	1/ 31,000	1/ 24,600	1/ 1,950	1/ 1,300	1/ 3,150
Communication	1/ 6,750	5,650	400	(NS)	500
Utilities	1/ 3,400	1/ 2,300	500	(NS)	400
Trade	1/ 132,200	1/ 96,900	1/ 13,200	1/ 6,750	1/ 15,350
Wholesale	21,000	1/ 17,150	1/ 1,900	450	1,450
Retail	1/ 111,200	1/ 79,750	1/ 11,250	1/ 6,250	1/ 13,900
Finance, insur., real estate	35,500	1/ 28,500	1/ 2,700	1,250	1/ 3,050
Services and miscellaneous	1/ 172,200	1/ 123,300	1/ 17,100	9,000	1/ 22,800
Hotels	37,750	16,800	6,600	3,550	10,800
Health services	1/ 35,300	1/ 28,900	1/ 2,650	1,450	2,300
Government	112,200	90,000	10,550	1/ 4,050	1/ 7,650
Federal	30,400	28,650	900	350	500
Air Force	2,050	1,950	-	1/ (Z)	-
Army	4,900	4,800	100	-	-
Navy	9,100	8,950	-	150	-
State	64,950	49,850	7,350	2,550	5,200
Local	16,850	11,500	2,350	1,100	1,950
Agriculture, wage and salary	7,550	2,200	2,500	800	2,000
Labor disputes	50	(Z)	(Z)	(Z)	(Z)

NS Not shown seperately.
Z Fewer than 50.
1/ Revised.
Source: Hawaii State Department of Labor and Industrial Relations Internet site http://www.hawaii.gov/workforce/ces.htm#jci.

Table 12.14-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGES, 1999

[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	533,700	399,450	51,300	24,600	58,350
Construction, mining	21,550	15,900	2,400	800	2,400
Manufacturing	16,450	12,750	1,550	450	1,750
Durable goods	3,400	2,850	250	50	300
Nondurable goods	13,050	9,900	1,300	400	1,450
Food processing	6,500	4,250	950	250	1,050
Printing, publishing	3,050	2,450	200	100	300
Transp., commun., utilities	41,000	31,850	2,850	1,750	4,500
Transportation	30,900	24,100	1,950	1,400	3,500
Communication	6,750	5,650	400	(NS)	500
Utilities	3,300	2,150	500	(NS)	500
Trade	132,700	96,500	13,350	7,050	15,800
Wholesale	21,050	16,900	2,150	500	1,500
Retail	111,700	79,650	11,250	6,550	14,250
Finance, insur., real estate	34,950	27,950	2,700	1,250	3,100
Services and miscellaneous	174,250	124,000	17,800	9,300	23,200
Hotels	37,100	16,100	6,450	3,650	10,950
Health services	35,650	28,750	3,000	1,500	2,400
Government	112,800	90,500	10,600	4,050	7,650
Federal	30,350	28,550	850	400	550
Air Force	2,050	2,000	(Z)	(Z)	-
Army	4,700	4,650	50	-	-
Navy	9,000	8,850	-	150	-
State	65,800	50,450	7,450	2,600	5,250
Local	16,650	11,450	2,250	1,050	1,900
Agriculture, wage and salary	7,700	2,200	2,450	900	2,150
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 12.15-- OCCUPATION: 1970 TO 1990

Occupation	1970	1980	1990
Employed persons 16 years and over	285,556	415,181	529,059
Managerial and professional specialty occupations	58,242	97,606	139,523
Executive, administrative, and managerial occupations	25,048	48,671	67,907
Professional specialty occupations	33,194	48,935	71,616
Technical, sales, and administrative support occupations	83,698	132,651	172,654
Technicians and related support 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 12.16-- 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 12.17-- CIVILIAN EMPLOYMENT, FULL- AND PART-TIME: ANNUAL AVERAGES, 1997 AND 1998

[Thousands]

Year, sex, and age	Full- and part-time	Full-time	Part-time			
			Total	Economic reasons	Non-economic reasons	Not at work
1997						
Total	555	439	116	24	84	7
Male	278	241	37	10	25	2
Female	275	197	78	14	58	5
16 to 19 years (both sexes)	20	5	15	2	12	1
1998						
Total	560	450	110	23	78	9
Male	277	242	35	9	22	3
Female	282	207	75	13	56	6
16 to 19 years (both sexes)	16	3	13	2	10	1

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1997* (Bulletin 2515, June 1999), table 13, and *Geographic Profile of Employment and Unemployment, 1998* (Bulletin 2524, November 1999), table 13 and <http://stats.bls.gov/opub/gp/gpsec2.htm> and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 12.18-- OCCUPATION OF EMPLOYED CIVILIANS IN PERCENT, BY SEX: ANNUAL AVERAGES, 1997 AND 1998

Occupation	Both sexes	Men	Women
1997			
All occupations (number in thousands)	554	279	275
Percent	100.0	100.0	100.0
Managerial and professional specialty			
Executive, administrative, and managerial	13.5	13.7	13.4
Professional specialty	13.2	11.4	15.0
Technical, sales, and administrative support			
Technicians and related support	2.4	2.6	2.2
Sales	13.3	9.7	16.9
Administrative support, including clerical	15.9	6.8	25.2
Service occupations	20.4	19.5	21.2
Precision production, craft, and repair	9.3	17.2	1.4
Operators, fabricators, and laborers			
Machine operators, assemblers, and inspectors	2.2	2.1	2.4
Transportation and material moving	3.3	6.3	0.3
Handlers, equipment cleaners, helpers, and laborers	2.9	5.2	0.7
Farming, forestry, and fishing	3.4	5.6	1.2
1998			
All occupations (number in thousands)	560	277	282
Percent	100.0	100.0	100.0
Managerial and professional specialty			
Executive, administrative, and managerial	12.9	14.1	11.3
Professional specialty	13.2	11.6	14.9
Technical, sales, and administrative support			
Technicians and related support	2.5	2.5	2.5
Sales	13.8	10.8	16.3
Administrative support, including clerical	16.1	5.1	27.0
Service occupations	19.6	18.1	21.3
Precision production, craft, and repair	8.6	16.2	1.4
Operators, fabricators, and laborers			
Machine operators, assemblers, and inspectors	2.7	3.2	2.1
Transportation and material moving	2.7	5.1	0.7
Handlers, equipment cleaners, helpers, and laborers	3.4	6.1	0.7
Farming, forestry, and fishing	4.5	7.2	1.8

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment*, *1997* (Bulletin 2515, June 1999), table 15, and *Geographic Profile of Employment and Unemployment, 1998* (Bulletin 2524, November 1999), table 15 and <http://stats.bls.gov/opub/gp/gpsec2.htm>.

Table 12.19-- MULTIPLE JOBHOLDERS, NUMBERS AND PERCENT OF EMPLOYED: ANNUAL AVERAGES FOR 1995 TO 1998

Subject	1995	1996	1997	1998
Employed, 16 years and over (1,000)	(NA)	555,000	(NA)	(NA)
Multiple jobholders (1,000)	(NA)	52,000	(NA)	(NA)
Percent of employed	8.8	9.4	8.7	8.8
Rank (50 States and D.C.) 1/	8	9	12	9
U.S.: percent multiple jobholders	(NA)	6.4	6.3	6.0

NA Not available.

1/ Rank of 1 for highest number of multiple jobholders.

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 12.20-- 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 12.21-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1988 TO 1998

Year	Number of reporting units, December 1/	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
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
1997	31,188	534,050	15,143,623	28,356
1998	31,259	534,140	15,505,321	29,029
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
1997	31,182	426,887	11,516,562	26,978
1998	31,253	426,255	11,790,625	27,661
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
1997	30,467	416,773	11,285,401	27,078
1998	30,531	415,620	11,547,237	27,783

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 12.22-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1998

County	Number of employers, December	Average employment	Total wages ($1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	31,259	534,140	15,505,321	29,029
City and County of Honolulu	21,906	400,035	12,098,181	30,243
Hawaii County	3,779	51,405	1,297,181	25,235
Kauai County	1,776	24,723	615,206	24,884
Maui County	3,804	57,977	1,494,753	25,782
EXCLUDING GOVERNMENT				
State total	31,253	426,255	11,790,625	27,661
City and County of Honolulu	21,903	313,841	9,103,516	29,007
Hawaii County	3,776	41,266	963,993	23,360
Kauai County	1,773	20,774	482,129	23,208
Maui County	3,801	50,373	1,240,987	24,636

Source: Hawaii State Department of Labor and Industrial Relations, *1998 Employment and Payrolls in Hawaii* (October 1999).

Table 12.23-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1998

Industry	Number of reporting units, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	31,259	534,140	15,505,321	29,029
Government	6	107,884	3,714,696	34,432
Federal	1	30,388	1,275,989	41,990
State	1	60,289	1,819,082	30,173
County	4	17,208	619,625	36,008
Private	31,253	426,255	11,790,625	27,661
Agriculture, forestry, fisheries 1/	722	10,635	243,388	22,886
Mining	12	275	14,079	51,198
Construction	2,553	21,286	927,067	43,553
Manufacturing 1/	990	16,290	512,185	31,442
Food processing 1/	235	6,435	166,107	25,813
Other manufacturing	745	9,855	346,079	35,117
Transportation	1,368	30,695	1,010,880	32,933
Communications	163	6,714	292,526	43,570
Utilities	101	3,390	194,430	57,354
Wholesale trade	2,561	20,986	699,421	33,328
Retail trade	7,145	111,107	1,924,963	17,325
Eating and drinking places	2,623	47,535	628,951	13,231
Other retail trade	4,522	63,572	1,296,012	20,387
Finance, insurance, real estate	3,898	35,495	1,282,683	36,137
Services	11,425	169,069	4,679,300	27,677
Hotels, rooming houses, etc.	345	37,753	980,042	25,959
Health services	2,360	35,349	1,378,405	38,994
Other services	8,720	95,967	2,320,853	24,184
Nonclassifiable establishments	315	314	9,702,713	30,900

1/ Separate data for sugar and pineapple are no longer available.

Source: Hawaii State Department of Labor and Industrial Relations, *1998 Employment and Payrolls in Hawaii* (October 1999).

Table 12.24-- 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 1998

[Including government]

Year	Current dollars	1982-1984 dollars 1/	Year	Current dollars	1982-1984 dollars 1/
1969	6,876	17,452	1984	16,714	16,149
1970	7,424	17,889	1985	17,335	16,231
1971	7,677	17,771	1986	18,069	16,516
1972	7,989	17,913	1987	19,060	16,588
1973	8,479	18,195	1988	20,454	16,807
1974	9,087	17,645	1989	21,635	16,810
1975	9,767	17,348			
			1990	23,109	16,734
1976	10,347	17,508	1991	24,051	16,251
1977	10,903	17,557	1992	25,532	16,462
1978	11,630	17,384	1993	26,544	16,580
1979	12,429	16,728	1994	26,718	16,242
1980	13,548	16,323	1995	26,983	16,052
1981	14,471	15,781	1996	27,359	16,028
1982	15,367	15,810	1997	28,356	16,496
1983	16,115	16,229	1998	29,029	16,927

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 12.25-- 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: 1988 AND 1998

Class of worker	1988: current dollars	1998		Percent change, 1988-1998	
		Current dollars	Deflated to 1988 dollars 1/	Current dollars	1988 dollars 2/
All classes	20,454	29,029	20,600	41.9	0.7
Federal	28,133	41,990	29,797	49.3	5.9
State	22,111	30,173	21,411	36.5	-3.2
County	24,387	36,008	25,552	47.7	4.8
Private	19,444	27,661	19,629	42.3	0.6

1/ The all-items consumer price index (CPI-U) for Honolulu increased 40.9 percent from 1988 to 1998.

2/ Percent change from 1988 current dollars to 1998 current dollars that were deflated to 1988 dollars.

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 12.26-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1998

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	31,270	17,048	6,172	3,974	2,570	898	608
Employment	432,191	29,429	40,732	53,461	76,717	60,849	171,003

Source: Hawaii State Department of Labor and Industrial Relations, *1998 Employment and Payrolls in Hawaii* (October 1999).

Table 12.27-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE INDUSTRY: 1988 TO 1998

[Based on data submitted by employers subject to State unemployment insurance (UI) laws, and by Federal agencies subject to the Unemployment Compensation for Federal Employees (UCFE) program]

	Annual wages per employee (dollars)		Hawaii as percent of U.S		Rank 1/	
Year	Total	Private only	Total	Private only	Total	Private only
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
1997	28,358	26,980	93.5	89.8	2/ 24	2/ 28
1998	29,029	27,662	91.0	87.2	3/ 25	3/ 29

1/ From highest to lowest annual wages.

2/ Among 50 States and D.C. Excluding D.C., Hawaii ranked 23rd for all workers and 27th for private workers in 1997.

3/ Among 49 States and D.C., no data available for New Jersey. Excluding New Jersey and D.C., Hawaii ranked 24th for all workers and 28th for private workers in 1998.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages* (annual report), tables 3 and 5.

Table 12.28-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1994 TO 1999

Subject	1994	1995	1996	1997	1998	1999
Average weekly earnings (dollars)						
Construction and mining	898.18	922.27	936.21	1/ 957.29	964.40	984.61
Manufacturing	468.03	480.75	487.30	496.87	1/ 490.87	529.76
Food and kindred products	414.63	382.69	423.71	427.93	403.90	454.85
Communication and utilities	838.27	845.04	863.59	884.38	1/ 870.70	895.89
Trade	284.45	288.76	293.78	303.39	1/ 306.92	302.23
Wholesale trade	461.23	469.94	445.94	467.87	498.71	524.10
Retail trade	252.54	257.50	267.33	273.83	273.31	262.43
Eating, drinking places	184.94	184.06	185.67	186.21	189.47	177.28
Banking & credit agencies	406.15	414.32	412.91	434.28	456.74	469.94
Hotels	386.46	406.90	411.40	422.73	433.90	437.16
Average weekly hours						
Construction and mining	37.3	36.7	36.4	35.8	35.6	35.7
Manufacturing	38.3	37.5	38.1	37.9	37.3	39.3
Food and kindred products	40.1	35.9	37.2	35.9	34.2	36.8
Communication and utilities	42.9	42.0	41.8	42.6	41.7	42.1
Trade	30.1	30.3	30.1	30.4	30.6	29.4
Wholesale trade	38.5	38.3	37.1	37.4	38.6	38.2
Retail trade	28.6	28.9	28.9	29.1	29.2	27.8
Eating, drinking places	25.3	25.6	25.4	25.3	25.5	23.7
Banking & credit agencies	38.1	37.7	39.4	40.1	41.0	38.3
Hotels	33.9	34.6	34.0	33.9	34.3	34.1
Average hourly earnings (dollars)						
Construction and mining	24.08	25.13	25.72	26.74	27.09	27.58
Manufacturing	12.22	12.82	12.79	13.11	1/ 13.16	13.48
Food and kindred products	10.34	10.66	11.39	11.92	11.81	12.36
Communication and utilities	19.54	20.12	20.66	20.76	1/ 20.88	21.28
Trade	9.45	9.53	9.76	9.98	1/ 10.03	10.28
Wholesale trade	11.98	12.27	12.02	12.51	12.92	13.72
Retail trade	8.83	8.91	9.25	9.41	9.36	9.44
Eating, drinking places	7.31	7.19	7.31	7.36	7.43	7.48
Banking & credit agencies	10.66	10.99	10.48	10.83	11.14	12.27
Hotels	11.40	11.76	12.10	12.47	12.65	12.82

1/ Revised.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book, May 1999,* pp. 12-15, and Internet site http://www.hawaii.gov/dlir/rs/loihi/LFR/H%26E.HTM.

Table 12.29-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1995 TO 1999

[In dollars]

Job classification 1/	1995	1996	1997	1998	1999
ANNUAL RATES					
Clerk, entry level	17,794	17,774	18,833	18,836	20,256
Cashier	23,420	23,307	25,503	26,755	26,513
Secretary	26,636	26,846	28,020	28,514	28,983
Switchboard operator	22,870	23,150	24,503	24,237	25,418
Bookkeeper, full-charge	29,827	30,431	32,137	33,466	31,590
Engineering drafting technician	32,193	35,960	35,298	39,103	40,615
Hospital attendant	21,949	22,401	(NA)	(NA)	(NA)
Staff nurse	50,827	52,560	(NA)	(NA)	(NA)
HOURLY RATES					
Housekeeper	10.10	10.45	11.07	11.07	11.54
Cook, general	12.94	12.50	13.24	13.48	15.00
Wait help	5.63	5.89	6.03	5.96	5.93
Laborer, light	9.01	9.12	9.38	8.98	9.46
Carpenter, maintenance	15.29	15.64	16.01	16.36	20.20
Electrician, maintenance	17.55	17.51	19.73	21.86	22.90
Automotive mechanic	15.27	15.97	16.04	16.58	16.78
Truck driver (trailer)	12.30	13.40	13.65	14.12	14.17

NA Not available.

1/ The 14 job titles with data for 1999 are meant to be only illustrative of the 80 reported in the 1999 publication.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (annual).

Table 12.30-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1999

[In dollars]

Job classification 1/	State average	Kauai	Oahu	Maui County	Hawaii County
ANNUAL RATES					
Clerk, entry level	20,256	20,385	20,257	...	19,056
Cashier	26,513	...	27,087	25,899	...
Secretary	28,983	25,826	29,206	29,252	24,962
Switchboard operator	25,418	...	25,751	...	...
Bookkeeper, full-charge	31,590	...	31,758	...	…
Engineering drafting technician	40,615	...	41,534	...	...
HOURLY RATES					
Housekeeper	11.54	...	11.70	10.77	...
Cook, general	15.00	...	15.33	15.71	...
Wait help	5.93	...	5.95	...	...
Laborer, light	9.46	...	9.41	...	...
Carpenter, maintenance	20.20	...	20.69	...	...
Electrician, maintenance	22.90	...	23.95	…	...
Automotive mechanic	16.78	...	17.50	15.90	15.35
Truck driver (trailer)	14.17	...	14.45	...	...

… Base too small for reliable computation.

1/ The 14 job titles with data are meant to be only illustrative of the 80 reported.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (Research Report Number 3790, October 1999).

Table 12.31-- WAGES OF HAWAII'S 25 LARGEST OCCUPATIONS: 1998

OES Code	Occupation Title	Employment	Mean Wage	
			Hourly	Annual
49011	Salespersons, Retail	22,180	8.86	18,430
67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	13,250	8.58	17,850
49023	Cashiers	12,730	8.80	18,290
55347	General Office Clerks	12,540	10.58	22,010
65008	Waiters and Waitresses	12,190	6.39	13,280
65041	Combined Food Preparation and Service Workers	11,490	6.73	13,990
19005	General Managers and Top Executives	10,670	31.82	66,190
67002	Maids and Housekeeping Cleaners	10,010	10.86	22,600
41002	First-Line Supervisors and Managers/Supervisors - Sales and Related Workers	9,410	16.82	34,990
55108	Secretaries, Except Legal and Medical	9,230	13.63	28,340
32502	Registered Nurses	8,560	27.11	56,390
63047	Guards and Watch Guards	8,110	8.78	18,250
55338	Bookkeeping, Accounting, and Auditing Clerks	8,040	12.52	26,040
51002	First-Line Supervisors and Managers/Supervisors - Clerical and Administrative Support Workers	7,730	17.62	36,640
65038	Food Preparation Workers	7,650	8.80	18,300
85132	Maintenance Repairers, General Utility	6,440	13.77	28,640
79041	Laborers, Landscaping and Groundskeeping	6,420	10.72	22,300
98999	All Other Helpers, Laborers, and Material Movers, Hand	5,810	13.28	27,630
97105	Truck Drivers, Light, Include Delivery and Route Workers	5,460	10.10	21,020
65026	Cooks, Restaurant	5,390	10.89	22,650
31308	Teachers, Secondary School	5,210	(NA)	42,120
49021	Stock Clerks, Sales Floor	5,170	9.25	19,230
61099	All Other Supervisors and Managers/Supervisors - Service Workers	5,150	13.00	27,040
55305	Receptionists and Information Clerks	5,080	9.99	20,770
21114	Accountants and Auditors	4,230	21.50	44,720

NA Not available.

Source: Occupational Employment Statistics (OES) Survey for Hawaii, 1998, U.S. Department of Labor, Bureau of Labor Statistics in cooperation with the Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, Labor Market Research Section - OES. http://stats.bls.gov/oes/state/oes_hi.htm; http://www.state.hi.us/dlir/rs/loihi

Table 12.32-- WAGES OF HONOLULU METROPOLITAN STATISTICAL AREA'S 25 LARGEST OCCUPATIONS: 1998

OES Code	Occupation Title	Employment	Mean Wage	
			Hourly	Annual
49011	Salespersons, Retail	16,140	8.87	18,450
67005	Janitors and Cleaners, Except Maids and Housekeeping Cleaners	10,500	8.52	17,710
55347	General Office Clerks	9,370	10.73	22,330
65041	Combined Food Preparation and Service Workers	8,930	6.51	13,540
49023	Cashiers	8,890	8.82	18,340
19005	General Managers and Top Executives	7,950	32.66	67,940
55108	Secretaries, Except Legal and Medical	7,560	13.82	28,740
65008	Waiters and Waitresses	7,160	6.49	13,500
32502	Registered Nurses	6,830	28.10	58,450
41002	First-Line Supervisors and Managers/Supervisors - Sales and Related Workers	6,590	17.57	36,550
63047	Guards and Watch Guards	6,330	8.48	17,630
55338	Bookkeeping, Accounting, and Auditing Clerks	6,060	12.73	26,470
51002	First-Line Supervisors and Managers/Supervisors - Clerical and Administrative Support Workers	5,940	18.20	37,850
67002	Maids and Housekeeping Cleaners	5,720	10.84	22,550
65038	Food Preparation Workers	5,040	8.64	17,970
98999	All Other Helpers, Laborers, and Material Movers, Hand	4,620	13.79	28,670
97105	Truck Drivers, Light, Include Delivery and Route Workers	4,370	10.01	20,830
85132	Maintenance Repairers, General Utility	4,180	13.92	28,950
55305	Receptionists and Information Clerks	3,920	9.70	20,170
61099	All Other Supervisors and Managers/Supervisors - Service Workers	3,670	12.92	26,880
49021	Stock Clerks, Sales Floor	3,610	9.46	19,670
21114	Accountants and Auditors	3,460	22.17	46,110
79041	Laborers, Landscaping and Groundskeeping	3,460	10.64	22,130
39999	All Other Professional, Paraprofessional, and Technical Workers	3,360	19.90	41,390
66008	Nursing Aides, Orderlies, and Attendants	3,140	10.53	21,910

Source: Occupational Employment Statistics (OES) Survey for Hawaii, 1998, U.S. Department of Labor, Bureau of Labor Statistics in cooperation with the Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, Labor Market Research Section - OES. http://stats.bls.gov/oes/msa/oes_3320m.htm; http://www.state.hi.us/dlir/rs/loihi

Table 12.33-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1999

[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/ 4/	5.25
1958	1.00	1.00	1978	2.65		

1/ At inception of minimum wage law, April 1, 1942.
2/ January 1.
3/ April 1.
4/ Current minimum as of July 2000.
Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 12.34-- NUMBER OF PERSONS AT WORK BY WEEKLY HOURS OF WORK: ANNUAL AVERAGES, 1994 TO 1998

[In thousands]

Weekly hours at work	1994	1995	1996	1997	1998 1/
Total	519	518	528	528	532
1 to 14 hours	29	29	30	26	25
15 to 29 hours	67	67	77	80	75
30 to 34 hours	41	50	45	49	59
35 to 39 hours	28	26	27	28	28
40 hours	221	218	223	221	217
41 to 48 hours	46	41	37	37	42
49 hours and over	87	88	88	87	87

1/ Average hours at work is 38.3 and for persons who usually work full-time is 42.4 hours per week.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1997,* Bulletin 2515 (June 1999), table 18; *1998*, Bulletin 2524 (November 1999), table 18, and <http://stats.bls.gov/opub/gp/gpappend.htm> and earlier reports.

Table 12.35-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1949 TO 1999

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	1975	7,607	8,785	115
1950	966	1,105	114	1976	7,458	8,334	112
1951	377	1,139	302	1977	5,846	8,154	139
1952	455	1,667	366	1978	4,313	6,261	145
1953	576	1,775	308				
1954	907	1,698	187	1979	4,272	5,250	123
1955	665	1,812	272	1980	5,211	4,956	95
1956	686	1,617	236	1981	5,485	4,396	80
1957	1,100	1,813	165	1982	5,372	4,848	90
1958	1,547	2,219	143	1983	4,414	4,659	106
				1984	4,123	4,220	102
1959	1,280	2,126	166	1985	4,039	3,993	99
1960	1,716	2,595	151	1986	3,664	3,932	107
1961	2,863	3,235	113	1987	3,805	3,161	83
1962	2,966	3,594	121	1988	3,942	2,974	75
1963	2,683	3,787	141				
1964	2,572	3,705	144	1989	3,961	2,679	68
1965	2,257	3,411	151	1990	5,275	2,910	55
1966	1,859	2,655	143	1991	7,197	3,453	48
1967	2,196	3,102	141	1992	9,554	4,432	46
1968	2,014	2,896	144	1993	9,543	4,356	46
				1994	10,121	4,229	42
1969	2,652	3,600	136	1995	10,115	4,000	40
1970	5,078	6,062	119	1996	8,633	3,338	39
1971	6,215	6,908	111	1997	7,051	2,044	29
1972	6,124	5,994	98	1998	4,366	1,502	34
1973	5,255	6,116	116	1999	3,511	1,098	31
1974	5,924	6,988	118				

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, 2000,* p. 15, and records.

Table 12.36-- NONFATAL OCCUPATIONAL INJURIES AND ILLNESSES, PRIVATE SECTOR: 1995 TO 1998

[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]

	Recordable cases	Per 100 full-time workers	Lost workday cases	Per 100 full-time workers	Nonfatal cases without lost workdays
Injuries and illnesses					
1995	27,100	8.0	13,900	4.1	13,100
1996	23,000	6.8	12,100	3.6	10,800
1997	23,500	6.8	12,800	3.7	10,700
1998	21,200	6.5	12,100	3.7	9,100
Injuries					
1995	26,200	7.7	13,400	4.0	12,800
1996	21,900	6.5	11,600	3.4	10,300
1997	22,700	6.6	12,400	3.6	10,300
1998	20,400	6.3	11,700	3.6	8,700

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, *1996 Occupational Injuries and Illnesses Survey,* p. 4.; and for 1996 to 1998, U.S. Bureau of Labor Statistics & Health Statistics, "State Occupational Injuries and Illnesses" at <http://stats.bls.gov/oshstate.htm> accessed July 7, 2000.

Table 12.37-- WORK INJURIES, DEATHS, TIME LOST AND COMPENSATION COSTS: 1990 TO 1998

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
1997	33,255	30	1,258,468	254,915
1998	30,727	17	1,160,365	233,225

Source: Hawaii State Department of Labor and Industrial Relations, *Workers' Compensation Data Book* (annual).

Table 12.38-- UNION MEMBERSHIP AND EARNINGS, 1988, 1993, AND 1998, AND BY SECTOR, 1998

Subject	1988	1993	1998		
			Total	Private sector workers	Public sector workers
Sample size	1,842	1,727	1,514	1,199	315
Employment (1,000)	441.5	490.7	491.8	390.4	101.4
Percent union members	30.5	28.1	1/ 26.5	19.4	53.7
Percent covered by collective bargaining agreement	32.9	31.3	2/ 27.7	20.1	57.3
Mean earnings (1996 dollars):					
Weekly	584	588	3/ 545	527	615
Hourly	14.69	15.11	14.02	13.70	15.25
Union workers:					
Employment (1,000)	134.5	137.8	130.2	75.7	54.5
Mean earnings (1996 dollars):					
Weekly	663	685	664	643	693
Hourly	16.59	17.09	16.75	16.91	16.53
Nonunion workers:					
Employment (1,000)	307.0	352.9	361.6	314.7	46.9
Mean earnings (1996 dollars):					
Weekly	549	551	503	500	523
Hourly	13.86	14.33	13.04	12.93	13.77

1/ The U.S. percentage was 13.9. Hawaii ranked 1st among the 50 states.
2/ The U.S. percentage was 15.4. Hawaii ranked 1st among the 50 states.
3/ The U.S. mean was $577. Hawaii ranked 26th among the 50 states.

Source: Barry T. Hirsch and David A. Macpherson, *Union Membership and Earnings Data Book: Compilations from the Current Population Survey (1999 Edition),* The Bureau of National Affairs, Inc., 1999, tables 5a, 5b, and 5c.

Table 12.39-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1998 AND 1999

Subject	Total	AFL-CIO affiliated	Independent
1998			
Unions and associations	109	95	14
Membership 1/	184,694	162,368	2/ 22,326
1999			
Unions and associations	115	100	15
Membership 1/	206,189	183,857	2/ 22,332

1/ Data exclude two unions not reporting membership: Graphic Communications International Union Local 501-M and the Hawaii Printing and Graphic Communications Union Local 413-N. The largest memberships were those reported by Hawaii Government Employees AFSCME, Local 152 (1998 of 39,400 and 1999 of 40,100); Longshoremen's and Warehousemen's Union, Local 142 (1998 of 25,000 and 1999 of 25,000); Teamsters, Chauffeurs, Warehousemen and Helpers of America, Local 986 (1998 of 16,000 and 1999 of 16,000).

2/ Two unions submitted membership figures which were estimates: Industrial Workers of the World Oahu General Membership Branch and State of Hawaii Organization of Police Officers (SHOPO).

Source: Hawaii State AFL-CIO, *Directory of Labor Organizations & Affiliates, 1998* and *1999*; survey of non-reporting unions and organizations.

Table 12.40-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS, BY EMPLOYING JURISDICTION: 1996 TO 1999

[As of December 31]

Employing jurisdiction	1996	1997	1998	1999
Total	53,825	53,773	54,090	54,778
State of Hawaii	22,781	22,869	23,357	23,484
City and County of Honolulu	8,165	8,155	8,106	7,995
County of Hawaii	1,763	1,776	1,805	1,815
County of Maui	1,613	1,629	1,649	1,632
County of Kauai	859	869	865	875
Dept. of Education	12,819	12,651	12,416	13,113
Judiciary	1,428	1,421	1,430	1,434
University of Hawaii	4,397	4,403	4,462	4,430

Source: Hawaii Labor Relations Board, *HLRB Informational Bulletin,* No. 37, February 23, 2000, and earlier issues.

Table 12.41-- COLLECTIVE BARGAINING AGREEMENTS: 1987 TO 1999

Year	Number of agree-ments	Workers covered		Year	Number of agree-ments	Workers covered	
		Total	Per agree-ment			Total	Per agree-ment
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
				1999	123	65,890	535

1/ For earlier years, 1964-1986, see source.

Source: Industrial Relations Center, University of Hawaii at Manoa, *Duration of Collective Bargaining Agreements in Hawaii, 1999* (December 1998), p. 1.

Table 12.42-- WORK STOPPAGES: 1990 TO 1999

[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/
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	-	-	-
1998	1	150	(NA)
1999	-	-	-

NA Not available.
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 12.43-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS: 1984 TO 1999

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	-	-	-	-
1998	-	-	-	-
1999	-	-	-	-

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; Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Section 13: Income, Expenditures, and Wealth

Section Narrative	
13.01	Direct Income from Major Export Industries: 1974 to 1999
13.02	Gross State Product and Per Capita Gross State Product: 1985 to 1999
13.03	Gross State (Domestic) Product, United States and Hawaii: 1977 to 1998
13.04	Gross State (Domestic) Product, by Industry: 1977 to 1998
13.05	Total and Per Capita Personal Income for the United States and Hawaii: 1958 to 1999
13.06	Total and Per Capita Disposable Personal Income for the United States and Hawaii: 1958 to 1999
13.07	Personal Income by Major Sources: 1994 to 1999
13.08	Personal Income, Total and Per Capita by County: 1969 to 1998
13.09	Economic Estimates and Projections: 1998 to 2025
13.10	Median Income of Households, Families, Unrelated Individuals, and Persons: 1949 to 1989
13.11	Median Income of Families in the United States and Hawaii: 1974 to 1998
13.12	Median Money Income of Households, for the United States and Hawaii, 2-Year Moving Averages, in Constant 1999 Dollars: 1984 to 1999
13.13	Median Money Income of Households, for the United States and Hawaii, 3-Year Moving Averages in Constant 1999 Dollars: 1984 to 1999
13.14	Median Income of Households, Families, and Nonfamily Households, and Percent of Families and Persons Below Poverty Level, for Counties and Selected Urban Places: 1989
13.15	Estimated Median Household Income and Poverty Status for State 1995 and 1996 and by County: 1995
13.16	Income of Households and Families: 1993 to 1997
13.17	Income Type and Per Capita Income in 1989, by Geographic Areas: 1990
13.18	Poverty Status of Persons: 1969, 1975, and 1979 to 1998
13.19	Poverty Status in 1989, for the State and Oahu: 1990
13.20	Poverty Income Guidelines: 1993 to 2000

13.21	Average Annual Expenditures and Other Characteristics of Consumer Units, for Oahu: 1991-92 to 1997-98		
13.22	Average Annual Expenditures and Other Characteristics of Consumer Units, for the Western United States (Including Honolulu): 1997-98		
13.23	Top Wealthholders: 1962 to 1995		
13.24	Top Wealthholders with Total Assets of $600,000 or More and Net Worth under $10,000,000, 1995: Total and Selected Assets, Debts, and Net worth, U.S. and Hawaii		
13.25	(Net) Worth of Richest Residents: 1994 to 2000		

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on different aspects of income and expenditures, relating to State personal income, Gross State Product accounts and 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. Census Bureau, 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: 1999*, Section 14.

Table 13.01-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1974 TO 1999

[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	1,232.9
1975	366.1	136.7	1,442.1	1,354.7
1976	257.0	144.5	1,499.2	1,636.5
1977	226.8	161.6	1,576.1	1,833.9
1978	285.2	162.8	1,644.5	2,149.9
1979	345.7	206.4	1,707.7	2,540.6
1980	594.1	226.5	1,865.4	2,870.8
1981	327.9	217.6	2,041.2	3,195.4
1982	351.5	206.0	2,385.3	3,686.8
1983	410.2	219.0	2,566.5	3,847.2
1984	393.0	249.6	2,653.0	4,441.9
1985	340.8	222.5	3,111.6	5,081.4
1986	361.9	238.4	3,098.6	5,917.8
1987	335.9	251.4	3,077.6	6,676.3
1988	324.0	247.0	3,188.4	8,303.8
1989	322.0	241.9	3,295.9	8,905.1
1990	328.9	215.9	3,346.2	9,082.1
1991	270.7	224.6	3,648.2	9,817.7
1992	237.6	197.7	3,837.4	9,310.9
1993	251.9	140.6	3,759.6	8,472.3
1994	247.9	134.1	3,876.8	10,253.9
1995	200.2	135.0	3,782.5	11,107.2
1996	168.8	147.0	3,883.5	10,166.8
1997	132.5	136.7	4,074.9	10,491.0
1998	133.1	145.1	4,103.7	10,309.2
1999	(NA)	(NA)	4,174.2	10,279.7

NA not available.

1/ Excludes government sugar support payments.

2/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation. Estimates for 1984 and earlier years also exclude additional business expenditures by MCI (meetings, conventions, and incentive) visitors. Source data for 1951 through 1998 have been revised.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual), records, and for 1997 and 1998 <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 State Department of Business, Economic Development & Tourism, Tourism Research Branch, *Annual Visitor Research Report 1999* and records.

PRODUCT AND RESIDENT POPULATION: 1985 TO 1999

[Current dollar GSP series for 1985-1999 was revised based on state total personal income revision released by U.S. Bureau of Economic Analysis, September 12, 2000]

Year	Gross state product		Per capita gross state product		Resident Population [as of July 1]
	Millions of current dollars	Millions of 1992 dollars	Current dollars	1992 dollars	
1985	18,664.0	26,161.5	17,951	25,163	1,039,698
1986	19,849.8	27,190.8	18,873	25,853	1,051,762
1987	21,563.0	28,252.2	20,192	26,455	1,067,917
1988	23,916.9	29,767.1	22,149	27,567	1,079,827
1989	26,447.3	31,322.9	24,162	28,616	1,094,588
1990	29,091.0	32,395.6	26,144	29,114	1,112,703
1991	30,729.8	32,204.8	27,161	28,464	1,131,412
1992	32,504.3	32,504.3	28,266	28,266	1,149,926
1993	33,532.0	32,670.5	28,869	28,128	1,161,508
1994	34,354.6	32,655.6	29,265	27,818	1,173,903
1995	34,526.4	32,207.0	29,248	27,283	1,180,490
1996	34,893.6	32,068.3	29,460	27,075	1,184,434
1997	35,788.8	32,683.8	30,092	27,481	1,189,322
1998	36,456.4	33,354.5	30,623	28,018	1,190,472
1999	37,417.0	33,903.4	31,562	28,598	1,185,497

Source: Hawaii State Department of Business, Economic Development & Tourism, records; and U.S.

Table 13.03-- GROSS STATE (DOMESTIC) PRODUCT, UNITED STATES AND HAWAII: 1977 TO 1998

[Data for 1977-97 are revised]

	Hawaii			United States		
	Millions of dollars		Chained 1996 quantity index (1996=100)	Millions of dollars		Chained 1996 quantity index [1996=100]
Year	Current	Chained (1996) dollars		Current	Chained (1996) dollars	
1977	9,390	(NA)	62.7	1,985,693	(NA)	58.6
1978	10,521	(NA)	65.4	2,249,045	(NA)	61.8
1979	11,974	(NA)	69.2	2,503,867	(NA)	63.7
1980	13,421	(NA)	70.9	2,731,618	(NA)	63.6
1981	14,526	(NA)	69.6	3,069,751	(NA)	65.2
1982	15,505	(NA)	69.6	3,217,626	(NA)	64.1
1983	16,904	(NA)	72.0	3,446,583	(NA)	66.0
1984	18,541	(NA)	74.2	3,866,334	(NA)	71.0
1985	19,983	(NA)	76.2	4,151,449	(NA)	73.9
1986	21,525	29,452	78.5	4,355,877	5,816,656	75.4
1987	23,404	30,893	82.3	4,683,245	6,072,814	78.7
1988	26,007	33,017	88.0	5,092,174	6,386,132	82.8
1989	28,801	35,301	94.1	5,411,353	6,538,634	84.7
1990	32,255	38,122	101.6	5,706,658	6,630,742	85.9
1991	33,989	38,502	102.6	5,895,430	6,615,685	85.7
1992	35,532	39,101	104.2	6,209,096	6,774,505	87.8
1993	36,304	38,806	103.4	6,513,026	6,918,389	89.7
1994	36,763	38,328	102.2	6,930,791	7,203,002	93.4
1995	37,259	37,963	101.2	7,309,516	7,433,965	96.3
1996	37,517	37,517	100.0	7,715,901	7,715,901	100.0
1997	38,807	37,996	101.3	8,240,312	8,120,854	105.2
1998	39,712	38,015	101.3	8,745,219	8,537,669	110.7

NA Not available.

Source: U.S. Bureau of Economic Analysis, Gross State Product By Industry, 1977-98, <http://www.bea.doc.gov/bea/regional/data.html>, September 5, 2000.
http://www.bea.doc.gov/bea/regional/gsp/

Table 13.04-- GROSS STATE (DOMESTIC) PRODUCT, BY INDUSTRY: 1977 TO 1998

[In millions of current dollars. GSP estimates of private industries for 1987 forward are presented on the basis of the 1987 Standard Industrial Classification code (SIC). Estimates for earlier years are presented on the basis of the 1972 SIC. Data for 1977-97 are revised]

Industry	1977	1982	1987	1992	1993	1994	1995	1996	1997	1998
Total, all industries	9,390	15,505	23,404	35,532	36,304	36,763	37,259	37,517	38,807	39,712
Private industries	6,786	11,416	17,881	27,858	28,374	28,816	29,294	29,483	30,361	31,040
Agriculture, forestry, fisheries	218	338	428	482	474	460	438	445	444	438
Farms	187	291	326	294	274	274	251	265	265	254
Ag. serv, forestry, fisheries	31	47	102	188	200	186	187	180	179	183
Mining	(L)	3	14	39	34	33	31	31	29	27
Construction	577	735	1,174	2,200	2,304	2,090	1,925	1,764	1,672	1,650
Manufacturing	518	698	1,005	1,254	1,088	1,132	1,098	1,131	1,085	1,063
Transp, commun, utilities	943	1,469	2,343	3,413	3,319	3,481	3,802	3,881	4,077	4,157
Wholesale trade	456	652	910	1,369	1,403	1,461	1,452	1,472	1,510	1,535
Retail trade	993	1,632	2,526	3,812	3,938	4,063	4,119	4,208	4,290	4,233
Finance, insurance, real estate	1,588	3,159	5,109	8,005	8,358	8,266	8,400	8,369	8,766	9,154
Real estate	1,260	2,461	3,824	6,454	6,761	6,793	6,893	6,985	7,121	7,155
Services	1,492	2,731	4,371	7,285	7,456	7,829	8,030	8,181	8,487	8,783
Hotels	427	768	1,097	1,701	1,704	1,835	1,957	2,054	2,136	2,150
Health services	62	160	316	429	446	460	465	444	472	487
Other than hotels and health	753	1,360	2,286	3,818	3,891	4,002	4,024	4,011	4,207	4,435
Government	2,604	4,088	5,523	7,674	7,931	7,947	7,965	8,034	8,446	8,673
Federal government	1,730	2,686	3,687	4,515	4,489	4,533	4,516	4,579	4,820	4,939
Civilian	681	1,125	1,414	1,730	1,753	1,799	1,866	1,830	2,007	2,133
Military	1,049	1,561	2,273	2,785	2,736	2,734	2,650	2,749	2,813	2,806
State and local government	874	1,402	1,836	3,159	3,441	3,414	3,449	3,455	3,625	3,733

L Less than $500,000.

Source: U.S. Bureau of Economic Analysis, Gross State Product By Industry, 1977-98, <http://www.bea.doc.gov/bea/regional/data.html>, September 5, 2000; and calculations by Hawaii State Department of Business, Economic Development & Tourism.
http://www.bea.doc.gov/bea/regional/gsp/

Table 13.05 -- TOTAL AND PER CAPITA PERSONAL INCOME FOR THE UNITED STATES AND HAWAII: 1958 TO 1999

[Data for 1958-99 have been revised. Data in Table 13.04, 13.05 and 13.06 are annual data generally released in September. Data are subject to subsequent revision]

Year	Personal income (in $1,000)		Resident population (as of July 1)		Per capita personal income (dollars)		Hawaii per capita personal income as percent of U.S. average
	U.S.	Hawaii	U.S.	Hawaii	U.S.	Hawaii	
1958	368,238,162	1,168,385	174,153,000	605,000	2,114	1,931	91.3
1959	392,420,370	1,306,683	177,136,000	622,000	2,215	2,101	94.9
1960	409,617,000	1,497,170	179,972,000	642,000	2,276	2,332	102.5
1961	427,094,000	1,619,679	182,976,000	659,000	2,334	2,458	105.3
1962	454,486,000	1,734,900	185,739,000	684,000	2,447	2,536	103.6
1963	477,521,000	1,849,749	188,434,000	682,000	2,534	2,712	107.0
1964	511,831,000	2,012,096	191,085,000	700,000	2,679	2,874	107.3
1965	553,074,000	2,205,026	193,457,000	704,000	2,859	3,132	109.5
1966	601,119,000	2,412,034	195,499,000	710,000	3,075	3,397	110.5
1967	644,282,000	2,620,398	197,375,000	723,000	3,264	3,624	111.0
1968	707,542,000	2,949,709	199,312,000	734,000	3,550	4,019	113.2
1969	774,262,000	3,379,430	201,298,000	743,000	3,846	4,548	118.3
1970	834,455,000	3,887,781	203,798,722	762,920	4,095	5,096	124.4
1971	899,249,000	4,220,937	206,817,509	791,580	4,348	5,332	122.6
1972	988,362,000	4,660,493	209,274,882	818,104	4,723	5,697	120.6
1973	1,107,992,000	5,178,451	211,349,205	841,851	5,242	6,151	117.3
1974	1,220,181,000	5,965,410	213,333,635	858,121	5,720	6,952	121.5
1975	1,326,214,000	6,464,812	215,456,585	875,052	6,155	7,388	120.0
1976	1,469,752,000	7,031,994	217,553,859	892,335	6,756	7,880	116.6
1977	1,630,901,000	7,651,713	219,760,875	915,749	7,421	8,356	112.6
1978	1,841,340,000	8,496,961	222,098,244	928,816	8,291	9,148	110.3
1979	2,072,839,000	9,678,890	224,568,579	950,050	9,230	10,188	110.4
1980	2,313,921,000	11,139,821	227,224,719	967,710	10,183	11,512	113.1
1981	2,588,335,000	12,040,673	229,465,744	978,195	11,280	12,309	109.1
1982	2,756,954,000	12,846,182	231,664,432	993,780	11,901	12,927	108.6
1983	2,935,040,000	14,056,006	233,792,014	1,012,717	12,554	13,880	110.6
1984	3,260,064,000	15,328,363	235,824,907	1,027,922	13,824	14,912	107.9
1985	3,498,662,000	16,315,803	237,923,734	1,039,698	14,705	15,693	106.7
1986	3,697,359,000	17,258,805	240,132,831	1,051,762	15,397	16,409	106.6
1987	3,945,515,000	18,573,734	242,288,936	1,067,917	16,284	17,392	106.8
1988	4,255,000,000	20,398,903	244,499,004	1,079,827	17,403	18,891	108.6
1989	4,582,429,000	22,483,047	246,819,222	1,094,588	18,566	20,540	110.6
1990	4,885,525,000	24,914,831	249,464,396	1,112,703	19,584	22,391	114.3
1991	5,065,416,000	26,197,700	252,153,092	1,131,412	20,089	23,155	115.3
1992	5,376,622,000	27,859,163	255,029,699	1,149,926	21,082	24,227	114.9
1993	5,598,446,000	29,067,950	257,782,608	1,161,508	21,718	25,026	115.2
1994	5,878,362,000	29,740,250	260,327,021	1,173,903	22,581	25,335	112.2
1995	6,192,235,000	30,201,631	262,803,276	1,180,490	23,562	25,584	108.6
1996	6,538,103,000	30,393,181	265,228,572	1,184,434	24,651	25,661	104.1
1997	6,928,762,000	31,209,168	267,783,607	1,189,322	25,874	26,241	101.4
1998	7,383,687,000	31,814,929	270,248,003	1,190,472	27,322	26,725	97.8
1999	7,783,152,000	32,653,460	272,690,813	1,185,497	28,542	27,544	96.5

Source: U.S. Bureau of Economic Analysis, State Personal Income and News Release BEA 00-27 <http://www.bea.doc.gov/bea/regional/spi> September 12, 2000 and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table 13.06-- TOTAL AND PER CAPITA DISPOSABLE PERSONAL INCOME FOR THE UNITED STATES AND HAWAII: 1958 TO 1999

[Data for 1958-99 have been revised. Data in Table 13.04, 13.05 and 13.06 are annual data generally released in September. Data are subject to subsequent revision]

Year	Disposable personal income (in $1,000)		Resident population (as of July 1)		Per capita disposable personal income (in dollars)		Hawaii per capita disposable personal income as percent of U.S. average
	U.S.	Hawaii	U.S.	Hawaii	U.S.	Hawaii	
1958	327,490,888	(NA)	174,153,000	605,000	1,889	(NA)	(NA)
1959	347,968,199	(NA)	177,136,000	622,000	1,974	(NA)	(NA)
1960	363,182,000	1,285,282	179,972,000	642,000	2,018	2,002	99.2
1961	379,353,000	1,388,638	182,976,000	659,000	2,073	2,107	101.6
1962	402,373,000	1,514,832	185,739,000	684,000	2,166	2,215	102.3
1963	422,408,000	1,617,548	188,434,000	682,000	2,242	2,372	105.8
1964	459,109,000	1,783,672	191,085,000	700,000	2,403	2,548	106.0
1965	494,792,000	1,963,314	193,457,000	704,000	2,558	2,789	109.0
1966	533,969,000	2,114,921	195,499,000	710,000	2,731	2,979	109.1
1967	570,344,000	2,292,898	197,375,000	723,000	2,890	3,171	109.7
1968	619,906,000	2,560,574	199,312,000	734,000	3,110	3,489	112.2
1969	669,090,000	2,890,339	201,298,000	743,000	3,324	3,890	117.0
1970	730,495,000	3,342,892	203,798,722	762,920	3,584	4,382	122.3
1971	796,385,000	3,691,085	206,817,509	791,580	3,851	4,663	121.1
1972	863,267,000	4,023,659	209,274,882	818,104	4,125	4,918	119.2
1973	974,049,000	4,482,524	211,349,205	841,851	4,609	5,325	115.5
1974	1,067,363,000	5,193,694	213,333,635	858,121	5,003	6,052	121.0
1975	1,176,364,000	5,756,435	215,456,585	875,052	5,460	6,578	120.5
1976	1,294,737,000	6,214,476	217,553,859	892,335	5,951	6,964	117.0
1977	1,430,303,000	6,731,345	219,760,875	915,749	6,508	7,351	113.0
1978	1,608,496,000	7,423,759	222,098,244	928,816	7,242	7,993	110.4
1979	1,800,275,000	8,437,430	224,568,579	950,050	8,017	8,881	110.8
1980	2,010,486,000	9,729,467	227,224,719	967,710	8,848	10,054	113.6
1981	2,237,736,000	10,513,240	229,465,744	978,195	9,752	10,748	110.2
1982	2,396,290,000	11,442,844	231,664,432	993,780	10,344	11,514	111.3
1983	2,575,009,000	12,510,894	233,792,014	1,012,717	11,014	12,354	112.2
1984	2,873,793,000	13,693,467	235,824,907	1,027,922	12,186	13,322	109.3
1985	3,071,205,000	14,513,421	237,923,734	1,039,698	12,908	13,959	108.1
1986	3,248,472,000	15,313,673	240,132,831	1,051,762	13,528	14,560	107.6
1987	3,443,658,000	16,276,849	242,288,936	1,067,917	14,213	15,242	107.2
1988	3,736,469,000	17,856,326	244,499,004	1,079,827	15,282	16,536	108.2
1989	4,000,178,000	19,438,154	246,819,222	1,094,588	16,207	17,758	109.6
1990	4,277,221,000	21,618,114	249,464,396	1,112,703	17,146	19,428	113.3
1991	4,456,298,000	22,831,179	252,153,092	1,131,412	17,673	20,179	114.2
1992	4,741,900,000	24,460,827	255,029,699	1,149,926	18,594	21,272	114.4
1993	4,924,782,000	25,580,551	257,782,608	1,161,508	19,104	22,024	115.3
1994	5,156,671,000	26,237,350	260,327,021	1,173,903	19,808	22,351	112.8
1995	5,414,784,000	26,674,456	262,803,276	1,180,490	20,604	22,596	109.7
1996	5,669,393,000	26,730,444	265,228,572	1,184,434	21,375	22,568	105.6
1997	5,960,966,000	27,361,422	267,783,607	1,189,322	22,260	23,006	103.4
1998	6,313,822,000	27,819,363	270,248,003	1,190,472	23,363	23,368	100.0
1999	6,632,353,000	28,540,646	272,690,813	1,185,497	24,322	24,075	99.0

Source: U.S. Bureau of Economic Analysis, State Personal Income and News Release BEA 00-27 <http://www.bea.doc.gov/bea/regional/spi> September 12, 2000 and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table 13.07-- PERSONAL INCOME BY MAJOR SOURCES: 1994 TO 1999

[In thousands of dollars. Source data for 1958-99 have been revised. Data in Table 13.04, 13.05 and 13.06 are annual data generally released in September. Data are subject to subsequent revision]

Item	1994	1995	1996	1997	1998	1999
PERSONAL INCOME	29,740,250	30,201,631	30,393,181	31,209,168	31,814,929	32,653,460
Earnings By Place of Work	22,299,806	22,243,565	22,303,352	22,698,768	23,069,124	23,662,693
Wage and salary disbursements	16,773,169	16,810,561	16,856,318	17,344,092	17,748,965	18,295,559
Other labor income	3,213,852	3,077,719	3,131,662	3,005,363	2,889,052	2,816,282
Proprietors' income	2,312,785	2,355,285	2,315,372	2,349,313	2,431,107	2,550,852
Farm proprietors' income	1,534	3,182	898	12,337	10,394	10,581
Nonfarm proprietors' income	2,311,251	2,352,103	2,314,474	2,336,976	2,420,713	2,540,271
Dividends, interest, and rent	5,406,387	5,538,563	5,583,548	5,980,456	6,178,341	6,355,381
Transfer payments	3,245,393	3,642,789	3,722,523	3,765,071	3,817,875	3,932,591
Less: Pers. cont. for social insur.	1,211,336	1,223,286	1,216,242	1,235,127	1,250,411	1,297,205
Earnings By Industry	21,088,470	21,020,279	21,087,110	21,463,641	21,818,713	22,365,488
Farm Earnings	177,306	161,357	160,068	163,831	172,625	191,634
Nonfarm Earnings	22,122,500	22,082,208	22,143,284	22,534,937	22,896,499	23,471,059
Private Earnings	15,447,910	15,466,361	15,490,491	15,543,110	15,843,971	16,231,043
Ag. serv., forestry, fishing & oth	140,682	142,388	134,877	135,386	137,224	142,408
Mining	16,719	23,651	20,809	19,608	20,900	21,000
Construction	1,716,809	1,564,844	1,417,306	1,308,481	1,309,833	1,324,934
Manufacturing	820,692	781,260	754,378	705,648	675,558	658,173
Transport. and public utilities	1,664,193	1,694,460	1,739,106	1,770,928	1,771,856	1,811,163
Wholesale trade	792,919	787,608	784,853	776,035	796,249	821,497
Retail trade	2,543,132	2,572,841	2,558,144	2,593,666	2,552,295	2,633,036
Finance, insur., and real estate	1,692,425	1,742,173	1,817,670	1,847,058	1,900,490	1,949,867
Services	6,060,339	6,157,136	6,263,348	6,386,300	6,679,566	6,868,965
Gov't and gov't enterprises	6,674,590	6,615,847	6,652,793	6,991,827	7,052,528	7,240,016
Federal	3,832,456	3,783,362	3,821,533	4,012,535	4,085,746	4,137,736
Federal, civilian	1,547,328	1,588,449	1,539,259	1,689,976	1,784,124	1,839,656
Military	2,285,128	2,194,913	2,282,274	2,322,559	2,301,622	2,298,080
State and local	2,842,134	2,832,485	2,831,260	2,979,292	2,966,782	3,102,280

Source: U.S. Bureau of Economic Analysis, State Personal Income and News Release BEA 00-27 <http://www.bea.doc.gov/bea/regional/spi> September 12, 2000 and as accessed November 29, 2000 and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

Table 13.08-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTY: 1969 TO 1998

[Data for 1969-97 have been revised. Per capita personal income was computed using Census Bureau midyear population estimates. Estimates for 1990-98 reflect county population estimates available as of March 2000]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
TOTAL ($1,000)						
1969	3,379,430	2,867,783	511,647	226,761	114,141	170,745
1970	3,887,781	3,297,666	590,115	268,340	123,632	198,143
1971	4,220,937	3,564,239	656,698	300,856	136,527	219,315
1972	4,660,493	3,940,688	719,805	331,738	146,434	241,633
1973	5,178,451	4,383,318	795,133	366,235	161,721	267,177
1974	5,965,410	4,864,188	1,101,222	511,114	225,687	364,421
1975	6,464,812	5,372,708	1,092,104	501,974	212,331	377,799
1976	7,031,994	5,854,943	1,177,051	528,180	228,667	420,204
1977	7,651,713	6,347,218	1,304,495	581,167	251,586	471,742
1978	8,496,961	7,042,977	1,453,984	649,392	276,987	527,605
1979	9,678,890	7,992,711	1,686,179	748,652	319,116	618,411
1980	11,139,821	9,054,974	2,084,847	942,944	397,055	744,848
1981	12,040,673	9,912,566	2,128,107	947,674	404,092	776,341
1982	12,846,182	10,541,200	2,304,982	1,010,994	442,921	851,067
1983	14,056,006	11,441,268	2,614,738	1,128,383	495,037	991,318
1984	15,328,363	12,580,650	2,747,713	1,179,286	513,291	1,055,136
1985	16,315,803	13,379,494	2,936,309	1,237,066	551,264	1,147,979
1986	17,258,805	14,061,566	3,197,239	1,341,451	594,394	1,261,394
1987	18,573,734	15,122,501	3,451,233	1,437,316	637,378	1,376,539
1988	20,398,903	16,512,442	3,886,461	1,574,265	757,991	1,554,205
1989	22,483,047	18,062,115	4,420,932	1,784,847	868,318	1,767,767
1990	24,914,831	19,921,724	4,993,107	2,018,498	964,951	2,009,658
1991	26,197,700	20,894,000	5,303,700	2,168,470	1,038,674	2,096,556
1992	27,859,163	22,556,662	5,302,501	2,308,281	682,259	2,311,961
1993	29,067,950	23,087,005	5,980,945	2,416,054	1,132,068	2,432,823
1994	29,740,250	23,525,480	6,214,770	2,495,152	1,182,254	2,537,364
1995	30,201,631	23,812,910	6,388,721	2,551,455	1,225,063	2,612,203
1996	30,393,181	23,913,790	6,479,391	2,615,139	1,219,701	2,644,551
1997	31,278,415	24,569,770	6,708,645	2,719,972	1,240,274	2,748,399
1998	31,856,224	24,993,932	6,862,292	2,791,525	1,255,680	2,815,087

Continued on next page.

Table 13.08-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTY: 1969 TO 1998-- Con.

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
PER CAPITA (DOLLARS)						
1969	4,548	4,752	3,666	3,593	3,799	3,679
1970	5,096	5,287	4,240	4,223	4,174	4,308
1971	5,332	5,630	4,142	4,093	4,107	4,235
1972	5,697	5,927	4,696	4,744	4,596	4,693
1973	6,151	6,410	5,030	5,027	4,971	5,070
1974	6,952	6,968	6,879	6,917	6,937	6,791
1975	7,388	7,590	6,532	6,501	6,375	6,667
1976	7,880	8,167	6,710	6,563	6,577	6,983
1977	8,356	8,636	7,216	7,035	7,104	7,516
1978	9,148	9,511	7,721	7,581	7,547	8,000
1979	10,188	10,608	8,576	8,405	8,394	8,893
1980	11,512	11,855	10,225	10,150	10,085	10,399
1981	12,309	12,914	10,104	9,859	9,988	10,485
1982	12,927	13,583	10,588	10,233	10,595	11,038
1983	13,880	14,499	11,693	11,198	11,567	12,382
1984	14,912	15,769	11,940	11,391	11,764	12,717
1985	15,693	16,635	12,473	11,681	12,428	13,482
1986	16,409	17,350	13,249	12,379	13,044	14,434
1987	17,392	18,477	13,834	12,864	13,503	15,205
1988	18,891	20,038	15,196	13,878	15,613	16,575
1989	20,540	21,727	16,794	15,309	17,420	18,258
1990	22,391	23,772	18,179	16,619	18,692	19,782
1991	23,155	24,680	18,621	17,117	19,553	19,965
1992	24,227	26,293	18,157	17,685	12,640	21,498
1993	25,026	26,756	20,027	18,108	20,662	22,032
1994	25,335	27,042	20,447	18,408	21,231	22,512
1995	25,584	27,328	20,667	18,521	21,855	22,655
1996	25,661	27,436	20,713	18,842	21,602	22,493
1997	26,299	28,140	21,216	19,315	22,048	23,071
1998	26,759	28,670	21,532	19,686	22,340	23,325

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Regional Economic Information System, Metropolitan Area Personal Income, June 15, 2000 <http://www.bea.doc.gov/bea/regional/reis/index.html> and calculations by Hawaii State Department of Business, Economic Development & Tourism.
http://www.bea.doc.gov/bea/regional/reis/index.html.

Table 13.09-- ECONOMIC ESTIMATES AND PROJECTIONS: 1998 TO 2025

[See also Tables 1.22 and 1.23 for population projections from the same source]

Year	Gross state product (millions of 1992 dollars)	Personal income		Total labor income 1/ (millions of 1992 dollars)	Total civilian employment
		Total (millions of 1992 dollars)	Per capita (1992 dollars)		
1998	31,944.0	28,288.8	23,762.1	20,066.2	559,800
2000	33,248.8	29,076.5	24,285.1	20,722.5	571,100
2005	36,876.6	31,793.9	25,721.1	22,705.6	597,200
2010	40,830.4	35,001.9	27,110.1	24,982.8	633,900
2015	45,101.9	38,350.4	28,426.7	27,394.2	667,600
2020	49,861.9	41,906.7	29,801.4	30,013.0	699,200
2025	54,793.3	45,513.7	31,139.6	32,712.4	732,300

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 2025, DBEDT 2025 Series,* February 2000. http://www.hawaii.gov/dbedt/2025/index.html

Table 13.10-- 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 13.11-- MEDIAN INCOME OF FOUR-PERSON FAMILIES IN THE UNITED STATES AND HAWAII: 1974 TO 1998

[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. The methodology used to compute 4-person family median income by state uses 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 state-to-state comparision and using three-year moving averages for state-to-state comparision. See Tables 13.12 and 13.13]

Calendar year 1/	United States	Hawaii	Hawaii rank 2/	Hawaii as percent of US
1974	14,747	17,069	2	115.7
1975	15,848	18,825	2	118.8
1976	17,315	20,113	2	116.2
1977	18,723	21,718	2	116.0
1978	20,428	22,475	3	110.0
1979	22,395	24,582	7	109.8
1980	24,332	27,514	4	113.1
1981	26,274	29,295	6	111.5
1982	27,619	30,019	9	108.7
1983	29,184	31,614	10	108.3
1984	31,097	33,445	11	107.6
1985	32,777	34,636	10	105.7
1986	34,716	36,618	11	105.5
1987	36,812	40,878	6	111.0
1988	39,051	42,353	8	108.5
1989	40,763	44,988	8	110.4
1990	41,451	50,234	6	121.2
1991	43,056	49,367	4	114.7
1992	44,615	50,821	4	113.9
1993	45,161	54,856	4	121.5
1994	47,012	56,992	5	121.2
1995 3/	49,687	4/ 54,749	6	110.2
1996	51,518	57,909	6	112.4
1997	53,350	58,474	10	109.6
1998	56,061	61,838	9	110.3

1/ The term "calendar year" refers to the year the money income was received by the Current Population Survey respondents. Previous *Data Book's* tables included "fiscal year" (or, for this program, calendar year plus 3) which referred 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*.

2/ Rank computed among the 50 states and the District of Columbia. Rank of 1 indicates the highest median income.

3/ Implementation of 1990 population controls in CPS estimates.

4/ Correction to table in *Data Book 1998*.

Source: U.S. Bureau of the Census, Median Income for 4-Person Families, By State, 1974-98 (FY 77-2001) <http://www.census.gov/hhes/income/4person.html> and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 13.12- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR THE UNITED STATES AND HAWAII, 2-YEAR MOVING AVERAGES IN CONSTANT 1999 DOLLARS: 1984 TO 1999

[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. The Bureau of the Census recommends 2-year averages to evaluate changes in state estimates over time, and 3-year averages to compare the relative ranking of states.

Year	Median income, 2-year moving averages		
	United States	Percent change	Standard error
1984-85	36,255	…	149
1985-86	37,207	2.6	162
1986-87	37,978	2.1	157
1987-88	38,226	0.7	157
1988-89	38,589	0.9	169
1989-90	38,503	-0.2	168
1990-91	37,509	-2.6	153
1991-92	36,615	-2.4	143
1992-93	36,199	-1.1	140
1993-94	36,145	-0.1	137
1994-95	36,761	1.7	157
1995-96	37,469	1.9	167
1996-97	38,049	1.5	151
1997-98	39,078	4.3	170
1998-99	40,280	5.9	176

Year	Median income, 2-year moving averages		
	Hawaii	Percent change	Standard error
1984-85	45,572	…	1,723
1985-86	44,464	-2.4	1,677
1986-87	47,724	7.3	1,402
1987-88	48,934	2.5	1,511
1988-89	46,789	-4.4	1,593
1989-90	48,342	3.3	1,473
1990-91	47,586	-1.6	1,560
1991-92	47,783	0.4	1,521
1992-93	49,597	3.8	1,536
1993-94	48,344	-2.5	1,962
1994-95	47,173	-2.4	1,740
1995-96	45,599	-3.3	1,416
1996-97	43,422	-4.8	1,431
1997-98	42,110	-7.7	1,614
1998-99	43,051	-0.9	1,724

1/ Median income in 1999 CPI-U adjusted dollars. Base year was 1997 in Data Book 1998.

Source: U.S. Bureau of the Census, Historical Income Tables - Households, released September 26, 2000. Table H-8A. Median Money Income of Households, by State: 1984 to 1999 (Two-year moving averages) http://www.census.gov/hhes/income/histinc/h08a.html>.

Table 13.13-- MEDIAN MONEY INCOME OF HOUSEHOLDS, FOR THE UNITED STATES AND HAWAII, 3-YEAR MOVING AVERAGES IN CONSTANT 1999 DOLLARS: 1984 TO 1999

[Based on small samples and subject to considerable sampling variation. From surveys made in March or April of following year. The Bureau of the Census recommends 2-year averages (see Table 13.12) to evaluate changes in state estimates over time, and 3-year averages to compare the relative ranking of states]

Year	Median income, 3-year moving averages 1/		
	United States	Standard error	Rank 2/
1984-86	36,785	131	22-23
1985-87	37,508	135	23-24
1986-88	38,099	134	3/ 23-24
1987-89	38,429	139	22-23
1988-90	38,449	142	21-22
1989-91	37,952	137	20-21
1990-92	37,132	126	23-24
1991-93	36,416	120	23-24
1992-94	36,223	118	23-24
1993-95	36,513	127	22-23
1994-96	37,069	135	22-23
1995-97	37,783	136	22-23
1996-98	38,614	140	22-23
1997-99	39,657	143	22-23

Year	Median income, 3-year moving averages		
	Hawaii	Standard error	Rank 2/
1984-86	45,077	1,418	5
1985-87	46,763	1,323	5
1986-88	47,318	1,270	6
1987-89	48,313	1,288	5
1988-90	47,730	1,318	6
1989-91	47,414	1,298	6
1990-92	48,393	1,292	3
1991-93	48,251	1,325	3
1992-94	48,898	1,517	2
1993-95	47,844	1,494	2
1994-96	46,233	1,419	3
1995-97	44,563	1,163	5
1996-98	42,858	1,354	14
1997-99	42,864	1,352	16

1/ Median income in 1999 CPI-U adjusted dollars. Base year was 1997 in *Data Book 1998.*

2/ Rank among the 50 states and the District of Columia. A rank of 1 indicates the highest median income and a rank for the United States average indicates its relative place among the 50 states and District of Columbia.

3/ For 1986-88, the U.S. median income was immediately lower than the District of Columbia.

Source: U.S. Bureau of the Census, Historical Income Tables - Households, released September 26, 2000. Median Money Income of Households, by State: 1984 to 1999 (Three-year moving averages) <http://www.census.gov/hhes/income/histinc/h08b.html>.

Table 13.14-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, AND NONFAMILY HOUSEHOLDS, AND PERCENT OF FAMILIES AND PERSONS BELOW POVERTY LEVEL, FOR COUNTIES AND SELECTED URBAN PLACES: 1989

	Median income (dollars)			Percent below poverty level 1/	
Geographic area	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 13.15-- ESTIMATED MEDIAN HOUSEHOLD INCOME AND POVERTY STATUS, FOR STATE: 1995 AND 1996 AND BY COUNTY: 1995

Area	Median household income (dollars)	Persons in poverty 1/		Persons under 18 in poverty	
		Number	Percent	Number	Percent
1995					
The State	43,973	115,876	9.9	43,091	13.8
Counties:					
Hawaii	35,093	21,493	15.5	8,968	22.1
Honolulu	44,903	77,994	9.1	28,089	12.6
Kalawao	8,630	2/	2/	2/	2/
Kauai	40,164	5,634	9.9	2,051	12.7
Maui	41,930	10,754	9.1	3,984	12.3
1996 3/					
The State	43,815	135,042	11.5	54,215	17.8

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.

2/ Regression estimates not formed because of a lack of data. These estimates are equal to the 1990 Census value and standard errors are not reported. 1995 Median income is also adjusted for inflation.

3/ Congressional action requires state estimates of poverty every year and local estimates every two years. The next local estimates will be for 1997.

Source: U.S. Bureau of the Census, Small Area Income and Poverty Estimates Program, February 12, 1999 and ibid. November 3, 1999. These and previous estimates are also available <http://www.census.gov/hhes/www/saipe/estimatetoc.html.

Table 13.16-- INCOME OF HOUSEHOLDS AND FAMILIES: 1993 TO 1997

[Data refer to income before taxes. Particularly for 1993, based on a small sample subject to considerable sampling variation]

Annual income	Households			Families		
	1993	1995	1997	1993	1995	1997
Total	398,834	377,470	414,226	303,767	278,635	293,618
Less than $5,000	9,548	10,838	16,758	5,147	1,544	3,967
$5,000 to $9,999	16,394	20,747	28,115	5,807	11,042	13,526
$10,000 to $14,999	20,378	21,809	35,201	12,255	16,024	19,158
$15,000 to $24,999	52,230	42,302	52,831	41,668	35,670	33,080
$25,000 to $34,999	62,051	50,532	40,856	34,741	30,723	28,117
$35,000 to $49,999	67,356	79,582	74,078	52,834	58,240	57,215
$50,000 to $74,999	98,013	67,996	79,120	86,333	52,077	62,554
$75,000 to $99,999	42,095	42,352	43,104	37,195	35,617	36,607
$100,000 to $149,999	24,514	26,847	29,013	22,849	23,884	28,104
$150,000 or more	6,255	14,466	15,152	4,939	13,714	11,289
Median income (dollars)	42,662	42,851	40,934	49,797	(NA)	(NA)

NA Not available.

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) and for 1995 and 1997, special tabulation by Hawaii State Department of Business, Economic Development & Tourism, Hawaii State Data Center, May 16, 2000.

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 1998

[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	1987	95,000	8.8
1975	67,000	7.9	1988	117,000	11.1
1979	91,618	9.9	1989	122,000	11.3
1989	88,408	8.3	1990	121,000	11.0
			1991	90,000	7.7
CPS: 1/			1992	129,000	11.0
1980	81,000	8.5	1993	91,000	8.0
1981	108,000	11.3	1994	97,000	8.7
1982	132,000	13.2	1995	122,000	10.3
1983	135,000	13.4	1996	142,000	12.1
1984	92,000	9.3	1997	164,000	13.9
1985	109,000	10.7	1998	131,000	10.9
1986	109,000	10.7			

1/ Current Population Survey. Based on small samples and subject to considerable sampling variation.

2/ Standard error in 1998 was 1.72 for the poverty rate. For the entire United States in 1998, the poverty rate was 12.7 percent with a standard error of 0.21. Hawaii's poverty rate had a rank of 27 in 1998, where a rank of 1 indicates the highest rate.

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; C*urrent 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), *1997* (p. 477); *1998* (p. 479); and *1999* (p. 485). For 1998: U.S. Census Bureau Historical Poverty Tables-People, Table 19 <http://www.census.gov/hhes/poverty/histpov/hstpov19.html>and Table 21 <http://www.census.gov/hhes/poverty/histpov/hstpov21.html> and tabulations by Hawaii State Department of Business, Economic Development & Tourism.

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 2000

[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	Feb. 12, 1993	Feb. 10, 1994	Feb. 9, 1995	Mar. 4, 1996	Mar. 10, 1997	Feb. 24, 1998	Mar. 19, 1999	Feb. 15, 2000
1	8,040	8,470	8,610	8,910	9,070	9,260	9,490	9,590
2	10,860	11,320	11,550	11,920	12,200	12,480	12,730	12,930
3	13,680	14,170	14,490	14,930	15,330	15,700	15,970	16,270
4 1/	16,500	17,020	17,430	17,940	18,460	18,920	19,210	19,610
5	19,320	19,870	20,370	20,950	21,590	22,140	22,450	22,950
6	22,140	22,720	23,310	23,960	24,720	25,360	25,690	26,290
7	24,960	25,570	26,250	26,970	27,850	28,580	28,930	29,630
8	27,780	28,420	29,190	29,980	30,980	31,800	32,170	32,970
Add'n member	2,820	2,850	2,940	3,010	3,130	3,220	3,240	3,340

1/ For 1998, corresponding levels for four-person families elsewhere in the United States were $16,450 on the Mainland and $20,570 in Alaska. For 1999, levels were $16,700 on the Mainland and $20,880 in Alaska. For 2000, levels were $17,050 on the Mainland and $21,320 in Alaska.

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, March 10, 1997, February 24, 1998; March 18, 1999, and February 15, 2000. Also for 1994-1999 <http://www.access.gpo.gov/su_docs/aces/aces140.html>; and for 2000 <http://www.access.gpo.gov/su_docs/fedreg/a000215c.html>.

Table 13.21-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR HONOLULU: 1991-92 TO 1997-98

[Annual averages for two-year periods. No data were released for 1995-96]

Item	1991-92	1992-93	1993-94	1994-95	1996-97	1997-98
Average annual expenditures	37,273	38,997	43,214	40,999	41,992	42,636
Food	6,333	7,104	6,815	5,918	5,672	6,206
Food at home	3,455	3,889	3,899	3,292	3,493	3,479
Cereals and bakery products	519	582	606	504	517	523
Meats, poultry, fish, and eggs	946	1,151	1,144	882	923	974
Dairy products	278	294	294	258	304	281
Fruits and vegetables	693	781	751	629	717	725
Other food at home	1,019	1,080	1,105	1,020	1,033	976
Food away from home	2,878	3,215	2,916	2,626	2,179	2,727
Alcoholic beverages	449	503	417	440	381	467
Housing	11,863	12,261	14,301	14,168	13,638	14,775
Shelter	8,080	8,352	9,957	9,720	9,371	10,233
Owned dwellings	3,775	4,163	5,399	5,244	5,458	6,290
Rented dwellings	4,000	3,837	3,896	3,734	3,584	3,602
Other lodging	305	351	662	742	329	341
Utilities, fuels, and public serv.	1,448	1,673	1,835	1,837	1,975	2,011
Household operations	509	430	532	653	387	419
Housekeeping supplies	514	483	489	446	526	540
Housefurnishings and equipment	1,313	1,324	1,489	1,511	1,379	1,571
Apparel and services	2,166	2,086	1,712	1,485	2,215	1,876
Transportation	5,628	5,490	2,259	6,350	7,955	6,845
Vehicle purchases (net outlay)	2,061	1,809	2,259	2,231	3,521	2,394
Gasoline and motor oil	759	819	937	911	1,046	1,111
Other vehicle expenses	1,972	2,083	2,246	2,329	2,357	2,427
Public transportation	837	780	942	879	1,032	913
Health care	1,557	1,661	1,910	1,848	1,618	1,905
Entertainment	1,534	1,652	1,870	1,958	2,041	1,906
Personal care prod. and services	515	496	528	502	709	617
Reading	204	203	233	230	216	207
Education	573	1,043	1,428	1,117	847	1,141
Tobacco prod. and smoking sup.	228	282	257	227	280	222
Miscellaneous	1,837	1,109	1,324	1,275	964	962
Cash contributions	1,139	1,029	1,253	1,113	892	782
Personal insurance and pensions	3,245	4,078	4,781	4,368	4,564	4,724
Life and other personal insur.	446	424	594	546	743	777
Pensions and Social Security	2,799	3,654	4,187	3,822	3,821	3,947

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Table 13.21-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR HONOLULU: 1991-92 TO 1997-98--Con.

Item	1991-92	1992-93	1993-94	1994-95	1996-97	1997-98
Consumer unit characteristics:						
Number of consumer units	266,000	265,000	257,000	274,000	263,000	275,000
Income before taxes (dollars) 1/	42,156	46,404	52,064	51,847	49,255	53,461
Age of reference person	48.8	48.2	49.3	49.8	49.6	50.4
Number of persons	2.6	2.7	2.8	2.7	2.9	3.0
Number of children under 18	(NA)	(NA)	0.7	0.6	0.7	0.8
Number of persons 65 and over	(NA)	(NA)	0.4	0.4	0.3	0.4
Number of earners	1.4	1.6	1.7	1.6	1.5	1.5
Number of vehicles	1.5	1.6	1.7	1.6	1.7	1.8
Percent homeowner	44	47	52	51	54	56

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>.

Table 13.22-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR THE WESTERN UNITED STATES (INCLUDING HONOLULU): 1997-98

[Annual averages for two-year periods. Number in units, unless otherwise specified. Expenditures in dollars]

Item	All consumer units in the West	Los Angeles	San Fran-cisco	San Diego	Port-land	Seattle	Anchor-age	Phoenix	Denver	Honolulu	Hono-lulu Rank 1/
Average annual expenditures	38,950	41,597	47,458	39,917	40,685	43,251	49,510	37,504	42,862	42,636	4
Food	5,136	5,060	6,377	4,979	5,648	5,461	6,469	4,744	5,119	6,206	2
Food at home	3,070	2,950	3,911	2,915	3,520	3,182	4,197	2,574	2,851	3,479	3
Cereals and bakery products	461	407	624	435	534	491	632	366	429	523	3
Meats, poultry, fish, and eggs	751	812	964	705	818	766	1,056	571	621	974	1
Dairy products	336	320	392	336	368	341	403	320	336	281	9
Fruits and vegetables	540	522	782	527	653	571	737	401	448	725	3
Other food at home	982	889	1,151	912	1,147	1,013	1,369	916	1,017	976	6
Food away from home	2,066	2,110	2,465	2,064	2,129	2,279	2,272	2,170	2,268	2,727	1
Alcoholic beverages	377	305	455	409	428	585	484	384	551	467	4
Housing	13,307	15,562	16,052	15,388	13,315	15,310	16,306	12,958	14,997	14,775	7
Shelter	8,145	10,078	10,467	10,037	8,074	9,637	9,805	7,477	8,733	10,233	2
Owned dwellings	4,906	5,750	5,851	5,846	5,235	6,665	5,458	4,426	6,027	6,290	2
Rented dwellings	2,702	3,659	3,983	3,528	2,458	2,294	3,748	2,406	2,171	3,602	4
Other lodging	537	669	633	663	381	678	599	645	536	341	9
Utilities, fuels, and public services	2,199	2,321	2,276	1,990	2,044	2,272	2,557	2,577	2,128	2,011	8
Household operations	681	874	933	1,145	707	772	855	722	744	419	9
Housekeeping supplies	507	503	505	505	508	578	570	437	611	540	4
Housefurnishings and equipment	1,775	1,786	1,871	1,711	1,982	2,051	2,519	1,745	2,781	1,571	9
Apparel and services	1,719	1,689	1,995	1,941	1,970	2,053	1,994	1,902	1,983	1,876	8
Transportation	7,076	7,696	7,754	6,713	7,266	7,880	9,617	7,236	7,846	6,845	8
Vehicle purchases (net outlay)	2,836	2,870	2,799	2,394	3,559	3,306	4,152	3,277	2,781	2,394	8
Gasoline and motor oil	1,124	1,185	1,179	1,091	993	1,221	1,284	1,025	1,099	1,111	5

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Table 13.22-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR THE WESTERN UNITED STATES (INCLUDING HONOLULU): 1997-98-- Con.

Item	All consumer units in the West	Los Angeles	San Fran-cisco	San Diego	Port-land	Seattle	Anchor-age	Phoenix	Denver	Honolulu	Hono-lulu Rank 1/
Transportation - con.:											
Other vehicle expenses	2,584	3,034	2,999	2,722	2,176	2,717	3,091	2,405	3,341	2,427	7
Public transportation	532	607	777	507	538	635	1,090	528	624	913	2
Health care	1,783	1,590	1,781	1,791	1,845	1,644	2,030	1,736	1,713	1,905	2
Entertainment	2,040	1,833	2,316	1,938	1,815	2,740	3,472	1,898	2,411	1,906	6
Personal care products and services	430	427	496	413	428	484	488	430	441	617	1
Reading	179	144	274	191	209	248	303	175	230	207	6
Education	635	591	802	643	782	554	595	534	478	1,141	1
Tobacco products and smoking supplies	209	155	181	146	325	278	437	206	238	222	5
Miscellaneous	1,013	1,092	1,111	764	983	1,106	1,301	857	1,225	962	7
Cash contributions	1,235	1,168	2,731	732	1,439	927	1,006	1,015	1,047	782	8
Personal insurance and pensions	3,808	4,283	5,132	3,869	4,232	3,983	5,008	3,432	4,583	4,724	3
Life and other personal insurance	326	308	319	347	460	341	581	284	395	777	1
Pensions and Social Security	3,482	3,975	4,813	3,522	3,772	3,642	4,426	3,147	4,188	3,947	5
Consumer unit characteristics:											
Number of consumer units (thousands)	23,018	5,267	2,799	1,001	979	1,270	88	1,119	1,083	275	8
Income before taxes (dollars)	44,199	50,234	55,636	46,915	45,806	48,569	60,323	44,205	49,680	53,461	4
Age of reference person	46	46	46	48	49	47	41	45	45	50	1
No. of persons in consumer unit	3	3	3	3	2	3	3	3	2	3	1
No. of children under 18 in consumer unit	1	1	1	1	1	1	1	1	1	1	3
No. of persons 65 and over in consumer unit	0	0	0	0	0	0	0	0	0	0	2
No. of earners	1	1	2	1	1	1	1	1	2	2	1
No. of vehicles	2	2	2	2	2	2	3	2	2	2	8
Percent homeowner	58	53	56	50	58	65	55	57	66	56	7

1/ Within the nine Metropolitan Statistical Ares 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 1997-98* <http://stats.bls.gov/csxhome.htm>.

Table 13.23-- TOP WEALTHHOLDERS: 1962 TO 1995

[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 wealth-holders	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
1995	24,000	25,944	2,745	23,199

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; Winter 1997-98, and Winter 1999-2000, Table 6. Also, http://www.irs.ustreas.gov/prod/tax_stats/soi/soi_bul.html and for 1995 <http://www.irs.treas.gov/prod/tax_stats/soi/est_pw.html/95PWART.EXE> May 19, 2000.

Table 13.24--TOP WEALTHHOLDERS WITH TOTAL ASSETS OF $600,000 OR MORE AND NET WORTH UNDER $10,000,000, 1995: TOTAL AND SELECTED ASSETS, DEBTS, AND NET WORTH, U.S. AND HAWAII

[Data are estimates based on samples. Numbers are in thousands.
Amounts are in millions of dollars]

Category	United States	Hawaii	Hawaii as percent of U.S.
Top wealthholders: Number	4,360	24	0.6
Total assets: Amount	5,482,241	25,944	0.5
Debts: Number	3,433	20	0.6
Amount	580,279	2,745	0.5
Net worth: Number	4,360	24	0.6
Amount	4,901,962	23,199	0.5
Real estate: Number	3,963	23	0.6
Amount	1,580,544	12,807	0.8
Corporate estate stock: Number	3,358	15	0.4
Amount	1,297,053	3,796	0.3
Cash and money market accounts: Number	4,171	23	0.6
Amount	360,360	1,613	0.4
Total bonds: Number	2,360	8	0.3
Amount	571,283	1,790	0.3

Source: U. S. Department of Treasury, Internal Revenue Service, *Statistics of Income Bulletin, Winter 1999-2000* , Table 6. Also, http://www.irs.ustreas.gov/prod/tax_stats/soi/soi_bul.html and for 1995 <http://www.irs.treas.gov/prod/tax_stats/soi/est_pw.html/95PWART.EXE> May 19, 2000.

Table 13.25-- (NET) WORTH OF RICHEST RESIDENTS: 1996 TO 2000

Name	Residence	Age (years)	Net worth (million dollars)	Primary sources
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 2/	Hawaii	...	1,100	Land, investments
1998				
Anthony, Barbara Cox 1/	Honolulu	75	7,100	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family 2/	Hawaii	...	1,700	Land, investments
1999				
Anthony, Barbara Cox 1/	Honolulu	76	9,700	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family 2/	Hawaii	...	1,700	Land, investments
2000 3/				
Anthony, Barbara Cox 1/	Honolulu	77	10,000	Inheritance (Cox Enterprises, newspapers, cable TV)
Campbell family 2/	Hawaii	...	1,700	Land, investments

1/ Sisters Barbara and Anne Cox Chambers, of Atlanta, share a fortune. It was worth more than $19 billion in 1999 and $20 billion in 2000. In 2000, the sisters tied at rank of 18 with net worth of $10 billion each. They have been members of the Forbes 400 since 1982.

2/ Prior to 2000, Forbes online database was sortable. The "By State" yielded only Ms. Anthony for Hawaii. The Campbell Family was misidentified without a "Hometown". In 2000, the Richest 400 on-line is not sortable by state. However, the Campbell family residence is now correctly listed as "Hawaii".

3/ David Howard Murdoch, owner of Castle & Cooke which owns most of Lanai, is ranked at 274 with a net worth of $1 billion. Mr. Murdoch's residence is listed as Bel Air.

Source: "The Forbes Four Hundred," *Forbes,* October 17, 1994, pp. 100-348; October 16, 1995, pp 106-368; October 14, 1996, pp. 100-356. October 13, 1997, October 12, 1998, October 11, 1999, and October 9, 2000 and <http://www.forbes.com/tool/toolbox/rich400/>.

Section 14: Prices

Section Narrative	
14.01	Implicit Price Deflator for Expenditures on Gross State Product: 1985 to 1999
14.02	Consumer Price Index, for All Urban Consumers (CPI-U), All Items, for Honolulu and United States, 1940 to 1999
14.03	Consumer Price Index (All Items Combined), by Type of Consumer, for Honolulu: Semi-Annually, 1984 to 1999
14.04	Consumer Price Index for All Urban Consumers (CPI-U), by Expenditure Category and Commodity and Service Group, for Honolulu: Annual Averages, 1995 to 1999
14.05	Relative Importance of Components in the Consumer Price Index, for All Urban Consumers (CPI-U) for United States and Honolulu: December 1997 and 1998
14.06	Annual Intermediate Budget for a Four- Person Family on Oahu: 1971 to 1999
14.07	Annual Intermediate Budgets, by Item, for a Four-Person Family in the United States and on Oahu: 1981 to 1999
14.08	Cost-of-Living Indexes and Rankings of the Most and Least Expensive Locations in the United States: 2000
14.09	Average Apartment Rental Costs Per Year in Selected Cities in the United States: 1999
14.10	Home Market Values in Honolulu and Selected United States and Canadian Locations: Second Quarter 1999
14.11	Home Market Values in Honolulu and Selected Locations in the United States and Canada: 1980 to 1999
14.12	Per Diem Rates for Honolulu and Selected Locations in the United States: 1986 To 1999
14.13	Cost of Living for Honolulu Compared to United States Average Level: January 1, 2000
14.14	Executive Home Market Value for Honolulu and Selected Locations in the United States: 2000
14.15	Car Rental Rates in Selected Locations in the United States: 1999
14.16	Gasoline Prices Per Gallon for States and the District of Columbia: June 20, 2000
14.17	Composite Housing Costs: Honolulu and Selected United States Locations: 1998
14.18	Fast Food Indexes for Selected Metropolitan Areas: 1999-2000
14.19	Indexes of Cost of Living for Selected Major Cities Worldwide: 1995 to 1999
14.20	Cost of Living for Foreigners in Selected Major Cities Worldwide: Spring 2000

14.21	Pay Differentials and Cost of Living Indexes for Federal Employees in Hawaii Relative to Washington, D.C., by County: 1997 to 2000		
14.22	Cost of Living Allowance Indexes for Military in Hawaii Relative to Continental United States, by Island		
14.23	Per Diem Rates for Military in Hawaii, By Island or Installation		

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 (BLS) 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.

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 BLS for Honolulu and the Mainland were discontinued after 1981. Unofficial estimates by the Bank of Hawaii are available for 1982-1998. 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 are also included. 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: 1999*, 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: 1985 TO 1999

[1992 = 100]

Year	Deflator 1992 = 100	Percent change from year previous	Year	Deflator 1992 = 100	Percent change from year previous
1985	71.3	3.3	1993	102.6	2.6
1986	73.0	2.3	1994	105.2	2.5
1987	76.3	4.5	1995	107.2	1.9
1988	80.3	5.3	1996	108.8	1.5
1989	84.4	5.1	1997	109.5	0.7
1990	89.8	6.4	1998	109.3	-0.2
1991	95.4	6.3	1999	110.4	1.0
1992	100.0	4.8			

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 1999

[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 1999--Con.

Year	Honolulu		United States	
	Annual average	Percent change from year previous	Annual average	Percent change from year previous
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
1998	171.5	-0.2	163.0	1.6
1999	173.3	1.0	166.6	2.2

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. 1987-1999: U. S. Department of Labor, Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, for Honolulu, BLS FAX-on-Demand Code 9130 and 9225; for the U.S, Code 9210; and <http://www.stats.bls.gov> , accessed February 18, 2000.

Table 14.03-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1999

[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
1998	171.5	172.0	171.0	171.6	172.3	171.0
1999	173.3	172.7	173.8	173.4	173.0	173.9

Source: U.S. Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI, FAX-on-Demand Code 9225, February 18, 2000.

Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1995 TO 1999

[Unless otherwise specified, 1982-1984 average=100]

Group	1995	1996	1997	1998	1999
All items	168.1	170.7	171.9	171.5	173.3
Food and beverages	156.8	156.6	159.2	159.1	162.9
Food	157.0	156.6	159.5	159.1	163.0
Food at home	162.1	159.5	164.2	162.6	166.2
Cereals and bakery products	168.4	170.8	168.8	(NA)	(NA)
Meats, poultry, fish, and eggs	136.0	135.6	137.8	(NA)	(NA)
Meats, poultry, and fish	135.8	135.1	137.2	(NA)	(NA)
Dairy products	133.8	139.4	144.9	(NA)	(NA)
Fruits and vegetables	201.2	194.9	204.4	(NA)	(NA)
Other foods at home	173.4	165.1	172.5	(NA)	(NA)
Food away from home	149.2	150.8	152.6	153.3	158.3
Alcoholic beverages	152.3	156.2	155.2	158.8	161.9
Housing	174.7	176.8	177.1	176.0	175.8
Shelter	191.7	193.5	192.4	192.3	191.7
Renters' costs 1/	197.9	200.3	200.0	(NA)	(NA)
Rent, residential	187.0	187.3	185.7	183.5	181.7
Other renters' costs	220.9	235.3	242.8	(NA)	(NA)
Homeowners' costs 1/	197.8	199.3	197.9	(NA)	(NA)
Owners' equivalent rent 1/	198.9	200.4	199.0	198.3	197.0
Fuel and other utilities	128.4	133.8	137.1	131.0	133.4
Fuels	111.6	115.9	119.8	112.2	114.3
Gas (piped) and electricity	110.8	115.2	119.1	111.8	113.7
Electricity	111.1	114.5	118.6	111.4	113.4
Utility (piped) gas	98.9	114.7	116.1	107.5	109.2
Household furnishings and operation	146.0	146.4	150.0	145.8	146.4
Apparel and upkeep	117.5	118.5	117.3	112.2	105.4
Apparel commodities	114.0	115.0	113.8	(NA)	(NA)
Men's and boys' apparel	152.1	149.0	147.3	(NA)	(NA)
Women's and girls' apparel	94.6	95.2	94.6	(NA)	(NA)
Footwear	94.4	96.8	98.1	(NA)	(NA)
Transportation	162.4	167.0	166.0	162.5	162.2
Private transportation	162.8	168.2	167.2	161.7	160.4
Motor fuel	125.5	131.9	132.0	129.3	119.9
Gasoline	128.4	134.9	135.1	132.4	122.6
Unleaded, regular	(NA)	141.4	141.9	138.6	128.8
Unleaded midgrade 2/	(NA)	105.9	105.3	103.6	95.5
Unleaded, premium	(NA)	123.8	123.8	121.9	112.4
Public transportation	158.4	156.0	156.9	(NA)	(NA)

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Table 14.04-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1995 TO 1999 -- Con.

Group	1995	1996	1997	1998	1999
Medical care	209.8	215.0	217.3	226.1	231.3
Entertainment	144.2	147.8	147.9	(NA)	(NA)
Education & Communication 3/	(NA)	(NA)	(NA)	99.1	104.5
Recreation 3/	(NA)	(NA)	(NA)	100.8	101.9
Other goods and services	216.8	226.5	239.0	256.1	275.6
Personal care	165.8	169.4	169.2	(NA)	(NA)
All items	168.1	170.7	171.9	171.5	173.3
Commodities	145.1	146.3	148.3	147.5	148.2
Food and beverages	156.8	156.6	159.2	159.1	162.9
Commodities less food and beverages	135.8	138.1	139.6	138.2	136.6
Nondurables less food and beverages	139.6	142.2	143.2	142.9	141.0
Durables	130.0	131.8	134.2	131.0	129.7
Services	188.3	192.1	192.8	192.6	195.3
Medical care services	211.7	216.7	217.4	(NA)	(NA)
Special indexes:					
All items less shelter	158.9	161.8	164.0	163.4	166.2
All items less medical care	165.8	168.3	169.4	168.6	170.2
All items less energy	173.1	175.5	176.7	176.6	178.7
Energy	119.0	124.4	126.3	121.0	117.9
All items less food and energy	(NA)	180.5	181.4	181.3	183.0
Commodities less food	136.6	138.9	140.3	139.1	137.7
Nondurables less food	140.3	143.0	143.9	143.9	142.4
Nondurables	149.1	150.1	152.0	151.9	153.3
Services less rent of shelter 1/	186.8	192.9	195.4	195.3	202.0
Services less medical care	186.0	189.7	190.3	189.7	192.2

NA Not available.
1/ Indexes on a December 1982=100 base.
2/ Indexes on a December 1993=100 base.
3/ Indexes on a December 1997=100 base.

Source: U.S. Bureau of Labor Statistics, CPI-U and CPI-W, All Items, Historical Series, Honolulu, HI; BLS FAX-on Demand Codes 2265 and 9225; and <http://stats.bls.gov/ro9news.htm#CPI>, February 18, 2000.

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 1997 AND 1998

[Percent of all items. 1997 and 1998 based on Consumer Expenditure Survey 1993-95]

Group	1997 CPI-U		1998 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
Relative importance of local area	100.000	0.434	100.000	0.426
EXPENDITURE CATEGORY				
All items	100.000	100.000	100.000	100.000
Food and beverages	16.310	17.944	16.408	17.914
Food	15.326	16.766	15.422	16.740
Food at home	9.646	9.476	9.691	9.460
Cereals and bakery products	1.536	(NA)	1.544	(NA)
Meats, poultry, fish, and eggs	2.629	(NA)	2.569	(NA)
Meats, poultry, and fish	2.499	(NA)	2.448	(NA)
Dairy products	1.037	(NA)	1.088	(NA)
Fruits and vegetables	1.394	(NA)	1.440	(NA)
Other foods at home	1.972	(NA)	2.002	(NA)
Food away from home	5.680	7.290	5.730	7.280
Alcoholic beverages	0.983	1.178	0.986	1.174
Housing	39.560	41.238	39.828	41.216
Shelter	29.788	34.086	30.283	34.356
Renters' costs	(NA)	(NA)	(NA)	(NA)
Rent, residential	6.885	8.929	7.007	8.879
Other renters' costs	(NA)	(NA)	(NA)	(NA)
Tenants' and household insurance	0.377	(NA)	0.371	(NA)
Homeowners' costs	(NA)	(NA)	(NA)	(NA)
Owners' equivalent rent	20.199	22.171	20.529	22.233
Lodging away from home	2.327	(NA)	2.376	(NA)
Fuel and other utilities	4.942	3.154	4.735	3.011
Fuels	4.018	2.303	3.801	2.156
Fuel oil, and other household fuel	0.261	(NA)	0.227	(NA)
Fuel oil	0.185	(NA)	0.155	(NA)
Other household fuel commodities	0.075	(NA)	0.073	(NA)
Gas (piped) and electricity	3.757	2.258	3.574	2.117
Electricity	2.649	2.080	2.521	1.950
Utility (piped) gas	1.108	0.178	1.053	0.167
Water and sewer and trash collection	0.924	(NA)	0.934	(NA)
Household furnishings and operation	4.831	3.998	4.810	3.849

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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 1997 AND 1998-- Con.

Group	1997 CPI-U		1998 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
EXPENDITURE CATEGORY -- Con.				
Apparel and upkeep	(NA)	(NA)	(NA)	(NA)
Apparel commodities	4.944	3.834	4.831	3.712
Men's and boys' apparel	1.390	(NA)	1.358	(NA)
Women's and girls' apparel	1.990	(NA)	1.939	(NA)
Footwear	0.895	(NA)	0.876	(NA)
Infants' and toddlers' apparel	0.268	(NA)	0.272	(NA)
Jewelry and watches	0.401	(NA)	0.387	(NA)
Transportation	17.578	14.414	16.999	14.242
Private transportation	16.240	12.138	15.653	11.961
Motor fuel	2.995	2.097	2.493	2.009
Gasoline (all types)	2.976	2.081	2.476	1.995
Public transportation	1.338	(NA)	1.346	(NA)
Medical care	5.614	5.050	5.713	5.265
Entertainment	(NA)	(NA)	(NA)	(NA)
Recreation	6.145	6.204	6.120	6.247
Education and communication	5.528	7.282	5.478	7.238
Other goods and services	4.321	4.034	4.624	4.165
Personal care	3.427	(NA)	3.465	(NA)
COMMODITY AND SERVICE GROUP				
All items	100.000	100.000	100.000	100.000
Commodities	42.635	38.637	42.109	38.180
Food and beverages	16.310	17.944	16.408	17.914
Commodities less food and beverages	26.326	20.692	25.702	20.266
Nondurables less food and beverages	14.729	12.043	14.345	11.817
Durables	11.596	8.649	11.356	8.450
Services	57.365	61.363	57.891	61.820
Medical care services	4.392	(NA)	4.461	(NA)

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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 1997 AND 1998-- Con.

Group	1997 CPI-U		1998 CPI-U	
	U.S.	Honolulu	U.S.	Honolulu
EXPENDITURE CATEGORY -- Con.				
Special indexes:				
All items less shelter	70.212	65.914	69.717	65.644
All items less medical care	94.386	94.950	94.287	94.735
All items less energy	92.987	95.600	93.706	95.835
All items less food and energy	77.661	78.834	78.284	79.095
Energy	7.013	4.400	6.294	4.165
Commodities less food	27.309	21.871	26.688	21.440
Nondurables less food	15.712	13.222	15.331	12.991
Nondurables	31.039	29.988	30.753	29.730
Services less rent of shelter	27.955	27.584	27.979	27.771
Rent of shelter	29.410	(NA)	29.912	(NA)
Services less medical care services	52.973	57.413	53.429	57.705

NA Not available.

Source: U.S. Bureau of Labor Statistics, *Relative Importance of Components in the Consumer Price Index, 1997*, Bulletin 2499, April 1998 (pp. 9-19); for 1998, Ibid., Bulletin 2513 April 1999, pp. 8-20).

Table 14.06-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON FAMILY ON OAHU: 1971 TO 1998

[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 1982-97 are revised and 1998 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]

Year	Dollars	Percent of urban U.S.	Year	Dollars	Percent of urban U.S.
1971	13,108	119.5	1985	36,546	122.1
1972	13,617	119.0	1986	38,367	123.6
1973	14,937	118.3	1987	40,423	123.3
1974	17,019	118.8	1988	43,710	127.9
1975	18,107	117.0	1989	46,113	126.9
1976	19,036	117.2	1990	51,094	132.8
1977	20,883	122.1	1991	52,984	132.3
1978	23,099	124.0	1992	55,526	136.2
1979	25,799	125.7	1993	56,349	133.9
1980	28,488	123.2	1994	56,994	131.1
1981	31,893	125.5	1995	60,521	133.9
1982	33,774	126.4	1996	60,561	128.4
1983	33,725	124.0	1997	63,058	128.9
1984	34,944	122.6	1998 1/	64,402	127.1

1/ Preliminary.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (USDL: 82-139, April 16, 1981); 1982-98 estimates by Paul H. Brewbaker, Bank of Hawaii, Economics Research Center, <http://www.boh.com/econ/>.

Table 14.07-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY ON OAHU AND AS PERCENT OF UNITED STATES: 1981 TO 1998

[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 1982-97 are revised and 1998 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	Oahu (dollars)								
	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total budget	31,893	33,774	33,725	34,944	36,546	38,367	40,423	43,710	46,113
Consumption	21,530	22,798	23,472	24,448	25,278	26,124	27,481	29,131	31,140
Food	7,626	7,900	8,063	8,413	8,690	8,883	9,238	9,761	10,582
Food at home	6,649	6,846	6,958	7,260	7,492	7,653	7,962	8,425	9,233
Food away from home	977	1,054	1,105	1,154	1,199	1,230	1,276	1,336	1,349
Housing	6,493	6,905	7,026	7,346	7,622	7,945	8,476	9,140	9,842
Owner shelter costs	5,467	5,813	5,895	6,205	6,469	6,780	7,319	7,998	8,655
Renter shelter costs	3,991	4,243	4,305	4,586	4,821	5,077	5,337	5,613	6,012
Household operation	1,395	1,485	1,529	1,545	1,565	1,591	1,653	1,738	1,848
Transportation	2,421	2,504	2,484	2,603	2,654	2,661	2,775	2,937	3,134
Clothing	1,432	1,491	1,537	1,518	1,509	1,512	1,553	1,618	1,581
Personal care	590	662	682	679	700	724	759	781	823
Medical care	1,590	1,780	1,965	2,086	2,200	2,377	2,486	2,575	2,708
Other 1/	1,378	1,556	1,714	1,802	1,902	2,022	2,193	2,318	2,470
Other items 2/	1,137	1,205	1,231	1,283	1,324	1,356	1,425	1,509	1,596
Social Security payments	2,049	2,217	2,216	2,540	2,808	3,037	3,239	3,507	3,831
Personal income taxes	7,177	6,818	6,675	6,968	7,562	7,894	8,848	9,174	10,262

Item	Oahu (dollars)								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total budget	51,094	52,984	55,526	56,349	56,994	60,521	60,561	63,058	64,402
Consumption	33,767	36,165	37,801	38,974	39,129	40,832	41,016	41,369	41,807
Food	11,594	12,203	12,404	12,660	12,676	13,028	12,660	12,883	13,109
Food at home	10,181	10,728	10,883	11,093	11,051	11,381	10,995	11,199	11,416
Food away from home	1,413	1,475	1,521	1,567	1,625	1,647	1,665	1,685	1,692
Housing	10,605	11,485	12,159	12,452	12,022	13,054	13,185	13,098	12,940
Owner shelter costs	9,416	10,266	10,887	11,069	10,682	11,590	11,678	11,596	11,620
Renter shelter costs	6,628	7,320	7,764	7,982	7,257	8,296	8,397	8,066	7,693
Household operation	1,885	1,956	2,052	2,155	2,196	2,287	2,327	2,384	2,302
Transportation	3,317	3,524	3,729	3,807	3,903	4,108	4,225	4,204	4,111
Clothing	1,621	1,674	1,731	1,765	1,818	1,781	1,796	1,777	1,700
Personal care	921	976	1,034	1,069	1,096	1,118	1,142	1,141	1,223
Medical care	2,997	3,330	3,549	3,837	4,022	4,078	4,179	4,224	4,395
Other 1/	2,712	2,972	3,196	3,383	3,591	3,666	3,830	4,041	4,330
Other items 2/	1,712	1,835	1,923	1,985	2,042	2,084	2,117	2,131	2,126
Social Security payments	4,094	4,228	4,367	4,478	4,837	5,280	5,516	5,800	6,100
Personal income taxes	10,355	10,850	10,798	11,166	11,742	12,136	13,268	14,241	15,285

Continued on next page.

Table 14.07-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY ON OAHU AND AS PERCENT OF UNITED STATES: 1981 TO 1998 --Con.

Item	Oahu as percent of urban U.S.								
	1981	1982	1983	1984	1985	1986	1987	1988	1989
Total budget	125.5	126.4	124.0	122.6	122.1	123.6	123.3	127.9	126.9
Consumption	118.0	118.2	117.7	117.6	117.3	117.4	118.4	120.0	121.9
Food	130.5	130.3	130.9	131.6	133.4	132.3	132.0	133.9	136.7
Food at home	136.6	136.0	136.8	137.6	140.0	139.0	138.7	140.9	144.9
Food away from home	100.0	102.5	102.9	103.1	103.0	101.7	101.5	102.0	98.5
Housing	117.1	116.8	115.9	116.4	115.2	114.7	117.6	121.6	126.2
Owner shelter costs	111.9	111.4	110.2	110.8	109.6	108.8	112.3	116.9	120.8
Renter shelter costs	146.1	144.3	142.2	143.7	142.1	141.7	141.7	142.9	153.1
Household operation	116.3	117.5	118.3	117.6	116.9	117.3	119.7	123.7	128.3
Transportation	102.1	101.4	98.3	98.6	97.9	102.2	103.4	106.1	107.9
Clothing	107.4	109.0	109.6	106.3	102.7	102.0	100.3	100.2	95.2
Personal care	116.1	121.8	119.4	114.3	113.4	113.8	116.1	115.1	115.9
Medical care	110.2	110.5	112.2	112.2	111.4	111.9	109.8	106.7	104.2
Other 1/	115.2	118.0	117.2	115.4	114.8	115.0	117.9	116.9	115.5
Other items 2/	111.4	111.2	110.1	110.0	109.6	110.2	111.7	113.6	114.6
Social Security payments	120.3	120.2	120.2	122.3	123.7	124.7	125.5	126.4	127.4
Personal income taxes	161.5	151.7	155.5	156.3	154.1	154.0	154.8	157.8	160.6

Item	Oahu as percent of urban U.S.								
	1990	1991	1992	1993	1994	1995	1996	1997	1998
Total budget	132.8	132.3	136.2	133.9	131.1	133.9	128.4	128.9	127.1
Consumption	124.8	128.3	130.1	130.0	126.9	128.5	125.3	123.2	121.9
Food	141.0	144.4	145.4	145.1	141.5	141.1	132.5	131.5	131.1
Food at home	150.0	154.0	155.1	154.4	149.5	149.1	138.9	138.1	138.1
Food away from home	98.5	99.5	100.6	101.8	103.8	102.8	101.4	99.8	97.7
Housing	129.9	135.8	139.6	139.0	130.5	137.8	135.1	130.5	125.7
Owner shelter costs	124.8	130.9	134.3	132.4	123.7	129.8	126.8	122.1	118.5
Renter shelter costs	162.1	174.0	180.3	181.3	160.8	179.4	176.7	164.6	152.1
Household operation	127.4	128.5	132.2	136.0	136.8	140.8	140.0	141.1	137.2
Transportation	108.1	111.8	115.8	114.7	114.1	116.0	116.0	114.4	114.0
Clothing	93.4	93.0	93.7	94.3	97.4	96.4	97.4	95.6	91.3
Personal care	124.3	127.4	131.6	133.0	133.5	133.8	134.0	131.5	137.3
Medical care	105.7	108.0	107.2	109.4	109.5	106.2	105.2	103.4	104.3
Other 1/	117.8	119.6	120.4	121.1	125.0	122.4	122.8	124.2	125.8
Other items 2/	116.6	120.0	122.0	122.3	122.7	121.8	120.1	118.2	116.1
Social Security payments	128.1	128.4	128.7	128.9	129.6	130.3	130.7	131.1	131.4
Personal income taxes	154.1	162.7	159.7	156.0	155.8	150.0	150.1	148.2	146.4

1/ Family consumption including reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous.

2/ Includes gifts and contributions, life insurance, and occupational expenses.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (USDL: 82-139, April 16, 1981); 1982-98 estimates by Paul H. Brewbaker, Bank of Hawaii, Economics Research Center, <http://www.boh.com/econ/>.

Table 14.08-- COST-OF-LIVING INDEXES AND RANKINGS IN THE MOST AND LEAST EXPENSIVE LOCATIONS IN THE UNITED STATES: 2000

[Standard City, an average cost hypothetical location=100. Based on a survey of 150 items in 300 cities. Data include 10 catagories: food-at-home, food-away-from-home, tobacco, alcohol, household furnishings and operations, clothing, domestic service, medical care, personal care, and recreation. Unlike previous surveys, data no longer exclude housing, transportation, and taxes. The market basket of goods and services are those typical of middle-income family of four residing in a 2,200 sq. ft. 8-room, 4-bedroom, 2.5-bath home. They own a late-model car and a 4-year old vehicle]

Expensive Locations	Index	Rank	Least Expensive Loc.	Index	Rank
San Jose, CA	166.5	1	Lubbock, TX	85.1	1
San Francisco, CA	149.2	2	Augusta, GA	85.5	2
New York, NY (Manhattan)	123.8	3	Chattanooga, TN	87.0	3
Boston, MA	122.8	4	Huntsville, Al.	88.6	4
Honolulu, HI	122.5	5	Pensacola, FL	88.7	5
Washington, D.C.	117.7	6	Springfield, MO	89.4	6
Los Angeles, CA	116.8	7	Columbia, SC	89.8	7
San Diego, CA	113.5	8	New Orleans, LA	90.1	8
Philadelphia, PA	112.9	9	Ft. Wayne, IN	90.4	9
Chicago, IL	111.9	10	Jackson, MS	90.5	10

Source: Runzheimer International, <http://www.runzheimer.com/corpc/news/scripts/080100.asp>.

Table 14.09-- AVERAGE APARTMENT RENTAL COSTS PER YEAR IN SELECTED CITIES IN THE UNITED STATES: 1999

[Standard City, an average cost hypothetical location of $6,480 and 100.0. The annual values shown are based on a three-room, one-bedroom, one-bath apartment rental unit. Rental units are typically located in suburban communities surrounding the city and are based on an analysis of approximately 300 cities.

Location	Annual rent	Index	Location	Annual rent	Index
San Francisco, CA	13,100	202.2	Baltimore, MD	7,350	113.4
Honolulu, HI	12,100	187.0	Denver, CO	6,900	107.9
Boston, MA	10,900	168.2	Tampa, FL	6,420	99.1
New York City, NY	10,580	163.3	Greenville, NC	6,300	97.2
Washington, D.C.	10,320	159.3	Baton Rouge, LA	5,940	91.7
Chicago, IL	8,520	131.5	Tucson, AZ	5,580	86.1
Los Angeles, CA	8,460	130.6	Dubuque, IA	4,860	75.0

Source: Runzheimer International, <http://www.runzheimer.com/corpc/news/scripts/062199.asp> dated June 21, 1999.

14.10 HOME MARKET VALUES IN HONOLULU AND SELECTED UNITED STATES AND CANADIAN LOCATIONS: SECOND QUARTER 1999

[The home market values shown below are based on a 2,000 sq. ft., 8-room, 4-bedroom, 2.5-bath home. Costing is based on representative communities where middle income families reside. The sampling of locations in the table is based on an analysis of approximately 300 metropolitan areas in the U.S and Canada. All values are expressed in U.S. dollars. Rank of 1 indicates highest value]

State	Dollars	Rank
San Francisco, CA	431,200	1
Honolulu, HI	367,700	2
Boston, MA	343,000	3
New York, NY	317,400	4
Los Angeles, CA	305,900	5
Seattle, WA	304,700	6
Washington, DC	268,200	7
Chicago, IL	239,700	8
Minneapolis, MN	235,600	9
Detroit, MI	234,900	10
Salt Lake City, UT	234,300	11
Denver, CO	226,300	12
Toronto, ON	220,700	13
Vancouver, BC	219,800	14
Cleveland, OH	202,200	15
Milwaukee, WI	200,100	16
Phoenix, AZ	195,600	17
Atlanta, GA	192,600	18
St. Louis, MO	187,300	19
Anchorage, AK	185,100	20
Kansas City, KS	177,900	21
Omaha, NE	173,400	22
Nashville, TN	172,200	23
Miami, FL	160,600	24
Dallas, TX	148,000	25
Cincinnati, OH	143,700	26
Montreal, PQ	116,000	27

Source: Runzheimer International. Runzheimer Analyses North American Home Market Values, July 19, 1999 and <http://www.runzheimer.com/corpc/news/scripts/071999.asp>.

Table 14.11 HOUSING VALUES IN HONOLULU AND SELECTED LOCATIONS IN THE UNITED STATES AND CANADA AND AVERAGE MORTGAGE RATES: 1980 TO 1999

[The home market values shown in the table below are based on 2,000 sq. ft., 8-room, 4-bedroom, 2.5-bath home in representative communities where middle income families reside. The sampling of locations is based on an analysis of approximately 300 metropolitan areas in the U.S. and Canada. All values are expressed in U.S. dollars]

Category	1980	1985	1990	1995	1999
Mortgage rate 1/	13.00	12.75	10.50	8.00	7.25
Atlanta, GA	119,500	128,400	169,600	186,300	242,100
Boston, MA	121,700	147,100	243,800	256,200	321,400
Chicago, IL	119,600	118,600	175,300	205,300	223,200
Dallas, TX	85,700	107,800	110,500	124,800	134,900
Detroit, MI	145,700	105,300	161,200	179,000	217,700
Honolulu, HI	158,800	175,200	274,100	410,400	342,100
Los Angeles, CA	145,600	161,000	308,200	247,400	285,100
Miami, FL	108,100	112,500	145,800	178,900	172,900
Mobile, AL	79,500	86,900	94,100	112,600	118,600
Montreal, PQ	118,500	116,800	203,200	145,600	128,700
New Orleans, LA	100,300	112,100	98,500	111,300	127,400
New York, NY	112,100	144,400	269,300	273,800	286,300
Ottawa, ON	81,600	123,200	170,200	157,100	130,100
Phoenix, AZ	91,300	99,200	115,400	130,100	174,500
San Francisco, CA	186,700	197,100	379,800	388,000	489,700
Tampa, FL	88,300	103,100	128,300	145,400	135,400
Washington, DC	159,100	170,200	259,100	284,500	262,300

1/ Mortgage interest rate based on average rates nationwide. Canadian rates slightly higher.

Source: Runzheimer International, Dramatic Gains and Drops in Housing Values Witnessed During the Last 20 Years; Mortgage Rates Steadily Declined", December 27, 1999 <http://www.runzheimwr.com/corpc/news/scripts/122799.asp>.

Table 14.12-- PER DIEM RATES FOR SELECTED LOCATIONS IN THE UNITED STATES: 1986 TO 1999

[The per diem rates shown below represent average costs for the typical business traveler, and include breakfast, lunch, and dinner in business-class restaurants and single-rate lodging in business-class hotels and motels. Meal costs include customary and appropriate gratuities, taxes, and service charges. Lodging rates include all applicable sales and lodging taxes. Data is from the Runzheimer Guide to Daily Travel Prices, published by Runzheimer International, the Rochester, Wisconsin-based management consulting firm]

Location	1986	1989	1994	1999
Atlanta, GA	119	142	174	195
Boston, MA	142	183	216	313
Chicago, IL	148	191	229	262
Dallas, TX	126	134	152	197
Honolulu, HI	135	188	236	183
Las Vegas, NV	105	116	156	158
Los Angeles, CA	148	177	203	220
New York, NY	204	260	338	403
Orlando, FL	86	92	127	175
Phoenix, AZ	77	78	113	200
Seattle, WA	106	126	162	232
St. Louis, MO	100	116	162	199
Washington, DC	164	216	260	269

Source: Runzheimer International, <http://www.runzheimer.com/corpc/news/scripts/011000.asp>, January 10, 2000, accessed May 12, 2000.

Table 14.13-- COST OF LIVING ANALYSES FOR HONOLULU AND THE UNITED STATES AVERAGE: JANUARY 1, 2000

[At the U.S. National Average assumed consumption patterns vary according to income level. The Reference profiles for cost-of-living model rental (approximates the rental equivalent of owner-occupied housing) situations only. The Institute model may be considered as an evolution of the U.S. Department of Labor's "Urban Family of Four" model which the Bureau of Labor Statistics discontinued in 1981]

Category	$10,712	$24,000	$48,000	$72,000
Honolulu total	20,020	41,437	77,612	111,169
Rent, utilities	10,769	20,498	34,291	44,710
Taxes: federal, state, payroll	2,229	5,798	11,932	20,700
Consumables	5,467	10,014	18,710	24,999
Transportation	819	2,511	5,972	9,911
Health services	736	1,354	2,237	2,545
Miscellaneous	…	1,262	4,470	8,304
U.S. National Average	10,712	24,000	48,000	72,000
Rent, utilities	4,102	8,083	14,310	19,072
Taxes: federal, state, payroll	1,843	4,934	10,444	18,324
Consumables	3,531	6,672	12,393	16,639
Transportation	620	1,906	4,506	7,514
Health services	616	1,143	1,877	2,147
Miscellaneous	…	1,262	4,470	8,304
Honolulu indexed to U.S. average	186.9	172.7	161.7	154.4
Rent, utilities	262.5	253.6	239.6	234.4
Taxes: federal, state, payroll	120.9	117.5	114.2	113.0
Consumables	154.8	150.1	151.0	150.2
Transportation	132.1	131.7	132.5	131.9
Health services	119.5	118.5	119.2	118.5
Miscellaneous	…	100.0	100.0	100.0

$10,712 assumes a single, minimum wage earner living with friends or parents, contributing partial rent (assume 23.4 percent or less of income spent on housing costs) and no automobile. $24,000 assumes a single parent of one child in a rented appartment (900 square foot), holding one or more jobs, and automobile. $48,000 assumes two adults (filing as married), ages 32, two jobs, one child, two automobiles, and renting a three-bedroom home (1,560 square foot). $72,000 assumes two adults (filing as married), age 37, two jobs, two children, two automobiles, and renting a three-bedroom home (2,200 square foot) with two-car garage.

Source: ERI Economic Research Institute, *Geographic Reference Report 2000* , pgs. 117 and 300.

Table 14.14-- EXECUTIVE HOME MARKET VALUE FOR SELECTED LOCATIONS IN THE UNITED STATES: 2000

[The home market values shown below are based on a 2,200 sq. ft., 8-room, 4-bedroom, 2.5 bath home in suburban communities surrounding the city where middle income families reside and is based on an analysis of approximately 300 metropolitan areas nationwide. At Standard City, USA, an average cost location, the home market value is $208,900 and has an index of 100.0]

Expensive Locations	Value	Index	Inexpensive Locations	Value	Index
San Jose, CA	708,600	339.2	Jackson, MS	126,500	60.6
San Francisco, CA	567,400	271.6	Kinston, NC	123,200	59.0
Honolulu, HI	372,700	178.4	San Antonio, TX	122,600	58.7
Washington, DC	332,100	159.0	Ponca City, OK	119,700	57.3
Los Angeles, CA	326,300	156.2	New Johnsonville, TN	116,200	55.6
Boston, MA	324,500	155.3	La Place, LA	114,800	55.0
San Diego, CA	312,300	149.5	Augusta, GA	104,600	50.1
New York, NY	300,300	143.8	Towanda, PA	101,800	48.7
Atlanta, GA	285,300	136.6	Hobbs, NM	93,300	44.7
Seattle, WA	278,800	133.5	Port Arthur, TX	82,000	39.3

Source: Runzheimer International, <http://www.runzheimer.com/corpc/news/scripts/021400.asp> dated February 14, 2000; accessed May 15, 2000; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 14.15-- CAR RENTAL RATES IN SELECTED LOCATIONS IN THE UNITED STATES: 1999

[Average rates of major car rental companies for an intermediate size car. Taxes, fuel, optional insurance, and other miscellaneous fees are not included. The ranking is based upon an analysis of 100 metropolitan areas nationwide. Honolulu, the lowest cost location in the United States has an index of 100.0]

Expensive Locations	Value	Index	Inexpensive Locations	Value	Index
New York, NY (Manhattan)	92.00	242.1	Orlando, FL	50.00	131.6
Houston, TX	81.00	213.2	Birmingham, AL	49.00	128.9
Oklahoma City, OK	79.00	207.9	Sioux Falls, SD	49.00	128.9
Boston, MA	78.50	206.6	Spokane, WA	48.00	126.3
Atlanta, GA	76.50	201.3	Albuquerque, NM	46.50	122.4
Charlotte, NC	76.00	200.0	Cheyenne, WY	43.50	114.5
Denver, CO	76.00	200.0	Billings, MT	41.50	109.2
Mobile, AL	75.00	197.4	Fort Lauderdale, FL	41.50	109.2
Detroit, MI	74.00	194.7	Manchester, NH	40.50	106.6
Springfield, MA	73.50	193.4	Honolulu, HI	38.00	100.0

Source: Runzheimer International, <http://www.runzheimer.com/corpc/news/scripts/092899.asp> dated September 28, 1999; accessed May 15, 2000; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

14.16 GASOLINE PRICES PER GALLON FOR STATES AND THE DISTRICT OF COLUMBIA: JUNE 20, 2000

[Over 60,000 retail gasoline self-serve stations are surveyed daily. Prices are in cents per gallon. Rank of 1 indicates highest price per gallon. Rank is among 50 states and District of Columbia]

State	Regular	Mid	Premium	Diesel
Hawaii	187.03	197.77	201.47	204.57
Hawaii Rank	4	4	4	1
Alaska	161.27	170.68	180.43	155.14
Alabama	152.02	162.51	167.34	142.35
Arkansas	153.70	162.16	172.48	140.94
Arizona	148.19	154.55	163.46	155.55
California	166.05	176.77	179.67	164.45
Colorado	162.77	174.10	181.91	152.88
Connecticut	176.29	191.33	196.34	158.56
District of Columbia	162.45	173.00	178.16	163.53
Delaware	160.61	170.63	178.15	156.13
Florida	157.52	170.64	173.78	155.27
Georgia	145.81	156.74	163.71	138.47
Iowa	176.17	185.47	194.37	150.35
Idaho	159.75	168.61	173.28	155.23
Illinois	198.75	213.82	220.45	161.53
Indiana	177.52	190.97	196.36	146.87
Kansas	176.54	181.28	188.34	148.79
Kentucky	158.56	170.03	177.72	141.03
Louisiana	151.92	161.94	169.50	142.90
Massachusetts	163.06	175.33	181.99	161.05
Maryland	159.90	170.02	174.32	155.66
Maine	157.80	170.23	174.99	152.97
Michigan	199.05	210.80	219.27	154.77
Minnesota	179.00	186.15	191.00	151.77
Missouri	169.68	176.57	186.91	142.46
Mississippi	151.66	159.94	167.15	139.13
Montana	162.19	169.11	177.27	153.55
North Carolina	151.71	160.99	168.08	144.12
North Dakota	182.10	188.41	195.16	150.92
Nebraska	181.14	185.19	190.36	151.34
New Hampshire	157.75	170.85	176.96	149.83
New Jersey	155.14	166.34	172.63	146.72
New Mexico	155.65	165.77	172.93	148.55
Nevada	165.17	174.08	180.43	163.21
New York	168.50	180.26	184.11	165.13
Ohio	175.87	187.56	195.06	151.81
Oklahoma	168.58	174.32	184.02	140.08
Oregon	160.31	169.15	171.67	158.62

Continued on next page.

14.16 GASOLINE PRICES PER GALLON FOR STATES AND THE DISTRICT OF COLUMBIA: JUNE 20, 2000-- Con.

State	Regular	Mid	Premium	Diesel
Pennsylvania	158.30	166.89	174.26	157.29
Rhode Island	162.31	172.69	178.37	156.50
South Carolina	146.16	155.40	162.92	136.62
South Dakota	181.21	192.82	200.75	153.09
Tennessee	150.99	159.82	167.47	141.17
Texas	152.82	161.67	167.49	142.14
Utah	153.72	162.13	169.19	149.46
Virginia	152.30	159.77	165.91	145.51
Vermont	160.14	172.27	179.76	149.66
Washington	159.19	164.91	173.10	157.42
Wisconsin	192.57	199.95	209.17	158.49
West Virginia	164.30	171.78	180.40	157.55
Wyoming	160.30	167.13	178.05	149.84

Source: AAA's Daily Fuel Gauge Report© Copyright 2000, Oil Price Information Service. Accessed June 20, 2000 <http://208.13.208.31/sbsavg.asp>.

14.17 COMPOSITE HOUSING COSTS: HONOLULU AND SELECTED UNITED STATES LOCATIONS: 1998

[Markets are ranked from most affordable to least affordable, based on cost of mid-management quality single-family homes and apartments relative to local market family income. Housing is defined as amenitized four-bedroom homes and large, luxury apartments. Rank is among the 75 major urban areas in the study. Costs are relative to income]

Metropolitan Market	Single-Family Home Cost 1/	Rental Cost	Composite Housing Cost	Affordability Ranking 1997	Affordability Ranking 1998
Honolulu, Hawaii	27.7	33.0	30.4	72	66
Albuquerque, N.M.	25.5	24.4	25.0	43	50
Anchorage, Alaska	24.9	22.8	23.9	39	45
Atlanta, Ga.	20.0	22.5	21.3	17	23
Austin, Texas	25.7	23.2	24.5	50	47
Bakersfield, Calif.	26.3	23.8	25.1	47	53
Baltimore, Md.	22.2	23.3	22.8	56	39
Birmingham, Ala.	20.5	19.8	20.2	21	13
Boise, Idaho	19.1	21.5	20.3	11	15
Boston, Mass.	38.4	35.3	36.9	70	72
Buffalo, N.Y.	27.9	22.4	25.2	30	54
Central N.J.	28.4	23.2	25.8	41	58
Charleston, S.C.	18.0	24.3	21.2	22	21
Charlotte, N.C.	18.5	20.9	19.7	12	9
Chicago, Ill.	31.5	25.4	28.5	64	63
Cincinnati, Ohio	30.3	20.5	25.4	60	56
Cleveland, Ohio	25.4	24.7	25.1	54	52
Colorado Springs, Colo.	20.4	23.7	22.1	28	34
Columbus, Ohio	22.1	19.2	20.7	14	19
Dallas-Ft. Worth, Texas	17.8	21.7	19.8	8	10
Denver, Colo.	18.3	23.5	20.9	6	20
Detroit, Mich.	21.7	21.3	21.5	38	28
El Paso, Texas	33.1	30.9	32.0	68	69
Ft. Lauderdale, Fla.	19.4	25.0	22.2	53	36
Fresno, Calif.	27.8	25.6	26.7	58	61
Grand Rapids, Mich.	24.1	19.7	21.9	19	33
Greensboro/Winston-Salem, N.C.	21.0	23.3	22.2	36	35
Greenville-Spartanburg, S.C.	21.0	22.2	21.6	31	31
Hartford, Conn.	28.1	22.5	25.3	37	55
Houston, Texas	17.3	21.8	19.6	5	8
Indianapolis, Ind.	18.8	19.1	19.0	18	6
Jacksonville, Fla.	20.7	22.4	21.6	40	29
Kansas City, Mo. & Kans.	16.4	20.5	18.5	4	3
Knoxville, Tenn.	17.5	19.7	18.6	20	4
Las Vegas, Nev.	19.8	23.3	21.6	29	30
Los Angeles, Calif.	38.7	35.7	37.2	73	73
Louisville, Ky.	19.7	21.3	20.5	9	18
Memphis, Tenn.	18.7	21.5	20.1	15	12
Miami, Fla.	29.8	33.8	31.8	71	68
Milwaukee, Wis.	25.2	21.8	23.5	45	42
Minneapolis-St. Paul, Minn.	21.9	20.8	21.4	23	25

Continued on next page.

14.17 COMPOSITE HOUSING COSTS: HONOLULU AND SELECTED UNITED STATES LOCATIONS: 1998-- Con.

Metropolitan Market	Single-Family Home Cost 1/	Rental Cost	Composite Housing Cost	Affordability Ranking	
				1997	1998
Nashville, Tenn.	18.7	21.1	19.9	26	11
Nassau-Suffolk, N.Y.	25.1	26.0	25.6	42	57
New Orleans, La.	18.8	26.0	22.4	24	37
New York, N.Y.	45.3	41.8	43.6	74	75
Newark-No. N. J.	28.1	30.1	29.1	62	64
Norfolk, Va.	17.7	24.6	21.2	25	22
Oakland-East Bay, Calif.	34.5	33.2	33.9	69	71
Oklahoma City, Okla.	13.6	21.3	17.5	1	1
Orange County, Calif.	23.8	26.1	25.0	49	49
Orlando, Fla.	19.4	24.4	21.9	44	32
Philadelphia, Pa.	25.5	29.8	27.7	61	62
Phoenix, Ariz.	22.9	22.5	22.7	33	38
Pittsburgh, Penn.	31.8	34.4	33.1	67	70
Portland, Ore.	24.4	23.0	23.7	52	44
Providence, R.I.	30.5	19.4	25.0	55	48
Raleigh-Durham, N.C.	16.7	21.2	19.0	7	5
Reno, Nev.	19.9	20.6	20.3	10	14
Richmond, Va.	15.5	20.0	17.8	3	2
Riverside-San Bernardino, CA	20.0	22.9	21.5	27	27
Rochester, N.Y.	29.1	19.5	24.3	35	46
Sacramento, Calif.	23.3	23.5	23.4	34	41
Salt Lake City, Utah	18.9	22.2	20.6	16	17
San Antonio, Texas	25.4	24.6	25.0	46	51
San Diego, Calif.	27.8	32.6	30.2	65	65
San Francisco, Calif.	45.5	38.8	42.2	75	74
San Jose, Calif.	29.9	31.4	30.7	66	67
Sarasota-Bradenton, Fla.	29.2	23.0	26.1	63	60
Seattle, Wash.	28.7	23.1	25.9	57	59
St. Louis, Mo.	18.8	22.1	20.5	13	16
Tampa-St. Petersburg, Fla.	22.3	24.7	23.5	59	43
Tucson, Ariz.	24.1	22.7	23.4	51	40
Tulsa, Okla.	15.5	22.8	19.2	2	7
Washington, D.C.	20.6	22.0	21.3	32	24
West Palm Beach, Fla.	19.8	23.1	21.5	48	26

Although the figures in columns 1-3 are rounded, markets are ranked on actual, rather than rounded, affordability numbers. All reported housing cost figures are a percentage of local market family household income. See source for an explanation of the methodology and data sources.

1/ Tax considerations (i.e., federal and state mortgage interest deductions and local property taxes) were accounted for in the calculation of home ownership costs. The cost of the down payment and maintenance expenses were excluded, however. Rochester, Wis.-based Runzheimer International provided local property tax rates used in this study.

Source: E&Y Kenneth Leventhal Real Estate Group, *Study of Housing Costs 1998* , and <http://www.ey.com/global/vault.nsf/US/Study_of_Housing_Costs_1998/$file/HousingCost98.pdf>. Accessed on August 10, 2000 .

Table 14.18-- FAST FOOD INDEXES FOR SELECTED METROPOLITAN AREAS: 1999-2000

[Prices are in U.S. dollars. Los Angeles, California is 100.0. Based on national and international surveys of prices of a 1/4 pound cheeseburger, large fries, and medium soft drink. Sales taxes are not included for U.S. locations but are included for international locations. International prices are based based on September 1999 foreign exchange rates]

U.S. Locations	Index	International Locations	Index
New York, NY	124.6	Copenhagen, Denmark	162.9
Honolulu, HI	101.3	London, England	117.6
Los Angeles, CA	100.0	Tokyo, Japan	113.5
San Francisco, CA	100.0	Munich, Germany	112.7
Denver, CO	99.2	Vienna, Austria	107.1
Boston, MA	95.8	Madrid, Spain	100.2
Seattle, WA	95.2	Paris, France	97.1
Phoenix, AZ	94.4	Mexico City, Mexico	91.8
Chicago, IL	94.0	Athens, Greece	90.4
Washington, D.C.	93.8	Toronto, Canada	85.7
Atlanta, GA	93.1	Sydney, Australia	80.0
Miami, FL	92.9	Hong Kong	54.1
Dallas, TX	91.7	Rio de Janeiro, Brazil	43.9
St. Louis, MO	91.5		
Memphis, TN	89.0		
Boise, ID	87.7		

Source: Runzheimer International, <http://www.runzheimer.com/corpc/news/scripts/021400.asp> dated February 14, 2000; <http://www.runzheimer.com/freegs/html/gsstart.html> accessed May 15, 2000; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

Table 14.19-- INDEXES OF COST OF LIVING FOR SELECTED MAJOR CITIES WORLDWIDE: 1995 TO 1999

[Index number Honolulu=100. March 1999 are Advance figures]

City	General index of mean prices				
	March 1995	Sept. 1995	March 1996	Sept. 1997	March 1999
Honolulu	100	100	100	100	100
Beijing/Peking	120	125	125	124	125
Chicago	106	108	(NA)	(NA)	(NA)
Hong Kong	139	144	147	150	151
Los Angeles	104	106	106	(NA)	108
Manila	78	81	83	70	61
New York	116	118	120	(NA)	119
Paris	(NA)	(NA)	(NA)	134	(NA)
San Francisco	105	106	(NA)	(NA)	(NA)
Seoul	139	144	137	125	109
Shanghai	(NA)	(NA)	125	123	122
Singapore	141	140	(NA)	133	119
Sydney	109	113	121	113	99
Taipei	142	(NA)	138	132	118
Tokyo	259	232	202	183	177
Vancouver	97	102	101	100	90
Washington, D.C.	(NA)	(NA)	104	103	104

NA Not available.

Source: Economic Intelligence Unit, *Worldwide Cost of Living Survey*, report for Hawaii State Department of Business, Economic Development & Tourism, March 1995, 1996, 1999 Advance; and September 1995 and 1997.

Table 14.20-- COST OF LIVING FOR FOREIGNERS IN SELECTED MAJOR CITIES WORLDWIDE: SPRING 2000

[Rank of 1 indicates most expensive city. Based on a survey of 131 cities in March 2000. Data include. 200 items, including housing, food, clothing, utilities, transportation, and entertainment costs. New York City=100.0]

Rank	City	Index	Rank	City	Index
1	Tokyo, Japan	164.90	22	Beirut, Lebanon	86.20
2	Osaka, Japan	143.60	23	Amman, Jordan	85.90
3	Hong Kong	141.50	24	Jakarta, Indonesia	85.70
4	Beijing, China	138.30	24	Zurich, Switzerland	85.70
5	Moscow, Russia	136.10	25	Riyadh, Saudi Arabia	85.60
6	Shanghai, China	128.00	26	Geneva, Switzerland	(NA)
7	Seoul, South Korea	111.10	31	San Francisco, USA	(NA)
8	St. Petersburg, Russia	109.70	34	Los Angeles, USA	(NA)
9	Guangzhou, China	107.90	36	Chicago, USA	(NA)
10	London, England	106.90	38	Warsaw, Poland	(NA)
11	Taipei, Taiwan	102.80	39	Honolulu, USA	(NA)
12	Shenzhen, China	100.10	40	Paris, France	(NA)
13	New York City, USA	100.00	42	Copenhagen, Denmark	(NA)
14	Hanoi, Vietnam	94.90	45	Mexico City, Mexico	(NA)
15	Singapore	94.70	47	Milan, Italy	(NA)
16	Ho Chi Minh City, Vietnam	92.70	48	Vienna, Austria	(NA)
17	Cairo, Egypt	91.90	58	Sydney, Australia	(NA)
18	Buenos Aires, Argentina	91.00	73	Toronto, Canada	(NA)
19	Tel Aviv, Israel	88.70	125	Johannesburg, South Africa	(NA)
20	Abu Dhabi, UAE	88.20	130	Blantyre, South Africa	(NA)
21	Oslo, Norway	87.50	131	Quito, Equador	32.10

NA Not available.

Source: William M. Mercer Companies, LLC, Mercer USA Center: Corporate Resource Group *Honolulu Advertiser* , June 27, 2000 (p. B-8); and "Asian Cities, Moscow Top Latest Ranking of World's Most Expensive Cities", at <http://www.wmmercer.com/usa/english/resource/resource_news_topic062600.htm>, accessed June 28, 2000.

Table 14.21-- PAY DIFFERENTIALS AND COST OF LIVING INDEXES FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C., BY COUNTY: 1997 TO 2000

Effective or Survey Date	Allowance category	Honolulu	Hawaii	Maui	Kauai
	ALLOWANCE RATES				
March 25, 1997	All employees 1/	22.50	15.00	22.50	22.50
December 2, 1997	All employees 1/	22.50	15.00	22.50	22.50
October 21, 1998	All employees 2/	25.00	15.00	22.50	22.50
	INDEXES				
1996 Survey	Cost of Living Index 3/	121.95	111.89	121.36	121.36
1998 Survey	Cost Comparison Index 4/	124.51	110.89	120.32	117.19

1/ Interim Rule issued on March 25 and Final Rule issued on December 2, 1997.

2/ As Interim Rule on October 21 and as corrected on November 13, 1998. Final Rule published July 17, 2000, effective August 16, 2000. Current law prohibits reduction in COLA rates through December 31, 2000. As part of the COLA Research in the litigation Carabello et al vs United States and as requested by Congress, an Interim Rates and Survey Schedule was announced but not yet enacted. The rates, as of October 1, 2000, are raised for Hawaii and Maui to 16.50 and 23.75 percent respectively. The Interim Rates as well as those for Kauai may increase further depending upon the results of the 1998 price surveys and the surveys conducted under the New Regulations. For further discussion see OMP, Non-Foreign Area Cost-of-Living Allowances, Special COLA Research Announcement, July 17, 2000 and <http://www.opm.gov/oca/cola/html/cola-n.htm>.

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.

4/ Similar explanation to footnote 4/ except the survey period was 1998 and publication in in the *Federal Register* was July 17, 2000.

Source: U.S. Office of Personnel Management, Federal Register Online via GPO Access <http://www.wais.access.gpo.gov>, Vol. 62, No. 57, March 25, 1997 (pp. 14187-14189); Vol. 62, No. 231, December 2, 1997 (pp. 63630-63631); Vol. 63, No. 203, October 21, 1998 (pp. 56430-56431); Vol. 63, No. 219, November 13, 1998 (p. 63385) and <http://www.omp.gov/oca/cola/html/c-rates.html> accessed May 15, 2000.
http://www.omp.gov/oca/cola/html/c-rates.html
OMP-announced Federal COLA Retro Settlement, 06-23-00 and further developments
http://www.opm.gov/oca/compmemo/2000/2000-10.htm
OMP, Non-Foreign Area Cost-of-Living Allowances, Special COLA Research Announcement, July 17, 2000.

Table 14.22-- COST OF LIVING ALLOWANCE INDEXES FOR MILITARY IN HAWAII RELATIVE TO CONTINENTAL UNITED STATES, BY ISLAND

[Index number continental United States=100]

Effective Date	Locality	Locality Code 1/	Index
September 1, 1998	Hawaii, Kilauea Military Camp	HI004	128
September 1, 1998	Hawaii, Other	HI001	128
September 1, 1998	Kauai	HI003	128
September 1, 1998	Oahu	HI009	116
March 1, 1999	Maui	HI005	134
March 1, 1999	Molokai	HI007	134

1/ Assigned by the Department of Defense to identify each area entitled to COLA. Search of the website indicated below in "Source" requires the "Locality Code" be entered.

Source: U.S. Department of Defense, Per Diem, Travel and Transportation Committee, Overseas Cost-of-Living Program <http://www.dtic.mil/perdiem/allowcol.html> accessed August 2, 2000.

Table 14.23-- PER DIEM RATES FOR MILITARY IN HAWAII, BY ISLAND OR INSTALLATION

[In dollars per day. To calculate a Per Diem Rate: Maximum Lodging plus Meals (Local, Proportional, or Government) plus Incidental Rate (Local or OnBase) as specified in the travel orders. For comparison, rates for Anchorage, Manila and Tokyo are provided]

Locality and Seasonal Dates	Maximum per diem rate 1/	Maximum lodging	Local meals rate	Proportional meals rate	Local incidentals rate	Effective date
Camp H. M. Smith	177	112	52	30	13	June 1, 2000
Eastpac Naval Comp Tele Area	177	112	52	30	13	June 1, 2000
Ft. DeRussey	177	112	52	30	13	June 1, 2000
Ft. Shafter	177	112	52	30	13	June 1, 2000
Hickam Air Force Base	177	112	52	30	13	June 1, 2000
Honolulu 1/	177	112	52	30	13	June 1, 2000
Island of Hawaii: Hilo	142	84	46	27	12	May 1, 2000
Island of Hawaii: Other	143	89	43	25	11	May 1, 2000
Island of Kauai						
May 1 - November 30	212	143	55	31	14	June 1, 2000
December 1 - April 30	249	176	58	33	15	June 1, 2000
Island of Kure	106	65	33	20	8	May 1, 2000
Island of Maui	215	143	58	33	14	May 1, 2000
Island of Oahu	177	112	52	30	13	June 1, 2000
Kaneohe Bay Marine Corps Base	177	112	52	30	13	June 1, 2000
Kekaha Pacific Missile Range Facility						
May 1 - November 30	212	143	55	31	14	June 1, 2000
December 1 - April 30	249	176	58	33	15	June 1, 2000
Kilauea Military Camp	142	84	46	27	12	May 1, 2000
Lualualei Naval Magazine	177	112	52	30	13	June 1, 2000
Naval Air Station Barbers Point	177	112	52	30	13	June 1, 2000
Pearl Harbor	177	112	52	30	13	June 1, 2000
Schofield Barracks	177	112	52	30	13	June 1, 2000
Wheeler Army Airfield	177	112	52	30	13	June 1, 2000
Other	133	72	49	28	12	June 1, 2000
Anchorage, Alaska						
May 1 - September 15	229	161	54	31	14	January 1, 2000
September 15 - April 30	140	80	48	28	12	January 1, 2000
Manila, Philippines	194	134	48	28	12	July 1, 1999
Tokyo, Japan	316	185	105	56	26	May 1, 2000

OCONUS Outside Continental United States.

1/ For reimbursement of subsistence expenses incurred during official OCONUS travel.

Source: U.S. Department of Defense, Per Diem, Travel and Transportation Committee, Rates and Allowances <http://www.dtic.mil/perdiem/prates.html> as posted August 1, 2000.

Section 15: Banking, Insurance, and Business Enterprise

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Section Narrative	
15.01	Number of Financial Institutions, by Types: 1989 to 1999
15.02	Finance, Insurance, and Real Estate Establishments with Payroll and Employment: 1997
15.03	Finance and Insurance Establishments with Payroll and Employment: 1998
15.04	Characteristics of the Finance and Insurance Sector: 1997
15.05	Characteristics of State-Chartered Financial Institutions, by Types: 1997 to 1999
15.06	Characteristics of Banks Headquartered in Hawaii: December 31, 1999
15.07	Credit Unions: 1994 to 1999
15.08	Insurance Business Transacted in Hawaii: 1993 to 1998
15.09	Life Insurance Business Transacted in Hawaii: 1993 to 1998
15.10	Insurance Premiums and Losses Paid, by Class of Insurance: 1998
15.11	Insurance Business Transacted in Hawaii, by Location of Home Office: 1998
15.12	Health Plans: 1996 to 1999
15.13	Percent of Persons Not Covered by Health Insurance: Annual and Two-Year Averages for 1997 to 1999
15.14	Average Expenditures and Premiums for Personal Automobile Insurance, for the United States and Hawaii: 1994 to 1998
15.15	Fires, Deaths, and Losses Reported by County Fire Departments: 1995 to 1999
15.16	Characteristics of Business Establishments: 1988 to 1998
15.17	Characteristics of Business Establishments, by Counties: 1997 and 1998
15.18	Characteristics of Business Establishments, by Major Industry Group: 1997
15.19	Characteristics of Business Establishments, by Major Group: 1998
15.20	Characteristics of Business Establishments, by Employment-Size Class: 1997 and 1998

15.21	Characteristics of Business and Professional Firms, by Counties: 1999		
15.22	Registered Corporations and Partnerships: 1996 to 1999		
15.23	Characteristics of Corporations, Partnerships, and Proprietorships: 1989, 1992 and 1995		
15.24	Largest Public and Private Companies: 1998		
15.25	Net Income or Loss and Total Revenues of Selected Companies: 1997 and 1998		
15.26	Business Climate Indexes: 1995 to 1999		
15.27	Minority-Owned Business Enterprises: 1987 and 1992		
15.28	Women-Owned Businesses: 1987 and 1992		
15.29	Business Failures, by Industry Sector: 1994 to 1997		

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 *1997 Census of Finance and Insurance,* and the annual report on *County Business Patterns* issued by the U.S. Census Bureau. *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: 1999.*

Table 15.01-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES: 1989 TO 1999

[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	Loca-tions	Associ-ations	Loca-tions	Firms	Loca-tions	Firms	Loca-tions
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
1998	6	191	3	97	-	-	38	126
1999	6	187	3	97	-	-	35	103
TYPE OF CHARTER: 1999								
Federal	1	14	1	68	-	-	-	-
State	5	173	2	29	-	-	35	103
ISLANDS: 1999								
Hawaii	5	25	2	9	-	-	7	14
Maui	5	21	3	10	-	-	7	9
Lanai	2	2	-	-	-	-	-	-
Molokai	1	1	1	1	-	-	1	1
Oahu	6	123	3	70	-	-	32	73
Kauai	3	15	2	7	-	-	6	6
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: 1997

SIC code	Major group	Establish-ments	Employment, March 12
	Total	3,824	36,752
60	Depository institutions 1/	626	12,315
602	Commercial banks	293	8,118
603	Savings institutions	165	2,274
606	Credit unions	137	1,407
61	Nondepository institutions	237	1,356
62	Security and commodity brokers	114	982
63	Insurance carriers	144	3,848
64	Insurance agents, brokers and service	368	2,439
65	Real estate	2,216	14,638
67	Holding and other investment offices	111	905
-	Administrative and auxiliary	8	269

1/ Includes subgroups not shown seperately.

Source: U.S. Bureau of the Census, *County Business Patterns 1997, Hawaii*, CBP/97-13 (September 1999), p. 10.

Table 15.03-- FINANCE AND INSURANCE ESTABLISHMENTS WITH PAYROLL AND EMPLOYMENT: 1998

[Based on NAICS code, and thus not comparable to 1997 and earlier data in previous editions of the Data Book, which were based on the Standard Industrial Classification (SIC) code]

NAICS code	Major group	Establish-ments	Employment, March 12
	Total	1,517	20,050
522	Credit intermediation & related activities	826	12,128
5221	Depository credit intermediation	572	10,735
52211	Commercial banking	266	7,407
52212	Savings institutions	171	1,929
52213	Credit unions	135	1,399
5222	Nondepository credit intermediation	171	1,021
5223	Activities related to credit intermediation 1/	83	372
52231	Mortgage & nonmortgage brokers	58	266
523	Security, commodity contracts and like activities 1/	170	(G)
5231	Scrty & comdty contracts intermed & brokerage	49	675
524	Insurance carriers & related activities	515	(I)
5241	Insurance carriers 1/	140	(H)
52411	Direct life, health, medical insurance carriers	59	2,584
5242	Agencies & other insurance related activities 1/	375	(H)
52421	Insurance agencies and brokerages	312	1,682
525	Funds, trusts, & other financial vehicles (part)	6	(B)

B 20 to 99.
G 1,000 to 2,499.
H 2,500 to 4,999.
I 5,000 to 9,999.
1/ Includes subgroups not shown separately.
Source: U.S. Census Bureau, *County Business Patterns 1998, Hawaii*, CBP/98-13 (July 2000), pp. 15-16, at http://www.census.gov/prod/2000pubs/cbp98-13.pdf.

Table 15.04-- CHARACTERISTICS OF THE FINANCE AND INSURANCE SECTOR: 1997

[Excludes establishments without payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in earlier Economic Censuses. Therefore, comparability between the 1992 and the 1997 data may be limited]

NAICS code	Kind of business	Establish-ments	Revenue ($1,000)	Annual payroll ($1,000)	Paid emplo-yees 1/
52	Total	1,573	(N)	775,139	21,757
522	Credit intermediation & related activities	863	2,921,138	417,657	13,293
5221	Depository credit intermediation	592	2,595,952	362,337	11,748
52211	Commercial banking	300	1,691,491	264,080	8,157
52212	Savings institutions	156	627,286	60,353	2,238
52213	Credit unions	136	277,175	37,904	1,353
5222	Nondepository credit intermediation	193	294,069	45,103	1,199
5223	Activities related to credit intermediation 2/	78	31,117	10,217	346
52231	Mortgage & nonmortgage loan brokers	52	16,569	7,250	242
523	Securities, intermediation & related activities 2/	170	371,340	88,895	1,552
5231	Scrty & comdty contracts intermed & brokerage	74	144,574	48,078	675
524	Insurance carriers & related activities	534	(N)	265,519	6,881
5241	Insurance carriers 1/	152	(N)	169,473	4,151
52411	Direct life, health, medical insurance carriers	72	(Q)	109,274	2,872
5242	Agencies & other insurance related activities 2/	382	254,030	96,046	2,730
52421	Insurance agencies & brokerages	315	207,650	73,011	2,045
525	Funds, trusts, & other financial vehicles (part)	6	37,924	3,068	(b)

N Not available or not comparable.
Q Revenue not collected at this level of detail for multiestablishment firms.
b 20 to 99 employees.
1/ Pay period including March 12.
2/ Includes subgroups not shown separately.
Source: U.S. Census Bureau, *1997 Economic Census, Finance and Insurance, Geographic Area Series, Hawaii,* EC97F52A-HI (January 2000), table 1 at http://www.census.gov/prod/ec97/97f52-hi.pdf.

Table 15.05-- CHARACTERISTICS OF STATE-CHARTERED FINANCIAL INSTITUTIONS, BY TYPES: 1997 TO 1999

[Includes out-of-State branches and facilities. As of December 31]

Subject	1997	1998	1999
BANKS			
Number of banks	5	5	5
Number of branches and facilities	197	201	191
Assets (million dollars)	21,468.4	23,244.6	22,705.2
Deposits (million dollars)	14,541.4	16,037.8	16,107.3
SAVINGS AND LOAN ASSOCIATIONS			
Number of associations	2	2	2
Number of branches and facilities	25	27	27
Assets (million dollars)	1,051.4	1,088.1	1,226.4
Withdrawable shares (million dollars)	730.5	798.2	741.7
TRUST COMPANIES			
Number of companies	-	-	-
Number of branches and facilities	-	-	-
Assets (million dollars)	-	-	-
FINANCIAL SERVICES LOAN COMPANIES			
Number of companies	40	38	1/ 4
Number of branches	125	99	1/ 17
Assets (million dollars)	3,372.2	2,622.6	1/ .5

1/ Includes only financial services loan companies that issue investment certificates. The Department of Commerce and Consumer Affairs will no longer be reporting data on financial services loan companies that do not issue investment certificates.

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 HEADQUARTERED IN HAWAII: DECEMBER 31, 1999

[Includes their out-of-State branches and facilities. Excludes data for banks with branches and facilities in Hawaii but headquartered outside Hawaii. Covers 10 banks with 7,605 employees]

Subject	Million dollars	Subject	Percent of loans
ASSETS AND LIABILITIES		ASSET QUALITY OF LARGE COMMERCIAL BANKS	
Assets	23,568		
Foreign 1/	3,308	Loan loss reserve	1.81
Domestic 2/	20,260	Net chargeoffs	1.25
Loans	16,215	Past due and non-accrual	2.71
Foreign 1/	2,451	Real estate	3.06
Domestic 2/	13,763	Commercial	2.67
Investment securities	4,694	Consumer	2.80
Liabilities	21,487	Agricultural	0.37
Deposits	16,803		
Foreign 1/	3,144		
Domestic 2/	13,659		
Other borrowings	2,331		
Equity capital	2,081		
Loan loss reserve	295		
Unused commitments	10,124		

1/ The assets, loans or deposits of the offices of the banks in foreign countries.
2/ The assets, loans or deposits of the bank offices within the United States.
Source: Federal Reserve Bank of San Francisco, records.

Table 15.07-- CREDIT UNIONS: 1994 TO 1999

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Loans (dollars)	Number of credit union members
1994	116	1/ 3,462,494,282	1/ 3,050,091,389	1,688,181,437	1/ 557,128
1995	116	3,443,396,724	2,999,651,425	1,771,036,866	558,874
1996	113	3,474,986,063	2,994,177,447	1,827,466,569	561,207
1997	113	3,590,818,327	3,079,347,098	1,884,633,550	569,682
1998	1/ 109	1/ 3,792,497,472	3,268,297,338	1,926,800,064	1/ 578,228
1999	106	3,911,738,643	3,371,485,432	2,009,440,975	590,118

1/ Revised.
Source: Hawaii Credit Union League, records.

Table 15.08-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1993 TO 1998

[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)
1993	863	2,103,143	1,761,801	4,263,248
1994	899	2,219,018	1,169,001	4,127,866
1995	922	2,307,514	1,274,272	3,592,679
1996	935	2,195,345	1,306,135	3,107,183
1997	942	2,082,792	1,335,507	4,548,573
1998	979	1,955,457	1,352,865	4,792,872

1/ Excludes bank balances.

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: 1993 TO 1998

[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 3/ ($1,000)	Losses, claims, and benefits paid 3/ ($1,000)
1993	468	9,044,931	51,739,074	401,726	330,975
1994	486	9,448,181	56,757,181	418,684	188,704
1995	486	7,844,654	56,572,022	504,683	457,824
1996	490	8,851,486	58,303,390	463,876	558,922
1997	483	8,136,599	61,707,533	497,357	668,174
1998	485	7,237,492	63,999,905	485,295	661,743

1/ Includes insurance revived, increased, or transferred. Excludes annuities. Data not audited.
2/ Excludes annuities. Data not audited.
3/ Life insurance portion excludes annuities, but fraternal portion includes it. Data not audited.
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: 1998

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	1,955,457,408	1,352,864,918
Life 1/	480,888,189	657,383,186
Fraternal	4,407,037	4,359,387
Fire, marine, casualty, and miscellaneous:		
Accident and health	157,952,825	92,902,279
Fire	33,916,759	772,552
Allied lines	14,463,652	1,692,066
Multiple peril crop	924,449	99,069
Federal flood	8,126,072	108,383
Farmowners multiple peril	57,857	-
Homeowners multiple peril	119,931,221	22,933,271
Commercial multiple peril (fire & allied lines)	59,003,301	17,984,355
Commercial multiple peril (liability portion)	46,812,585	16,209,134
Mortgage guaranty	16,191,338	8,490,926
Ocean marine	6,555,705	7,500,675
Inland marine	16,515,915	982,960
Financial guaranty	3,662,123	-
Medical malpractice	23,126,609	9,040,260
Earthquake	1,389,588	-
Workers' compensation	161,248,713	122,807,973
Other liability	93,792,610	56,498,663
Products liability	5,706,334	7,787,019
Private passenger auto no-fault	78,079,029	58,580,793
Other private passenger auto liability	277,042,076	136,702,436
Commercial auto no-fault	4,173,312	3,933,821
Other commercial auto liability	59,997,045	28,581,311
Private passenger auto physical damage	129,184,643	65,250,684
Commercial auto physical damage	13,937,489	6,823,562
Aircraft	7,293,944	3,253,003
Fidelity	4,714,336	650,368
Surety	17,398,196	2,890,669
Burglary and theft	220,451	62,452
Boiler and machinery	2,230,520	5,810,208
Credit	2,615,837	952,212
Title	31,152,692	3,773,448
All other	3,727,075	4,454,884
Surplus lines	69,017,881	3,592,909

1/ Excludes annuities.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1999,* p. 8.

Table 15.11-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION OF HOME OFFICE: 1998

[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	979	22	945	12
Life incl. Fraternal Benefit Societies	484	5	473	6
Other than life	495	17	472	6
Financial condition, Dec. 31:				
Assets	3,378,425.3	1,511.4	3,355,049.6	21,864.3
Liabilities exc. capital and surplus	2,941,684.7	1,009.8	2,922,279.9	18,395.0
Policyholders' surplus incl. capital	436,740.7	501.6	432,769.8	3,469.3
Capital	6,842.0	54.9	6,782.1	5.0
Net gain or loss	41,512.0	53.1	40,914.4	544.4
Hawaii business:				
Direct premiums written	2,189.2	460.3	1,688.2	40.6
Claims and benefits paid	1,733.4	222.0	1,491.1	20.3
Investments in Hawaii, Dec. 31	4,792.9	166.7	4,587.0	39.2
Mortgage loans (principal indebtedness)	543.1	111.4	431.2	0.5
Collateral loans (amount loaned)	15.2	4.8	10.4	-
State and county bonds 4/	1,552.2	14.2	1,538.1	-
Utilities stocks and bonds 4/	602.4	-	602.3	0.1
Industrial and misc. stocks and bonds 4/	1,880.7	24.0	1,818.1	38.6
Real estate 5/	199.1	12.3	186.8	-
Balances in Hawaii banks	96.8	15.1	81.7	-

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, 1999,* pp. 15-49.

Table 15.12-- HEALTH PLANS: 1996 TO 1999

Subject	1996	1997	1998	1999
Hawaii Medical Service Association: 1/				
Persons covered, Dec. 31 2/	3/ 607,769	3/ 584,662	3/ 524,561	499,706
Membership dues 4/ ($1,000)	3/ 1,103,275	1,147,735	1,038,656	1,039,271
Health Plan Hawaii 5/				
Persons covered, Dec. 31 2/	31,634	48,940	75,534	125,327
Membership dues 4/ ($1,000)	41,374	60,609	90,975	139,393
Queen's Health Plans 6/				
Persons covered, Dec. 31 2/	33,734	41,541	45,465	43,788
Membership dues 4/ ($1,000)	62,892	66,310	65,297	75,340
Kaiser Foundation Health Plan:				
Persons covered: 2/				
Annual average	191,956	203,696	210,265	210,421
Dec. 31	195,607	209,756	210,502	210,151
Membership dues 4/ ($1,000)	297,738	313,272	324,196	342,061
Commercial carrier premiums for accident and health insurance ($1,000)	178,331	179,958	157,953	(NA)

NA Not available.
1/ Includes Straub Health Plan and Pacific Healthcare.
2/ Subscribers and dependents, whether on a group or individual basis.
3/ Revised.
4/ Includes both employers' and employees' contributions.
5/ Health Plan Hawaii is an HMSA affiliate HMO.
6/ Includes Queen's Island Care, Queen's Hawaii Care and Queen's Preferred Plan. 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 15.13-- PERCENT OF PERSONS NOT COVERED BY HEALTH INSURANCE: ANNUAL AND TWO-YEAR AVERAGES FOR 1997 TO 1999

Subject	Annual			Two-year moving average	
	1997	1998	1999	1997-98	1998-99
Percent not covered 1/	7.5	10.0	11.1	8.8	10.6
Standard error	0.7	0.8	0.8	0.6	0.6
Rank 2/	1	5	13	1	8

1/ The 1999 annual U.S. percentage was 15.5. The 1998-99 U.S. two-year moving average percentage was 15.9.

2/ Among 50 states, with lowest percentage ranking 1.

Source: U.S. Census Bureau, "Health Insurance Coverage: 1999" (September 29, 2000) at http://www.census.gov/hhes/hlthins/hlthin99/hi99te.html.

Table 15.14-- AVERAGE EXPENDITURES AND PREMIUMS FOR PERSONAL AUTOMOBILE INSURANCE, FOR THE UNITED STATES AND HAWAII: 1994 TO 1998

Year	Average expenditures 1/			Combined average premiums 2/		
	United States (dollars)	Hawaii		United States (dollars)	Hawaii	
		Average (dollars)	Rank 3/		Average (dollars)	Rank 3/
1994	650.73	961.59	2	4/ 740.38	1,090.32	2
1995	4/ 668.27	963.08	2	4/ 757.56	1,094.02	2
1996	4/ 691.32	958.69	4	4/ 780.11	1,092.57	4
1997	4/ 707.39	912.36	4	4/ 798.91	1,033.76	4
1998	704.32	797.49	11	797.23	916.29	9

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., highest combined average premium ranked 1.

4/ Revised.

Source: National Association of Insurance Commissioners, *State Average Expenditures & Premiums for Personal Automobile Insurance in 1998* (April 2000), tables 2 and 3.

Table 15.15-- FIRES, DEATHS, AND LOSSES REPORTED BY COUNTY FIRE DEPARTMENTS: 1995 TO 1999

[Years ended June 30]

Subject and year	State total	Honolulu	Hawaii	Kauai	Maui
Number of fires:					
1995	4,919	3,409	597	316	597
1996	4,134	2,818	561	194	561
1997	3,721	2,623	463	144	491
1998	4,448	2,980	608	247	613
1999	4,116	2,583	560	298	675
Fire deaths:					
1995	4	-	4	-	-
1996	9	3	5	1	-
1997	12	11	-	-	1
1998	13	12	-	1	-
1999	2	2	-	-	-
Fire losses ($1,000):					
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
1998	24,727	13,252	6,447	1/ 1,080	3,948
1999	22,213	13,237	4,019	1/ 1,067	3,890

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: 1988 TO 1998

[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
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
1996	424,116	2,666,805	10,954,149	29,967	15,785	6,257
1997	426,129	2,707,015	11,179,954	29,991	15,842	6,221
1998	416,571	2,736,665	11,291,978	29,603	15,466	6,235

Year	Number of establishments by employment-size class 2/--Con.						
	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 to 999	1,000 or more
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
1996	3,930	2,561	856	412	99	42	25
1997	3,934	2,515	898	411	99	47	24
1998	3,952	2,498	883	404	97	45	23

1/ For week including March 12.
2/ Data refer to establishments active anytime during the year.
Source: U.S. Census Bureau, *County Business Patterns* (annual).

Table 15.17-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1997 AND 1998

[Excludes government employees and self-employed persons]

Year and county	Number of establish-ments 1/	Number of employ-ees 2/	Payroll ($1,000)	
			First quarter	Annual
1997				
State total	29,991	426,129	2,707,015	11,179,954
Hawaii	3,622	40,682	225,518	922,009
Honolulu	20,973	316,295	2,094,360	8,647,945
Kauai	1,630	19,373	103,956	431,235
Maui	3,766	49,779	283,181	1,178,765
1998				
State total	29,603	416,571	2,736,665	11,291,978
Hawaii	3,552	38,917	226,696	923,366
Honolulu	20,675	309,487	2,122,955	8,743,933
Kauai	1,630	19,400	101,920	432,132
Maui	3,746	48,767	285,094	1,192,547

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

Source: U.S. Census Bureau, C*ounty Business Patterns 1998, Hawaii* , CBP/98-13 (July 2000), table 5, p. 31 at http://www.census.gov/prod/2000pubs/cbp98-13.pdf.

Table 15.18-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1997

[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 establish-ments 1/	Number of employees 2/	Annual payroll ($1,000)
Total	29,991	426,129	11,179,954
Agricultural services, forestry, fishing	336	(H)	(D)
Mining	8	(C)	(D)
Construction	2,281	21,273	852,013
Manufacturing 3/	921	16,329	491,315
Food and kindred products	208	6,167	154,712
Apparel and other textile products	134	1,807	35,123
Printing and publishing	179	3,225	113,434
Transportation and public utilities	1,589	42,286	1,447,906
Wholesale trade	2,152	21,474	670,089
Retail trade 3/	7,959	114,664	1,871,764
Food stores	834	13,640	230,390
Eating and drinking places	2,768	48,383	590,871
Finance, insurance, real estate	3,824	36,752	1,191,238
Services 3/	10,788	170,410	4,585,534
Hotels and other lodging places	291	38,060	940,061
Health services	2,439	38,902	1,477,436
Unclassified establishments	133	(B)	(D)

B 20 to 99.
C 100 to 249.
D Withheld to avoid disclosing data for individual companies.
H 2,500 to 4,999.
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 1997, Hawaii,* CBP/97-13 (September 1999), table 1a, pp. 1-2.

Table 15.19-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR GROUP: 1998

[Excludes government and self-employed workers. Based on NAICS code, and thus not comparable to 1997 and earlier data in previous editions of the *Data Book,* which were based on the Standard Industrial Classification (SIC) code]

NAICS code	Major group	Number of establish-ments 1/	Number of employees 2/	Annual payroll ($1,000)
	Total	29,603	416,571	11,291,978
11	Forestry, fishing, agricultural support	43	411	9,181
21	Mining	12	<250	(D)
22	Utilities	45	2,601	152,209
23	Construction	2,346	21,265	862,290
31-33	Manufacturing	918	14,535	391,349
311	Food mfg.	250	6,285	148,211
315	Apparel mfg.	107	1,409	26,819
323	Printing & related support acitivities	121	1,526	42,428
42	Wholesale trade	1,872	18,442	602,585
44-45	Retail trade	4,922	60,620	1,179,640
48-49	Transportation & warehousing	714	23,635	773,653
51	Information	453	8,241	314,538
52	Finance & insurance	1,517	20,050	807,310
53	Real estate & rental & leasing	1,742	13,011	365,635
54	Professional, scientific & technical services	2,684	17,140	690,001
55	Management of companies & enterprises	238	5,320	250,577
56	Admin. support, waste mgt., remediation	1,701	31,342	649,096
61	Educational services	408	11,909	295,338
62	Health care and social assistance	2,940	47,389	1,670,402
71	Arts, entertainment & recreation	495	10,495	167,367
72	Accommodation & food services	3,119	83,261	1,519,689
81	Other services (except public admin.)	3,180	22,790	456,924
95	Auxiliaries (except corporate, subsidiary & regional mgt.)	82	3,721	123,554
99	Unclassified establishments	172	<250	(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. Census Bureau, *County Business Patterns 1998, Hawaii,* CBP/98-13 (July 2000), table 1, pp. 1-2 at http://www.census.gov/prod/2000pubs/cbp98-13.pdf.

Table 15.20-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1997 AND 1998

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments		Number of employees		Annual payroll ($1,000)	
	1997	1998	1997	1998	1997	1998
Total	29,991	29,603	426,129	416,571	11,179,954	11,291,978
1 to 4	15,842	15,466	29,055	28,304	856,845	893,481
5 to 9	6,221	6,235	40,894	41,012	970,956	1,022,641
10 to 19	3,934	3,952	53,094	53,139	1,266,106	1,301,436
20 to 49	2,515	2,498	76,320	75,564	1,834,294	1,860,168
50 to 99	898	883	60,524	59,761	1,480,444	1,531,931
100 to 249	411	404	61,135	59,056	1,693,625	1,645,333
250 to 499	99	97	33,543	32,043	835,105	877,205
500 to 999	47	45	32,311	30,310	972,459	864,497
1,000 or more	1/ 24	2/ 23	39,253	37,382	1,270,120	1,295,286

1/ 1,000-1,499 employees, 16 establishments; 1,500-2,499 employees, 6 establishments; 2,500-4,999 employees, 2 establishments.

2/ 1,000-1,499 employees, 15 establishments; 1,500-2,499 employees, 6 establishments; 2,500-4,999 employees, 2 establishments.

Source: U.S. Census Bureau, *County Business Patterns 1997, Hawaii*, CBP/97-13 (September 1999), pp. 3, 14, and 18 and *County Business Patterns 1998, Hawaii*, CBP/98-13 (July 2000), pp. 3, 25, and 30 at http://www.census.gov/prod/www/abs/cbptotal.html.

Table 15.21-- CHARACTERISTICS OF BUSINESS AND PROFESSIONAL FIRMS, BY COUNTIES: 1999

Characteristic	State total	Honolulu	Maui	Kauai	Hawaii
All businesses	44,195	31,545	5,095	2,570	4,985
Business type, total 1/	23,625	16,760	2,846	1,399	2,620
Corporation	18,166	13,124	2,186	941	1,915
Partnership	847	540	136	65	106
Proprietorship	4,612	3,096	524	393	599
Employees, total 1/	14,018	10,437	1,306	835	1,440
1 to 4	6,272	4,379	628	492	773
5 to 9	2,997	2,282	271	147	297
10 to 19	2,023	1,576	182	87	178
20 to 49	1,543	1,217	130	71	125
50 to 99	560	463	44	21	32
100 to 199	308	261	23	6	18
200 to 499	182	150	15	8	9
500 to 999	68	50	10	3	5
1,000 and over	65	59	3	-	3
Sales volume, total 1/	11,349	8,529	997	638	1,185
Under $500,000	6,643	4,823	552	426	842
$500,000 to $999,999	1,624	1,240	149	85	150
$1.0 to $4.9 million	1,885	1,477	194	89	125
$5.0 to $9.9 million	420	337	46	13	24
$10.0 to $24.9 million	351	287	31	15	18
$25.0 million and over	426	365	25	10	26
Year established, total 1/	23,550	18,032	2,044	1,158	2,316
1821 to 1849	29	16	3	2	8
1850 to 1899	167	117	16	12	22
1900 to 1949	1,294	943	106	71	174
1950 to 1959	1,223	1,002	72	45	104
1960 to 1969	2,541	2,036	188	99	218
1970 to 1979	6,088	4,560	633	264	631
1980 to 1989	8,078	6,044	659	504	871
1990 and later	4,130	3,314	367	161	288

1/ Distributions exclude non-responding firms and those for which item (typically sales volume) was not applicable.

Source: HBD Inc., *Hawaii Business Directory 1999-2000* (December 1999), pp. viii, ix, xxix.

Table 15.22-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1996 TO 1999

[Excludes eleemosynary corporations]

Subject	1996	1997	1998	1999
Domestic (Hawaii) corporations:				
Formed 1/	3,860	3,331	2,938	2,672
Dissolved or merged 2/	2,734	2,744	2,957	3,243
On record, June 30 3/	37,488	38,185	38,231	37,612
Foreign (non-Hawaii) corporations:				
Qualified 1/	830	939	905	935
Withdrawn, merged, or cancelled 2/	366	370	429	513
On record, June 30 3/	7,033	7,452	7,731	7,890
Partnerships:				
Registered 1/	1,432	1,141	900	718
Dissolved or cancelled 2/	1,149	1,126	1,044	1,100
On record, June 30 3/	8,379	8,342	8,177	7,628
Domestic (Hawaii) Limited Liability Companies: 4/				
Formed 1/	-	143	1,076	1,379
Dissolved or merged 2/	-	-	2	11
On record, June 30 3/	-	143	1,216	2,553
Foreign (non-Hawaii) Limited Liability Companies: 4/				
Qualified 1/	-	32	184	267
Withdrawn or merged 2/	-	-	5	7
On record, June 30 3/	-	32	233	472
Domestic (Hawaii) Limited Liability Partnerships: 4/				
Formed 1/	-	8	31	41
Dissolved or merged 2/	-	-	1	3
On record, June 30 3/	-	8	44	81
Foreign (non-Hawaii) Limited Liability Partnerships: 4/				
Qualified 1/	-	-	8	6
Withdrawn or cancelled 2/	-	-	-	-
On record, June 30 3/	-	-	10	14

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

3/ Number on record may be inconsistent with data on components of change, reflecting inaccuracy in manual tabulation.

4/ The Limited Liability Company Act and the Hawaii Limited Liability Partnership Act were signed into law effective April 1, 1997. For 1997, data covered the period April 1 to June 30, 1997.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Div., records.

Table 15.23-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS, AND PROPRIETORSHIPS: 1989, 1992 AND 1995

[Money amounts in millions of dollars]

Subject	1989	1992 1/	1995
CORPORATIONS 2/			
Number of corporations	20,776	23,777	25,293
Taxable	9,969	9,724	9,757
Nontaxable	10,807	13,322	15,536
Business receipts	33,383	40,541	44,799
Taxable corporations	20,435	21,963	24,506
Nontaxable corporations	12,948	18,578	20,293
Taxable income, excluding net losses 3/	1,614	1,370	1,255
PARTNERSHIPS			
Number of partnerships	6,274	5,855	5,474
With net profit	3,853	3,279	3,128
With net loss	2,421	2,252	2,346
Number of partners	219,388	193,063	155,343
Business receipts	4,090	6,306	5,729
Businesses with net profit	3,273	4,656	4,463
Businesses with net loss	817	1,650	1,266
Net profit reported	1,426	1,134	1,187
Net loss reported	579	1,156	800
PROPRIETORSHIPS			
Number of proprietorships	65,561	75,054	78,676
With net profit	49,716	51,260	55,233
With net loss	15,845	20,127	22,807
Business receipts	2,078	2,397	2,708
Businesses with net profit	1,858	2,071	2,387
Businesses with net loss	221	532	321
Net profit reported	635	660	751
Net loss reported	60	96	115

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 15.24-- LARGEST PUBLIC AND PRIVATE COMPANIES: 1998

[Data may include sales and employment on the Mainland or abroad]

Rank in sales	Company	Year founded 1/	Sales (million dollars)	Employees
1	Hawaiian Electric Industries Inc.	1891/1983	1,485	3,722
2	Pacific Century Financial Corp.	1897/1971	1,312	4,928
3	Alexander & Baldwin Inc.	1870/1900	1,312	2,331
4	Hawaii Medical Service Assn. (HMSA)	1938	1,056	1,600
5	BancWest Corp. 2/	1858/1974	804	4,850
6	GTE Hawaiian Tel	1883	671	2,798
7	Tesoro Hawaii Corp.	1904	650	750
8	Kyo-ya Co. Ltd.	1961	537	4,264
9	The Queen's Health Systems	1859/1985	497	3,904
10	Kaiser Permanente Medical Care Program	1958	462	3,000

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 First Hawaiian Inc.

Source: "Hawaii Business Top 250," *Hawaii Business,* August 1999, p. 84.

Table 15.25-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1997 AND 1998

[Based on 1998 ranks for reporting companies]

Company	Net income or loss ($1,000)		Sales ($1,000,000)	
	1997	1998	1997	1998
Largest net incomes:				
Pacific Century Financial Corp.	139,490	106,960	1,250.4	1,311.6
Hawaiian Electric Industries Inc.	86,442	84,800	1,464.0	1,485.2
BancWest Corp. 1/	84,261	76,606	691.0	804.0
Largest net losses:				
Hawaii National Bancshares Inc.	651	(346)	25.3	25.6

1/ Previously ranked as First Hawaiian Inc.

Source: "Hawaii Business Top 250," *Hawaii Business*, August 1999, p. 64.

Table 15.26-- BUSINESS CLIMATE INDEXES: 1995 TO 1999

Index	1995	1996	1997	1998		1999	
				Index	Rank	Index	Rank
Economic performance	A	B	C	F	48	D	38
Business vitality	F	F	F	F	50	F	50
Development capacity	B	C	B	B	18	C	26

Source: The Corporation for Enterprise Development and the Center for Economic Development at Carnegie Mellon University, The 1999 Development Report Card for the States (13th ed., 1999), pp. 23, 25, 27.

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 2/
Firms, all sectors	258	270	395	630
Agriculture, forestry, fishing	6	7	17	24
Mining	-	-	-	-
Construction	25	34	41	54
Manufacturing	8	14	7	12
Transportation, public utilities	19	7	32	42
Wholesale trade	14	23	15	17
Retail trade	44	59	80	125
Finance, insurance, real estate	13	18	30	42
Services	53	103	168	306
Unclassifiable	76	5	5	8

1/ Revised.
2/ Preliminary.
Source: The Dun & Bradstreet Corporation, *Business Failure Record* (annual).

Section 16: Communications

Section Narrative	
16.01	Communication and Related Establishments: 1997
16.02	Statistical Summary for Information Industries: 1997
16.03	Number of Post Offices and Stations, by Islands: September 10, 1999
16.04	Postal Service: 1994 to 1999
16.05	Telephone Access Lines, by Islands and Type: 1992 to 1999
16.06	Telephone Access Lines and Non-list and Non-published Numbers in Service: 1996 to 1999
16.07	Hawaiian Telephone Company Operations: 1995 to 1999
16.08	Hawaiian Telephone Company Rates for Specified Types of Service, for Honolulu: 1990 to 1999
16.09	Cellular Telephone Company Revenues, by Islands: 1989 to 1999
16.10	Percent of Households with a Telephone, Computer, and Internet Use: 1997 and 1998
16.11	Cable Television Companies, Subscribers, and Revenues, by Counties: 1997 to 1999
16.12	Radio and Television Broadcasting Stations in Operation, 1930 to 1997, and by Counties, 1996 and 1997
16.13	Television Households, by Geographic Area: 1998 and 1999
16.14	Households and Persons Viewing Television by Time of Day: 1995 to 1999
16.15	Number of Daily Newspapers, by Place of Publication and Language: 1975 to 1999
16.16	Average Paid Circulation of Daily and Sunday English-Language Newspapers: 1995-96 to 1998-99
16.17	Postage Rates and Newspaper Prices, for Honolulu: 1989 to 1999
16.18	Books and Scholarly Journals Published by the University of Hawaii Press: 1989 to 1999

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, 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: 1999,* Section 18.

Table 16.01-- COMMUNICATION AND RELATED ESTABLISHMENTS: 1997

SIC code	Industry	No. of establish-ments	No. of employees for week including March 12	Annual Payroll ($1000)
27	Printing and publishing	179	3,225	113,434
271	Newspapers	23	1,466	60,153
272	Periodicals	36	325	11,268
273	Books	10	1/	(D)
274	Miscellaneous publishing	9	1/	(D)
48	Communication	215	6,550	279,076
481	Telephone	138	4,608	196,041
483	Radio & TV broadcasting	51	1,196	47,076
484	Cable & other pay TV services	17	599	29,155
489	Communication services, n.e.c.	9	147	6,804
5942	Book stores	57	695	10,246
731	Advertising	94	666	22,902
7311	Advertising agencies	66	518	19,149

D Withheld to avoid disclosing data for individual companies.
n.e.c. Not elsewhere classified.
1/ 20-99.
Source: U.S. Census Bureau, *County Business Patterns 1997, Hawaii*, CBP/97-13 (September 1999).

Table 16.02-- STATISTICAL SUMMARY FOR INFORMATION INDUSTRIES: 1997

NAICS code	Kind of business	Establish-ments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees for pay period including March 12 (number)
51	Information, total	458	1,464,152	318,652	8,996
511	Publishing industries	93	273,301	78,970	2,066
5111	Newspaper, periodical, book, & database publishers	77	267,048	76,775	2,005
5112	Software publishers	16	6,253	2,195	61
512	Motion picture & sound recording Industries	108	102,196	20,326	1,496
5121	Motion picture & video industries	99	95,860	19,526	1,473
5122	Sound recording industries	9	6,336	800	23
513	Broadcasting & telecommunications	197	1,057,491	208,563	5,100
5131	Radio & television broadcasting	50	137,679	47,512	1,239
5132	Cable networks & program distribution	18	153,337	29,488	618
5133	Telecommunications	129	766,475	131,563	3,243
514	Information services & data processing services	60	31,164	10,793	334

Source: U. S. Census Bureau, *1997 Economic Census, Information, Geographic Area Series, Hawaii*, EC97551A-HI (October 1999), table 1. Internet site http//www.census.gov/epcd/www/97EC51.HTM.

Table 16.03-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS: SEPTEMBER 10, 1999

Island	Total	Cost Ascertainment Group (CAG) 1/				Stations	
		A-G 2/	H-J 3/	K 4/	L 5/	Classified 6/	Contract 7/
State total	133	35	25	12	-	34	27
Hawaii	33	9	11	5	-	2	6
Maui	14	9	1	-	-	2	2
Lanai	1	-	1	-	-	-	-
Molokai	5	1	-	4	-	-	-
Oahu	61	12	4	1	-	27	17
Kauai	19	4	8	2	-	3	2
Niihau 8/	-	-	-	-	-	-	-

1/ Changes in CAG assignments are made at the beginning of the Postal fiscal year (September to August). They are determined by the gross revenue from the prior fiscal year as follows: Gross revenue is divided by a revenue unit factor. The revenue unit factor represents the average revenue from mail and special services, including fees, per one thousand pieces of originating mail and special services transactions. CAGs range from A to L.

2/ Formerly called First-class offices.

3/ Formerly called Second-class offices.

4/ Formerly called Third-class offices.

5/ Formerly called Fourth-class offices.

6/ Staffed by career postal employees.

7/ Operated under a contractual agreement between the Postal Service and an individual contractor.

8/ Niihau is served by the Makaweli Post Office on Kauai.

Source: U.S. Postal Service, Honolulu District, records.

Table 16.04-- POSTAL SERVICE: 1994 TO 1999

[Years ended September 30]

Subject	1994	1995	1996	1997	1998	1999
Post offices, September 30	72	72	72	72	72	72
Stations, September 30 1/	73	73	61	59	58	61
Gross postal receipts ($1,000)	163,493	171,867	172,686	172,714	171,816	174,958
Pieces of mail 2/ (millions)	518	539	530	549	556	560

1/ Includes both classified and contract stations (see preceding table).
2/ Originating in Hawaii.
Source: U.S. Postal Service, Honolulu District, records.

Table 16.05-- TELEPHONE ACCESS LINES, BY ISLANDS AND TYPE: 1992 TO 1999

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Year	Switched access lines	By island		By type	
		Oahu	Other islands	Residence	Business
1992	628,222	455,143	173,079	417,595	210,627
1993	648,444	467,858	180,586	429,652	218,792
1994	666,233	477,888	188,345	439,104	227,129
1995	684,820	490,685	194,135	447,188	237,632
1996	705,302	502,745	202,557	454,574	250,728
1997	719,787	509,336	210,451	461,430	258,357
1998 1/	731,519	512,607	218,912	468,218	263,301
1999 1/	737,653	510,591	227,062	473,299	264,354

1/ GTE is not the sole provider of telephone access lines.
Source: GTE Hawaiian Telephone Company, records.

Table 16.06-- TELEPHONE ACCESS LINES, NON-LIST AND NON-PUBLISHED NUMBERS IN SERVICE: 1996 TO 1999

[Data include both residence and business telephone numbers]

Category	1996	1997	1998	1999
Access lines	705,302	719,787	731,519	737,653
Non-list and non-published	229,851	235,818	238,160	242,916
Non-list 1/	2,381	2,236	2,056	1,936
Non-published 2/	227,470	233,582	236,104	240,980

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 16.07-- HAWAIIAN TELEPHONE COMPANY OPERATIONS: 1995 TO 1999

Subject	1995	1996	1997	1998	1999
Operating revenues ($1,000)	611,760	634,921	642,357	671,300	679,100
Operating expenses ($1,000)	520,115	518,142	502,275	523,700	495,000
Net income ($1,000)	-225,518	54,701	60,998	72,900	96,800
Net investment in property, plant, and equipment ($1,000)	809,445	822,473	845,352	854,200	835,300
Total assets ($1,000)	1,154,815	1,200,985	1,306,113	1,328,400	1,357,400
Access lines 1/	782,456	826,619	861,079	919,683	994,456
Number of employees 1/	3,043	2,911	2,897	2,980	2,589

1/ Includes Micronesian Telecomunications Corporation.
Source: GTE Hawaiian Telephone Company, records.

Table 16.08-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1990 TO 1999

[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	0.84	2.04	0.84	4.04	22.86
1996	0.25	0.85	2.04	(NA)	(NA)	20.60
1997	0.25	0.42	1.62	(NA)	(NA)	20.96
1998	0.35	0.42	1.62	(NA)	(NA)	21.05
1999	0.35	0.42	1.62	(NA)	(NA)	20.79

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 1999 basic phone rate ($14.40), interstate subscriber line charge ($3.50), Telecommunications Relay Service surcharge ($0.07), E911 surcharge ($0.27), Service Provider Number Portability fee ($0.36), and intrastate surcharge, federal excise tax, PUC service fee, and state general excise tax ($2.19).

Source: GTE Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

Table 16.09-- CELLULAR TELEPHONE COMPANY REVENUES, BY ISLANDS: 1988 TO 1999

Calendar year	Number of companies	Revenues ($1,000)				
		Total	Hawaii	Maui	Oahu	Kauai
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	130,945	(NA)	(NA)	(NA)	(NA)
1998	10	142,129	(NA)	(NA)	(NA)	(NA)
1999	10	1/ (NA)	(NA)	(NA)	(NA)	(NA)

NA Not available, because on certain islands there are only two companies that provide cellular telephone service.

1/ Annual Utility Financial Reports are due on March 31, 2000, thus, we do not have the 1999 financial data at this time. Additional extension until July 31, 2000, may also be requested.

Source: Hawaii State Public Utilities Commission, records.

Table 16.10-- PERCENT OF HOUSEHOLDS WITH A TELEPHONE, COMPUTER, AND INTERNET USE: 1997 AND 1998

Year	Telephone		Computer		Internet use	
	U.S.	Hawaii	U.S.	Hawaii	U.S.	Hawaii
1997	93.8	94.1	36.6	34.6	18.6	(NA)
1998	94.1	93.2	42.1	42.3	26.2	27.9

NA Not available.

Source: National Telecommunications and Information Administration, *Falling Through the Net: Defining the Digital Divide* , July 8, 1999 and *Falling Through the Net II: New Data on the Digital Divide* , July 1998; http://www.ntia.doc.gov/ntiahome/digitaldivide.

Table 16.11-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1997 TO 1999

County	Number of companies Dec. 31 1/			Subscribers Dec. 31 2/			Basic service revenue ($1000)		
	1997	1998	1999	1997	1998	1999	1997	1998	1999
State total	3	4	2	340,438	345,631	358,273	85,099	93,735	103,131
Hawaii	2	2	2	32,926	34,459	34,268	9,486	10,674	12,107
Maui	2	3	3	35,937	37,057	51,835	10,200	11,797	12,719
Honolulu	2	2	2	254,167	256,436	253,981	60,045	65,650	72,522
Kauai	1	1	1	17,408	17,679	18,189	5,369	5,615	5,783

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 16.12-- 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 16.13-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA: 1998 AND 1999

Subject	January 1998			January 1999		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	394,400	(NA)	(NA)	(NA)	(NA)	(NA)
With television	381,820	277,410	104,410	385,790	280,660	105,130
Percent	96.8	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.
Source: Hawaii Public Television, *Nielsen Station Index.*

Table 16.14-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY: 1995 TO 1999

[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
Nov.	130	220	74	110
1999: Feb.	135	252	88	143
May	130	231	82	121
Nov.	112	198	59	88

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: Hawaii Public Television, *Nielsen Station Index* .

Table 16.15-- NUMBER OF DAILY NEWSPAPERS, BY PLACE OF PUBLICATION AND LANGUAGE: 1975 TO 1999

[The earliest daily newspaper in Hawaii, *The Daily Hawaiian Herald*, first appeared September 4, 1866 and was discontinued December 21, 1866. Permanent dailies were initially published in 1882. Five-year statistics from 1885 to 1975 appear in *Historical Statistics of Hawaii* (1977), table 18.5].

Subject	1975	1980	1985	1990	1995	1999
Totals	7	6	9	9	10	10
Language:						
Chinese	2	1	1	1	1	1
English	3	3	6	6	6	6
Hawaiian	-	-	-	-	-	-
Japanese 1/	2	2	1	1	1	1
Korean	-	-	1	1	2	2
Place of publication:						
Honolulu	6	5	5	5	6	6
Hilo	1	1	1	1	1	1
Kailua-Kona	-	-	1	1	1	1
Kauai	-	-	1	1	1	1
Maui	-	-	1	1	1	1

1/ Includes bilingual papers (Japanese and English).

Source: Aloha United Way, *Hawaii Media Guide* for 1977-1985; *The State of Hawaii Data Book* for 1977-1998; Helen G. Chapin, forthcoming survey.

Table 16.16-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1995-96 TO 1998-99

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the *Hawaii Hochi*, Japanese and English; *Korean Times*, *Han Kook Ilbo* and *Korea Central Daily*, Korea; and *United Chinese Press*, Chinese]

Newspaper	1995-96	1996-97	1997-98	1998-99
Daily:				
The Honolulu Advertiser 1/	105,984	104,960	104,233	104,602
Honolulu Star-Bulletin 2/	76,198	71,418	69,188	67,124
Hawaii Tribune-Herald (Hilo) 3/	19,362	19,079	(NA)	19,069
West Hawaii Today (Kailua-Kona) 3/	11,560	11,334	10,938	11,667
Maui News (Wailuku) 4/	18,379	17,702	17,142	16,970
Garden Island (Lihue) 4/	7,860	7,551	8,352	8,790
Sunday morning:				
The Honolulu Advertiser	193,318	190,475	190,349	188,556
Hawaii Tribune-Herald (Hilo)	23,005	22,894	(NA)	22,851
West Hawaii Today (Kailua-Kona)	13,516	13,668	13,981	14,610
Maui News (Wailuku)	23,860	23,992	24,098	24,220
Garden Island (Lihue)	8,017	7,750	9,293	9,395

NA Not available.
1/ Mornings, Monday through Saturday.
2/ Afternoons, Monday through Saturday.
3/ Mornings, Monday through Friday.
4/ Afternoons, Monday through Friday. The *Maui News* became a morning paper on July 24, 2000.
Source: Data provided by newspaper publishers to Hawaii State Department of Business, Economic Development & Tourism.

Table 16.17-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1989 TO 1999

[In cents. As of July 1]

Year	Domestic first-class postage rates			Newspaper price 1/	
	Letters				
	First ounce	Each added ounce	Postal and post cards	Daily	Sunday
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
1998	32	23	20	50	175
1999	33	22	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 February 27, 1993), and the Sunday *The Honolulu Advertiser* (beginning March 7, 1993).

Source: Postal rates from *Statistical Abstract of the United States, 1999,* p. 590. Newspaper rates from Hawaii Newspaper Agency.

Table 16.18-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1989 TO 1999

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
1998	1,486	818	84	12	290,199	3,042,984
1999	1,572	897	83	12	272,407	3,365,336

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

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Section Narrative	
17.01	Consumption of Energy, by Source (Physical Units): 1960 to 1997
17.02	Consumption of Energy, by Source (Trillion BTU): 1960 to 1997
17.03	Consumption of Energy, by End-Use Sector: 1960 to 1997
17.04	Primary Energy Consumption and Electricity Sales, Total and Per Capita: 1988 to 1998
17.05	Primary Energy Consumption, by Source: 1985 to 1998
17.06	Electricity Generation by Source: 1989 to 1998
17.07	Electricity Production, by Source, by Islands: 1998
17.08	Expenditures for Fuels and Electricity, by Source: 1988 to 1998
17.09	Electric Utilities: 1989 to 1999
17.10	Electric Utilities, by Islands: 1999
17.11	Gas Utilities: 1989 to 1999
17.12	Gas Utilities, by Islands: 1999
17.13	Service Provided by Hawaiian Electric Company, Inc., on Oahu: 1989 to 1999
17.14	Gas Utility Service by The Gas Company, Inc., for Oahu: 1989 to 1998
17.15	Liquid Fuel Tax Base: 1989 to 1999
17.16	Liquid Fuel Tax Base, by Counties: 1999
17.17	Imports and Exports of Crude Oil and Petroleum Products: 1997
17.18	Gasoline Service Stations (SIC 554) with Payroll, by Counties1987, 1992, and 1997
17.19	Boilers and Pressure Vessels, by Islands: December 31, 1999
17.20	Energy Generated, Purchased, Sold, and Used by Sugar Plantations, by Islands: 1997

17.21	Estimated Employment and Revenue in High Technology and Support Industries in the State of Hawaii: 1998		
17.22	Federal Obligations for Research and Development and R&D Plant in Hawaii: 1993 to 1998		
17.23	Research and Non-Research Extramural Funding, for the University of Hawaii: 1991-92 to 1996-97		
17.24	Research and Development Expenditures at Doctorate-Granting Institutions: 1993 to 1997		
17.25	Patents Issued to Hawaii Residents: 1988 to 1999		
17.26	Astronomy and Related Facilites at the Summits of Mauna Kea and Haleakala: 1999		

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; 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: 1999,* Sections 19 and 20.

Table 17.01-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS): 1960 TO 1997

Year	Petroleum 1/ (1,000 barrels)	Hydroelectric power (million kWh)	Biomass 2/ (million kWh)	Coal (1,000 short tons)	Natural gas 3/ (billion cubic feet)	Other 4/ (million kWh)
1960	16,864	(NA)	0	0	0	(NA)
1965	22,507	(NA)	0	0	0	(NA)
1970	34,129	(NA)	24	0	0	(NA)
1975	37,056	(NA)	25	0	0	(NA)
1980	43,505	(NA)	0	0	3	(NA)
1981	38,721	(NA)	15	0	3	(NA)
1982	35,637	(NA)	26	47	3	(NA)
1983	36,297	(NA)	28	42	3	(NA)
1984	37,252	(NA)	28	38	2	(NA)
1985	40,005	(NA)	25	46	2	(NA)
1986	38,931	(NA)	0	16	2	(NA)
1987	39,688	(NA)	0	63	3	(NA)
1988	46,122	(NA)	0	50	3	(NA)
1989	47,944	(NA)	5/ (NA)	32	3	(NA)
1990	48,655	(NA)	(NA)	28	3	(NA)
1991	45,499	(NA)	(NA)	37	3	(NA)
1992	44,365	(NA)	(NA)	47	3	(NA)
1993	38,791	(NA)	(NA)	73	3	(NA)
1994	41,361	(NA)	(NA)	86	3	(NA)
1995	40,902	(NA)	(NA)	192	3	(NA)
1996	38,769	(NA)	(NA)	169	3	(NA)
1997	38,203	(NA)	(NA)	145	3	(NA)

NA Not available.

1/ For data by type of petroleum, see source.

2/ Includes wood, waste, and ethanol.

3/ Includes supplemental gaseous fuels.

4/ Includes geothermal, wind, photovoltaic, and solar thermal energy.

5/ Discontinuity between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1997, Consumption Estimates* (February 2000), p. 95.

Table 17.02-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU): 1960 TO 1997

Year	Total	Petro-leum 1/	Hydro-electric power	Biomass 2/	Coal	Natural gas 3/	Other 4/
1960	95.0	94.7	0.3	0.0	0.0	0.0	0.0
1965	5/ 130.8	129.5	1.1	5/ 0.2	0.0	0.0	0.0
1970	5/ 197.1	195.5	1.1	5/ 0.4	0.0	0.0	0.0
1975	5/ 214.2	212.7	0.9	5/ 0.6	0.0	0.0	0.0
1980	5/ 265.1	249.3	0.9	5/ 11.9	0.0	3.0	0.0
1985	5/ 251.4	232.1	0.9	5/ 14.2	1.1	2.7	0.4
1986	5/ 237.9	226.9	0.8	5/ 6.7	0.4	2.7	0.4
1987	5/ 242.8	230.6	0.9	5/ 6.7	1.6	2.8	0.3
1988	5/ 281.5	269.3	0.8	5/ 7.0	1.2	2.8	0.3
1989	5/ 6/ 297.1	279.6	6/ 0.6	5/ 6/ 12.0	0.8	2.9	6/ 1.2
1990	5/ 300.1	284.0	0.6	5/ 10.9	0.7	3.0	0.9
1991	5/ 277.0	264.9	0.5	5/ 6.6	0.9	2.9	1.2
1992	5/ 270.5	258.3	0.6	5/ 6.4	1.2	2.9	1.2
1993	5/ 240.1	223.8	0.6	5/ 6.5	1.8	2.8	4.5
1994	5/ 257.4	237.2	1.5	5/ 8.7	1.8	2.9	5.2
1995	5/ 257.5	234.8	1.0	5/ 8.2	4.1	2.9	6.3
1996	5/ 243.9	221.4	1.1	5/ 8.3	3.6	2.8	6.6
1997	239.5	217.8	1.2	7.9	3.3	2.7	6.6

1/ For data by type of petroleum, see source.
2/ Includes wood, waste and ethanol.
3/ Includes supplemental gaseous fuels.
4/ Includes geothermal, wind, photovoltaic, and solar thermal energy.
5/ Revised.
6/ Discontinuity between 1988 and 1989 due to the expanded coverage of non-electric utility use of renewable energy beginning in 1989.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1997, Consumption Estimates* (February 2000), p. 95.

Table 17.03-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1997

[Trillion Btu]

Year	Consumption				Input at electric utilities
	Residential	Commercial	Industrial	Transportation	
1960	7.3	5.2	20.7	61.8	17.6
1965	10.1	6.8	2/ 34.9	79.0	27.6
1970	16.4	11.6	2/ 43.8	125.3	43.2
1975	19.6	13.8	2/ 50.2	130.5	58.8
1980	23.2	20.8	2/ 74.3	146.7	69.7
1985	20.9	20.3	2/ 67.0	143.3	70.0
1986	21.3	22.8	2/ 66.9	126.9	72.9
1987	22.8	26.0	2/ 68.7	125.2	76.6
1988	23.9	39.2	2/ 76.3	142.0	81.9
1989	1/ 2/ 26.0	38.0	1/ 2/ 78.6	1/ 154.5	85.8
1990	25.9	34.3	2/ 82.9	156.9	86.1
1991	24.2	28.2	2/ 73.2	151.4	79.2
1992	24.0	32.8	2/ 70.9	142.9	74.6
1993	20.7	22.7	2/ 69.9	126.8	66.2
1994	20.4	25.4	2/ 76.0	135.5	64.7
1995	20.8	24.4	2/ 76.4	135.8	66.5
1996	21.5	23.8	2/ 78.2	120.3	68.2
1997	21.2	24.1	77.3	117.0	67.0

1/ Discontinuity between 1988 and 1989 due to the expanded coverage of non-electric utiliity use of renewable energy beginning in 1989.

2/ Revised.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1997, Consumption Estimates* (February 2000), pp. 96-100.

Table 17.04-- PRIMARY ENERGY CONSUMPTION AND ELECTRICITY SALES, TOTAL AND PER CAPITA: 1988 TO 1998

Year	Primary energy consumption		Electricity sales by utilities	
	Total (trillion Btu)	Per capita 1/ (million Btu)	Total (1,000 kWh)	Per capita 1/ (kWh)
1988	306.92120	255.682	7,719,029	6,430
1989	315.08420	252.958	7,970,360	6,399
1990	312.13040	2/ 248.339	8,310,537	2/ 6,612
1991	322.95240	2/ 253.686	8,564,032	2/ 6,727
1992	339.09120	2/ 267.495	8,643,562	2/ 6,819
1993	307.74649	2/ 243.573	8,657,905	2/ 6,852
1994	327.47780	2/ 254.829	8,948,458	2/ 6,963
1995	315.11860	2/ 243.982	9,187,429	2/ 7,113
1996	315.94920	2/ 243.562	9,378,962	2/ 7,230
1997	315.99270	2/ 240.414	9,345,281	2/ 7,110
1998 3/	302.87730	229.262	9,261,071	7,010

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: 1985 TO 1998

[Trillion Btu]

Year	Total	Petroleum	Biomass	Solar hot water
1985	266.2178	238.6470	23.1430	2.1327
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	315.0842	289.2301	20.8020	2.3310
1990	312.1304	284.4906	18.1200	2.3400
1991	322.9524	294.6222	17.9000	2.3000
1992	339.0912	305.7758	16.9840	2.3000
1993	307.7465	266.9516	16.8310	2.3000
1994	327.4778	285.5010	16.3660	2.3000
1995	315.1186	273.9590	11.8232	2.8386
1996	315.9492	277.1298	10.3994	3.1225
1997	315.9927	278.3480	8.9527	3.1225
1998 1/	302.8773	269.1272	7.5220	3.1225

Year	Hydroelectric	Coal	Wind	Geothermal	Solid waste
1985	0.9808	0.9560	0.1697	0.1886	-
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	1.0183	0.8715	0.4189	0.1435	0.2689
1990	1.0700	0.8900	0.2900	-	4.9298
1991	1.0000	0.8000	0.3060	-	6.0242
1992	0.7226	6.9207	0.2573	0.0168	6.1140
1993	0.8024	13.2237	0.2352	1.5988	5.8038
1994	1.5300	13.5599	0.2251	1.8060	6.1898
1995	1.0632	16.5249	0.2364	2.3045	6.3688
1996	1.1332	16.9294	0.2244	2.3566	4.6539
1997	0.9544	16.7772	0.1796	2.3633	5.2950
1998 1/	0.7654	14.7665	0.2159	2.2782	5.0796

1/ 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 1998

[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
1997	10,424	7,805	226	371	93
1998 4/	10,455	8,009	178	364	87

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
1997	229	17	1,663	(Z)	20
1998 4/	220	21	1,553	(Z)	20

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.

4/ 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; Hawaii Agriculture Research Center, records.

Table 17.07-- ELECTRICITY PRODUCTION, BY SOURCE, BY ISLANDS: 1998

[Million kWh]

Island	Total	Petroleum	Biomass	MSW 1/	Hydroelectric
State total	10,455	8,010	178	364	87
Hawaii	1,040	627	-	-	49
Maui	1,171	1,008	112	-	21
Lanai	28	28	-	-	-
Molokai	38	38	-	-	-
Oahu	7,723	5,937	-	364	-
Kauai	455	372	66	-	17

Island	Wind	Geothermal	Coal	PV 2/	Other
State total	21	220	1,555	(Z)	20
Hawaii	21	220	123	(Z)	-
Maui	-	-	30	(Z)	-
Lanai	-	-	-	-	-
Molokai	-	-	-	-	-
Oahu	-	-	1,402	(Z)	20
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: 1988 TO 1998

[Millions of dollars]

Year	Total energy expenditures	Fuel expenditures			Less: electric utility fuel expenditures	Plus: electricity purchased by end-user
		Total	Electric utility	Other		
1988	1,664.1	1,314.6	238.0	1,076.6	238.0	587.5
1989	1,897.8	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	2,340.3	1,760.0	238.2	1,521.8	238.2	818.5
1993	2,369.9	1,660.4	213.3	1,447.1	213.3	922.8
1994	2,397.0	1,642.5	201.4	1,441.1	201.4	955.9
1995	2,459.4	1,645.2	223.5	1,421.7	223.5	1,037.7
1996 1/	2,712.0	1,843.9	268.9	1,575.0	268.9	1,137.0
1997	2,756.5	1,863.6	276.2	1,587.4	276.2	1,169.2
1998 2/	2,442.9	1,580.2	210.9	1,369.3	210.9	1,073.6

1/ Revised.
2/ Preliminary.
Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records.

Table 17.09-- ELECTRIC UTILITIES: 1989 TO 1999

Year	Customers, Dec. 31 1/			Power sold (1,000 kWh)		
	Total	Residential 2/	Other	Total	Residential 2/	Other
1989	362,281	312,347	49,934	7,969,694	2,238,874	5,730,820
1990	370,952	320,215	50,737	8,310,537	2,320,550	5,989,987
1991	380,963	328,899	52,064	8,460,186	2,363,726	6,076,697
1991 3/	380,963	328,899	52,064	8,524,088	2,385,276	6,178,756
1992	385,055	332,863	52,192	8,666,889	2,430,152	6,213,410
1993	395,402	341,471	53,931	8,657,903	2,453,830	6,204,075
1994	403,595	346,977	56,618	8,948,458	2,551,240	6,397,218
1995	409,983	352,589	57,394	9,187,430	2,597,010	6,590,419
1996	413,830	356,205	57,625	9,378,962	2,669,654	6,709,308
1997	415,964	358,683	57,281	9,345,281	2,659,248	6,686,033
1998	418,989	361,429	57,560	9,261,070	2,634,172	6,626,899
1999	424,603	366,273	58,330	9,379,808	2,683,408	6,696,400

Year	Average annual use (kWh 4/)		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential 2/	Other	Residential 2/	Other	Total	Residential 2/	Other
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 3/	7,252	117,524	0.10546	0.08733	785,896	251,553	534,343
1992	7,301	119,049	0.10932	0.08898	818,525	265,667	552,858
1993	7,186	115,037	0.12309	0.10005	922,796	302,054	620,743
1994	7,353	112,989	0.12464	0.09972	955,907	317,984	637,923
1995	7,366	114,828	0.13337	0.10490	1,037,702	346,359	691,343
1996	7,495	116,431	0.14272	0.11268	1,137,045	381,011	756,034
1997	7,414	116,723	0.14839	0.11584	1,169,134	394,603	774,531
1998	7,288	115,130	0.13884	0.10682	1,073,610	365,719	707,891
1999	7,326	114,802	0.14312	0.11037	1,123,126	384,043	739,083

Footnotes and source on next page.

Table 17.09-- ELECTRIC UTILITIES: 1989 TO 1999 -- Con.

1/ 1990 based on November data for Oahu.

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/ 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 for that year.

4/ 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: 1999

County or island	Customers, Dec. 31			Power sold (1,000 kWh)		
	Total	Residen-tial 1/	Other	Total	Residential 1/	Other
State total	424,603	366,273	58,330	9,379,808	2,683,408	6,696,400
Oahu	275,467	242,579	32,888	6,997,936	1,845,973	5,151,963
Hawaii	62,478	52,277	10,201	922,352	345,343	577,008
Kauai	30,248	23,316	6,932	394,781	132,849	261,933
Maui County	56,410	48,101	8,309	1,064,739	359,243	705,496
Lanai	1,420	1,227	193	26,569	6,620	19,949
Maui	52,079	44,510	7,569	1,002,594	340,071	662,523
Molokai	2,911	2,364	547	35,576	12,551	23,025

County or island	Average annual use (kWh) 2/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residen-tial 1/	Other	Residen-tial 1/	Other	Total	Residential 1/	Other
State total	7,326	114,802	0.14312	0.11037	1,123,126	384,043	739,083
Oahu	7,610	156,652	0.12741	0.09596	729,557	235,195	494,362
Hawaii	6,606	56,564	0.18768	0.16316	158,962	64,815	94,147
Kauai	5,698	37,786	0.20634	0.19236	77,798	27,412	50,387
Maui County	7,469	84,907	0.15761	0.14201	156,808	56,621	100,187
Lanai	5,396	103,361	0.19478	0.19737	5,227	1,290	3,937
Maui	7,640	87,531	0.15549	0.13866	144,741	52,878	91,863
Molokai	5,309	42,093	0.19547	0.19053	6,840	2,453	4,387

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 17.11-- GAS UTILITIES: 1989 TO 1999

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential 1/	Other	Total	Residential 1/	Other
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
1998	36,225	32,630	3,595	33,095	5,702	27,393
1999	36,363	32,757	3,606	34,099	5,577	28,522

Year	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential 1/	Other	Residential 1/	Other	Total	Residential 1/	Other
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
1998	175	7,620	2.16236	1.25934	46,826	12,329	34,497
1999	170	7,910	2.17266	1.24026	47,491	12,116	35,375

1/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.12-- GAS UTILITIES, BY ISLANDS: 1999

[Excludes bottled gas]

Island	Customers, December 31			Gas sold (1,000 therms)		
	Total	Residen-tial 1/	Other	Total	Residen-tial 1/	Other
State total	36,363	32,757	3,606	34,099	5,577	28,522
Oahu	33,614	30,384	3,230	30,830	5,154	25,676
Hawaii	1,609	1,312	297	2,276	241	2,034
Kauai	643	643	-	88	88	-
Maui	405	326	79	887	74	813
Molokai	92	92	-	19	19	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 2/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residen-tial 1/	Other	Residen-tial 1/	Other	Total	Residen-tial 1/	Other
State total	170	7,910	2.17266	1.24026	47,491	12,116	35,375
Oahu	170	7,949	2.13296	1.24793	43,035	10,994	32,041
Hawaii	184	6,849	2.91320	1.18246	3,108	703	2,405
Kauai	137	-	2.61043	-	230	230	-
Maui	228	10,285	1.98769	1.14251	1,076	148	928
Molokai	206	-	2.23825	-	42	42	-
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 17.13-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC COMPANY, INC., ON OAHU: 1989 TO 1999

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 3/ (kW)
	Total	Residen-tial 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
1998	272,675	239,945	7,299,149	6,938,326	7,603	0.12556	1,669,000
1999	275,467	242,579	7,356,725	6,997,936	7,654	0.12741	1,669,000

1/ Net generation plus purchased power.
2/ Based on average number of customers during the year.
3/ Includes firm purchase power.
Source: Hawaiian Electric Company, Inc., records.

Table 17.14-- SERVICE PROVIDED BY THE GAS COMPANY, INC., ON OAHU: 1989 TO 1998

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	2/ 31,133	5,446	191
1990	31,974	28,714	2/ 31,952	5,469	2/ 190
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	2/ 30,027	5,287	176
1994	33,597	30,344	2/ 30,762	5,372	177
1995	33,472	30,492	30,582	5,332	175
1996	33,914	30,668	30,339	5,203	170
1997	33,800	30,574	29,836	5,176	169
1998	33,705	30,497	29,930	5,284	173

1/ Includes liquefied petroleum gas.
2/ Revised.
Source: The Gas Company, records.

Table 17.15-- LIQUID FUEL TAX BASE: 1989 TO 1999

[In thousands of gallons]

Year reported 1/	All types: Total	All types: Excluding aviation	Gasoline	Diesel oil: Non-hwy.	Diesel oil: Hwy. use
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
1998	954,860	597,410	394,674	169,930	28,983
1999	969,434	621,832	384,260	201,664	32,098

Year reported 1/	Liquefied petroleum gas: Off-hwy.	Liquefied petroleum gas: Hwy. use	Aviation fuel	Small boats: Gasoline	Small boats: Diesel oil
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
1998	3,280	383	357,450	9	151
1999	3,326	360	347,602	4	119

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 17.16-- LIQUID FUEL TAX BASE, BY COUNTIES: 1999

[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	969,434	677,069	125,852	103,985	62,528
Gasoline	384,260	245,623	54,543	60,252	23,842
Diesel oil, non-hwy.	201,664	117,998	31,191	20,972	31,503
Diesel oil, hwy. use	32,098	17,087	4,564	8,109	2,338
Liq. pet. gas, off hwy.	3,326	1,806	603	562	356
Liq. pet. gas, hwy. use	360	315	20	12	13
Small boats, gasoline	4	4	-	-	-
Small boats, diesel oil	119	5	-	113	-
Aviation fuel	347,602	294,231	34,931	13,963	4,476

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections, Calendar Year Ending December 31, 1999" (annual release).

Table 17.17-- IMPORTS AND EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS: 1997

[1,000 barrels]

Product	Imports			Exports		
	Total	Domestic	Foreign	Total	Domestic	Foreign
Crude oil	51,097	15,000	36,097	-	-	-
Distillates	63	63	-	679	668	11
Jet fuel	5,446	311	5,135	126	126	-
Residual fuel oil	-	-	-	457	42	415
Naphtha	-	-	-	1,201	-	1,201
Other	1,154	1,154	-	4,372	2,663	1,709

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy, Resources and Technology Division, records; Energy Information Administration, records.

Table 17.18-- GASOLINE SERVICE STATIONS WITH PAYROLL, BY COUNTIES: 1987, 1992, AND 1997

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1987 1/	355	241	52	26	36
1992 1/	326	212	57	21	36
1997 2/	360	230	67	19	44

1/ Data are for Gasoline Service Stations (SIC 554).

2/ NAICS 447 includes Gasoline Service Stations (SIC 554) and Convenience Stores with gas (SIC 5411 pt.).

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 *1997 Economic Census, Retail Trade, Hawaii*, EC97R44A-HI (November 1999), tables 1 and 3.

Table 17.19-- BOILERS AND PRESSURE VESSELS, BY ISLANDS: DECEMBER 31, 1999

Island	Total	Power boilers	Heating boilers	Pressure vessels
State total	10,021	624	2,679	6,718
Hawaii	1,322	97	305	920
Maui	1,352	96	359	897
Lanai	31	3	6	22
Molokai	47	7	11	29
Oahu	6,748	377	1,898	4,473
Kauai	521	44	100	377

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 17.20-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY SUGAR PLANTATIONS, BY ISLANDS: 1997

Subject	State total	Hawaii	Kauai	Maui	Oahu
1997					
Electricity (millions of kilowatt-hours)					
Generated 1/	347.88	-	103.53	244.34	-
Purchased	9.81	-	5.18	4.13	-
Sold	138.91	-	50.66	88.25	-
Used	218.78	-	58.06	160.72	-
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	11,089	-	3,685	7,405	-
Bagasse 2/	8,363	-	3,473	4,890	-
Fossil fuels	2,726	-	211	2,515	-
Other fuels	-	-	-	-	-

1/ Includes electricity generated by steam, hydroelectric and diesel engine.
2/ Includes bagasse transferred between factories.
Source: Hawaii Agriculture Research Center, *Energy Inventory of Hawaiian Sugar Plantations-1997* (Energy Report 37, July 1998), pp. 10-11.

Table 17.21-- ESTIMATED EMPLOYMENT AND REVENUE IN HIGH TECHNOLOGY AND SUPPORT INDUSTRIES IN THE STATE OF HAWAII: 1998

		Number of employees working 20+ hours				Gross revenues for 1998			
	Number of organi-zations in survey	Number of organi-zations providing informa-tion	Average for organi-zations providing informa-tion	Total for organi-zations in survey 1/	State-wide estimate 2/	Number of organi-zations providing informa-tion	Average for organi-zations providing informa-tion ($)	organi-zations in survey 1/ ($million) 3/	State-wide estimate 2/ ($million) 3/
High technology organizations									
Manufacturing	17	12	22.7	385	816	10	4,261,412	72	153
Communications	33	29	56.6	1,866	3,951	23	7,158,447	236	500
Computer & software services	130	114	27.4	3,560	7,538	88	2,179,636	283	600
Science, research & development	54	48	14.0	756	1,601	39	1,290,485	70	148
Engineering services	63	56	20.4	1,288	2,727	46	3,211,587	202	428
Total	297	259	-	7,856	16,633	206	-	864	1,829
High technology support and administration									
Technology support	10	6	23.0	138	292	6	14,191,667	142	300
Administration of economic programs/ public-funded technology	10	9	161.1	1,450	3,070	6	9,093,000	191	193
Total	20	15	-	1,588	3,362	12	-	233	493
All high tech-related organizations	317	274	-	9,444	19,995	218	-	1,097	2,322

1/ Average for organizations providing information times number of organizations in survey.
2/ Total for high technology-related organizations in survey projected to organizations statewide through multiplying by population to sample ratio.
3/ Data rounded to nearest million dollars. Totals may not add due to rounding or residual categories.
Source: *1998 High Tech Business Survey*, High Technology Development Corporation. http://www.htdc.org/bussurvey/index98.htm.

Table 17.22-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT AND R&D PLANT IN HAWAII: 1993 TO 1998

[Millions of dollars. For fiscal years ended September 30]

Type of obligation	1993	1994	1995	1996	1997	1998
Obligations for R&D	113.0	140.3	139.3	147.6	150.7	160.8
Obligations for R&D plant	19.3	14.3	0.5	1.7	3.0	3.9

Source: National Science Foundation/Division of Science Resources Studies, *Survey of Federal Funds for Research and Development: Fiscal Years 1998, 1999 and 2000.* Internet site http://www.nsf.gov/sbe/srs/nsf00317/pdf/sectc.pdf. Tables C-110a and C-111a.

Table 17.23-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING, FOR THE UNIVERSITY OF HAWAII: 1991-92 TO 1999-00

[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]

	Total		Research		Non-research	
Fiscal year	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
1996-97	1,255	160,859,800	724	89,131,636	531	71,728,164
1997-98	1,300	159,948,612	763	91,746,988	537	68,201,624
1998-99	1,254	164,168,101	707	92,737,645	547	71,430,456
1999-00	1,379	180,629,855	767	102,845,010	612	77,784,845

Source: Office of Research Services, University of Hawaii, *1999-2000 Extramural Awards* (2000), p. i.

Table 17.24-- RESEARCH AND DEVELOPMENT EXPENDITURES AT DOCTORATE-GRANTING INSTITUTIONS: 1993 TO 1997

[Thousands of dollars. For fiscal years ended September 30]

Type of expenditure	1993	1994	1995	1996 1/	1997
Total R&D expenditures	73,961	70,079	78,429	111,202	120,107
Federally financed	41,362	39,392	44,238	66,902	72,421
All others	32,599	30,687	34,191	44,300	47,686

1/ Revised.

Source: National Science Foundation/SRS, *Survey of Scientific and Engineering Expenditures at Universities and Colleges, Fiscal Year 1997.* http://www.nsf.gov/sbe/srs/nsf99336/pdf/nsf9936.pdf.

Table 17.25-- PATENTS ISSUED TO HAWAII RESIDENTS: 1988 TO 1999

[Data include utility, design, plant, and reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1988	62	1994	99
1989	71	1995	84
1990	85	1996	104
1991	80	1997	93
1992	81	1998	93
1993	106	1999	1/ 97

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, 1999* (March 2000) at http://www.uspto.gov/web/offices/ac/ido/oeip/taf/cst_all.pdf.

Table 17.26-- ASTRONOMY AND RELATED FACILITES AT THE SUMMITS OF MAUNA KEA AND HALEAKALA: 1999

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)	170	8.0	2/ 30	1999
Gemini Northern 8-m (Optical/Infrared)	100	5.0	2/ 30	1999
Mauna Kea Observatories Support Services	(NA)	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	(NA)	0.5	4	
Maui Space Surveillance Site (MSSS) 4/	200.0	16.0	120	
Advanced Electro-Optical System 3.7-m Telescope (AEOS)	50.0	15.0	55	1997
Haleakala Support Facilities	(NA)	0.13	6	
Total	253.8	32.43	194	

NA Not available.
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*.

Section 18: Transportation

Section Narrative	
18.01	Highway Distances: 1999
18.02	Length of Streets and Highways, Paved and Unpaved, by Islands: December 31, 1997
18.03	Length of Streets and Highways, Paved and Unpaved: 1975 to 1997
18.04	Highway Bridges, by Islands: December 31, 1999
18.05	Highway Tunnel Lenghts: December 31, 1999
18.06	Vehicle Registration, by Type of Vehicle: 1989 to 1999
18.07	Motor Vehicles Registered, by Counties: 1989 to 1999
18.08	Vehicle Registration, by Type of Vehicle, for Counties: 1999
18.09	Vehicle Registration, by Taxation Status, for Counties: 1999
18.10	Vehicles Available to Occupied Housing Units, by Counties: 1990
18.11	Truck Characteristics: 1982 to 1997
18.12	New Passenger Car and Light Truck (Van) Registrations, by Counties: 1992 to 1998
18.13	New Passenger Car and Light Truck (Van) Registrations, by Nameplate: 1996 to 1998
18.14	New Passenger Car and Light Truck (Van) Registrations, Retail and Rental, by Place of Manufacture: 1997 and 1998
18.15	Hawaii Drivers Licenses in Force, by Counties: 1991 to 1999
18.16	Hawaii Drivers Licenses in Force, by Age and Sex: December 31, 1998 and 1999
18.17	Motor Vehicle Fuel Consumption and Vehicle Miles, 1989 to 1999, and by Counties 1999
18.18	Total 24-hour Traffic Volumes at Selected Oahu Survey Sites: 1997 to 1999
18.19	Roadway congestion for the Honolulu Urbanized Area: 1996
18.20	Major Traffic Accidents, Traffic Injuries, and Traffic Deaths, 1987 to 1997, and by Counties, 1994 to 1997

18.21	Registered Taxicabs and Bicycles, by Islands: 1997 to 1999
18.22	Passenger Car Rental and Leasing (NAICS 53211): 1992 and 1997
18.23	Motor Carrier Characteristics, by Counties: September 1999
18.24	Public Transit, for Oahu: 1989 to 1999
18.25	Public Transit Passengers, by Fare Category, and Average Bus Speed, for Oahu: 1997 to 1999
18.26	Bus Fare Chronology, for Oahu: 1971 to 1999
18.27	Steam Railroad Mileage and Passengers: 1987 to 1999
18.28	Airports and Heliports, by Control, by Islands: 1998 and 1999
18.29	Rank of Honolulu International Airport in Operations and Enplaned Passengers: 1991 to 1993 and 1996
18.30	Aircraft Operations, by Type of Aircraft, at Major State-Owned Airports: 1998 and 1999
18.31	Aircraft Operations for Specified Airports: 1989 to 1999
18.32	Transpacific and Inter-island Air Carriers Serving Hawaii: 1996 to 1999
18.33	Estimated Scheduled Airline Seat Capacity for Arriving Flights: 1989 to 1999
18.34	Civil Flying: 1990 to 1993 and 1996
18.35	Selected Statistics for Aloha and Hawaiian Airlines: 1998 and 1999
18.36	Hawaii Locations Among the Top 30 Domestic Airline Markets: 1998 and1999
18.37	Overseas and Inter-Island Air Passenger Movements: 1989 to 1999
18.38	Passengers, Cargo, and Mail, Overseas and Inter-island, by Airport: 1998
18.39	Passengers, Cargo, and Mail, Overseas and Interisland, by Airport: 1999
18.40	Air Cargo and Airmail: 1989 to 1999
18.41	Flights Scheduled to Depart Honolulu International Airport, by Destination: July 1999
18.42	Air Fares Between Honolulu and Selected Mainland Cities, by United Airlines: 1993 to 1998
18.43	One-Way Fares for Inter-island Flights by Hawaiian Airlines: 1996 to 2000

18.44	Air Fares Between Honolulu and Los Angeles, San Francisco, and Seattle, for Major Airlines: July 2-8, 1998		
18.45	State Commercial Harbors: 1998		
18.46	State Commercial Harbors: 1999		
18.47	Harbor Depths: 1998		
18.48	Small Craft Mooring Facilities, by Islands: December 31, 1999		
18.49	Lighthouses and Related Facilities, by Islands: 1999		
18.50	Undocumented State-Registered Vessels: December 31, 1999		
18.51	Documented and Numbered Vessels Registered in Hawaii: 1993 to 1999		
18.52	Boating Accidents: 1989 to 1999		
18.53	Vessel Arrivals, by Draft: 1997 and 1998		
18.54	Ship Arrivals and Cargo Tonnage at the Port of Honolulu: 1984 to 1999		
18.55	Overseas and Interisland Passenger Arrivals and Departures, for Honolulu Harbor: 1993 to 1999		
18.56	Waterborne Commerce for Specified Harbors: 1988 to 1998		
18.57	Waterborne Commerce, Foreign and Domestic, for Specified Harbors: 1997		
18.58	Waterborne Commerce, Foreign and Domestic, for Specified Harbors: 1998		
18.59	Waterborne Commerce, by Commodities, for Specified Harbors: 1997		
18.60	Waterborne Commerce, by Commodities, for Specified Harbors: 1998		
18.61	Transportation and Warehousing Summary Statistics for the State: 1997		
18.62	Shipment Characteristics by States of Origin and Destination: 1997		

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: 1999*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 1999

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	28.4	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	12.6
Hilo-Kailua, via Naalehu	124.0		
Hilo-Kailua, via Saddle Rd.	87.4	OAHU 1/	
Hilo-Kailua, via Hamakua	98.1		
Hilo-Waimea, via Saddle Rd.	60.9	Honolulu-Ala Moana Center	1.5
Hilo-Waimea, via Hamakua	56.8	Honolulu-UH, via King Street	3.2
Hilo-Upolu Pt., via Hamakua	88.3	Honolulu-Waikiki	3.2
Hilo-Kawaihae, via Hamakua	66.8	Honolulu-Waimanalo, via Koko Head	21.2
Waimea-Hawi	21.4	Honolulu-Waimanalo, via Nuuanu	12.6
Waimea-Kawaihae	10.0	Honolulu-Kailua, via Nuuanu	13.0
Kawaihae-Hawi	19.3	Honolulu-Kaneohe, via Kalihi	12.0
Kawaihae-Kailua	34.3	Honolulu-Kahuku, via Kahaluu	38.0
Kailua-Keahole Airport	6.8	Honolulu-Kahuku, via Wahiawa	48.0
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Wahiawa	44.4
		Honolulu-Kaena Pt., via Waianae	43.7
MAUI		Honolulu-Wahiawa	23.0
		Honolulu-Pearl Harbor Shipyard	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	5.0
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.2	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	32.6
Wailuku-Haleakala summit	38.2	Circle island, via Makapuu	99.5
Wailuku-Makena	17.9	Circle island, via Nuuanu Pali	81.6
Wailuku-Lahaina, via Kahakuloa	38.0		
Wailuku-Lahaina, via Olowalu	20.9	KAUAI	
Kahului-Kihei	8.2		
Lahaina-Wailea	32.4	Lihue-Haena	38.2
Lahaina-Napili	8.9	Lihue-Wailua	5.9
Lahaina-Kaanapali	3.7	Lihue-Lihue Airport	2.0
		Lihue-Poipu	11.9
LANAI		Lihue-Mana	32.9
		Lihue-Kalalau Lookout	44.6
Lanai City-Lanai Airport	3.1	Poipu-Kalalau Lookout	36.8
Lanai City-Hulopoe	7.5	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, 1997

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
1997				
State total	4,164.21	88.58	3,877.70	197.93
Hawaii 1/	1,431.75	-	1,372.45	59.30
Maui 1/	617.10	-	560.40	56.70
Lanai	46.59	-	32.59	14.00
Molokai	129.26	-	117.26	12.00
Oahu	1,523.90	88.58	1,401.88	33.44
Kauai	415.61	-	393.12	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: 1975 TO 1997

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1975	1980	1985	1990	1994	1997
Total mileage	3,743	3,912	4,070	4,101	4,100	4,164
Paved	3,355	3,591	3,808	3,887	3,902	3,966
Unpaved	389	321	262	214	198	198

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.04-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1999

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, 1999

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
Hospital Rock Tunnel:	Inbound	353
	Outbound	354
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: 1989 TO 1999

[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/	Ambu-lances, hearses, patrol wagons	Buses
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
1998	915,753	893,427	713,732	61	3,084
1999	929,474	906,935	725,142	59	3,028

Year	Motor vehicles -- continued				Trailers and semi-trailers
	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motor-cycles, motor-scooters 2/	
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
1998	158,977	423	214	16,936	22,326
1999	161,067	407	224	17,008	22,539

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: 1989 TO 1999

[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
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
1998	893,427	594,096	121,959	56,554	120,818
1999	906,935	597,610	126,039	57,882	125,404

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1999

[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	929,474	609,395	131,562	60,313	128,204
Motor vehicles	906,935	597,610	126,039	57,882	125,404
Passenger vehicles 1/	725,142	489,508	96,659	41,410	97,565
Ambulances	59	34	12	-	13
Buses	3,028	2,428	238	20	342
Trucks 1/	161,067	93,604	26,584	15,611	25,268
Truck tractors	407	171	102	38	96
Truck cranes	224	118	20	14	72
Motorcycles, motorscooters 2/	17,008	11,747	2,424	789	2,048
Trailers and semi-trailers	22,539	11,785	5,523	2,431	2,800

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: 1999

[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	889,927	585,863	123,615	57,093	123,356
Taxable vehicles	825,316	524,575	122,378	56,315	122,048
Exempt vehicles	64,611	61,288	1,237	778	1,308
Federal government	359	340	15	1	3
State government	4,995	4,994	1	-	-
County government	6,460	4,292	601	508	1,059
Fire department	226	59	111	28	28
Police department	1,621	1,273	339	-	9
Consulates	67	67	-	-	-
Disabled veterans	144	86	11	42	5
Military non-resident	50,290	49,958	89	188	55
Farm	343	131	55	10	147
Horseless carriage	46	36	8	1	1
Electric vehicles	60	52	7	-	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: 1982 TO 1997

Category (100 percent)	Selected characteristic	Percent of category			
		1982	1987	1992	1997
Total trucks (1,000)		...	160.8	280.3	294.2
Major use	Personal transportation	54.3	60.5	61.7	70.5
Body type	Pickup, panel, mini-van, and sport utility 1/	89.1	91.2	93.8	94.9
Vehicle size	Light	92.9	94.6	95.6	95.9
Annual miles	Less than 10,000	59.7	57.0	50.0	44.1
Year model	Over 4 years old	75.8	62.1	66.8	74.1
Vehicle acquisition	Purchased new	47.3	49.6	54.3	48.3
Truck type	Single-unit, 2 axles	96.6	96.4	96.6	97.7
Range of operation	Local	78.2	80.2	79.3	81.1
Fuel type	Diesel, liquefied gas, and other	3.7	5.4	4.7	4.8

1/ Includes station wagons and vans similar to panel trucks.

Source: U.S. Census Bureau, *1997 Economic Census, Vehicle Inventory and Use Survey, Hawaii,* EC97TV-HI (November 1998), tables 1a and 2; http://www.census.gov/econ/www/viusmain.html.

Table 18.12-- NEW PASSENGER CAR AND LIGHT TRUCK (VAN) REGISTRATIONS, BY COUNTIES: 1992 TO 1998

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
1998	74,408	40,249	17,332	9,553	7,274

Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual).

Table 18.13-- NEW PASSENGER CAR AND LIGHT TRUCK (VAN) REGISTRATIONS, BY NAMEPLATE: 1996 TO 1998

Nameplate	1996		1997		1998	
	Rank	Units	Rank	Units	Rank	Units
All nameplates	...	68,375	...	71,777	...	74,408
Chevrolet/GEO	2	7,902	1	11,848	1	12,380
Ford	1	11,003	2	11,781	2	11,288
Toyota	3	7,355	3	7,634	3	8,176
Dodge	5	5,485	4	6,210	4	6,463
Nissan	4	7,160	5	5,204	5	5,745
Honda	6	4,708	6	4,823	6	4,531
All others	...	24,762	...	24,277	...	25,825

Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual).

Table 18.14-- NEW PASSENGER CAR AND LIGHT TRUCK (VAN) REGISTRATIONS, RETAIL AND RENTAL, BY PLACE OF MANUFACTURE: 1997 AND 1998

Year and place of manufacture	Cars and trucks	Cars			Trucks		
		Total	Retail	Rental	Total	Retail	Rental
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	-
1998, total	74,408	66,523	32,937	33,586	7,885	7,736	149
Domestic	47,337	41,886	12,951	28,935	5,451	5,343	108
Imports	27,071	24,637	19,986	1/ 4,651	2,434	2,393	41
Percent imports	36.4	37.0	60.7	13.8	30.9	30.9	27.5

1/ Revised by the Hawaii State Department of Business, Economic Development & Tourism.
Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual).

Table 18.15-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1991 TO 1999

[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
1997	738,865	517,904	96,665	42,079	82,217
1998	746,329	520,734	98,252	42,363	84,980
1999	752,693	521,671	100,331	43,141	87,550

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, 1998 AND 1999

Age	Both sexes		Male		Female	
	1998	1999	1998	1999	1998	1999
Total	746,329	752,693	394,537	397,203	351,792	355,490
15 to 19 years	37,223	37,729	20,190	20,507	17,033	17,222
20 to 24 years	59,915	61,871	31,808	32,874	28,107	28,997
25 to 34 years	148,857	144,852	77,012	75,087	71,845	69,765
35 to 44 years	171,970	169,232	88,285	86,660	83,685	82,572
45 to 54 years	150,040	153,371	78,845	80,312	71,195	73,059
55 to 64 years	84,753	89,741	45,781	48,284	38,972	41,457
65 to 74 years	61,239	61,527	32,772	32,749	28,467	28,778
75 to 84 years	28,796	30,440	17,344	17,974	11,452	12,466
85 years and over	3,536	3,930	2,500	2,756	1,036	1,174
Median age (years)	42	42	43	43	42	42

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.17-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, 1989 TO 1999, AND BY COUNTIES, 1999

Year and county	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
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
1998	422,928	473	8,090.2	9,055
1999	417,374	460	8,215.2	9,058
COUNTIES: 1999				
Honolulu	262,832	441	5,251.0	8,811
Hawaii	68,595	541	1,234.4	9,734
Kauai	26,387	446	610.3	10,305
Maui	59,560	477	1,119.5	8,958

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 18.18-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1997 TO 1999

Site	1997	1998	1999
Pali Highway at tunnels	53,200	46,237	45,785
Likelike Highway at tunnels	50,837	32,515	31,937
H-1 Freeway at Manoa-Palolo Drainage Canal	115,262	114,395	115,205
H-1 Freeway at Kapalama Drainage Canal Bridge	222,253	222,631	222,016
Nimitz Highway at Kapalama Drainage Canal Bridge	83,851	71,277	75,545
Kalanianaole Highway east of Ainakoa Ave.	83,720	83,616	84,933

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.19-- ROADWAY CONGESTION FOR THE HONOLULU URBANIZED AREA: 1996

Subject	Number	Rank 1/
Freeway daily vehicle miles of travel (1,000)	5,685	46
Per lane-mile of freeway	13,375	25
Annual person hours of delay	17,225	48
Per 1,000 persons	24	48
Annual congestion cost:		
Per driver (dollars)	520	43
Per capita (dollars)	405	42
Delay and fuel cost (mil. dol.)	285	48

1/ Among 70 major Urbanized Areas.
Source: Texas Transportation Institute, as cited in *Statistical Abstract of the United States: 1999,* p. 644.

Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1988 TO 1998, AND BY COUNTIES, 1995 TO 1998

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
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	19,851	110	13,310	122
1995	16,581	118	13,088	127
1996	13,285	132	11,729	145
1997	12,396	117	11,158	131
1998	11,543	113	10,303	120
COUNTIES: 1995				
Honolulu	12,300	79	9,192	85
Hawaii	2,567	20	2,120	23
Kauai	481	3	477	3
Maui	1,233	16	1,299	16
COUNTIES: 1996				
Honolulu	9,421	73	7,909	76
Hawaii	2,377	28	2,138	35
Kauai	399	7	395	7
Maui	1,088	24	1,287	27
COUNTIES: 1997				
Honolulu	8,421	68	7,329	73
Hawaii	2,362	25	1,963	30
Kauai	444	11	421	14
Maui	1,169	13	1,445	14
COUNTIES: 1998				
Honolulu	7,769	61	6,740	63
Hawaii	2,173	39	1,793	43
Kauai	497	3	455	3
Maui	1,104	10	1,315	11

Footnotes and source on next page.

Table 18.20-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1988 TO 1998, AND BY COUNTIES, 1995 TO 1998 -- Con.

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. Effective June 20, 1995, includes only accidents with damage of $3,000 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Traffic Safety Section, records.

Table 18.21-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS: 1997 TO 1999

[As of December 31]

Island	Taxicabs 1/			Bicycles and mopeds 2/		
	1997	1998	1999	1997	1998	1999
Hawaii	154	180	163	3,254	4,232	4,654
Maui	216	216	216	5,098	4,567	4,057
Lanai	-	-	-	93	101	74
Molokai	-	-	-	154	199	237
Oahu	3/ 1,544	1,365	1,213	99,365	92,372	91,635
Kauai	-	-	-	1,003	721	4/ 1,770

NA Not available.

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.

4/ Effective January 1, 1999 bicycles and mopeds are issued permanent registration.

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

Table 18.22-- PASSENGER CAR RENTAL AND LEASING (NAICS 53211): 1992 AND 1997

[Excludes establishments without payroll. Data for 1992 are for SIC 751, automotive rental and leasing without drivers]

Subject	State total	Counties			
		Hawaii	Honolulu	Kauai	Maui
Number of establishments:					
1992	82	18	36	6	22
1997	63	11	25	8	19
Revenue (1000 $):					
1992	332,100	38,600	195,000	23,600	74,800
1997	347,624	45,172	154,679	43,014	104,759

Source: U.S. Census Bureau, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (Aug. 1994), tables 1a, 6, and 7a, and *1997 Economic Census, Real Estate and Rental and Leasing, Hawaii* (Aug. 1999), tables 1 to 3.

Table 18.23-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: SEPTEMBER 1999

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	1,683	7,071	166,088	5,089	30,654
Hawaii	185	961	40,021	1,035	5,346
Maui	275	1,589	33,033	812	4,117
Honolulu	1,114	4,021	83,996	2,810	19,212
Kauai	109	500	9,038	432	1,979

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 18.24-- PUBLIC TRANSIT, FOR OAHU: 1989 TO 1999

[Service provided by City and County of Honolulu bus system]

Year	Number of buses, Dec. 31	Bus mileage 1/	Total passengers 2/	Revenues (dollars)
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
1998	525	19,751,725	71,215,529	28,488,959
1999	525	20,017,779	69,660,916	27,324,442

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 18.25-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1997 TO 1999

[Calendar year data for City and County of Honolulu bus system]

Fare category	1997	1998	1999
All passengers	74,407,852	71,215,529	69,660,916
Adults, full fare	42,191,326	40,198,684	39,707,903
Students	12,657,287	12,175,435	11,627,724
School subsidy	419,266	475,208	466,379
Stadium express	6,792	5,832	17,961
Senior citizens and disabled	14,863,996	14,350,549	14,052,903
Free transfers	3,712,865	3,521,051	3,335,456
Visitor pass	532,294	488,770	452,590
Average bus speed (m.p.h.)	15.0	15.0	14.9

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

Table 18.26-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1999

[In dollars]

Effective date	Cash fares 1/		Monthly passes	
	Adult	School	Adult	School
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.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records; Department of Transportation Services, records.

Table 18.27-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1987 TO 1999

[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	Passen-gers	Miles of track	Passen-gers		Miles of track	Passen-gers	Miles of track	Passen-gers
1987	6.0	244,555	(NA)	(NA)	1993	6.0	388,484	(NA)	(NA)
1988	6.0	285,139	(NA)	(NA)	1994	6.0	390,862	5.0	1/ 12,821
1989	6.0	296,391	(NA)	(NA)	1995	6.0	447,211	6.5	16,704
1990	6.0	308,910	(NA)	(NA)	1996	6.0	418,099	6.5	19,678
1991	6.0	316,079	(NA)	(NA)	1997	6.0	369,327	6.5	20,850
1992	6.0	385,261	(NA)	(NA)	1998	6.0	(NA)	6.5	19,763
					1999	6.0	281,161	7.0	14,733

NA Not available.

1/ Data incomplete.

Source: Lahaina Kaanapali & Pacific Railroad, records and http://www.statesrail.com; Hawaiian Railway, records.

Table 18.28-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: 1998 AND 1999

[As of December 31]

Island	Airports 1/				Heliports 2/	
	State 3/					
	Com-mercial	General aviation	Military	Semi-private	State: commercial	Semi-private
1998						
State total	9	7	6	1	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	4	-	-	1
Kauai	1	1	1	1	-	-
Niihau	-	-	-	-	-	-
Kure Atoll 4/	1	-	-	-	-	-
1999						
State total	9	7	6	1	-	5
Hawaii	2	2	1	-	-	4
Maui	2	1	-	-	-	-
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	4	-	-	1
Kauai	1	1	1	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 18.29-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN OPERATIONS AND ENPLANED PASSENGERS: 1991 TO 1993 AND 1996

Subject	Rank 1/				Number			
	1991	1992	1993	1996	1991	1992	1993	1996
Total aircraft operations	16	22	24	26	403,570	403,708	358,543	372,099
Air carrier operations	21	21	23	22	196,047	202,559	185,959	203,520
Total enplaned passengers 2/	15	15	19	23	8,772,316	8,740,091	8,484,364	9,124,893

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); http://www.bts.gov/ntda.

Table 18.30-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 1998 AND 1999

[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	Total operations	Air carrier	Air taxi	General aviation	Military
1998					
Honolulu International	334,046	182,795	39,179	90,135	21,937
Kahului	180,890	63,336	84,546	29,509	3,499
Kona International	81,285	27,068	9,346	37,137	7,734
Lihue	105,979	30,691	55,953	15,951	3,384
Hilo International	112,479	21,537	54,894	28,087	7,961
Molokai	49,353	1,163	30,080	15,425	2,685
1999					
Honolulu International	346,609	197,839	36,985	91,743	20,042
Kahului	188,385	62,883	92,589	29,575	3,358
Kona International	82,955	27,500	8,860	37,588	9,007
Lihue	115,523	33,173	58,778	18,995	4,577
Hilo International	115,820	22,189	51,875	33,248	8,508
Molokai	49,184	1,469	30,286	14,169	3,260
Kalaeloa	75,293	-	27	64,160	11,106

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.31-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1989 TO 1999

[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
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
1998	334,046	112,479	81,285	180,890	105,979	49,353
1999	346,609	115,820	82,955	188,385	115,523	49,184

1/ Formerly General Lyman Field; new name became effective July 1, 1989.

2/ Formerly Keahole Airport; effective June 16, 1997, the new name is The Kona International Airport at Keahole.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.32-- TRANSPACIFIC AND INTER-ISLAND AIR CARRIERS SERVING HAWAII: 1996 TO 1999

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines and other air taxi service]

Service	1996	1997	1998	1999
All carriers	39	40	40	43
Transpacific only	24	25	27	29
Domestic	12	12	12	12
Foreign	12	13	15	17
Transpacific and interisland	5	6	4	4
Interisland only	10	9	9	10
Passenger carriers	6	6	5	6
Cargo and mail only	4	3	4	4

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.33-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR ARRIVING FLIGHTS: 1989 TO 1999

Year 1/	Total	Westbound and southbound	Eastbound and northbound
1989	9,651,494	6,397,104	3,254,390
1990	10,345,753	6,500,170	3,845,583
1991	10,503,204	6,403,299	4,099,905
1992	9,955,705	5,603,600	4,352,105
1993	9,190,970	5,129,637	4,061,333
1994	9,002,630	5,191,824	3,810,806
1995	9,055,953	5,214,698	3,841,255
1996	9,297,363	5,408,371	3,888,992
1997	9,345,041	5,357,752	3,987,289
1998	8,789,685	5,322,048	3,467,637
1999	8,704,503	5,559,183	3,145,320

1/ 1989-94: Revised, Hawaii Visitors and Convention Bureau, records. 1995-97: Special report prepared for the Hawaii Visitors and Convention Bureau by Reed Travel Group.

Source: Hawaii Visitors and Convention Bureau. Hawaii State Department of Business, Economic Development & Tourism, records.

Table 18.34-- CIVIL FLYING: 1990 TO 1993 and 1996

Item	1990	1991	1992	1993	1996
Aircraft facilities, Dec. 31	50	48	47	47	46
Airports	34	33	32	32	30
Heliports	16	15	15	15	16
Public aircraft facilities, Dec. 31	16	17	17	18	18
Paved and lighted facilities, Dec. 31	12	12	13	13	13
Large aircraft in operation, Dec.	52	56	59	50	(NA)
Aloha Airlines	17	19	21	17	(NA)
Hawaiian Airlines	35	29	29	24	(NA)
Mid Pacific Airlines	-	8	9	9	(NA)
General aviation: 1/					
Active civil aircraft, Dec.	561	484	372	312	364
Hours flown (1,000)	278	259	176	140	155
Active personnel, Dec. 31:					
Pilots, except instructors	3,505	3,339	3,293	3,088	2,561
Flight instructors	309	350	388	360	378
Nonpilot airmen 2/	3,306	3,492	3,711	3,828	3,850

N/A Not available.

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1996, 34.6 percent for aircraft and 52.3 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 Handbo of Aviation* (annual).

Table 18.35-- SELECTED STATISTICS FOR ALOHA AND HAWAIIAN AIRLINES: 1998 AND 1999

Subject	Aloha Airlines		Hawaiian Airlines	
	1998	1999	1998	1999
Number of aircraft	19	21	24	27
Employees, full-time equivalent	1,971	1,995	2,423	2,766
Aircraft departures	76,188	76,508	56,240	60,815
Passengers (1,000)	5,144	5,077	5,000	5,410
Revenue passenger miles (million)	712	702	3,619	4,021
Passenger revenues (million dollars)	193	193	354	400
Cargo revenues (million dollars)	28	29	20	21
Operating revenues (million dollars)	229	230	426	489
Operating profit/loss (million dollars)	8	(4)	17	(40)
Net profit/loss (million dollars)	5	(2)	8	(29)

Source: Air Transport Association, annual report at http://www.air-transport.org/public/industry.

Table 18.36-- HAWAII LOCATIONS AMONG THE TOP 30 DOMESTIC AIRLINE MARKETS: 1998 and 1999

[Includes all commercial airports in a metropolitan area.
Does not include connecting passengers.]

Rank	Origin or destination	Passengers (1,000)
1998		
6	Honolulu - Kahului	2,541
16	Honolulu - Lihue	1,637
18	Honolulu - Kona	1,467
25	Honolulu - Los Angeles	1,335
1999		
7	Honolulu - Kahului	2,691
16	Honolulu - Lihue	1,749
22	Honolulu - Kona	1,459
26	Honolulu - Los Angeles	1,389

Source: Air Transport Association, annual report at http:www.air-transport.org/public/industry.

Table 18.37-- OVERSEAS AND INTER-ISLAND AIR PASSENGER MOVEMENTS: 1989 TO 1999

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Overseas passengers 1/			Inter-island passenger arrivals
	Arrivals	Departures	Through	
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
1998	7,576,988	7,728,768	(NA)	10,075,448

NA Not applicable
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: 1998

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	2/ 7,728,768	7,576,988	184,411	155,598	28,451	53,519
Honolulu	2/ 6,694,626	6,374,715	171,892	148,778	27,737	53,493
Hilo	-	-	-	-	-	-
Kahului	837,015	910,058	6,804	5,179	642	25
Kona 3/	159,291	251,899	5,715	1,620	70	-
Lihue	37,836	40,316	-	21	2	1
INTERISLAND						
Total	10,075,448	10,075,448	70,017	70,017	20,274	20,274
Honolulu	4,429,574	4,670,632	41,674	25,137	14,950	5,282
Hilo	770,658	788,835	11,285	9,357	1,092	2,364
Upolu	3	-	-	-	-	-
Waimea-Kohala	805	796	5	11	201	440
Kona 3/	1,184,128	1,057,637	5,323	9,427	698	2,226
Kahului	2,111,692	1,981,652	5,587	14,517	2,199	7,643
Hana	4,877	4,605	4	-	-	-
Kapalua	72,573	72,355	237	489	-	4
Molokai	124,917	127,675	319	888	54	121
Kalaupapa	4,546	4,408	8	153	1	4
Lanai	88,035	88,584	136	717	38	74
Lihue	1,283,603	1,278,245	5,439	9,321	1,041	2,116
Princeville 4/	32	24	-	-	-	-
Dillingham (USA)	4	-	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).
2/ Excludes overseas passengers in transit (466,807, passing through Honolulu International Airport).
3/ Formerly Keahole Airport.
4/ Privately owned.
Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.39-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1999

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	2/ 7,737,494	7,699,676	207,339	179,714	30,705	55,488
Honolulu	2/ 6,604,650	6,392,667	193,282	171,115	29,267	55,487
Hilo	-	-	-	-	-	-
Kahului	854,706	969,881	6,945	5,937	1,102	1
Kona 3/	198,599	253,630	7,070	2,562	336	-
Lihue	79,539	83,498	-	100	-	-
INTERISLAND						
Total	10,173,069	10,173,069	69,184	69,184	23,893	23,893
Honolulu	4,493,189	4,693,657	41,221	24,858	18,381	5,496
Hilo	778,771	808,154	10,906	8,980	1,193	2,491
Upolu	3	-	-	-	-	-
Waimea-Kohala	931	906	5	20	147	873
Kona 3/	1,166,265	1,049,688	5,513	8,172	805	4,748
Kahului	2,129,704	2,017,788	5,324	14,911	2,263	7,592
Hana	4,184	3,909	42	11	-	-
Kapalua	68,336	66,966	277	360	-	-
Molokai	132,540	137,212	441	967	35	204
Kalaupapa	4,150	3,996	15	174	1	3
Lanai	88,598	87,043	112	665	15	113
Lihue	1,306,322	1,303,694	5,328	10,066	1,053	2,373
Princeville 4/	76	56	-	-	-	-
Dillingham (USA)	-	-	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC).
2/ Excludes overseas passengers in transit (376,236, passing through Honolulu International Airport).
3/ Formerly Keahole Airport.
4/ Privately owned.
Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.40-- STATEWIDE AIR CARGO AND AIRMAIL: 1989 TO 1999

Calendar year	Overseas air cargo (in thousands of pounds)		Overseas airmail (in thousands of pounds)		Interisland (in U.S. tons)	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: outgoing & incoming	Airmail: outgoing & incoming
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
1998	508,858	311,196	56,902	107,039	140,034	40,548
1999	414,678	359,426	61,410	110,975	138,368	47,786

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.41-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1999

[Data for the 588 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Northern hemisphere			
London	7	7	-
Newark	7	7	-
Toronto	12	12	-
Tampa	7	7	-
Detroit	7	7	-
Atlanta	14	14	-
Chicago	16	16	-
St. Louis	7	7	-
Minneapolis	14	14	-
Houston	7	7	-
Dallas/Fort Worth	29	22	7
Denver	14	-	14
Salt Lake City	7	7	-
Phoenix	2	2	-
Las Vegas	15	15	-
Los Angeles	117	81	36
Seattle	26	19	7
San Francisco	69	55	14
Portland	7	7	-
Vancouver	17	17	-
Anchorage	2	2	-
Guam	12	12	-
Sapporo	7	7	-
Sendai	6	6	-
Tokyo, Narita	60	60	-
Tokyo, Haneda	5	5	-
Niigata	1	1	-
Nagoya	7	7	-
Osaka, Kansai	28	28	-
Hiroshima	2	2	-
Fukuoka	7	7	-
Seoul	7	7	-
Taipei	12	12	-

Continued on next page.

Table 18.41-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1999 -- Con.

[Data for the 588 transpacific flights scheduled to depart from Honolulu during a one-week period]

Destination 1/	Flights during week		
	Total	Final destination	Intermediate point
Southern hemisphere			
Papeete	1	1	-
Rarotonga	1	1	-
Pago Pago	3	3	-
Apia	1	1	-
Tongatapu	1	1	-
Nadi	4	2	2
Auckland	13	13	-
Sydney	7	7	-

1/ By longitude going west.

Source: Greeters of Hawaii, *Jiffisked* [tm] *July 1999.* Courtesy of Greeters of Hawaii, Ltd., P.O. Box 29638, Honolulu, HI 96820.

Table 18.42-- 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/
Los Angeles	586	586	716	530	521	521
San Francisco	566	566	596	530	521	521
Chicago	886	886	916	-	925	924

1/ As of July 27.
Source: United Airlines, records; International Trade Service, records.

Table 18.43-- ONE-WAY FARES FOR INTER-ISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1996 TO 2000

[As of July 1. Prior to May 21, 1997, fares were identical between Honolulu and each of the Neighbor Islands]

Category	1996	1997 1/		1998	1999	2000
		Zone 1	Zone 2			
Regular fare	85	78	80	88	94.75	94.50
Kamaaina fare: 2/						
Monday - Thursday	48	45	47	3/ 55	61.75	61.50
Friday - Sunday	48	47	49	3/ 57	63.75	63.50

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 18.44-- 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 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: United Airlines, records; International Trade Service, records.

Table 18.45-- STATE COMMERCIAL HARBORS: 1998

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	2,669	122	566
Kawaihae	40	35	1,500	1,450	1,562	23	427
Maui:							
Kahului	35	35	2,400	2,050	3,019	113	1,223
Molokai:							
Kaunakakai	23	23	1,500	600	691	7.4	129
Oahu:							
Honolulu: 1/							
Main	} 45	40	{ 3,300	1,520	} 29,308	1,577	8,935
Kapalama			3,400	1,000			
Barbers Point	42	38	2,100	1,800	1,860	36	1,703
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,916	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 18.46-- STATE COMMERCIAL HARBORS: 1999

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	2,669	122	566
Kawaihae	40	35	1,500	1,450	1,562	23	427
Maui:							
Kahului	35	35	2,400	2,050	3,019	113	1,223
Molokai:							
Kaunakakai	23	23	1,500	600	691	7.4	129
Oahu:							
Honolulu: 1/							
Main	} 45	40	{ 3,300	1,520	} 29,308	1,673	8,935
Kapalama			3,400	1,000			
Barbers Point	42	38	2,100	1,800	1,860	63	1,703
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,916	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 18.47-- HARBOR DEPTHS: 1998

[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. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1998 Waterborne Commerce of the United States* , Part 4 at http://www.wrsc.usace.army.mil/ndc/wcsc.htm

Table 18.48-- SMALL CRAFT MOORING FACILITIES, BY ISLANDS: DECEMBER 31, 1999

Island	Catwalks and piers		Other mooring areas		Offshore mooring	
	Capacity	Moored	Capacity	Moored	Capacity	Moored
State total	1,794	1,625	337	215	536	219
Hawaii	277	262	78	75	78	-
Maui	135	127	111	110	124	113
Oahu	1,266	1,134	134	25	222	103
Kauai	116	102	14	5	112	3

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly).

Table 18.49-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS: 1999

[Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

Island	Number of aids to navigation				Greatest nominal range (naut. miles)	Highest above--	
	By control			Light-houses		Sea level (feet)	Ground (feet)
	Total	Federal	Other 1/				
Total	577	181	396	20	2/ 25	3/ 913	4/ 138
Hawaii	68	31	29	8	24	156	115
Maui	75	27	46	2	24	170	48
Molokini	1	1	-	-	7	182	30
Kahoolawe	3	1	2	-	7	120	20
Lanai	18	8	9	1	8	91	13
Molokai	32	16	9	5	25	213	138
Oahu	246	54	188	4	25	913	71
Kauai	42	13	29	-	25	174	80
Niihau	-	-	-	-	-	-	-
Lehua	1	1	-	-	7	704	10
Midway	19	19	-	-	4	43	38
At sea	72	10	62	-	-	-	-

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, records.

Table 18.50-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1999

Subject	Number	Subject	Number
Certificates outstanding	15,481	Type of vessel:	
		Cabin motorboat	2,629
Length:		Open motorboat	5,802
Under 16 feet	5,952	Runabout	2,822
16 to less than 26 feet	7,769	Sail/inboard }	1,194
26 to less than 40 feet	1,576	Sail/outboard }	
40 to 65 feet	174	Sail only	645
Over 65 feet	10	Motor vessel over 65 feet	4
		Thrill craft under 16 feet	1,163
Hull material:			
Wood	732		
Fiberglass	13,057	Uses:	
Metal	556	Pleasure	13,900
Inflatable	913	Commercial fishing	449
Other	223	Charter fishing	17
		Commercial passenger	266
Propulsion:		Other commercial	123
Inboard	1,725	Livery	316
Outboard	8,090	Dealer or manufacturer	43
Inboard/outboard	2,310	Youth group	76
Sail/inboard	630	Government	283
Sail/outboard	573	Other	7
Sail only	612		
Manual	44	Island where vessel is kept:	
Waterjet	1,221	Hawaii	2,480
Other	-	Kauai	1,757
		Lanai	78
Type of storage:		Maui	1,632
Moored on water	4,087	Molokai	205
Moored on land	11,394	Oahu	9,329

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

Table 18.51-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1993 TO 1999

Category	1993	1994	1995	1996	1997	1998	1999
Documented 1/	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Numbered 2/	13,832	13,839	14,470	15,177	15,138	15,138	15,481

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 Land & Natural Resources, Division of Boating & Ocean Recreation. 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, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration (annual).*

Table 18.52-- BOATING ACCIDENTS: 1989 TO 1999

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
1995	91	(NA)	18	(NA)	(NA)	(NA)
1996	46	(NA)	3	(NA)	(NA)	(NA)
1997	43	(NA)	3	(NA)	(NA)	(NA)
1998	42	(NA)	4	(NA)	(NA)	(NA)
1999	26	1	1	11	(NA)	(NA)

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, Division of Boating and Ocean Recreation, *Recreational Boating Accident Statistics 1991 through 1993* ; Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, records.

Table 18.53-- VESSEL ARRIVALS, BY DRAFT: 1997 AND 1998

[Excludes domestic fishing craft]

Harbor	1997 Total	1997 18 feet and less	1997 19 feet and more	1998 Total	1998 18 feet and less	1998 19 feet and more
Hilo	937	871	66	934	875	59
Kawaihae	776	759	17	650	647	3
Kahului	1,259	1,061	198	1,351	1,152	199
Kaunakakai	1,125	1/ 1,125	-	862	1/ 826	-
Kalaupapa	1	2/ 1	-	6	2/ 6	-
Honolulu	8,994	7,077	1,917	8,843	6,921	1,922
Barbers Point	1,942	1,803	139	1,740	1,622	118
Nawiliwili	631	610	21	645	603	42
Port Allen	640	3/ 640	-	777	4/ 777	-

1/ 21 feet and less.
2/ 14 feet and less.
3/ 16 feet and less.
4/ 19 feet and less.

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *Waterborne Commerce of the United States* (annual), Part 4 at http://www.wrsc.usace.army.mil/ndc/wcsc.htm

Table 18.54-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1984 TO 1999

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Cargo tonnage	Number	Cargo tonnage
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
1998	1,320	6,732,716	4,309	1,765,496
1999	1,262	5,721,503	2,249	1,730,662

Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 18.55-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND DEPARTURES, FOR HONOLULU HARBOR: 1993 TO 1999

[Fiscal years ended June 30]

Type of passenger	1994	1995	1996	1997	1998	1999
Overseas:						
In	14,502	17,517	14,851	18,262	25,570	45,494
Out	14,502	17,957	16,128	17,527	28,932	44,389
Interisland:						
In	68,229	68,699	44,982	46,825	43,522	47,950
Out	68,229	68,849	45,159	40,558	43,754	47,782

Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 18.56-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS: 1988 TO 1998

[1,000 short tons. Excludes cargo carried by Army and Navy vessels and cargo in transit]

Year	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
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
1997	1,489	980	2,895	12,704	8,162	1,091
1998	1,630	886	2,851	13,723	6,658	938

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *Waterborne Commerce of the United States* (annual), Part 4 at http://wrsc.usace.army.mil/ndc/wcsc.htm

Table 18.57-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1997

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,489	980	2,895	12,704	8,162	1,091
Foreign						
Imports	79	-	25	2,828	4,242	-
Exports	-	-	-	147	873	-
Canadian						
Imports	-	-	4	63	18	-
Exports	-	-	-	-	-	-
Domestic, total	1,410	980	2,866	9,666	3,030	1,090
Coastwise						
Receipts	1,029	636	1,768	5,232	2,298	550
Shipments	381	344	1,098	4,315	721	540
Internal & intraport	-	-	-	119	11	-

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1997 Waterborne Commerce of the United States,* Part 4 at http://www.wrsc.usace.army.mil/ndc/wcsc.htm

Table 18.58-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1998

[In thousands of short tons]

Category	Hilo	Kawaihae	Kahului	Honolulu	Barbers Point	Nawiliwili
All freight traffic	1,630	886	2,851	13,723	6,658	938
Foreign						
Imports	103	-	3	3,344	2,760	2
Exports	8	-	-	477	319	-
Canadian						
Imports	-	-	-	130	-	-
Exports	-	-	-	-	-	-
Domestic, total	1,519	886	2,849	9,772	3,579	936
Coastwise						
Receipts	1,127	548	1,897	5,275	2,679	637
Shipments	392	338	952	4,389	893	298
Internal & intraport	-	-	-	107	7	-

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1998 Waterborne Commerce of the United States,* Part 4 at http://www.wrsc.usace.army.mil/ndc/wcsc.htm

Table 18.59-- WATERBORNE COMMERCE, BY COMMODITIES, FOR SPECIFIED HARBORS: 1997

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,489	1,108	381
Petroleum and petroleum products	326	326	-
Fabricated non-iron metal products	579	309	271
Food and farm products	142	112	30
Manufactured equipment, machinery and products	254	185	69
Kawaihae	980	636	344
Fabricated non-iron metal products	623	378	245
Food and farm products	76	59	17
Manufactured equipment, machinery and products	208	134	74
Kahului	2,895	1,797	1,098
Petroleum and petroleum products	465	465	-
Fabricated non-iron metal products	1,219	658	561
Food and farm products	510	148	362
Manufactured equipment, machinery and products	439	275	163
Honolulu	12,704	8,123	4,581
Petroleum and petroleum products	3,512	2,943	569
Lumber	239	150	89
Fabricated non-iron metal products	3,230	1,550	1,680
Food and farm products	2,130	1,406	724
Manufactured equipment, machinery and products	2,517	1,450	1,067
Vehicles and parts	900	439	460
Barbers Point	8,162	6,558	1,605
Petroleum and petroleum products	7,132	5,678	1,455
Cement and concrete	314	277	36
Nawiliwili	1,091	550	540
Fabricated non-iron metal products	578	274	304
Food and farm products	229	74	155
Manufactured equipment, machinery and products	224	146	78
Kaunakakai	231	(NA)	(NA)
Port Allen	2	(NA)	(NA)
Pearl Harbor	292	(NA)	(NA)

NA Not available.

1/ Includes foreign imports and coastwise receipts.

2/ Includes foreign exports and coastwise, internal and intraport shipments.

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1997 Waterborne Commerce of the United States,* Part 4 at http://www.wrsc.usace.army.mil/ndc/wcsc.htm

Table 18.60-- WATERBORNE COMMERCE, BY COMMODITIES, FOR SPECIFIED HARBORS: 1998

[In thousands of short tons]

Port and commodity	Total	Receipts 1/	Shipments 2/
Hilo	1,630	1,230	400
Petroleum and petroleum products	355	352	2
Fabricated non-iron metal products	636	369	267
Food and farm products	151	109	43
Manufactured equipment, machinery and products	262	188	74
Kawaihae	886	548	338
Fabricated non-iron metal products	513	268	246
Food and farm products	85	72	13
Manufactured equipment, machinery and products	210	142	68
Kahului	2,851	1,900	952
Petroleum and petroleum products	520	514	6
Fabricated non-iron metal products	1,304	723	581
Food and farm products	364	170	194
Manufactured equipment, machinery and products	445	285	160
Honolulu	13,723	8,749	4,973
Petroleum and petroleum products	3,976	3,245	731
Lumber	266	159	107
Fabricated non-iron metal products	3,166	1,433	1,733
Food and farm products	2,122	1,380	742
Manufactured equipment, machinery and products	2,742	1,629	1,113
Vehicles and parts	939	448	490
Barbers Point	6,558	5,439	1,219
Petroleum and petroleum products	6,078	4,969	1,109
Cement and concrete	188	143	45
Nawiliwili	938	639	298
Fabricated non-iron metal products	501	312	189
Food and farm products	114	81	33
Manufactured equipment, machinery and products	230	156	73
Kaunakakai	203	(NA)	(NA)
Port Allen	3	(NA)	(NA)
Pearl Harbor	377	(NA)	(NA)

NA Not available.

1/ Includes foreign imports and coastwise receipts.

2/ Includes foreign exports and coastwise, internal and intraport shipments.

Source: U.S. Army Corps of Engineers, Waterborne Commerce Statistics Center, *1998 Waterborne Commerce of the United States,* Part 4 at http://www.wrsc.usace.army.mil/ndc/wcsc.htm

Table 18.61-- TRANSPORTATION AND WAREHOUSING SUMMARY STATISTICS FOR THE STATE: 1997

NAICS code	Kind of business	Establish-ments (number)	Revenue ($1,000)	Annual payroll ($1,000)	Paid employees for pay period including March 12 (number)
48-49	Transportation & warehousing 1/ 2/	686	1,249,280	427,727	16,684
481	Air transportation 1/	32	117,500	20,369	777
483	Water transportation	23	184,212	36,876	1,092
484	Truck transportation	190	242,560	81,023	2,897
485	Transit & ground passenger transportation	86	114,434	89,033	3,547
487	Scenic & sightseeing transportation	150	267,338	81,517	4,346
488	Support activities for transportation	134	194,910	79,929	2,551
492	Couriers & messengers	54	83,146	32,075	1,229
493	Warehousing & storage	17	45,180	6,905	245

1/ Data do not include large certificated passenger carriers that report to the Office of the Airline Statistics, U.S. Department of Transportation.

2/ Railroad transportation and U.S. Postal Service are out of scope for the 1997 Economic Census.

Source: U.S. Census Bureau, *1997 Economic Census, Transportation and Warehousing, Geographic Area Series,* EC97T48A-HI (January 2000).

Table 18.62-- SHIPMENT CHARACTERISTICS BY STATES OF ORIGIN AND DESTINATION: 1997

Characteristics	Value (million dollars)	Tons (thousands)	Ton-miles (millions)
Total originating in Hawaii	11,272	22,290	1,330
Destination:			
Hawaii	10,773	22,072	648
California	234	146	388
Washington	38	12	44
Other states	227	60	250
Mode of transportation:			
Single modes:			
Truck	6,696	12,066	153
Water	349	(S)	(S)
Air (includes truck and air)	357	55	42
Pipeline	1,305	7,162	(S)
Multiple modes:			
Parcel, U.S. Postal Service or courier	570	13	6
Truck and water	1,139	779	563
Other multiple modes	(S)	(S)	202
Other and unknown modes	725	734	89
Distance shipped:			
Less than 50 miles	8,854	19,874	239
50 to 249 miles	1,914	2,194	407
250 to 1,999 miles	5	(S)	(S)
2,000 miles or more	499	218	682
Commodity: 1/			
Other agricultural products 2/	326	(S)	(S)
Meat, fish, seafood & their preparations	973	241	20
Other prepared foodstuffs, fats & oils	1,274	1,305	631
Gasoline/aviation turbine fuel	2,187	7,387	193
Fuel oils	748	4,622	(S)
Pharmaceutical products	515	6	1
Printed products	545	369	9
Textiles, leather, and articles of textiles or leather	577	27	3
Electronic and other 3/	467	33	3

S Data do not meet publication standards due to high sampling variability or other reasons.

1/ Based on the Standard Classification of Transported Goods (SCTG) coding system. Includes subgroups not shown separately.

2/ Excluding live animals, live fish and cereal grains.

3/ Electronic and other electrical equipment and components and office equipment.

Source: U.S. Census Bureau, *1997 Economic Census, Transportation, 1997 Commodity Flow Survey, Hawaii,* EC97-TCF-HI (December 1999), tables 1a, 3, 6 and 7.

Section 19: Agriculture

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Section Narrative	
19.01	Farms, Land in Farms, and Selected Items: 1992 and 1997
19.02	Farms and Land in Farms, for Counties: 1997
19.03	Number of Farms, Farm Acreage, and Farm Employment: 1980 to 1998
19.04	Value of Crop and Livestock Sales: 1980 to 1998
19.05	Number of Farms, Farm Acreage, and Farm Employment, by Counties or Islands: 1988, 1996, 1997, and 1998
19.06	Value of Crop and Livestock Sales, by Counties or Islands: 1988, 1996, 1997, and 1998
19.07	Acreage in Crop, Number of Crop Farms, Volume of Crop Marketings, and Value of Crop Sales: 1988, 1996, 1997, and 1998
19.08	Acreage in Crop, Number of Crop Farms, Volume of Crop Marketings, and Value of Crop Sales, by Counties or Islands: 1998
19.09	Specialty Crops, Fruits, and Vegetables: 1998
19.10	Sugarcane Acreage, by Type of Irrigation: 1984 to 1999
19.11	Fresh Fruit and Vegetables Arrivals in Honolulu, by Source: 1995 to 1997
19.12	Livestock Inventory, 1984 to 1998, and by Geographic Areas, 1998
19.13	Number of Livestock Operations, Volume of Livestock Marketings, and Value of Livestock Sales: 1988, 1996, 1997, and 1998
19.14	Number of Livestock Operations, and Value of Livestock Sales, by Counties or Islands: 1998
19.15	Floriculture and Nursery Products, 1992 to 1998, and by Islands, 1995 to 1998
19.16	Floriculture and Nursery Products, by Commodity: 1998
19.17	Out-of-State Sales of Floriculture and Nursery Products: 1995 to 1999
19.18	Land Evaluation Rating, for Six Major Islands: 1985
19.19	Agricultural Labor: Workers on Farms, State of Hawaii, 1993-1999
19.20	General Excise Tax Base for Producing: 1988 to 1999

19.21	Agricultural Chemicals Used, Including Fertilizer: 1987 to 1997		
19.22	Aquaculture Industry Operations: 1970 to 1998		
19.23	Aquaculture Operations, Acreage, Production, and Value, by Counties: 1997 and 1998		

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 1997, 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 Agriculture. 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: 1999.*

Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS: 1992 AND 1997

Item		1992	1997
Farms	number	5,336	5,473
Land in farms	acres	1,588,843	1,439,071
Average size of farm	acres	298	263
Value of land and buildings:			
Average per farm	dollars	722,189	632,281
Average per acre	dollars	2,425	2,405
Estimated market value of all machinery and equipment:			
Average per farm	dollars	53,207	38,709
Farms by size:			
1 to 9 acres		3,410	3,456
10 to 49 acres		1,342	1,417
50 to 179 acres		313	318
180 to 499 acres		133	139
500 to 999 acres		34	43
1,000 acres or more		104	100
Total cropland	farms	4,735	4,882
	acres	293,371	292,107
Harvested cropland	farms	4,472	4,594
	acres	136,431	100,094
Irrigated land	farms	2,220	2,241
	acres	134,338	76,971
Market value of agricultural products sold	$1,000	552,054	496,935
Average per farm	dollars	103,458	90,798
Crops, including nursery and greenhouse crops	$1,000	453,410	401,411
Livestock, poultry, and their products	$1,000	98,644	95,524
Farms by value of sales:			
Less than $2,500		1,790	1,638
$2,500 to $4,999		754	743
$5,000 to $9,999		715	797
$10,000 to $24,999		863	989
$25,000 to $49,999		484	535
$50,000 to $99,999		291	323
$100,000 or more		439	448

Continued on next page.

Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS: 1992 AND 1997 -- Con.

Item		1992	1997
Total farm production expenses	$1,000	466,826	398,567
Average per farm	dollars	87,486	(NA)
Net cash return from agriculture sales for the farm unit	farms	5,336	(NA)
	$1,000	85,228	(NA)
Average per farm	dollars	15,972	(NA)
Operators by principal occupation:			
Farming		2,926	3,052
Other		2,410	2,421
Operators by days worked off farm:			
Any		2,864	2,827
200 days or more		1,487	1,566
Livestock and poultry:			
Cattle and calves inventory	farms	874	829
	number	191,230	181,732
Beef cows	farms	655	625
	number	87,620	93,711
Milk cows	farms	57	44
	number	10,816	8,389
Cattle and calves sold	farms	699	660
	number	82,788	66,726
Hogs and pigs inventory	farms	253	248
	number	28,570	29,440
Hogs and pigs sold	farms	200	190
	number	47,831	38,066
Sheep and lambs inventory	farms	62	(NA)
	number	22,938	(NA)
Chicken inventory 1/	farms	177	140
	number	935,278	726,534
Broilers and other meat-type chickens sold	farms	14	9
	number	1,201,331	478,672

Continued on next page.

Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS: 1992 AND 1997 -- Con.

Item		1992	1997
Selected crops harvested:			
Sugarcane for sugar	farms	31	13
	acres	62,915	31,483
	tons	5,488,214	2,873,712
Pineapples harvested	farms	21	27
	acres	15,500	12,992
	tons	556,748	348,428
Vegetables harvested	farms	602	657
	acres	5,129	6,549
Land in orchards	farms	2,537	2,786
	acres	38,590	37,906

1/ Data for 1992 are for chickens 3 months old or older inventory.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *1997 Census of Agriculture, Vol.1, Part 11, Hawaii* (March 1999), table 1, pp. 10-11.

Table 19.02-- FARMS AND LAND IN FARMS, FOR COUNTIES: 1997

Item		Hawaii	Honolulu	Kauai	Maui
Farms	number	3,319	880	468	806
Land in farms	acres	870,012	79,927	197,042	292,090
Average size of farm	acres	262	91	421	362
Value of land and buildings:					
Average per farm	dollars	574,464	565,361	847,704	818,342
Average per acre	dollars	2,192	6,225	2,013	2,258
Estimated market value of all machinery and equipment:					
Average per farm	dollars	21,997	33,250	81,111	88,989
Farms by size:					
1 to 9 acres		2,062	664	262	468
10 to 49 acres		893	156	135	233
50 to 179 acres		207	28	35	48
180 to 499 acres		71	17	22	29
500 to 999 acres		32	3	3	5
1,000 acres or more		54	12	11	23
Total cropland	farms	3,035	777	386	684
	acres	102,991	29,237	(D)	(D)
Harvested cropland	farms	2,897	749	343	605
	acres	32,410	15,355	20,086	32,243
Irrigated land	farms	857	629	275	480
	acres	7,425	16,303	18,212	35,031
Market value of agricultural products sold	$1,000	168,111	142,965	57,474	128,385
Average per farm	dollars	50,651	162,460	122,808	159,287
Crops, including nursery and greenhouse crops	$1,000	129,018	103,477	52,832	116,084
Livestock, poultry, and their products	$1,000	39,094	39,488	4,642	12,301

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Dept. of Agriculture, National Agricultural Statistics Service, *1997 Census of Agriculture, Vol.1, Part 11, Hawaii* (March 1999), p.150.

Table 19.03-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT: 1980 TO 1998

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	5,200	1,560	2,800	1,100	8,700
1994	5,300	1,530	2,700	1,200	8,100
1995	5,300	1,470	2,700	1,000	7,300
1996	5,400	1,440	2,700	1,000	7,400
1997	5,500	1,440	2,700	1,200	7,000
1998	5,500	1,440	2,700	1,200	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 1998

[$1,000]

Year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unpro-cessed 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	492,683	421,089	127,700	87,360	206,029	71,594
1996	494,565	428,671	108,100	95,914	224,657	65,894
1997 1/	486,460	418,661	85,500	91,721	241,440	67,799
1998	492,581	419,770	87,400	92,776	239,594	72,811

1/ 1997 Total crops sales and Total livestock sales figures have been revised from previous year databook table.

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: 1988, 1996, 1997, AND 1998

County or island and year 1/	Number of farms 2/	Farm acreage 3/ (1,000)	Farm employment 4/		
			Self-employed farm operators	Unpaid family members 5/	Hired workers
State total:					
1988	4,650	1,720	2,600	1,100	10,300
1996	5,400	1,440	2,700	1,000	7,400
1997	5,500	1,440	2,700	1,200	7,000
1998	5,500	1,440	2,700	1,200	7,400
Hawaii County:					
1988	2,700	1,010	1,750	750	3,700
1996	3,250	870	1,800	600	2,600
1997	3,300	870	1,800	700	2,450
1998	3,300	870	1,750	650	2,550
Maui County:					
1988	600	360	250	150	2,650
1996	800	290	300	150	1,850
1997	800	290	300	100	1,850
1998	800	290	350	150	1,950
Oahu:					
1988	950	125	500	200	2,700
1996	900	80	450	200	2,000
1997	900	80	500	300	1,900
1998	900	80	450	250	2,100
Kauai County:					
1988	400	225	150	50	1,250
1996	450	200	200	100	1,000
1997	500	200	200	100	850
1998	500	200	200	100	800

1/ 1996 and 1997 data have been revised from previous year databook table.

2/ Based on farm definition of $1,000 or more of agricultural sales.

3/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

4/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

5/ 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: 1988, 1996, 1997 AND 1998

[$1,000]

County or island and year	All crops and livestock 1/	Crops				Livestock 1/
		All crops 1/	Sugar (unprocessed cane)	Pineapples 2/ (fresh equiv.)	Other crops 1,2/	
State total:						
1988	573,962	485,293	209,900	107,402	167,991	88,669
1996	494,565	428,671	108,100	95,914	224,657	65,894
1997	486,460	418,661	85,500	91,721	241,440	67,799
1998	492,581	419,770	87,400	92,776	239,594	72,811
Hawaii County:						
1988	194,679	165,619	60,000	(Z)	105,619	29,060
1996	141,433	125,428	1,700	(Z)	123,728	16,005
1997	148,711	130,887	-	(Z)	130,887	17,824
1998	141,721	120,901	-	(Z)	120,901	20,820
Maui County:						
1988	137,941	128,778	66,200	39,141	23,437	9,163
1996	126,587	116,444	57,200	27,144	32,100	10,143
1997	127,608	116,453	53,900	28,295	34,258	11,155
1998	136,891	126,344	58,700	28,413	39,231	10,547
Oahu:						
1988	176,508	130,823	31,900	68,261	30,662	45,685
1996	156,590	121,045	10,400	68,770	41,875	35,545
1997	142,238	107,347	-	63,426	43,921	34,891
1998	154,036	117,718	-	64,363	53,355	36,318
Kauai County:						
1988	64,834	60,073	51,800	(Z)	8,273	4,761
1996	69,955	65,754	38,800	(Z)	26,954	4,201
1997	63,354	59,425	31,600	(Z)	27,825	3,929
1998	59,933	54,807	28,700	(Z)	26,107	5,126

Z Less than $50,000.

1/ 1996 and 1997 data have 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: 1988, 1996, 1997, AND 1998

Subject	1988	1996	1997	1998
Acreage in crop (1,000 acres):				
Sugarcane	176.5	68.8	68.7	67.6
Pineapples (land used for pineapple)	34.6	20.0	19.9	21.0
Vegetables and melons (harvested acreage)	5.2	6.2	6.5	6.6
Fruits, excluding pineapples	7.6	7.1	8.0	7.7
Coffee	2.6	6.6	7.0	7.4
Macadamia nuts	21.9	20.2	20.2	20.2
All other crops 1/	7.4	8.4	13.3	16.0
Number of crop farms:				
Sugar	75	7	4	4
Pineapples	12	20	15	15
Vegetables and melons	575	950	1,000	880
Fruits (excluding pineapples)	775	1,040	1,043	1,515
Coffee	635	560	585	610
Macadamia nuts 1/	660	750	800	800
Taro	155	180	160	180
Flowers and nursery products	675	690	670	745
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	7,606	3,544	2,925	(2/)
Pineapples, fresh equivalent (1,000 tons)	659	347	324	(2/)
Vegetables and melons (1,000 lb.)	92,730	92,420	100,850	(2/)
Fruits, excluding pineapples (1,000 lb.)	104,870	74,260	73,750	(2/)
Coffee, parchment (1,000 lb.)	2,000	6,400	9,400	(2/)
Macadamia nuts, in shell (1,000 lb.) 1/	45,500	56,500	58,000	(2/)
Taro (1,000 lb.)	6,800	5,700	5,500	(2/)
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	209,900	108,100	85,500	87,400
Pineapples (fresh equivalent)	107,402	95,914	91,721	92,776
Vegetables and melons	30,917	40,672	44,626	48,894
Fruits (excluding pineapples)	20,576	26,521	29,564	24,618
Coffee (parchment)	6,600	20,800	28,200	24,700
Macadamia nuts (in shell)	40,950	44,070	43,500	37,375
Taro	1,904	2,793	2,805	3,180
Seed Crops 1/ 3/	(NA)	20,250	25,150	27,250
Flowers and nursery products 1/	59,551	68,870	66,655	72,460

NA Not Available
1/ Data have been revised from previous year databook table.
2/ This data series discontinued in 1998.
3/ Seed crops have been included in this table, replacing field crops of previous years.
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, AND VALUE OF CROP SALES, BY COUNTIES OR ISLANDS: 1998

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	-	42.9	-	24.7
Pineapples (land used for pineapple)	(1/)	9.6	11.4	(1/)
Vegetables and melons (harvested acreage)	2.1	1.6	2.8	0.1
Fruits, excluding pineapples	4.8	0.3	1.7	0.9
Coffee	2.8	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
All other crops	2.0	1.9	10.3	1.8
Number of crop farms:				
Sugar	-	2	-	2
Pineapples	5	5	2	3
Vegetables and melons	432	114	280	54
Fruits (excluding pineapples)	912	262	186	155
Coffee	600	(D)	(D)	(D)
Macadamia nuts	(D)	(D)	(D)	(D)
Taro	100	14	11	55
Flowers and nursery products	355	145	205	40
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	-	58,700	-	28,700
Pineapples (fresh equivalent)	(2/)	28,413	64,363	(2/)
Vegetables, ginger root, herbs, and melons	16,192	11,712	19,938	1,052
Fruits (excluding pineapples)	14,733	1,074	6,484	2,327
Coffee (parchment)	16,100	(D)	(D)	(D)
Macadamia nuts (in shell)	(D)	(D)	(D)	(D)
Taro	627	(D)	(D)	1,976
Seed crops	(D)	(D)	(D)	(D)
Flowers and nursery products	38,374	8,839	23,874	1,373

D Withheld to avoid disclosure of individual operations.
1/ Less than 50 acres.
2/ 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-- SPECIALTY CROPS, FRUITS, AND VEGETABLES: 1998

[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 (1998-99)	6,100	1.6	9,500	260.0	24,700
Fresh herbs	...	...	2,400	...	4,289
Ginger roots	360	50.0	18,000	40.0	7,200
Macadamia nuts (1998-99)	19,200	3.0	66,000	57.0	37,375
Seed crops (1998-99)	3,100	...	4,450	...	27,250
Fruits:					
Bananas	1,420	14.8	21,000	35.0	7,350
Guavas	710	...	14,600	12.2	1,781
Papayas	2,120	18.8	39,900	31.6	12,589
Vegetables:					
Cabbage, Chinese	380	20.8	7,900	19.0	1,501
Cabbage, head	600	25.5	15,300	18.0	2,754
Cucumbers	480	12.5	6,000	42.0	2,520
Onions, dry	270	13.0	3,500	73.0	2,555
Onions, green	180	8.3	1,500	86.0	1,290
Peppers, green	170	17.6	3,000	50.0	1,500
Potatoes, sweet	190	10.0	1,900	56.0	1,064
Taro	1/ 490	...	6,000	53.0	3,180
Tomatoes	300	34.0	10,200	55.0	5,610
Watercress	1/ 35	...	980	115.0	1,127
Watermelons	790	20.0	15,800	21.0	3,318

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 19.10-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION: 1984 TO 1999

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
1998	67,585	55,828	6,620	5,137
1999	60,758	51,234	4,602	4,922

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 19.11-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU, BY SOURCE: 1995 TO 1997

[1,000 pounds, net]

Source	1995	1996	1997 1/
Total arrivals 2/	297,800	294,525	283,578
From Hawaii	81,840	74,947	78,374
Oahu 3/	27,618	32,380	34,885
Other islands	54,222	42,568	43,488
Hawaii	27,451	24,574	24,766
Maui	12,434	9,352	9,039
Molokai	14,006	8,187	9,154
Kauai	330	455	531
From U.S. Mainland 4/	210,306	213,763	199,094
From foreign countries	5,653	5,815	6,110

Data subject to revisions.

1/ Preliminary figures.

2/ Ship and plane arrivals.

3/ Oahu refers to arrivals by truck to wholesalers only; excludes direct shipments deliveries from farmer to retail outlets.

4/ Mainland arrivals may include produce originating from foreign countries via US transhipment points.

Source: Hawaii State Department of Agriculture, Market Analysis and News Branch, *Honolulu Arrivals, Fresh Fruits and Vegetables, 1994-1996*, table 1, and records.

Table 19.12-- LIVESTOCK INVENTORY, 1984 TO 1998, AND BY GEOGRAPHIC AREAS, 1998

[In thousands]

Year and geographic area	All cattle and calves 1/ 2/	Milk cows 1/ 2/	Hogs and pigs 2/ 3/	Chickens (excluding broilers) 3/	Bee colonies
1984	221	12	47	1,195	9
1985	209	11	55	1,210	9
1986	199	12	50	1,185	9
1987	203	12	47	1,212	9
1988	212	12	43	1,217	9
1989	205	11	39	1,216	9
1990	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	178	11	34	933	8
1996	174	10	28	876	8
1997	172	10	29	863	9
1998	180	9	29	747	8
GEOGRAPHIC AREAS: 1998					
Hawaii County	124.9	2.2	2.1	(D)	(NA)
Maui County	30.7	1.0	5.1	(D)	(NA)
Oahu	13.0	5.0	18.3	601	(NA)
Kauai County	11.4	0.6	3.5	(D)	(NA)

NA Not available.
D Withheld to avoid disclosing data for individual operations.
1/ As of January 1 of the following year.
2/ 1995-97 data have been revised from previous year databook table.
3/ As of December 1.
Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual); and http://www.nass.usda.gov/hi/stats/t_of_c.htm.

Table 19.13-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1988, 1996, 1997, AND 1998

Subject	1988	1996	1997	1998
Number of livestock operations, Dec. 31:				
Cattle 1/ 2/	900	850	830	830
Hogs 2/	600	250	250	250
Milk 2/	90	60	50	50
Eggs	55	55	55	55
Honey	12	25	23	29
Volume of livestock marketings:				
Beef (dressed weight; 1,000 lb.) 4/	31,403	10,161	10,024	(3/)
Pork (dressed weight; 1,000 lb.)	8,217	6,210	4,579	(3/)
Milk (million lb.)	157.1	125.9	119.3	(3/)
Eggs (million)	224.4	179.0	172.0	(3/)
Honey (1,000 lb.)	1,611	1,240	1,314	(3/)
Value of livestock sales ($1,000):				
Cattle 5/	27,984	11,905	14,323	16,861
Hogs 5/	8,381	6,732	4,902	5,235
Milk	32,190	29,234	29,479	33,293
Eggs	13,801	12,963	12,914	11,323

1/ Includes beef, dairy, and dairy replacement operations.
2/ 1996 & 1997 data have been revised from previous year databook table.
3/ This data series discontinued in 1998.
4/ Includes slaughter cattle, but excludes calves shipped out-of-state.
5/ 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 19.14-- NUMBER OF LIVESTOCK OPERATIONS AND VALUE OF LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1998

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	480	180	50	120
Hogs	80	50	80	40
Milk	27	5	10	8
Eggs	25	7	19	4
Honey	18	(2/)	(2/)	11
Value of livestock sales ($1,000):				
Cattle 3/	11,312	3,641	514	1,394
Hogs 3/	420	825	3,451	539
Milk	(D)	(D)	21,838	(D)
Eggs	(D)	(D)	8,322	(D)

D Withheld to avoid disclosure of individual operations.
1/ Includes beef, dairy, and dairy replacement operations.
2/ Oahu combined with Maui County to avoid disclosure of individual operations.
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 19.15-- FLORICULTURE AND NURSERY PRODUCTS, 1992 TO 1998, AND BY ISLANDS, 1995 TO 1998

Island and year	Number of farms	Growing area: Total (acres)	Growing area: Green-house (1,000 sq. ft.)	Growing area: Artificial shade structure (1,000 sq. ft.)	Growing area: Natural shade area (acres)	Growing area: Open field (acres)	Whole-sale value ($1,000)
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	2,212	2,820	23,405	10	1,600	68,870
1997 1/	670	2,158	2,805	23,885	10	1,535	66,655
1998	745	2,704	6,295	21,010	28	2,050	72,460
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	1,240	1,990	17,815	10	775	34,275
Kauai	52	69	60	345	0	60	1,965
Maui/Molokai	111	428	230	335	0	415	7,515
Oahu	211	475	540	4,910	0	350	25,115
Islands, 1997: 1/							
Hawaii	312	1,363	2,000	18,805	10	875	34,501
Kauai	50	65	60	355	0	55	1,804
Maui/Molokai	106	308	235	345	0	295	8,219
Oahu	202	422	510	4,380	0	310	22,131
Islands, 1998:							
Hawaii	355	1,673	4,205	17,530	19	1,155	38,374
Kauai	40	52	135	185	0	45	1,373
Maui/Molokai	145	459	590	290	4	435	8,839
Oahu	205	520	1,365	3,005	5	415	23,874

1/ Data have been revised from previous year databook table.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary* (September 28, 1999), pp. 10 and 13.

Table 19.16-- FLORICULTURE AND NURSERY PRODUCTS, BY COMMODITY: 1998

[Shown for commodities with value of sales over $500,000 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	75	1,000 dozens	834	6,299
Chrysanthemums, pompon	6	1,000 bunches	281	568
Ginger, red	64	1,000 dozens	131	723
Heliconias	57	1,000 dozens	51	580
Proteas	29	1,000 stems	1,952	1,626
Orchids:				
Sprays: Dendrobium	56	1,000 dozens	442	3,010
Potted: Dendrobiums	63	1,000 pots	1,025	6,069
Potted: Phalaenopsis	20	1,000 pots	221	1,178
Lei or individual flowers:				
Dendrobiums	28	Million blooms	28.9	855
Plumerias	9	Million blooms	23.8	601
Tuberoses	6	Million blooms	19.5	912
Foliage:				
Potted, primarily for--				
Indoor or patio use	72	...	(NA)	13,995
Potted flowering plants:				
Chrysanthemums	5	1,000 pots	127	573
Poinsettias	30	1,000 pots	263	1,012
Plant rentals	45	...	(NA)	4,715

NA Not available.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary,* (September 28, 1999), pp. 3-8.

Table 19.17-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1995 TO 1999

[$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

Type	1995	1996	1997	1998	1999
Total sales	38,985	38,390	41,400	47,180	45,945
Anthuriums, cut	10,395	9,705	10,945	9,795	10,685
Foliage, potted	9,910	9,500	10,320	12,220	12,785
Other flowers, nursery products	18,680	19,185	20,135	25,165	22,475

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary,* (September 5, 2000), p. 14.

Table 19.18-- 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 suitableness 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 19.19-- AGRICULTURAL LABOR: WORKERS ON FARMS, STATE OF HAWAII, 1993-1999

	Farm employment				Hired Workers by type of farm		
Year	Total 2/	Self-Employed farm operators	Unpaid workers 1/	Hired workers 2/	Sugar	Pineapple	Other
1993	12,600	2,800	1,100	8,700	2,500	1,400	4,800
1994	11,950	2,700	1,200	8,100	2,300	1,300	4,500
1995	11,000	2,700	1,000	7,300	1,700	1,200	4,400
1996	11,100	2,700	1,000	7,400	1,400	1,200	4,800
1997	10,900	2,700	1,200	7,000	1,200	1,300	4,500
1998	11,300	2,700	1,200	7,400	1,200	1,200	5,000
1999	11,800	3,000	1,200	7,600	1,200	1,300	5,200

1/ Includes family members and others working 15 or more hours per week.
2/ Sum of hired workers by type of farm may not add to hired workers total due to rounding.
Source: Hawaii Agricultural Statistics Service, Hawaii Agricultural Labor, Quarterly, various issues.

Table 19.20-- GENERAL EXCISE TAX BASE FOR PRODUCING: 1988 TO 1999

[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
1988	298,261	1992	408,662	1996	479,009
1989	326,400	1993	474,861	1997	505,557
1990	317,337	1994	467,174	1998	478,201
1991	301,884	1995	457,538	1999	501,501

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 19.21-- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER: 1987 TO 1997

Chemicals used		1987	1992	1997
Any chemicals, fertilizer, or lime used 1/	farms	4,105	4,476	4,531
Commercial fertilizer	farms	3,524	4,028	4,051
	acres on which used	225,457	200,723	133,927
	$1,000	30,717	30,574	25,653
Agricultural chemicals	farms	3,881	3,853	3,834
	$1,000	18,233	20,396	17,187
Sprays, dusts, granules, fumigants, etc., to control --				
Insects on hay and other crops	farms	2,008	1,790	1,604
	acres on which used	68,150	53,593	34,673
Nematodes in crops	farms	663	489	350
	acres on which used	15,792	15,587	11,086
Diseases in crops and orchards	farms	1,151	1,018	1,033
	acres on which used	(D)	21,036	33,343
Weeds, grass, or brush in crops and pasture	farms	2,887	2,820	2,685
	acres on which used	235,871	178,422	122,576
Chemicals used for defoliation or for growth control of crops or thinning of fruit	farms	212	157	184
	acres on which used	57,481	40,292	15,184

D Withheld to avoid disclosing data for individual farms.

1/ Data for 1987 include farms on which lime was applied alone or together with fertilizer and/or chemicals.

Source: U.S. Department of Agriculture, *1997 Census of Agriculture,* AC97-A-11, *Hawaii,* (March 1999), p. 23.

Table 19.22-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 1998

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
1997	110	(NA)	(NA)	16,600
1998	105	(NA)	2,243	16,620

NA Not available.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program (1970-1997), records and Hawaii State Department of Agriculture, Hawaii Agricultural Statistics Services (1998), records.

Table 19.23-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION, AND VALUE, BY COUNTIES: 1997 AND 1998

Subject	State total	Hawaii	Maui	Honolulu	Kauai
1997					
Number of operations	110	(NA)	(NA)	(NA)	(NA)
Acreage (Dec. 31)	(NA)	(NA)	(NA)	(NA)	(NA)
Production (1,000 lb.)	(NA)	(NA)	(NA)	(NA)	(NA)
Shellfish	(NA)	(NA)	(NA)	(NA)	(NA)
Finfish	(NA)	(NA)	(NA)	(NA)	(NA)
Algae	(NA)	(NA)	(NA)	(NA)	(NA)
Value ($1,000)	16,600.0	13,380.0	2,096.0	(D)	(D)
Shellfish	4,960.0	(NA)	(NA)	(D)	(D)
Finfish	950.0	(NA)	(NA)	(D)	(D)
Algae	8,295.0	(NA)	(NA)	(D)	(D)
Other 1/	2,395.0	(NA)	(NA)	(D)	(D)
1998					
Number of operations	105	44	46	3	12
Acreage (Dec. 31)	(NA)	(NA)	(NA)	(NA)	(NA)
Production (1,000 lb.)	2,243.0	(D)	(D)	(D)	(D)
Shellfish	700.4	458.3	(D)	(D)	(D)
Finfish	218.0	44.8	(D)	130.5	(D)
Algae	1,324.7	(D)	(D)	(D)	(D)
Value ($1,000)	16,619.8	13,382.6	2,099.6	(D)	(D)
Shellfish	4,959.9	3,647.5	1,013.4	0.0	(D)
Finfish	958.0	(D)	(D)	(D)	(D)
Algae	8,294.9	(D)	(D)	0.0	(D)
Other 1/	2,407.0	1,476.5	279.5	(D)	(D)

D Not shown to avoid disclosure of individual operations, but combined and included in the state total.
NA Not available.
1/ Nonfood products: ornamental fish, seedstock, other.
Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program (1997), records and Hawaii State Department of Agriculture, Hawaii Agricultural Statistics Service (1998), records.

Section 20: Forests, Fisheries, and Mining

Section Narrative		
20.01	Forest and Natural Area Acreage, by Islands: June 30, 1996 and June 30, 1997	
20.02	Woodland on Farms, 1987 to 1997, and by Counties, 1997	
20.03	Forest and Brushland Fires by Counties: 1995 to 1997	
20.04	Commercial Fishing: 1989 to 1999	
20.05	Commercial Fish Catch, by Species: 1998	
20.06	Commercial Fish Catch , by Species: 1999	
20.07	Commercial Sea Landings, by Islands: 1998 to 1999	
20.08	Commercial Sea Landings, by Fishing Method: 1998 to 1999	
20.09	Fish Populations Around Selected Shoreline Areas: Year Ended June 30, 1999	
20.10	Most Abundant and Heaviest Fish Species at Specified Locations: Year Ended June 30, 1999	
20.11	Mineral Industries: 1972 to 1997	
20.12	Nonfuel Mineral Production: 1996 to 1998	

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*, U.S. Census Bureau*, 1997 Economic Census, Geographic Area Series*, Mining, 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: 1999*, 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, 1987 TO 1997, AND BY COUNTIES, 1997

[Acres]

Use	1987	1992	1997				
			State total	Hawaii	Maui	Honolulu	Kauai
Total	99,135	109,391	108,704	75,821	(D)	209	(D)
Pastured	27,517	40,909	31,844	14,645	(D)	-	(D)
Not pastured	71,618	68,482	76,860	61,176	(D)	20	(D)

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1997 Census of Agriculture, Hawaii,* AC97-A-11 (March 1999), pp. 19 and 158.

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	0	3	1

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

Table 20.04-- COMMERCIAL FISHING: 1989 TO 1999

[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
1998	3,648	26,191,724	25,264,158	55,854,728
1999	3,796	25,959,350	24,994,423	53,292,964

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catches.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings for Fiscal Year* (annual), as revised, and records.

Table 20.05-- COMMERCIAL FISH CATCH, BY SPECIES: 1998

[Year ended June 30, 1998]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	26,191,724	25,264,158	55,854,728
Sea catch, all species	26,183,860	25,256,294	55,836,548
Tunas	15,035,773	14,679,503	33,336,805
Aku (Skipjack)	2,202,070	2,106,589	2,640,916
Tombo	2,532,880	2,489,388	3,115,247
Bigeye (ahi)	6,456,216	6,372,575	18,727,223
Yellowfin (ahi)	3,782,682	3,662,960	8,685,741
Billfishes	5,986,078	5,834,058	11,534,630
Blue marlin	1,410,919	1,290,802	1,343,884
Shortnose spearfish	163,984	154,280	152,040
Striped marlin	560,086	549,480	887,182
Swordfish	3,821,959	3,812,774	9,115,766
Miscellaneous pelagic species	2,124,068	2,006,602	3,939,760
Mahimahi	623,251	574,858	1,460,680
Monchong	194,854	193,148	292,152
Ono	662,525	603,597	1,392,772
Opah	622,049	616,355	779,079
Deep bottom fishes	731,998	666,271	2,486,975
Hapuupuu	73,217	69,686	199,483
Opakapaka	229,561	219,859	1,007,698
Uku	105,582	100,258	300,532
Ulaula (onaga)	115,753	110,726	610,269
Akule/opelu	1,545,384	1,411,658	2,023,403
Akule	1,182,400	1,066,281	1,485,922
Opelu	296,308	281,820	443,214
Jacks	107,148	91,867	154,358
Inshore fishes	313,761	287,729	653,144
Menpachi	48,753	45,224	138,893
Sharks	110,975	72,324	69,876
Lobsters	102,626	100,546	1,180,592
Spiny	57,714	55,717	754,768
Slipper	44,912	44,829	425,824
Crabs	46,664	40,483	164,135
Kona crab	29,210	23,292	105,706
Shrimps	21,537	20,496	141,170
Laevigatus	21,157	20,416	140,770
Seaweeds	6,089	4,883	31,092
Miscellaneous	51,759	39,874	120,608
Pond landings, all species	7,864	7,864	18,180

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii–Fiscal Years 1998* and records.

Table 20.06-- COMMERCIAL FISH CATCH, BY SPECIES: 1999

[Year ended June 30, 1999]

Species	Pounds caught	Pounds sold	Value (dollars)
Total catch	25,959,350	24,994,423	53,292,964
Sea catch, all species	25,952,873	24,987,946	53,277,858
Tunas	13,203,183	12,866,182	28,886,371
Aku (Skipjack)	1,534,667	1,414,207	1,759,274
Tombo	2,609,693	2,590,954	3,240,805
Bigeye (ahi)	5,577,038	5,539,058	16,507,235
Yellowfin (ahi)	3,456,810	3,301,953	7,296,398
Billfishes	6,703,173	6,563,218	12,416,325
Blue marlin	1,022,151	943,389	1,004,731
Shortnose spearfish	564,689	529,623	488,032
Striped marlin	1,086,246	1,063,036	1,183,397
Swordfish	3,997,401	3,995,607	9,712,032
Miscellaneous pelagic species	3,077,373	2,924,329	4,875,847
Mahimahi	908,991	835,466	1,881,202
Monchong	314,941	313,822	382,191
Ono	832,229	760,149	1,509,299
Opah	991,432	990,631	1,078,459
Deep bottom fishes	670,209	614,817	2,127,281
Ehu	35,599	32,370	117,191
Hapuupuu	84,694	81,434	210,929
Opakapaka	191,653	182,141	807,840
Uku	120,516	113,604	278,590
Ulaula (onaga)	124,870	117,355	561,163
Akule/opelu	1,218,177	1,118,030	1,743,551
Akule	964,941	878,014	1,324,830
Opelu	241,647	229,494	402,504
Jacks	95,159	83,533	134,054
Inshore fishes	312,304	290,692	622,059
Sharks	247,488	136,041	160,130
Miscellaneous	137,770	47,829	73,182
Lobsters	109,499	106,994	1,081,723
Spiny	53,008	50,686	631,367
Slipper	56,491	56,308	450,356
Crabs	47,129	42,450	168,643
Shrimps	215,900	200,301	846,321
Laevigatus	214,590	199,043	842,374
Seaweeds	5,454	4,464	23,139
Miscellaneous	47,825	36,895	192,414
Pond landings, all species	6,477	6,477	15,106

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii–Fiscal Years 1998* and records.

Table 20.07-- COMMERCIAL SEA LANDINGS, BY ISLANDS: 1998 AND 1999

[Years ended June 30]

Island	Pounds landed	Pounds sold	Value (dollars)
1998			
State total	26,183,860	25,256,294	55,836,548
Hawaii	3,445,696	3,238,596	6,149,812
Maui	665,825	538,957	1,245,598
Lanai	20,204	13,330	31,294
Molokai	62,120	52,887	187,178
Oahu	20,993,721	20,548,332	46,315,574
Kauai and Niihau	996,294	864,192	1,907,092
1999			
State total	25,952,873	24,987,946	53,277,858
Hawaii	3,357,211	3,119,233	5,513,977
Maui	655,840	495,846	1,363,401
Lanai	21,316	14,932	31,300
Molokai	43,266	38,223	149,053
Oahu	21,125,074	20,672,786	44,845,429
Kauai and Niihau	750,166	646,926	1,374,698

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

Table 20.08-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD: 1998 AND 1999

[Years ended June 30]

Fishing method	Pounds landed	Pounds sold	Value (dollars)
1998			
All methods	26,183,860	25,256,294	55,836,549
Aku pole and line	1,707,795	1,703,358	2,138,854
Longline	16,147,761	15,963,726	37,686,212
Handline	3,619,898	3,447,251	7,827,921
Trolling	2,701,378	2,285,515	4,429,295
Net	1,387,647	1,259,141	1,784,750
Trap	204,760	202,537	1,417,721
Albacore troll	303,721	303,214	225,960
All other methods	110,900	91,552	325,836
1999			
All methods	25,952,873	24,987,946	53,277,858
Aku pole and line	1,057,817	1,054,768	1,283,866
Longline	17,222,110	17,105,835	37,134,427
Handline	3,343,433	3,118,990	6,691,234
Trolling	2,742,010	2,251,413	4,229,791
Net	1,082,448	984,806	1,509,285
Trap	403,309	385,180	2,052,007
All other methods	101,746	86,954	377,248

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1998-1999* and records.

Table 20.09-- FISH POPULATIONS AROUND SELECTED SHORELINE AREAS: YEAR ENDED JUNE 30, 1999

Location	Species	Fish per acre	Pounds per acre
Marine Life Conservation Districts:			
Hanauma Bay, Oahu:			
Inshore	66	3,308	1,578
Pupukea, Oahu	95	1,602	196
Waikiki, Oahu	54	1,080	110
Molokini Shoal, Maui	90	1,990	354
Honolua-Mokuleia Bay, Maui	29	3,126	1,786
Manele-Hulopoe Bays, Lanai	91	2,958	616
Kealakekua Bay, Hawaii	46	3,305	173
Lapakahi, Hawaii	49	3,755	319
Wailea Bay, Hawaii	49	2,599	274
Old Kona Airport, Hawaii	25	3,858	117
Artificial reefs:			
Maunalua Bay, Oahu (tire modules)	53	3,639	334
Waianae, Oahu (Z-Slabs)	36	1,510	264
Keawakapu, Maui	28	1,877	253
Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	59	916	143
Puako Bay-Puako Reef, Hawaii	36	1,452	180
Red Hill, Hawaii	19	1,295	41
Kiholo Bay, Hawaii	45	4,155	234
Papawai Bay, Hawaii	29	5,976	344
Other areas:			
Honaunau Bay	35	3,838	215

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, 1998 to June 30, 1999.*

Table 20.10-- MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED LOCATIONS: YEAR ENDED JUNE 30, 1999

[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 (Acanthurus triostegus)	1	743	3	97
Mamo (Abudefduf abdominalis)	2	530	7	74
Taape (Lutjanus kasmira)	3	244	2	101
Redlipped parrot (Scarus rubroviolaceus)	(1/)	(NA)	1	508
Waikiki MLCD:				
Manini (Acanthurus triostegus)	1	145	4	11
Saddle-back wrasse (Thalassoma duperrey)	2	133	5	7
Mamo (Abudefduf abdominalis)	3	93	(1/)	(NA)
Kala (Naso unicornis)	(1/)	(NA)	1	22
Clown tang (Naso lituratus)	(1/)	(NA)	2	13
Maiii/lavender tang (Acanthurus nigrofuscus)	5	76	3	12
Kealakekua Bay MLCD:				
Agile damsel (Chromis agilis)	1	657	10	5
Kole (Ctenochaetus strigosus)	2	454	2	22
Maiii/lavender tang (Acanthurus nigrofuscus)	3	387	5	10
Yellow tang (Zebrasome flavescens)	5	270	1	23
Nae nae (Acanthurus olivaceus)	(1/)	(NA)	3	20

NA Not available.
MLCD Marine Life Conservation District.
1/ Not in first 10.
Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1998 to June 30, 1999.*

Table 20.11-- MINERAL INDUSTRIES: 1972 TO 1997

Subject	1972	1977	1982	1987	1992	1997
Number of establishments	15	7	12	9	7	7
With 20 employees or more	5	2	4	4	4	2
All employees:						
Number (1,000)	.3	.1	.2	.2	.2	.1
Payroll (million dollars)	2.4	1.9	3.8	7.4	9.4	5.6
Production, development, and exploration workers:						
Number (1,000)	.2	.1	.1	.2	.2	.1
Hours (millions)	.4	.2	.2	.4	.4	.2
Wages (million dollars)	1.8	1.5	2.6	5.7	8.1	4.7
Value added by mining (million dollars)	9.0	8.1	9.7	23.5	27.3	22.0
Cost of supplies used, purchased machinery installed, etc. (million dollars)	4.1	2.9	5.9	10.4	11.3	(D)
Value of shipments and receipts (million dollars)	11.0	9.7	12.8	31.1	33.7	33.3
Capital expenditures (million dollars)	2.0	1.3	2.7	2.8	4.8	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Census Bureau, *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; *1997 Economic Census, Mining, Geographic Area Series, Hawaii* , EC97N21A-HI (May 2000), table 1.

Table 20.12-- NONFUEL MINERAL PRODUCTION: 1996 TO 1998

[Estimated production as measured by mine shipments, sales, or marketable production, including consumption by producers, Data are rounded to three significant digits; may not add to totals shown]

Minerals	1996	1997 1/	1998 2/
QUANTITY (1,000 METRIC TONS)			
Cement:			
Masonry	5	3	3
Portland	312	252	261
Gemstones	(NA)	(NA)	(NA)
Sand and gravel (construction)	(D)	378	378
Stone (crushed)	6,560	5,560	5,000
VALUE ($1,000)			
Total 3/	110,000	93,700	85,500
Cement:			
Masonry 4/	500	332	300
Portland 4/	32,000	29,600	31,000
Gemstones	153	66	33
Sand and gravel (construction)	(D)	4,210	4,210
Stone (crushed)	77,500	59,500	50,000

NA Not availiable.
D Withheld to avoid disclosing company proprietary data.
1/ Revised.
2/ Preliminary.
3/ Partial total, excludes values that must be concealed to avoid disclosing company proprietary data.
4/ For 1996 & 1997, data have been estimated.
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.

Section 21: Construction and Housing

Section Narrative		
21.01	Number and Value of Building Permits, by Counties: 1995 to 1999	
21.02	Value of Building Permits, by Type, by Counties: 1997 to 1999	
21.03	Estimated Value Per Housing Unit, by Type of Structure, for Building Permits Issued by the City and County of Honolulu: 1994 to 1999	
21.04	General Excise Tax Base for Contracting: 1989 to 1999	
21.05	General Construction Statistics for Establishments with Payroll: 1997	
21.06	Characteristics of the Construction Industries: 1997	
21.07	Private Residential Construction and Demolition Authorized by Permits, by Counties: 1994 to 1999	
21.08	Honolulu Construction Cost Indexes: 1989 to 1999	
21.09	Condominium Associations and Apartments Registered: Fiscal Years 1990 to 1999	
21.10	Condominium Projects Registered with the State of Hawaii: 1995 to 1999	
21.11	New Condominium Projects, by Type: Fiscal Years 1995 to 1999	
21.12	Housing Units Converted from Rental Units to Condominium Units: 1995 to 1999	
21.13	Time Share Properties and Units, by Islands: 1999	
21.14	Number of Taxpayers Claiming Home Exemptions: 1994 to 1999	
21.15	Selected Housing Characteristics, by Counties: 1990	
21.16	Number of Housing Units in Oahu Neighborhoods: 1990, 1996, 1997 and 1998	
21.17	Summary Housing Characteristics, by Counties: 1990	
21.18	Characteristics of Housing Units, for the State, 1992 and 1997, and Counties, 1997	
21.19	Tenure and Value of Condominium Units, by Counties: 1990	
21.20	Vacancy and Homeownership Rates, for the State and Honolulu MSA: 1989 to 1999	

21.21	Building Vacancy Rates for Competitive Office Space for the Metropolitan Honolulu Office Market, By Submarket: 1991 to 1999		
21.22	Housing and Community Development Corporation of Hawaii Public Housing Operations: 1997 to 1999		
21.23	Real Estate Licenses, Active and Inactive, by Type of License and Location: March 6, 2000		
21.24	Multiple Listing Service Listings and Sales for Oahu: 1989 to 1999		
21.25	Multiple Listing Service Listings and Sales, by Type of Property, for Oahu: 1997 to 1999		
21.26	Multiple Listing Service Single-Family Houses Sold, by Selling Price Range, for Oahu: 1997 to 1999		
21.27	Multiple Listing Service Cooperative and Condominium Units Sold, by Selling Price Range, for Oahu: 1997 to 1999		
21.28	Multiple Listing Service, Number of Single Family and Condominium Resales, by Island: 1989 to 1999		
21.29	Multiple Listing Service, Median Sales Price of Single Family and Condominium Resales, by Island: 1989 to 1999		
21.30	Characteristics of Single Family Homes Insured under FHA Section 203(B): 1995 and 1996		
21.31	Number of Deeds Filed and Recorded and Approximate Value of Land Conveyed: 1995 to 1999		
21.32	Approximate Value of Land Transfers, by Counties: 1997 to 1999		
21.33	Foreclosure Filings, by Judicial Circuit: 1994 to 1999		
21.34	Elevators, Escalators, and Similar Facilities: December 31, 1999		
21.35	Tallest Structures, by Islands: March 2000		

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. Census Bureau, various series compiled by state and county agencies (primarily the Hawaii State Department of Business, Economic Development & Tourism; Hawaii State Department of Commerce and Consumer Affairs; Hawaii State Department of Taxation; the Housing and Community Development Corporation of Hawaii; the Hawaii Bureau of Conveyances; and the four county building departments) and local real estate companies. 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: 1999*.

Table 21.01-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1995 TO 1999

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
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
1998	16,058	10,677	2,639	972	1,770
1999	1/ 17,381	1/ 11,449	2,850	1,199	1,883
ESTIMATED VALUE ($1,000)					
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
1998	1,054,281	624,226	178,220	88,196	163,638
1999	1/ 1,320,218	1/ 706,358	243,852	140,846	229,162

1/ Revised.

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: 1997 TO 1999

[In thousands of dollars]

Category	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
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
1998					
Total	1,054,281	624,226	178,220	88,196	163,638
Residential	485,504	222,054	121,452	50,707	91,291
Hotel	4,935	-	-	-	4,935
Non-residential	200,690	132,362	20,744	14,851	32,733
Additions and alterations	363,152	269,810	36,024	22,637	34,680
1999					
Total	1/ 1,320,218	1/ 706,358	243,852	140,846	229,162
Residential	1/ 628,778	1/ 241,989	181,203	81,955	123,632
Hotel	50,700	50,700	-	-	-
Non-residential	1/ 255,477	1/ 152,084	27,485	15,420	60,488
Additions and alterations	1/ 385,263	1/ 261,585	35,164	43,471	45,042

1/ Revised.

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: 1994 TO 1999

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1994	1995	1996	1997	1998	1999
One-family	145,044	135,304	149,807	151,064	151,049	157,762
Two-family	152,011	140,721	139,824	141,816	152,019	140,481
Multi-family	75,413	92,092	100,344	123,611	75,343	79,813

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual).

Table 21.04-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1989 TO 1999

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

Year 1/	Amount	Year 1/	Amount	Year 1/	Amount
1989	3,112,846	1993	3,803,605	1997	2,944,427
1990	4,003,650	1994	3,322,339	1998	3,015,977
1991	4,334,051	1995	3,133,510	1999	2,991,201
1992	4,012,688	1996	3,285,106		

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-- GENERAL CONSTRUCTION STATISTICS FOR ESTABLISHMENTS WITH PAYROLL: 1997

[Excludes establishments without payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in earlier Economic Censuses. Less than half of the industries in the construction sector of NAICS have comparable industries in the SIC system. Therefore, comparability between the 1992 and the 1997 data is difficult]

Measure	Amount
Number of establishments	2,335
Number of proprietors and working partners 1/	748
Number of employees:	
Total	21,791
Construction workers	15,195
January to March	15,183
April to June	14,946
July to September	15,447
October to December	15,204
Payroll ($1,000):	
All employees	845,169
Construction workers	551,358
Value of construction work ($1,000) 2/	3,902,053
Value of construction work on government owned projects	1,415,032
Value of construction work on privately owned projects	520,473
Net value of construction work ($1,000)	2,769,537
Value added ($1,000)	1,801,322
Cost of materials, components, supplies, and fuels ($1,000)	1,052,870
Cost of construction work subcontracted out to others ($1,000)	1,132,516
Rental cost of machinery, equipment, and buildings ($1,000)	65,356
Capital expenditures, other than land ($1,000)	48,623
End-of-year gross book value of depreciable assets ($1,000)	654,661

1/ Data shown are based on crediting each sole proprietorship establishment with one active proprietor and each partnership establishment with two working partners.

2/ Includes subgroups not shown separately.

Source: U.S. Census Bureau, *1997 Economic Census, Geographic Area Series, Construction, Hawaii,* EC97C23A-HI (March 2000), Table 1,2 and 3, at http://www.census.gov/prod/ec97/97c23-hi.pdf.

Table 21.06-- CHARACTERISTICS OF THE CONSTRUCTION INDUSTRIES: 1997

[Excludes establishments without payroll. Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in earlier Economic Censuses. Less than half of the industries in the construction sector of NAICS have comparable industries in the SIC system. Therefore, comparability between the 1992 and the 1997 data is difficult]

NAICS code	Kind of business	Estab-lish-ments	No. of employees		Payroll ($1,000)		Value of construct-ion work ($1,000)
			All	Con-struction workers	All employ-ees	Con-struction workers	
23	Total	2,335	21,791	15,195	845,169	551,358	3,902,053
233	Building, development, & general contracting	813	(D)	(D)	(D)	162,708	2,049,401
2331	Land subdivision & land development	54	637	170	22,942	4,481	140,644
2332	Residential building construction	543	3,224	2,102	101,494	53,851	645,185
23321	Single-family housing construction	510	3,028	1,979	94,250	50,354	(S)
23322	Multifamily housing construction	33	196	123	7,243	3,497	52,695
2333	Nonresidential building construction	216	(D)	(D)	(D)	104,376	1,263,572
234	Heavy construction 1/	142	(D)	(D)	(D)	75,721	467,460
2341	Highway, street, bridge & tunnel construct.	52	1,041	(D)	(D)	(D)	(D)
235	Special trade contractors	1,380	11,654	8,689	433,718	312,929	1,385,192
2351	Plumbing, heating, & air-conditioning contractors	243	1,976	1,337	78,869	53,728	262,209
2352	Painting & wall covering contractors	166	1,262	986	47,794	33,441	112,265
2353	Electrical contractors	269	2,172	1,663	87,945	66,572	282,201
2354	Masonry, drywall, insulation, & tile contractors	211	1,767	1,453	62,777	50,612	179,307
2355	Carpentry & floor contractors	121	897	640	31,790	22,502	126,589
2356	Roofing, siding, & sheet metal contractors	128	1,119	806	32,613	20,317	140,447
2357	Concrete contractors	44	449	345	15,410	10,598	45,635
2358	Water well drilling contractors	10	36	21	1,212	709	4,153
2359	Other special trade contractors	188	1,976	1,437	75,307	54,449	232,386

D Withheld to avoid disclosing data of individual companies.
S Withheld because estimates did not meet publication standards.
1/ Includes subgroups not shown separately.
Source: U.S. Census Bureau, *1997 Economic Census, Geographic Area Series, Construction: Hawaii,* EC97C23A-HI (March 2000), Table 1, at http://www.census.gov/prod/ec97/97c23-hi.pdf.

Table 21.07-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1994 TO 1999

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai 1/	Maui
New 1-family dwellings:						
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
1997	2,648	1,141	1,507	649	284	574
1998	2,825	1,238	1,587	773	251	563
1999	(NA)	1,442	(NA)	1,044	259	(NA)
New duplex units:						
1994	141	80	61	16	15	30
1995	112	64	48	10	21	17
1996	48	34	14	6	1	7
1997	43	38	5	4	-	1
1998	98	54	44	20	2	22
1999	(NA)	27	(NA)	6	2	(NA)
New apartments:						
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
1997	960	856	104	65	15	24
1998	555	496	59	52	1	6
1999	(NA)	570	(NA)	221	28	(NA)
Units demolished: 2/						
1994	(NA)	553	(NA)	67	23	(NA)
1995	1,161	855	306	66	172	68
1996	594	346	248	41	98	109
1997	484	392	92	35	17	40
1998	557	439	118	46	30	42
1999	(NA)	338	(NA)	60	21	(NA)

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/ All county figures, except for Maui County, exclude 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: 1989 TO 1999

[January 1992=100. Data are annual averages. Reindexed in 1992]

Year	Single-family residence			High-rise building		
	All components	Materials' prices	Labor 1/	All components	Materials' prices	Labor 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
1998 2/	129.0	131.4	126.5	119.4	111.4	127.4
1999 2/	129.8	131.4	130.9	121.0	111.4	131.3

1/ Wages and benefits.
2/ Preliminary.
Source: First Hawaiian Bank, Research Department, records; Hawaii State Department of Business, Economic Development & Tourism, records.

Table 21.09-- CONDOMINIUM ASSOCIATIONS AND APARTMENTS REGISTERED: FISCAL YEARS 1990 TO 1999

Fiscal year	Associations registered	Apartments represented	Fiscal year	Associations registered	Apartments represented
1990	201	20,066	1995	999	85,296
1991	809	74,916	1996	1,161	101,629
1992	968	87,127	1997	1,277	106,052
1993	1,049	91,424	1998 1/	1,339	112,832
1994	1,114	95,827	1999	1,361	114,449

1/ The first biennial registration, for the July 1, 1997 through June 30, 1999 biennium, was due on June 30, 1997. As a result, registrations were received in both the 1997 and 1998 fiscal years. The numbers reported here show the number of associations and apartments that registered for the biennium and include registrations received in the 1997 fiscal year.

Source: Hawaii Real Estate Commission, *1999 Annual Report*, p. 16 at http://www.state.hi.us/hirec/publ.htm.

Table 21.10-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1995 TO 1999

[Fiscal years ended June 30]

Subject	1995	1996	1997	1998	1999
Projects	255	183	179	226	211
Individual units	4,654	2,216	2,777	2,022	2,363

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 1995 TO 1999

Type of project	1995 1/	1996 1/	1997 1/	1998	1999
All types	109	85	92	117	85
Residential	66	42	40	84	47
2 units or fewer	23	15	11	52	13
3 to 15 units	8	7	15	19	18
16 to 50 units	13	5	7	10	11
More than 50 units	16	10	4	3	5
Commercial and other	25	16	25	5	11
Agricultural	18	27	27	28	27

1/ Overall and category totals differ from those reported earlier due in part to the change in the database management system. Subcategory figures for residential, however, were not adjusted accordingly and therefore remain the same and do not add up to the residential total.

Source: Hawaii Real Estate Commission, *1999 Annual Report*, pp. 14 and 16 at http://www.state.hi.us/hirec/publ.htm.

Table 21.12-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINIUM UNITS: 1995 TO 1999

[Fiscal years ended June 30]

Subject	1995	1996	1997	1998	1999
Projects	89	58	47	36	73
Housing units	1,060	476	1,048	629	368

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: 1999

Subject	State total	Hawaii	Kauai	Maui	Oahu
Properties	53	8	18	20	7
Registered units 1/	3,716	768	1,537	778	633
Operated units 2/	3,524	768	1,537	637	582

1/ Number of units registered which have been designated for sale as timeshare. This includes units not yet available for sale, currently available for sale or have already been sold.

2/ Number of units operated which have been sold or are available for sale as timeshare.

Source: Hawaii Department of Business, Economic Development & Tourism, Research and Economic Analysis Division, *1999 Visitor Plant Inventory,* pp. 56-57.

Table 21.14-- NUMBER OF TAXPAYERS CLAIMING HOME EXEMPTIONS: 1994 TO 1999

[As of January 1. Based on number of taxpayers claiming home exemptions]

Tenure and county	1994	1995	1996	1997	1998	1999
TOTAL OWNER-OCCUPIED						
State total	176,835	180,990	184,662	185,208	188,570	189,954
Honolulu	125,529	127,496	129,542	128,489	130,823	130,959
Maui	17,191	17,960	18,449	18,903	19,166	19,537
Hawaii	24,768	25,783	26,899	27,912	28,536	29,293
Kauai	9,347	9,751	9,772	9,904	10,045	10,165
FEE SIMPLE						
State total	159,527	166,953	171,767	173,237	176,973	178,933
Honolulu	109,915	115,217	118,304	118,157	120,843	121,560
Maui	16,472	17,242	17,695	18,161	18,437	18,828
Hawaii	24,121	25,131	26,250	27,260	27,881	28,615
Kauai	9,019	9,363	9,518	9,659	9,812	9,930
LEASEHOLD						
State total	17,308	14,037	12,895	11,971	11,597	11,021
Honolulu	15,614	12,279	11,238	10,332	9,980	9,399
Maui	719	718	754	742	729	709
Hawaii	647	652	649	652	655	678
Kauai	328	388	254	245	233	235

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 21.15-- 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 21.15-- 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 21.16-- NUMBER OF HOUSING UNITS IN OAHU NEIGHBORHOODS: 1990, 1996, 1997 AND 1998

Neighborhood Board 1/ (see the neighborhood area maps)	1990	1996	1997	1998	Percent change 1990-1998
Oahu total 1/	281,683	309,549	311,209	312,220	10.8
1 Hawaii Kai	9,234	9,648	9,770	10,012	8.4
2 Kuliouou-Kalani Iki	5,175	5,435	5,489	5,481	5.9
3 Waialae-Kahala	4,014	4,008	4,010	4,001	-0.3
4 Kaimuki	6,383	6,489	6,495	6,480	1.5
5 Diamond Head/Kapahulu/ St. Louis Heights	8,734	8,916	8,916	8,860	1.4
6 Palolo	4,208	4,236	4,236	4,227	0.5
7 Manoa	6,904	7,220	7,219	7,238	4.8
8 McCully/Moiliili	14,046	14,137	14,175	14,145	0.7
9 Waikiki	17,198	18,606	18,460	18,226	6.0
10 Makiki/Lower Punchbowl/ Tantalus	15,328	15,593	15,628	15,987	4.3
11 Ala Moana/Kakaako	6,779	8,797	8,791	9,122	34.6
12 Nuuanu/Punchbowl	5,982	6,104	6,109	6,107	2.1
13 Downtown	5,911	7,171	7,247	7,246	22.6
14 Liliha/Kapalama	6,838	6,930	6,934	6,928	1.3
15 Kalihi-Palama	11,107	11,001	10,993	10,989	-1.1
16 Kalihi Valley	4,146	4,131	4,130	4,121	-0.6
17 Moanalua	3,624	3,758	3,758	3,764	3.9
18 Aliamanu/Salt Lake/ Foster Village	12,217	12,933	12,936	13,090	7.1
19 Airport	5,996	6,235	6,271	6,271	4.6
20 Aiea	10,867	11,103	11,156	11,185	2.9
21 Pearl City	13,899	14,321	14,487	14,493	4.3
22 Waipahu	14,202	17,273	17,357	17,518	23.3
23 Ewa	11,691	19,419	19,875	20,014	71.2
24 Waianae Coast	10,711	12,012	12,107	12,087	12.8
25 Mililani/Waipio/Melemanu	10,738	11,198	11,233	11,232	4.6
26 Wahiawa	11,268	15,717	15,901	15,902	41.1
27 North Shore	5,287	6,029	6,259	6,253	18.3
28 Koolauloa	4,422	4,493	4,593	4,594	3.9
29 Kahaluu	4,409	4,591	4,601	4,600	4.3
30 Kaneohe	12,452	13,205	13,212	13,205	6.0
31 Kailua	15,709	16,443	16,458	16,441	4.7
32 Waimanalo	2,204	2,397	2,403	2,401	8.9

1/ Mokapu/Kaneohe MCAS is included in the Kailua Neighborhood Board. Also, data are not listed separately for the Makakilo/Kapolei/Honokai Hale and the Mililani Mauka/Launani Valley Neighborhood Boards which were recently formed from other existing neighborhood board areas.

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

Table 21.17-- 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 21.18--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 21.19-- 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 21.20-- VACANCY AND HOMEOWNERSHIP RATES, FOR THE STATE AND HONOLULU MSA: 1989 TO 1999

Year	Rental vacancy rate		Homeowner vacancy rate		Homeownership rate	
	State total	Honolulu MSA 1/	State total	Honolulu MSA 1/	State total	Honolulu MSA 1/
1989	2/ 6.6	2/ 5.1	2/ 1.0	2/ 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 2/	6.8	3.9	3.0	1.3	52.8	51.9
1994	7.4	5.0	2.0	1.4	52.3	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
1997	7.1	6.4	1.6	1.3	50.2	48.5
1998	6.9	6.3	1.3	0.9	52.8	51.2
1999	7.6	7.6	1.8	1.2	56.6	56.0
Standard error	1.0	1.2	0.4	0.2	1.1	1.3
U.S. 1999	8.1	3/ 7.8	1.7	3/ 1.5	66.8	3/ 64.7

1/ The Honolulu Metropolitan Statistical Area consists of the City and County of Honolulu.
2/ Revised dataset.
3/ Rate for all U.S. inside metropolitan areas.
Source: U.S. Bureau of the Census, "Housing Vacancies and Homeownership Annual Statistics: 1999," at http://www.census.gov/hhes/www/housing/hvs/annual99/ann99ind.html.

Table 21.21-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE SPACE FOR THE METROPOLITAN HONOLULU OFFICE MARKET, BY SUBMARKET: 1991 TO 1999

[The Metropolitan Honolulu Office Market survey includes 111 multi-tenant Class A and Class B buildings with 20,000 square feet or more. Rates are percent of space reported vacant in survey]

Vacancy Rate 1/	1991	1992	1993	1994	1995	1996	1997	1998	1999
Downtown 2/	3.8	10.0	13.9	15.4	16.4	16.1	15.2	14.2	14.1
Suburban 3/	5.6	7.2	7.8	11.1	12.1	12.9	12.5	14.5	13.7

1/ The vacancy rates are for Class A and Class B buildings which were included in the survey. Class A buildings are those in excellent locations which have high-quality tenants, high-quality finish, are well-maintained, are professionally managed, and are usually new, or old buildings that are competitive with new buildings. Class B buildings are those in good locations that are professionally managed and have fairly high-quality construction and tenancy. Class B buildings generally show very little functional obsolescence and deterioration.

2/ Downtown is comprised of the Central Business District Submarket. Buildings surveyed in Downtown are 40,000 square feet and above.

3/ Suburban is comprised of eight submarkets: Kapiolani Corridor (Ala Moana, Kakaako, Kapiolani); Waikiki; East Oahu (Hawaii Kai to Kahala); East Central Oahu (Kaimuku to Kalihi); West Central Oahu (Mapunapuna to Pearl City); Leeward (Pearl City to Waipahu); West Oahu (Waipahu to Kapolei); and Windward (Kailua to Kaneohe). Buildings surveyed in the suburban market are 20,000 square feet and above.

Source: CB Richard Ellis Hawaii, Inc. records; Society of Industrial and Office Realtors & Lauder Real Estate Counselors, *1998 Comparative Statistics of Industrial and Office Real Estate Markets* (1998).

Table 21.22-- HOUSING AND COMMUNITY DEVELOPMENT CORPORATION OF HAWAII PUBLIC HOUSING OPERATIONS: 1997 TO 1999

[Hawaii Housing Authority figures were displayed in earlier *Data Book* tables. Effective July 1, 1998, the Hawaii Housing Authority was consolidated with the Housing Finance and Development Corporation and is now named the Housing and Community Development Corporation of Hawaii]

Subject	1997	1998	1999
Total units owned by HCDCH, June 30	6,352	6,577	1/ 6,577
Occupied	5,876	6,095	5,985
Population in units, June 30	16,116	16,771	16,445
Per occupied unit	2.40	2.60	2.70
Operating revenues of HCDCH, fiscal year: 2/			
Gross ($1,000)	22,469	22,791	23,145
Net ($1,000)	3,831	2,502	4,197
Operating revenues per unit per month, fiscal year (dollars) 2/	295	351	357
Rent charged per unit per month, fiscal year (dollars) 2/	195	199	184

1/ Federal low-rent, 5,407; State low-rent, 594; State elderly, 576.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii State Department of Business, Economic Development & Tourism, Housing and Community Development Corporation of Hawaii, records.

Table 21.23-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE OF LICENSE AND LOCATION: MARCH 6, 2000

[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	9,154	4,898	Oahu	5,948	3,021
			Hawaii	1,122	553
Broker:			Maui	1,424	506
Individual	3,447	644	Kauai	624	267
Corporation or partnership	980	71	Molokai	28	5
Limited Liability Corporation/			Lanai	6	3
Limited Liability Partnership	50	4	U.S. mainland	2	505
			Foreign	-	38
Salesman	4,677	4,179			

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

Table 21.24-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1989 TO 1999

[Data include single family, condominium/cooperative, vacant, multi-family, commercial/industrial, business opportunities]

Year	Number listed	Number sold	Percent sold	Average sales price (dollars)
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
1998	11,721	5,351	45.7	269,839
1999	11,173	6,381	57.1	265,009

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.25-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1997 TO 1999

Year and type of property	Number listed	Number sold	Percent sold	Sales price (dollars)	
				Mean	Median
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/industrial	123	21	17.1	475,405	470,000
Business opportunities	135	16	11.9	62,168	34,400
1998					
Total	11,721	5,351	45.7	269,839	...
Single family	4,855	2,495	51.4	370,021	297,000
Condominium/cooperative	6,010	2,632	43.8	160,978	135,000
Vacant land	450	156	34.7	383,960	230,000
Multi-family	169	34	20.1	546,647	441,000
Commercial/industrial	130	23	17.7	787,011	450,000
Business opportunities	107	11	10.3	38,727	42,000
1999					
Total	11,173	6,381	57.1	265,009	...
Single family	4,653	2,853	61.3	377,497	290,000
Condominium/cooperative	5,606	3,298	58.8	157,418	125,000
Vacant land	498	172	34.5	406,961	235,000
Multi-family	187	33	17.6	503,394	395,000
Commercial/industrial	137	15	10.9	503,627	440,000
Business opportunities	92	10	10.9	69,600	60,000

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.26-- MULTIPLE LISTING SERVICE SINGLE-FAMILY HOUSES SOLD, BY SELLING PRICE RANGE, FOR OAHU: 1997 TO 1999

Selling price range	1997	1998	1999
All properties	2,025	2,428	2,853
On leased land	46	67	62
Percent	2.3	2.8	2.2
Less than $100,000	17	12	54
$100,000 to $149,999	32	69	138
$150,000 to $199,999	169	255	347
$200,000 to $249,999	378	447	478
$250,000 to $299,999	369	418	476
$300,000 to $349,999	319	314	351
$350,000 to $399,999	207	254	276
$400,000 to $449,999	132	139	163
$450,000 to $499,999	93	123	145
$500,000 to $549,999	64	79	83
$550,000 to $599,999	46	63	48
$600,000 to $649,999	31	44	51
$650,000 to $699,999	30	45	47
$700,000 to $799,999	42	43	64
$800,000 to $899,999	31	34	37
$900,000 to $999,999	15	19	16
$1.0 to $1.9 million	33	56	49
$2.0 to $2.9 million	12	8	17
$3.0 to $3.9 million	2	4	5
$4.0 to $4.9 million	1	2	4
$5.0 million or more	2	-	4
Median value	$307,000	$297,000	$290,000
Mean value	$380,507	$370,021	$377,497

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.27-- MULTIPLE LISTING SERVICE COOPERATIVE AND CONDOMINIUM UNITS SOLD, BY SELLING PRICE RANGE, FOR OAHU: 1997 TO 1999

Selling price range	1997	1998	1999		
			Total	Fee simple	Lease-hold
All properties	2,100	2,632	3,298	2,323	975
Less than $50,000	1/ 87	206	294	127	167
$50,000 to $74,999	173	281	354	189	165
$75,000 to $99,999	206	298	513	355	158
$100,000 to $124,999	260	389	449	297	152
$125,000 to $149,999	1/ 302	361	394	296	98
$150,000 to $174,999	241	249	292	229	63
$175,000 to $199,999	215	186	245	194	51
$200,000 to $224,999	145	174	196	160	36
$225,000 to $249,999	120	121	118	108	10
$250,000 to $274,999	59	89	79	66	13
$275,000 to $299,999	45	50	82	69	13
$300,000 to $349,999	89	72	90	79	11
$350,000 to $399,999	56	39	53	37	16
$400,000 to $449,999	26	37	37	31	6
$450,000 to $499,999	20	24	22	20	2
$500,000 to $599,999	27	22	29	27	2
$600,000 to $699,999	16	13	21	17	4
$700,000 to $799,999	3	5	7	5	2
$800,000 to $899,999	4	4	13	9	4
$900,000 to $999,999	3	7	3	2	1
$1,000,000 or more	3	5	7	6	1
Median value	$150,000	$135,000	$125,000	$139,900	$98,000
Mean value	$178,090	$160,978	$157,418	$171,368	$124,182

1/ Revised.
Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.28-- MULTIPLE LISTING SERVICE, NUMBER OF SINGLE FAMILY AND CONDOMINIUM RESALES, BY ISLAND: 1989 TO 1999

Category and year	State total	Oahu	Hawaii	Kauai	Maui
SINGLE FAMILY					
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
1998	4,646	2,492	1,152	321	681
1999	5,383	2,850	1,190	357	986
CONDOMINIUM					
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
1998	4,440	2,638	494	267	1,041
1999	5,499	3,284	475	327	1,413

Source: Data compiled by Prudential Locations Research from each county's Board of Realtors MLS.

Table 21.29-- MULTIPLE LISTING SERVICE, MEDIAN SALES PRICE OF SINGLE FAMILY AND CONDOMINIUM RESALES, BY ISLAND: 1989 TO 1999

[In dollars]

Category and year	State total 1/	Oahu	Hawaii	Kauai	Maui
SINGLE FAMILY					
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
1998	251,500	297,000	159,000	237,500	254,000
1999	253,000	290,000	163,000	238,750	250,000
CONDOMINIUM					
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
1998	139,000	134,950	122,500	129,000	161,300
1999	138,000	125,000	135,000	121,250	165,000

1/ Weighted by the number of resales.

Source: Data compiled by Prudential Locations Research from each county's Board of Realtors MLS.

Table 21.30-- CHARACTERISTICS OF SINGLE FAMILY HOMES INSURED UNDER FHA SECTION 203(B): 1995 AND 1996

Subject	1995	1996
Number insured	415	701
Proposed	232	293
Existing	183	408
Amount ($1,000)	59,365	102,577
Proposed	34,250	42,178
Existing	25,115	60,399
Averages:		
Age of structure (years)	14.0	12.3
Improved living area (square feet)	(B)	(B)
Lot size (square feet)	(B)	(B)
Number of rooms	(B)	(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)	177,505	171,483
Sales price per square foot (dollars)	(B)	(B)
Annual effective income (dollars)	55,656	55,981

B Sample under 25.

Source: U.S. Department of Housing and Urban Development, Information Systems Division, *FHA Homes - 1995, Sec. 203(b),* pp. 31-51, and *FHA Homes - 1996, Sec. 203(b),* pp. 31-51.

Table 21.31-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1995 TO 1999

[For calendar years. Data include leases, agreement of sales assignments, subleases, timeshares, etc., as well as deeds]

Subject	1995	1996	1997	1998	1999
Number of deeds filed and recorded	58,849	62,098	61,518	70,057	76,331
Approximate value of land conveyed ($1,000)	6,424,925	5,793,252	6,298,003	7,440,642	8,311,047

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 21.32-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1997 TO 1999

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1997	1998 1/	1999
State total	6,298,002,889	7,440,641,970	8,311,046,800
Honolulu	4,042,187,000	3,904,127,400	4,836,187,300
Maui	1,057,280,899	1,971,081,970	1,683,687,900
Hawaii	851,136,190	1,066,147,500	1,201,547,300
Kauai	347,398,800	499,285,100	589,624,300

1/ Revised.
Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 21.33-- FORECLOSURE FILINGS, BY JUDICIAL CIRCUIT: 1994 TO 1999

Year	State total	First Circuit 1/	Second Circuit 2/	Third Circuit 3/	Fifth Circuit 4/
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
1998	3,626	2,662	422	359	183
1999	2,934	2,135	324	339	136

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 21.34-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1999

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	5,901	4,708	173	223	550	4	21	222
Elevators	4,901	3,873	124	209	484	1	20	190
Hydro (Under 9 stories)	1,477	980	63	104	199	1	9	121
Roped:								
Under 9 stories	1,588	1,149	50	105	219	-	11	54
9 to 18 stories	1,137	1,045	11	-	66	-	-	15
19 to 28 stories	397	397	-	-	-	-	-	-
29 to 38 stories	214	214	-	-	-	-	-	-
39 stories or more	88	88	-	-	-	-	-	-
Escalators & moving walks/ speed ramps	411	390	6	-	13	-	-	2
Inclined lifts	11	4	3	1	-	-	1	2
Private industrial elevators	25	2	2	3	10	-	-	8
Manlifts	8	8	-	-	-	-	-	-
Handicap/chairlifts	215	155	21	8	16	3	-	12
Dumbwaiters	330	276	17	2	27	-	-	8
Material lifts	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 21.35-- TALLEST STRUCTURES, BY ISLANDS: MARCH 2000

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 Street	1998	41	400
Hawaiki Tower	404 Piikoi Street	1999	47	400
Kauai:				
Marriott Resort & Beach Club	Lihue	1959	10	107
OTHER STRUCTURES				
Hawaii:				
Coast Guard Loran Station	Upolu Point	1958	...	625
Maui:				
KMVI Radio Tower	Wailuku	1992	...	455
Lanai:				
Storage tanks	Manele Harbor	...	...	50
Molokai:				
KAIM Radio Tower	Kalua Koi	1981	...	410
Oahu:				
VLF Antenna	Lualualei	1972	...	1,503
Kauai:				
Communication Engineers Tower	Mana	1964	...	400

1/ Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

Source: Compiled by DBEDT from Hawaii County Department of Research and Development, Maui County Department of Public Works and Waste Management, City and County of Honolulu Department of Planning and Permitting, and Kauai County Department of Public Works.

Section 22: Manufactures

Section Narrative			
22.01	Statistical Summary of Manufactures: 1963 to 1997		
22.02	Detailed Manufacturing Statistics: 1997		
22.03	Statistical Summary of Manufactures, by Counties: 1997		
22.04	Manufacturing, by Selected Industry Groups: 1997		
22.05	Private Industry Manufacturing Employment and Wages, Annual Averages: 1998		
22.06	General Excise Tax Base for Manufacturing: 1987 to 1999		
22.07	Largest Industrial and High Technology Parks, by Islands: 1999		
22.08	Pineapple Companies and Canneries and Sugar Companies and Mills: 1940 to 1999		
22.09	Sugar and Molasses Production: 1989 to 1999		
22.10	Value of Sales for Pineapple and Sugar Production: 1980 to 1999		

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 1997, 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: 1999.*

Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES: 1963 TO 1997

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
Total 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 1997 -- Con.

Subject	1992	1993	1994	1995	1996	1997
All establishments: 1/						
Total	1,020	(NA)	(NA)	(NA)	(NA)	921
With 20 employees or more	225	(NA)	(NA)	(NA)	(NA)	159
All employees:						
Number (1,000)	20.6	20.7	17.8	17.3	17.1	15.1
Payroll (million dollars)	547.4	711.7	505.4	2/ 508.1	509.4	405.0
Production workers:						
Number (1,000)	12.9	12.4	11.0	10.7	10.1	9.9
Hours (millions)	26.0	25.4	21.5	21.6	19.7	18.4
Wages (million dollars)	290.1	307.0	266.9	2/ 260.1	250.6	231.6
Value added by manufacture 3/ (million dollars)	1,556.5	2,192.8	1,527.4	2/ 1,485.6	1,608.5	1,262.4
Cost of materials 4/ (million dollars)	2,228.2	2,316.4	1,799.3	2/ 1,909.2	1,546.7	1,941.1
Value of shipments 4/ (million dollars)	3,791.7	4,510.1	3,336.8	2/ 3,435.5	3,145.5	3,192.5
Total capital expenditures (million dollars)	107.1	174.6	202.8	2/ 112.8	79.0	100.7

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. Census Bureau, *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; *1997 Economic Census, Manufacturing, Geographic Area Series, Hawaii* , EC97M31A-HI (May 2000), table 1.

Table 22.02-- DETAILED MANUFACTURING STATISTICS: 1997

[NAICS Industries 31-33]

Item	Value
Companies 1/	895
All establishments	921
Establishments with 1 to 19 employees	762
Establishments with 20 to 99 employees	130
Establishments with 100 employees or more	29
All employees	15,109
Total compensation ($1,000) 2/	503,407
Annual payroll ($1,000)	405,045
Total fringe benefits ($1,000)	98,362
Production workers, average for years	9,899
Production workers on March 12	9,835
Production workers on May 12	9,768
Production workers on August 12	10,194
Production workers on November 12	9,799
Production-worker hours (1,000)	18,362
Production-worker wages ($1,000)	231,595
Total cost of materials	1,941,147
Cost of materials, parts, containers, etc., consumed ($1,000)	1,673,002
Cost of resales ($1,000)	152,624
Cost of fuels ($1,000)	51,118
Cost of purchased electricity ($1,000)	23,281
Cost of contract work ($1,000)	41,122
Quantity of electricity purchased for heat and power (1,000 kWh)	245,275
Quantity of electricity generated less sold for heat and power (1,000 kWh)	(D)
Total value of shipments ($1,000)	3,192,532
Value of resales ($1,000)	181,478
Value added ($1,000)	1,262,448
Total inventories, beginning of year ($1,000)	336,547
Finished goods inventories, beginning of year ($1,000)	175,028
Work-in-process inventories, beginning of year ($1,000)	46,214
Materials and supplies inventories, beginning of year ($1,000)	115,305

Continued on next page.

Table 22.02-- DETAILED MANUFACTURING STATISTICS: 1997 -- Con.

[NAICS Industries 31-33]

Item	Value
Total inventories, end of year	351,344
Finished goods inventories, end of year ($1,000)	188,052
Work-in-process inventories, end of year ($1,000)	47,984
Materials and supplies inventories, end of year ($1,000)	115,308
Gross book value of total assets at beginning of year ($1,000)	1,221,564
Total capital expenditures (new and used) ($1,000)	100,707
Capital expenditures for buildings and other structures (new and used) ($1,000)	38,742
Capital expenditures for machinery and equipment (new and used) ($1,000)	61,965
Total retirements ($1,000) 2/	24,447
Gross book value of total assets at end of year ($1,000)	1,297,824
Total depreciation during year ($1,000) /2	68,301
Total rental payments ($1,000) /2	38,447
Buildings and other structures rental payments ($1,000) /2	23,072
Machinery and equipment rental payments ($1,000) /2	15,375

D Withheld to avoid disclosing data for individual companies.

1/ For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

2/ These items are collected in the ASM (Annual Survey of Manufacturers) and estimated for the remaining establishments.

Source: U.S. Census Bureau, *1997 Economic Census, Manufacturing, Geographic Area Statistics,* EC97M31A-HI (May 2000), table 5.

Table 22.03-- STATISTICAL SUMMARY OF MANUFACTURING, BY COUNTIES: 1997

[NAICS 31-33]

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County 1/	Maui County
All establishments 2/ (number)	921	685	106	30	100
With 20 employees or more	159	133	13	4	9
All employees:					
Number	15,109	11,161	1,588	441	1,919
Payroll ($1,000)	405,045	300,856	37,458	15,429	51,302
Production workers:					
Number	9,899	7,034	1,076	280	1,509
Hours (1,000)	18,362	13,018	1,954	560	2,830
Wages ($1,000)	231,595	164,815	21,133	9,351	36,296
Value added by manufacture ($1,000)	1,262,448	1,042,807	81,221	15,077	123,343
Cost of materials 3/ ($1,000)	1,941,147	1,659,321	113,642	32,795	135,389
Value of shipments 3/ ($1,000)	3,192,532	2,692,239	192,461	48,224	259,608
Total capital expenditures ($1,000)	100,707	77,715	14,236	4,736	4,020

1/ Kauai data calculated as residual by DBEDT.

2/ Includes establishments with payroll at any time during the year.

3/ 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. Census Bureau, *1997 Economic Census Manufacturing, Geographic Area Series,* EC97M31A-HI (May 2000), tables 1 and 3.

Table 22.04-- MANUFACTURING, BY SELECTED INDUSTRY GROUPS: 1997

[NAICS Industries 31 - 33]

Subject	Total	Food mfg (NAICS 311)	Apparel mfg (NAICS 315)	Printing & rel sup (NAICS 323)	Cement & con. prod mfg (NAICS 3273)	Transp. Equip. mfg (NAICS 336)	Furniture & rel. prod. mfg (NAICS 337)	Miscell. mfg (NAICS 339)
All establishments								
Number	921	244	93	123	33	24	47	146
With 20 employees or more	159	55	21	19	10	6	5	13
All employees								
Number	15,109	6,118	1,555	1,736	613	400	372	1,372
Payroll (thousand dollars)	405,045	153,304	28,924	42,452	26,662	13,418	10,339	31,297
Production workers:								
Number	9,899	4,132	1,221	1,072	437	328	286	767
Hours (thousand)	18,362	7,497	2,250	2,010	901	585	554	1,305
Wages (thousand dollars)	231,595	90,110	17,243	27,109	18,238	10,306	6,931	15,528
Value added by manufacture (thousand dollars)	1,262,448	402,859	70,638	80,317	60,573	26,088	23,608	71,149
Cost of materials (thousand dollars)	1,941,147	475,773	62,975	59,396	69,264	21,138	18,302	36,239
Value of shipments (thousand dollars)	3,192,532	878,143	133,900	140,213	129,904	47,327	40,407	106,043
Total capital expenditures (thousand dollars)	100,707	32,687	1,833	9,658	3,528	816	(D)	2,670

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Census Bureau, *1997 Economic Census, Manufacturing, Geographic Area Statistics,* EC97M31A-HI (May 2000), table 1.

Table 22.05-- PRIVATE INDUSTRY MANUFACTURING EMPLOYMENT AND WAGES, ANNUAL AVERAGES: 1998

SIC code	Manufacturing	Average establish-ments	Annual average employ-ment	Total annual wages ($1,000)	Annual wage per employee
	Total	994	16,290	512,166	31,440
2013	Sausages and other prepared meats	11	105	2,001	19,061
2024	Ice cream and frozen desserts	7	41	1,001	24,422
2026	Fluid milk	9	450	16,543	36,763
2033	Canned fruits and vegetables	12	805	21,907	27,214
2035	Pickles, sauces, and salad dressings	13	133	2,440	18,349
2051	Bread, cake, and related products	27	901	23,272	25,829
2064	Candy and other confectionery products	23	518	10,558	20,382
2082	Malt beverages	5	26	522	20,094
2095	Roasted coffee	6	299	8,031	26,860
2097	Manufactured ice	8	70	1,437	20,531
2098	Macaroni and spaghetti	12	138	2,083	15,097
2099	Food preparations, nec	56	753	12,273	16,299
2321	Men's and boys' shirts	7	306	5,704	18,641
2326	Men's and boys' work clothes	8	43	555	12,915
2329	Men's and boys' clothing, nec	11	172	2,779	16,155
2335	Women's, juniors', and misses' dresses	26	636	15,368	24,164
2339	Women's and misses' outerwear, nec	29	228	2,974	13,043
2391	Curtains and draperies	8	79	1,710	21,651
2394	Canvas and related products	7	25	589	23,580
2395	Pleating and stitching	7	67	1,377	20,546
2396	Automotive and apparel trimmings	42	401	10,763	26,841
2431	Millwork	9	69	2,634	38,175
2434	Wood kitchen cabinets	22	175	5,832	33,328
2439	Structural wood members, nec	5	62	1,826	29,459
2673	Bags, plastics, laminated, and coated	3	66	1,847	27,986
2711	Newspapers	36	1,623	69,284	42,689
2721	Periodicals	40	273	9,645	35,329
2741	Miscellaneous publishing	27	155	6,551	42,262
2752	Commercial printing, lithographic	59	679	22,206	32,704
2759	Commercial printing, nec	26	182	5,001	27,476
2911	Petroleum refining	5	585	42,913	73,356
3089	Plastics products, nec	10	70	2,001	28,581
3229	Pressed and blown glass, nec	3	5	84	16,703
3271	Concrete block nad brick	3	57	2,261	39,665
3272	Concrete products, nec	22	301	11,593	38,515
3273	Ready-mixed concrete	9	312	15,708	50,347
3281	Cut stone and stone products	9	50	1,341	26,814

Continued on next page.

Table 22.05-- PRIVATE INDUSTRY MANUFACTURING EMPLOYMENT AND WAGES, ANNUAL AVERAGES: 1998 - Con.

SIC code	Manufacturing	Average establish-ments	Annual average employ-ment	Total annual wages ($1,000)	Annual wage per employee
3411	Metal cans	3	129	4,454	34,529
3442	Metal doors, sash, and trim	8	57	1,559	27,343
3446	Architectural metal work	5	18	399	22,162
3449	Miscellaneous metal work	3	38	1,565	41,175
3599	Industrial machinery, nec	7	26	640	24,620
3731	Ship building and repairing	12	397	12,663	31,897
3732	Boat building and repairing	11	48	1,089	22,681
3911	Jewelry, precious metal	36	400	9,256	23,141
3931	Musical instruments	5	55	1,430	25,997
3949	Sporting and athletic goods, nec	17	73	1,491	20,421
3993	Signs and advertising specialities	8	75	1,957	26,090
3999	Manufacturing industries, nec	11	45	696	15,462

Source: U.S. Department of Labor, *Employment and Wages Annual Averages, 1998* (December 1999), Bulletin 2525.

Table 22.06-- GENERAL EXCISE TAX BASE FOR MANUFACTURING: 1987 TO 1999

[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	1992	714,470	1997	2/ 581,259
1988	629,303	1993	717,423	1998	535,371
1989	630,997	1994	618,238	1999	585,305
1990	728,387	1995	614,771		
1991	714,407	1996	622,889		

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 in September 1998.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 22.07-- LARGEST INDUSTRIAL AND HIGH TECHNOLOGY PARKS, BY ISLANDS: 1999

[Data taken from the largest industrial and high technology parks]

Subject	State total	Hawaii	Maui	Oahu	Kauai
Number of parks and areas	19	4	2	12	1
Acres	4,554	1,518	491	2,476	69

Source: Pacific Business News, *2000 Hawaii Book of Lists*, p. 124.

Table 22.08-- PINEAPPLE COMPANIES AND CANNERIES, AND SUGAR COMPANIES AND MILLS: 1940 TO 1999

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
1998	3	1	4	6
1999	3	1	4	6
ISLANDS: 1998				
Hawaii	-	-	-	-
Maui	1	1	2	3
Oahu	2	-	-	-
Kauai	-	-	2	3
ISLANDS: 1999				
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 22.09-- SUGAR AND MOLASSES PRODUCTION: 1989 TO 1999

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	
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
1998	67,585	30,347	2,725,744	353,893	330,748	125,909
1999	60,758	35,329	2,891,499	367,532	343,495	141,481

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* (annual), and records; Hawaii Agriculture Research Center, records.

Table 22.10-- VALUE OF SALES FOR PINEAPPLE AND SUGAR PRODUCTION: 1980 TO 1999

[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
1997	73.0	63.7	127.5	5.0
1998	81.3	63.8	130.3	2.8
1999	(NA)	69.5	(NA)	(NA)

NA Not available.

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/rlsetoc.htm

Section 23: Domestic Trade and Services

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Section Narrative	
23.01	General Excise Tax Base for Trade and Service Activities: 1985 to 1999
23.02	Retail Establishments, by Payroll Status: 1972 to 1997
23.03	Foodservices & Drinking Places (NAICS 722) by Type of Service: 1997
23.04	Characteristics of Retail Establishments with Payroll, by Broad Geographic Areas: 1997
23.05	Retail Establishments with Payroll, for Counties and Selected Urban Places: 1997
23.06	Retail Establishments with Payroll, by Kind of Business: 1997
23.07	Private Industry Retail Employment and Wages, Annual Averages: 1998
23.08	Retail Sales, by Type of Store: 1996 and 1997
23.09	Characteristics of Major Shopping Centers: 1998
23.10	Shopping Center Characteristics: 1994 to 1998
23.11	Characteristics of Eating and Drinking Places: 1992
23.12	Duty-Free Store Revenues: 1984 to 1999
23.13	Alcoholic Beverage Sales, by Type: 1997 to 1999
23.14	Merchandise Line Sales for Retail Stores with Payroll: 1992
23.15	Wholesale Trade Establishments and Sales: 1939 to 1997
23.16	Characteristics of Wholesale Establishments, for the State, 1992 and 1997, and Oahu and the Neighbor Islands, 1997
23.17	Wholesale Trade, by Type of Operation and Kind of Business: 1997
23.18	Wholesale Trade, for Counties and Specified Places: 1997
23.19	Professional, Scientific, and Technical Services Establishments with Payroll and Subject to Federal Income Tax, For Counties and Selected Urban Places: 1997
23.20	Administrative and Support and Waste Management and Remediation Services Establishments with Payroll and Subject to Federal Income Tax, For Counties and Selected Urban Places: 1997

23.21	Educational Services Establishments with Payroll and Subject to Federal Income Tax, For Counties and Selected Urban Places: 1997		
23.22	Arts, Entertainment, and Recreation Establishments with Payroll and Subject to Federal Income Tax, for Counties and Selected Urban Places: 1997		
23.23	Other Services (Except Public Administration) Establishments with Payroll and Subject to Federal Income Tax, For Counties and Selected Urban Places: 1997		
23.24	Professional, Scientific, and Technical Services Establishments with Payroll, by Kind of Business or Operation: 1997		
23.25	Administrative and Support and Waste Management and Remediation Services Establishments with Payroll and Subject to Federal Income Tax, by Kind of Business or Operation: 1997		
23.26	Educational Services Establishments with Payroll, by Kind of Business or Operation: 1997		
23.27	Arts, Entertainment, and Recreation Establishments with Payroll, by Kind of Business or Operation: 1997		
23.28	Other Services (Except Public Administration) Establishments with Payroll, by Kind of Business or Operation: 1997		
23.29	Travel Arrangement and Reservation Services (NAICS 5615): 1997		
23.30	Accommodation and Foodservices, for Counties and Specified Places: 1997		
23.31	Accommodation and Foodservices: 1997		
23.32	Visitor Accommodations, by Counties: 1965 to 1999		
23.33	Visitor Accommodations, by Type: 1986 to 1999		
23.34	Visitor Accommodations, by Type and by Islands: 1998 and 1999		
23.35	Visitor Accommodations, by Type and Geographic Area: 1999		
23.36	Hotels and Other Lodging Places (SIC 701), by Counties: 1992 to 1997		
23.37	Visitor Accommodations, by Nightly Price: 1999		
23.38	Hotel Rooms, Occupancy Rates, and Daily Room and Guest Rates: 1989 to 1999		
23.39	Hotel Room Occupancy and Room Rates, by Geographic Area: 1999		
23.40	General Excise Tax Base for Rentals: 1985 to 1999		
23.41	Computer and Software Stores and Services: 1997		
23.42	Motion Picture Services: 1977 to 1997		

23.43	Motion Picture Theaters and Screens Operated by Major Companies: April 1999		
23.44	Motion Picture and Television Production: 1995 to 1999		

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 U.S. Census Bureau, *1997 Economic Census, Geographic Area Series*, Retail Trade, Wholesale Trade, and all others relating to the services industry. 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 State Department of Business, Economic Development & Tourism's Tourism Research Branch. 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: 1999*, 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: 1985 TO 1999

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

Year reported 1/	Retailing	Services 2/	Amusement, etc. 3/	Intermediary services	Wholesaling
1985	8,499,254	2,481,669	154,830	116,300	4,095,220
1986	9,239,373	2,784,169	159,881	127,992	4,443,166
1987	9,449,673	2,896,159	157,824	148,557	5,188,215
1988	10,385,974	3,287,715	165,729	182,138	5,683,815
1989	11,607,779	3,699,003	184,154	189,018	6,595,569
1990	12,827,883	4,276,876	201,003	349,111	7,494,330
1991	13,398,382	4,888,164	209,128	451,078	7,722,752
1992	13,846,332	5,032,682	229,091	247,850	7,498,621
1993	13,976,048	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	15,973,955	5,414,691	229,802	283,064	8,101,894
1998	15,730,858	5,545,001	232,288	320,845	8,030,448
1999	15,957,379	5,647,648	220,959	298,815	8,059,260

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 1997

[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
1997 1/	(NA)	5,088	(NA)	(NA)	11,318	(NA)

1/ Excludes eating and drinking places, included in earlier censuses.

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; *1997 Economic Census, Retail Trade, Hawaii* , EC97R44A-HI (November 1999), table 1.

Table 23.03-- FOODSERVICES & DRINKING PLACES (NAICS 722) BY TYPE OF SERVICE: 1997

NAICS code	Type of service	Establish-ments (number)	Sales ($1,000)	Employees, week including March 12	Annual payroll ($1,000)
722	Foodservices & drinking places	2,772	1,980,996	47,978	555,115
7221	Full-service restaurants	1,207	1,002,421	25,170	309,458
7222	Limited-service eating places	1,185	723,521	17,988	178,691
7223	Special foodservices	96	162,149	2,846	46,009
72231	Foodservice contractors	51	142,848	2,267	40,228
72232	Caterers	22	12,597	447	4,173
72233	Mobile foodservices	23	6,704	132	1,608
7224	Drinking places	284	92,905	1,974	20,957

Source: U.S. Bureau of the Census, *1997 Economic Census, Accommodation and Foodservices, Geographic Area Series* EC97R72A-HI (October 1999), p. 7.

Table 23.04-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS WITH PAYROLL, BY BROAD GEOGRAPHIC AREAS: 1997

[Excludes establishments without payroll and all establishments operated by the armed forces]

Subject	State total	Oahu	Other Islands
Number of establishments	5,088	3,269	1,819
Sales ($1,000)	11,317,752	8,264,716	3,053,036
Annual payroll ($1,000)	1,161,805	823,553	338,252
First quarter payroll ($1,000)	281,093	199,128	81,965
Paid employees for pay period including March 12	64,218	44,960	19,258

Source: U.S. Bureau of the Census, *1997 Economic Census, Retail Trade, Hawaii,* EC97R44A-HI (November 1999), tables 1, 2.

Table 23.05-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND SELECTED URBAN PLACES: 1997

[Excludes establishments without payroll and 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	5,088	11,317,752	1,161,805	64,218
Hawaii County	688	1,183,054	128,529	7,587
Captain Cook	7	8,266	671	36
Hilo	261	552,226	63,033	3,696
Holualoa	10	3,298	215	19
Kailua	180	347,694	34,911	1,930
Honolulu County	3,269	8,264,716	823,553	44,960
Aiea	140	311,300	35,589	2,539
Ewa Beach	17	34,770	3,766	194
Halawa	9	5,795	1,128	55
Honolulu	2,258	5,483,510	534,745	27,812
Kailua	104	227,863	27,505	1,758
Kaneohe	137	371,808	37,739	2,171
Laie	7	15,088	1,857	136
Maunawili	7	6,186	559	34
Mililani Town	50	176,798	19,549	1,181
Nanakuli	12	27,729	2,325	148
Pearl City	50	239,662	18,809	1,062
Wahiawa	43	85,223	9,703	500
Waialua	12	4,635	591	63
Waianae	23	67,704	7,621	427
Waimalu	84	251,665	27,022	1,259
Waimanalo	11	12,513	1,361	86
Waipahu	119	378,262	39,561	1,908
Kauai County	326	510,684	59,002	3,427
Kalaheo	10	8,415	900	70
Kapaa	86	106,699	12,065	712
Lihue	102	238,693	27,520	1,490
Maui County	805	1,359,298	150,721	8,244
Haiku-Pauwela	7	4,325	483	30
Island of Lanai	7	7,656	1,098	55
Island of Molokai 1/	15	28,391	3,441	196

Continued on next page.

Table 23.05-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND SELECTED URBAN PLACES: 1997 -- Con.

Geographic area	Number of establishments	Sales ($1,000)	Annual payroll ($1,000)	Paid employees for pay period including March 12
Maui County - Con.				
Kahului	203	583,649	59,310	3,405
Kihei	82	123,551	12,785	720
Lahaina	242	299,657	37,875	1,873
Makawao	24	10,241	1,389	108
Napili-Honokowai	9	12,195	1,173	62
Pukalani	10	35,689	3,756	197
Wailea-Makena	22	20,371	2,487	162
Wailuku	64	107,198	12,027	604

1/ Sales, payroll, and paid employess are for the 14 retail establishments in Kaunakakai.

Source: U.S. Bureau of the Census, *1997 Economic Census, Retail Trade, Hawaii,* EC97R44A-HI (November 1999); table 1,3, and 4.

Table 23.06-- RETAIL ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS: 1997

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

NAICS code	Kind of business	Number of establish-ments	Sales ($1,000)	Annual payroll ($1,000)	Paid employ-ees 1/
44-45	Retail trade	5,088	11,317,752	1,161,805	64,218
441	Motor vehicle and parts dealers	313	1,761,391	167,121	5,739
442	Furniture and home furnishing stores	194	194,421	29,622	1,393
443	Electronic's and appliance stores	168	236,489	24,169	1,345
444	Building material, garden equipment	278	676,787	78,874	3,127
445	Food and beverage stores	699	1,989,435	210,465	12,269
446	Health and personal care stores	309	764,851	88,198	3,866
447	Gasoline stations	360	728,210	56,679	3,884
448	Clothing and accessory stores	1,389	1,751,735	192,240	11,409
451	Sporting goods, hobby, book, and music stores	369	376,741	44,730	3,254
452	General merchandise stores	136	2,273,713	185,352	12,586
453	Miscellaneous store retailers	764	468,002	68,703	4,706
454	Nonstore retailers	109	95,977	15,652	640

1/ For pay period including March 12.

Source: U.S. Bureau of the Census, *1997 Economic Census, Retail Trade, Hawaii,* EC97R44A-HI (November 1999), table 1.

Table 23.07-- PRIVATE INDUSTRY RETAIL EMPLOYMENT AND WAGES, ANNUAL AVERAGES: 1998

SIC code	Retail trade	No. of establish-ments	Average employ-ment	Total wages ($1,000)	Average wage
	Total	7,160	111,206	1,926,995	17,328
5231	Paint, glass, and wallpaper stores	16	143	4,707	32,919
5251	Hardware stores	52	1,161	23,903	20,588
5311	Department stores	51	10,304	184,582	17,914
5331	Variety stores	10	95	2,282	24,024
5399	Misc. general merchandise stores	65	570	8,136	14,273
5411	Grocery stores	378	11,303	220,425	19,501
5421	Meat and fish markets	48	304	5,327	17,522
5441	Candy, nut, and confectionery stores	46	325	3,502	10,777
5461	Retail bakeries	120	1,265	16,893	13,354
5499	Misc. food stores	92	770	10,552	13,703
5511	New and used car dealers	71	3,706	141,649	38,221
5531	Auto and home supply stores	172	1,589	36,860	23,197
5541	Gasoline service stations	297	3,312	54,412	16,429
5571	Motorcycle dealers	18	161	3,969	24,654
5611	Men's and boys' clothing stores	54	712	10,251	14,398
5621	Women's clothing stores	221	1,931	33,388	17,290
5632	Women's accessory and specialty stores	85	730	15,584	21,348
5641	Children's and infants' wear stores	20	155	1,700	10,965
5651	Family clothing stores	118	2,304	37,496	16,274
5661	Shoe stores	96	1,284	22,216	17,303
5699	Misc. apparel and accessory stores	208	1,536	24,421	15,899
5712	Furniture stores	84	643	17,821	27,715
5713	Floor covering stores	28	260	6,885	26,481
5714	Drapery and upholstery stores	13	31	653	21,077
5719	Misc. homefurnishing stores	49	324	5,333	16,460
5722	Household appliance stores	57	243	5,580	22,961
5731	Radio, TV, and electronic stores	85	620	12,343	19,907
5734	Computer and software stores	43	485	11,567	23,850
5735	Record and prerecorded tape stores	35	429	5,236	12,206
5736	Musical instrument stores	17	95	1,867	19,649
581	Eating and drinking places	2,615	47,548	629,237	13,234
5912	Drug stores and proprietary stores	152	3,414	97,627	27,782
5932	Used merchandise stores	59	287	4,239	14,770
5941	Sporting goods and bicycle shops	143	1,197	19,190	16,032
5942	Book stores	64	710	11,478	16,166
5943	Stationery stores	24	180	3,645	20,251
5944	Jewelry stores	350	2,162	53,406	24,702

Continued on next page.

Table 23.07-- PRIVATE INDUSTRY RETAIL EMPLOYMENT AND WAGES, ANNUAL AVERAGES: 1998 - Con.

SIC code	Retail trade	No. of establish-ments	Average employ-ment	Total wages ($1,000)	Average wage
5945	Hobby, toy, and game shops	29	441	6,899	15,644
5946	Camera and photographic supply stores	6	37	750	20,271
5947	Gift, novelty, and souvenir shops	283	3,101	65,000	20,961
5948	Luggage and leather goods stores	35	487	13,126	26,952
5949	Sewing, needlework, and piece goods	21	225	2,841	12,625
5961	Catalog and mail-order houses	6	38	980	25,794
5962	Merchandising machine operators	13	65	988	15,195
5963	Direct selling establishments	39	152	3,503	23,044
5992	Florists	123	654	8,502	13,000
5995	Optical goods stores	37	244	5,037	20,642
5999	Misc. retail stores, not elsewhere classified	335	1,898	37,521	19,769

Source: U.S. Department of Labor, *Employment and Wages Annual Averages, 1998.*

Table 23.08-- RETAIL SALES, BY TYPE OF STORE: 1996 AND 1997

[In millions of dollars; data are estimates]

Kind of store	SIC code	1996	1997
All stores 1/	52 to 59	13,322	2/ 13,359
Food stores	54	2,266	2,264
Grocery stores	541	2,103	2,090
General merchandise stores	53	2,197	2,256
Department stores	531	957	1,012
Automotive dealers	55 exc. 554	2,073	1,989
Eating and drinking places	58	1,892	1,849
Gasoline service stations	554	680	633
Building materials and garden supplies	52	472	544
Apparel and accessories stores	56	1,058	1,117
Furniture, homefurnishings stores	57	619	617

1/ Includes other types of stores, not shown separately.

2/ Sales per household were $34,141, highest of the 50 States. The U.S. ratio was $25,437.

Source: Market Statistics (a division of Claritas Inc., Arlington VA), estimates cited in *Statistical Abstract of the United States: 1999,* pp. 778-779.

Table 23.09-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1998

[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	68
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	837	34
Pearl Highlands Center	Pearl City	1993	13	410	1,847	20
Pearlridge Center	Aiea	1972	56	1,400	6,600	170
Royal Hawaiian S.C.	Honolulu	1980	7	280	614	150
Waikele Center	Waipahu	1993	42	522	2,162	25
Windward Mall S.C.	Kaneohe	1982	32	530	2,300	100
Hawaii:						
Kaiko'o Mall S.C.	Hilo	1970	15	220	950	33
Keauhou Shopping Center	Kailua	1984	22	170	893	48
Pines Plaza	Kailua	1992	1	161	64	(NA)
Prince Kuhio Plaza	Hilo	1985	46	506	2,831	75
Waiakea Center	Hilo	1997	18	229	1,157	16
Maui:						
Apex Building	Kahului	1995	11	281	146	(NA)
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	48
Maui Marketplace	Kahului	1997	20	315	1,400	25
Kauai:						
Kukui Grove Center	Lihue	1982	49	461	2,552	64
Poipu Shopping Village	Koloa	1985	4	378	182	34

NA Not available.

Source: International Council of Shopping Centers, Hawaii Chapter, *Hawaii Shopping Center Directory 1998.*

Table 23.10-- SHOPPING CENTER CHARACTERISTICS: 1994 TO 1998

Characteristic	1994	1995	1996	1997	1998
Number	165	(NA)	175	182	182
Gross leasable area (mil. sq. ft.)	17	(NA)	18	19	19
Retail sales (bil. dol.)	3.1	(NA)	3.6	3.9	4.2

NA Not available
Source: *Statistical Abstract of the United States: 1999* (p. 777) and earlier editions.

Table 23.11-- 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 23.12-- DUTY-FREE STORE REVENUES: 1984 TO 1999

[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	1992	421,953,644
1985	180,126,919	1993	397,322,968
1986	270,891,959	1994	413,417,555
1987	369,788,429	1995	420,000,000
1988	445,072,755	1996	426,000,000
1989	451,185,041	1997	355,636,355
1990	413,932,037	1998	271,692,798
1991	378,587,469	1999	192,429,772

Source: DFS Hawaii, records, for 1995-96 data *Honolulu Star Bulletin* , November 1, 1996, for 1997-99 data Hawaii State Department of Transportation, Airport Division records.

Table 23.13-- ALCOHOLIC BEVERAGE SALES, BY TYPE: 1997 TO 1999

Category	Wine gallons of 128 fluid ounces			Wholesale value, 1999 (dollars)
	1997 1/	1998 1/	1999	
All types	33,647,883	32,895,973	32,933,885	313,523,556
Distilled spirits	1,309,812	1,279,963	1,337,880	58,353,874
Sparkling wine	224,652	214,025	259,422	14,466,491
Still wine	2,519,929	2,583,077	2,715,869	75,362,855
Cooler beverage	244,010	216,763	216,118	2,632,426
Draft beer	1,565,915	1,621,911	1,735,885	7,301,182
Beer other than draft	27,783,565	26,980,234	26,668,711	155,406,728

1/ 1997 and 1998 data have been revised from previous year databook table.
Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

Table 23.14-- MERCHANDISE LINE SALES FOR RETAIL STORES WITH PAYROLL: 1992

Merchan-dise line code	Kind of business and merchandise line	Number of establish-ments	Sales of specified merchandise line		
			Amount ($1,000)	As percent of total sales of --	
				Establish-ments handling line	All establish-ments
	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

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Table 23.14-- 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	As percent of total sales of --: 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 23.15-- WHOLESALE TRADE ESTABLISHMENTS AND SALES: 1939 TO 1997

[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	1997	1,872	7,147,462

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (1977), table 20.7; U.S. Census Bureau, *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, *1997 Economic Census, Wholesale Trade, Hawaii,* EC97W42A-HI(RV) (March 2000), table1.

Table 23.16-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS, FOR THE STATE, 1992 AND 1997, AND OAHU AND THE NEIGHBOR ISLANDS, 1997

Subject	1992	1997		
		State total	Oahu	Neighbor Islands
Number of establishments	2,202	1,872	1,463	409
Sales ($1,000)	8,001,621	7,147,462	6,079,891	1,067,571
Annual payroll ($1,000)	624,541	575,955	486,975	88,980
First quarter payroll ($1,000)	150,772	138,454	117,329	21,125
Paid employees for pay period including March 12 (number)	23,308	18,532	15,423	3,109
Operating expenses ($1,000)	1,332,892	1,213,543	1,017,689	195,854
Inventories ($1,000):				
Beginning of year	794,259	691,610	604,482	87,128
End of year	787,828	734,465	642,470	91,995

NA Not available.

Source: U.S. Census Bureau, *1992 Census of Wholesale Trade, Hawaii,* WC92-A-12 (November 1994), tables 1, 3, 7, and 8; 1997 Economic Census, Wholesale Trade, Geographic Area Series, Hawaii, EC97W42A-HI(RV) (March 2000), table 1 and 5.

Table 23.17-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1997

NAICS codes	Type of operation and kind of business	Number of establish-ments	Sales ($1,000)	Annual payroll ($1000)	Paid employees, pay period including March 12
42	Wholesale trade	1,872	7,147,462	575,955	18,532
	Type of operation:				
	Merchant wholesalers	1,606	5,088,686	473,494	15,934
	Manufacturers' sales branches and sales offices	108	1,369,799	80,676	1,829
	Agents, brokers, and commission merchants	158	688,977	21,785	769
	Kind of business:				
4211	Motor vehicles and motor vehicle parts and supplies	59	299,862	18,818	738
4212	Furniture and homefurnishings	60	112,853	11,496	415
4213	Lumber and other construction				
4213	materials	53	175,511	14,784	405
4214	Professional and commercial equipment and supplies	152	549,838	76,398	1,840
4215	Metals and minerals, except petroleum	29	63,686	8,448	246
4216	Electrical goods	112	350,849	35,000	930
4217	Hardware, and plumbing and heating equipment and supplies	76	132,140	17,209	511
4218	Machinery, equipment, and supplies	141	271,903	42,255	1,220
4219	Miscellaneous durable goods	207	265,527	26,884	1,034
4221	Paper and paper products	76	274,118	28,497	923
4222	Drugs, drug proprietaries, and druggists' sundries	58	501,086	23,380	668
4223	Apparel, piece goods, and notions	156	284,985	24,818	1,006
4224	Groceries and related products	381	2,188,753	152,857	5,663
4225	Farm-product raw materials	9	11,733	1,182	70
4226	Chemicals and allied products	49	106,947	11,425	339
4227	Petroleum and petroleum products	43	898,052	22,372	518
4228	Beer, wine, and distilled alcoholic beverages	31	354,613	31,352	816
4229	Miscellaneous nondurable goods	180	305,006	28,780	1,190

Source: U.S. Census Bureau, *1997 Economic Census, Wholesale Trade, Geographic Area Series, Hawaii,* EC97W42A-HI(RV) (March 2000), table 1.

Table 23.18-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1997

Geographic area	All wholesalers		Merchant wholesalers	
	Number of establishments	Sales ($1,000)	Number of establishments	Sales ($1,000)
State total	1,872	7,147,462	1,606	5,088,686
Hawaii County	179	457,317	156	367,182
Hilo	87	314,200	75	240,104
Kailua	34	60,574	32	(D)
Honolulu County	1,463	6,079,891	1,244	4,215,679
Aiea	70	293,347	60	229,327
Ewa Beach	11	352,507	7	(D)
Halawa	10	4,554	10	4,554
Honolulu	1,114	4,537,499	950	2,987,420
Kailua	26	58,412	17	27,758
Kaneohe	22	23,091	17	13,278
Mililani Town	14	37,540	12	(D)
Pearl City	37	176,063	33	(D)
Wahiawa	5	5,005	5	5,005
Waimalu	18	10,026	15	(D)
Waipahu	60	364,737	54	356,431
Kauai County	64	176,689	55	(D)
Lihue	35	112,582	29	(D)
Maui County	166	433,565	151	(D)
Island of Lanai	2	(D)	1	(D)
Kaunakakai	4	3,308	4	3,308
Makawao	7	4,816	6	(D)
Kahului	54	205,784	50	193,860
Kihei	10	15,910	10	15,910
Lahaina	9	6,009	8	(D)
Wailuku	45	126,858	42	(D)

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Census Bureau, *1997 Economic Census, Wholesale Trade, Hawaii*, EC97W42A-HI(RV) (March 2000), table 5 and 7.

Table 23.19-- PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1997

Geographic area	Establishments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
State total	2,480	1,574,036	606,466	15,743
Hawaii County	246	73,290	24,923	933
Hilo	124	35,648	13,798	573
Holualoa	5	709	170	10
Kailua	58	26,680	8,179	230
Kalaoa	3	494	185	8
Honolulu County	1,917	1,400,629	546,818	13,729
Aiea	30	12,612	5,296	170
Ewa Beach				
Halawa	6	1,782	534	15
Heeia	3	295	79	3
Honolulu	1,650	1,282,534	503,208	12,014
Kahaluu	6	1,060	150	19
Kailua	67	20,399	7,785	202
Kaneohe	25	7,596	2,615	97
Maunawili	6	2,372	578	38
Mililani Town	14	11,120	5,733	87
Pearl City	12	6,418	2,596	91
Wahiawa	8	1,439	517	26
Waimalu	22	12,334	6,077	380
Waipahu	15	3,675	1,354	49
Kauai County	90	24,952	8,994	327
Kalaheo	5	454	143	10
Kapaa	12	2,599	956	56
Lihue	39	10,849	4,463	149
Maui County	227	75,165	25,731	754
Haiku-Pauwela	8	545	115	3
Kahului	27	10,423	3,277	78
Kihei	31	6,994	2,059	89
Lahaina	14	3,444	1,118	42
Makawao	7	1,387	622	24
Pukalani	9	1,733	700	24
Wailea-Makena	11	1,211	317	12
Wailuku	96	45,325	16,527	447

Source: U.S. Census Bureau, *1997 Economic Census, Professional, Scientific, and Technical Services, Geographic Area Series,* EC97S54A-HI (August 1999), table 1a, 3, and 4.

Table 23.20-- ADMINISTRATIVE AND SUPPORT AND WASTE MANAGEMENT AND REMEDIATION SERVICES ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1997

Geographic area	Establishments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
State total	1,541	1,519,140	638,465	32,488
Hawaii County	154	87,034	46,908	2,813
Hilo	54	24,379	12,379	1,111
Holualoa	6	1,590	488	28
Kailua	52	45,446	30,497	1,483
Honolulu County	1,126	1,316,348	549,216	27,170
Ahuimanu	4	464	173	16
Aiea	32	21,868	9,945	689
Ewa Beach	8	3,022	1,627	54
Halawa	6	924	240	21
Honolulu	872	1,123,068	490,859	24,122
Kailua	26	5,642	2,312	113
Kaneohe	29	5,754	2,234	113
Mililani Town	13	2,381	782	94
Pearl City	22	11,901	4,330	271
Wahiawa	9	2,720	614	29
Waianae	7	1,248	604	38
Waimalu	18	10,603	4,726	309
Waipahu	17	6,160	2,397	154
Waipio	3	453	251	18
Kauai County	67	25,822	8,123	483
Kapaa	7	1,310	159	6
Lihue	32	13,822	4,782	320
		(D)	(D)	(a)
Maui County	194	89,936	34,218	2,022
Haiku-Pauwela	4	794	217	15
Kahului	34	26,652	10,895	800
Kihei	28	5,649	2,171	107
Lahaina	30	17,525	6,288	363
Makawao	4	417	77	4
Napili-Honokowai	3	258	161	6
Pukalani	5	849	361	13
Wailea-Makena	14	6,804	3,965	170
Wailuku	40	17,948	6,278	302

Source: U.S. Census Bureau, *1997 Economic Census, Administrative and Support and Waste Management and Remediation Services, Geographic Area Series*, EC97S56A-HI (September 1999), table 1, 3, and 4.

Table 23.21-- EDUCATIONAL SERVICES ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1997

Geographic area	Establishments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
State total	209	52,837	18,679	1,214
Hawaii County	21	5,012	1,513	104
Hilo	8	1,472	423	41
Kailua	5	1,828	520	44
Honolulu County	149	42,009	15,778	994
Aiea	6	2,674	883	57
Honolulu	101	31,857	12,784	703
Kailua	4	550	263	25
Kaneohe	4	348	92	8
Mililani Town	3	518	124	24
Pearl City	5	295	95	17
Waimalu	6	1,074	341	27
Kauai County	6	957	161	25
Maui County	33	4,859	1,227	91
Kahului	7	952	172	15
Kihei	5	742	272	8
Lahaina	5	707	121	9
Wailuku	7	830	152	17

Source: U.S. Census Bureau, *1997 Economic Census, Educational Services, Geographic Area Series*, EC97S61A-HI (August 1999), table 1a, 3, and 4.

Table 23.22-- ARTS, ENTERTAINMENT, AND RECREATION ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1997

Geographic area	Establishments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
State total	386	409,640	116,600	6,925
Hawaii County	45	34,417	10,689	653
Hilo	11	4,186	1,023	129
Kailua	12	6,231	1,920	123
Honolulu County	234	273,565	79,051	4,915
Aiea	6	8,497	2,769	169
Honolulu	159	143,529	43,151	2,592
Kailua	9	11,847	3,367	248
Kaneohe	6	4,138	1,353	72
Mililani Town	3	6,807	2,183	149
Pearl City	5	2,174	600	37
Waimalu	9	11,236	2,990	208
Kauai County	27	23,514	6,721	412
Kapaa	5	2,244	618	75
Lihue	11	9,852	2,773	181
Maui County	80	78,144	20,139	945
Kahului	6	3,359	931	61
Kihei	18	11,712	3,505	186
Lahaina	21	35,398	8,327	260

Source: U.S. Census Bureau, *1997 Economic Census, Arts, Entertainment, and Recreation, Geographic Area Series,* EC97S71A-HI (August 1999), table 1a, 3, and 4.

Table 23.23-- OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION) ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1997

Geographic area	Establishments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
State total	1,476	683,196	206,420	10,375
Hawaii County	157	50,292	14,470	808
Hilo	76	28,639	8,871	476
Kailua	46	16,819	4,580	243
Honolulu County	1,097	560,782	170,662	8,402
Aiea	50	24,266	7,058	304
Ewa Beach	6	5,025	1,245	41
Halawa	5	691	208	13
Honolulu	748	395,504	116,973	5,786
Kailua	36	13,259	4,662	229
Kaneohe	55	37,045	12,219	729
Laie	3	759	203	18
Mililani Town	18	3,644	1,200	91
Pearl City	27	15,574	4,565	197
Wahiawa	24	12,425	4,270	196
Waianae	7	789	245	24
Waimalu	28	13,541	4,311	220
Waipahu	55	22,879	7,413	291
Kauai County	59	17,942	5,101	281
Kapaa	8	1,602	442	31
Lihue	25	8,214	2,505	98
Maui County	163	54,180	16,187	884
Island of Lanai	1	(D)	(D)	(a)
Haiku-Pauwela	4	960	178	11
Kahului	35	18,293	6,323	341
Kihei	18	3,952	1,099	52
Lahaina	19	4,539	1,212	65
Pukalani	8	1,051	213	14
Wailea-Makena	8	1,856	537	28
Wailuku	46	18,164	5,686	321

a 0 to 19 employees.
D Withheld to avoid disclosing data for individual companies.
Source: U.S. Census Bureau, *1997 Economic Census, Other Services (Except Public Administration), Geographic Area Series,* EC97S81A-HI (December 1999), table 1a, 3, and 4.

Table 23.24-- PROFESSIONAL, SCIENTIFIC, AND TECHNICAL SERVICES ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997

NAICS code	Kind of business or operation	Establish-ments (number)	Receipts/Revenues ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
	Firms Subject to Federal Income Tax				
54	Professional, scientific, and technical services	2,480	1,574,036	606,466	15,743
541	Professional, scientific, and technical services	2,480	1,574,036	606,466	15,743
5411	Legal services	786	530,852	213,614	4,325
5412	Accounting, tax return prep, bookkeeping, and payroll services	467	212,380	82,032	3,155
5413	Architectural, enginerring, and related services	498	426,024	168,162	3,735
5414	Specialized design services	88	35,232	7,711	263
5415	Computer systems design and related services	124	97,935	38,367	906
5416	Management, scientific, and technical consulting services	240	97,727	32,117	980
5417	Scientific research and development services	18	42,455	21,047	274
5418	Advertising and related services	135	78,571	28,015	811
5419	Other professional, scientific, and technical services	124	52,860	15,401	1,294
	Firms Exempt from Federal Income Tax				
54	Professional, scientific, and technical services	43	88,140	21,507	472
541	Professional, scientific, and technical services	43	88,140	21,507	472
5411	Legal services	18	6,396	3,688	106
5417	Scientific research and development services	25	81,744	17,819	366

Source: U.S. Census Bureau, *1997 Economic Census, Professional, Scientific, and Technical Services, Geographic Area Series,* EC97S54A-HI (August 1999), table 1a and 1b.

Table 23.25-- ADMINISTRATIVE AND SUPPORT AND WASTE MANAGEMENT AND REMEDIATION SERVICES ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION: 1997

NAICS code	Kind of business or operation	Establish-ments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
56	Administrative and support and waste management and remediation services	1,541	1,519,140	638,465	32,488
561	Administrative and support services	1,458	1,345,293	599,457	31,406
5611	Office administrative services	109	95,460	45,720	1,568
5612	Facilities support services	7	16,344	8,736	234
5613	Employment services	81	191,650	137,072	8,565
5614	Business support services	123	280,769	105,585	4,062
5615	Travel arrangement and reservation services	597	444,280	149,582	6,106
5616	Investigation and security services	101	120,246	71,232	5,182
5617	Services to buildings and dwellings	353	157,144	69,301	4,648
5619	Other support services	87	39,400	12,229	1,041
562	Waste management and remediation services	83	173,847	39,008	1,082
5621	Waste collection	28	78,917	15,910	476
5622	Waste treatment and disposal	15	26,958	3,734	160
5629	Remediation and other waste management services	40	67,972	19,364	446

Source: U.S. Census Bureau, *1997 Economic Census, Administrative and Support and Waste Management and Remediation Services, Geographic Area Series,* EC97S56A-HI (September 1999), table 1.

Table 23.26-- EDUCATIONAL SERVICES ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997

NAICS code	Kind of business or operation	Establish-ments (number)	Receipts/ Revenues ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
	Firms Subject to Federal Income Tax				
61	Educational services	209	52,837	18,679	1,214
611	Educational services	209	52,837	18,679	1,214
6114	Business schools, and computer and management training	22	7,170	4,137	166
6115	Technical and trade schools	19	7,313	2,179	137
6116	Other schools and instruction	157	35,904	11,390	880
6117	Educational support services	11	2,450	973	31
	Firms Exempt from Federal Income Tax				
61	Educational services	68	22,849	7,417	396
611	Educational services	68	22,849	7,417	396
6114	Business schools, and computer and management training	5	1,517	549	23
6115	Technical and trade schools	10	6,269	1,611	47
6116	Other schools and instruction	46	8,290	3,397	260
6117	Educational support services	7	6,773	1,860	66

Source: U.S. Census Bureau, *1997 Economic Census, Education Services, Geographic Area Series*, EC97S61A-HI (August 1999), table 1a and 1b.

Table 23.27-- ARTS, ENTERTAINMENT, AND RECREATION ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997

NAICS code	Kind of business or operation	Establish-ments (number)	Receipts/ Revenues ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
	Firms Subject to Federal Income Tax				
71	Arts, entertainment, and recreation	386	409,640	116,600	6,925
711	Performing arts, spectator sports, and related industries	107	94,597	25,505	1,528
7111	Performing arts companies	49	66,471	18,733	1,197
7112	Spectator sports	4	1,259	890	22
7113	Promoters of performing arts, sports, and similar events	13	14,804	1,765	129
7114	Agents/managers for artist, athletes, and other public figures	14	6,342	1,829	121
7115	Independent artists, writers, and performers	27	5,721	2,288	59
712	Museums, historical sites, and similar institutions	11	4,640	1,216	114
7121	Museums, historical sites, and similar institutions	11	4,640	1,216	114
713	Amusement, gambling, and recreation industries	268	310,403	89,879	5,283
7131	Amusement parks and arcades	34	36,131	7,513	488
7139	Other amusement and recreation services	234	274,272	82,366	4,795
	Firms Exempt from Federal Income Tax				
71	Arts, entertainment, and recreation	84	136,795	46,036	2,806
711	Performing arts, spectator sports, and related industries	20	15,003	5,478	300
7111	Performing arts companies	17	13,319	5,121	273
7113	Promoters of performing arts, sports, and similar events	3	1,684	357	27
712	Museums, historical sites, and similar institutions	39	87,388	29,861	1,881
7121	Museums, historical sites, and similar institutions	39	87,388	29,861	1,881
713	Amusement, gambling, and recreation industries	25	34,404	10,697	625
7139	Other amusement and recreation services	25	34,404	10,697	625

Source: U.S. Census Bureau, *1997 Economic Census, Arts, Entertainment, and Recreation, Geographic Area Series,* EC97S71A-HI (August 1999), table 1a and 1b.

Table 23.28-- OTHER SERVICES (EXCEPT PUBLIC ADMINISTRATION) ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997

NAICS code	Kind of business or operation	Establish-ments (number)	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
	Firms Subject to Federal Income Tax				
81	Other services (except public admin.)	1,476	683,196	206,420	10,375
811	Repair and maintenance	710	352,182	101,332	3,941
8111	Automotive repair and maintenance	461	224,739	62,749	2,608
8112	Electronic and precision equipment repair and maintenance	61	20,854	5,453	213
8113	Commercial and industrial machinery and equipment repair and maintenance	74	51,598	15,190	455
8114	Personal and household goods repair and maintenance	114	54,991	17,940	665
812	Personal and laundry services	766	331,014	105,088	6,434
8121	Personal care services	382	66,763	27,338	1,946
8122	Death care services	37	60,232	19,835	898
8123	Drycleaning and laundry services	93	87,468	31,554	2,042
8129	Other personal services	254	116,551	26,361	1,548
	Firms Exempt from Federal Income Tax				
81	Other services (except public admin.)	1,135	657,578	137,517	7,096
813	Religious/grantmaking/civic/professional and similar organization	1,135	657,578	137,517	7,096
8132	Grantmaking and giving services	52	117,512	11,253	476
8133	Social advocacy organizations	48	51,627	14,613	566
8134	Civic and social organizations	73	35,716	14,834	1,226
8139	Business/professional/labor/political/and similar organizations	962	452,723	96,817	4,828

Source: U.S. Census Bureau, *1997 Economic Census, Other Services (Except Public Administration), Geographic Area Series,* EC97S81A-HI (December 1999), table 1a and 1b.

Table 23.29-- TRAVEL ARRANGEMENT AND RESERVATION SERVICES (NAICS 5615): 1997

[Includes only establishments with payroll]

NAICS code	Kind of business	Establishments	Revenue ($1,000)	Annual payroll ($1,000)	Paid employees, Mar. 12
5615	All establishments	597	444,280	149,582	6,106
56151	Travel agencies	362	201,872	70,943	2,845
56152	Tour operators	180	151,139	61,289	2,440
56159	Other travel arrangement & reservation services 1/	55	91,269	17,350	821

1/ Includes convention & visitors bureaus (13 establishments). Excludes convention and trade show organizers (NAICS 56192; 22 establishments).

Source: U.S. Bureau of the Census, *1997 Economic Census, Administrative and Support and Waste Management and Remediation Services, Hawaii* (Sept. 1999), table 1.

Table 23.30-- ACCOMMODATION AND FOODSERVICES, FOR COUNTIES AND SPECIFIED PLACES: 1997

Geographic area	Number of establishments	Sales ($1,000)	Annual payroll ($1000)	Paid employees for pay period including March 12 (number)
State total	3,081	5,007,899	1,507,538	88,083
Hawaii County	326	546,576	188,103	10,441
Hilo	116	64,725	18,517	1,881
Kailua	91	98,669	34,903	2,220
Honolulu County	2,125	3,036,837	852,782	53,916
Aiea	81	38,136	10,147	995
Ewa Beach	16	10,308	2,578	254
Halawa	10	5,636	1,247	129
Honolulu	1,503	2,603,981	733,432	42,549
Kaneohe	60	36,854	9,527	1,009
Laie	7	4,837	1,232	139
Nanakuli	4	3,327	764	96
Pearl City	42	27,917	7,201	734
Wahiawa	43	23,650	6,296	639
Waimalu	43	39,766	10,181	884
Waimanalo Beach	4	1,758	447	53
Waipahu	77	48,675	12,569	1,287
Kauai County	210	293,784	102,273	5,775
Kapaa	47	43,520	15,087	1,045
Lihue	62	81,036	34,892	1,824
Maui County	420	1,130,702	364,380	17,951
Island of Lanai	2	(D)	(D)	(b)
Island of Molokai	4	3,922	1540	143
Haiku-Pauwela	3	932	199	28
Kahului	63	56,199	15,285	1,162
Kihei	74	82,830	27,889	1,639
Lahaina	100	218,043	60,212	3,514
Napili-Honokowai	22	76,654	21,087	1,123
Pukalani	10	4,534	1,083	129
Wailea-Makena	19	209,787	66,079	2,725

D Withheld to avoid disclosing data for individual companies.
b 20-99 employees.
Source: U.S. Census Bureau, *1997 Economic Census, Accommodation and Foodservices, Geographic Area Series, Hawaii,* EC97R72A-HI, (October 1999), table 3 and 4.

Table 23.31-- ACCOMMODATION AND FOODSERVICES: 1997

[Includes only establishments with payroll. Apparently excludes condominium units in rental pools for transient use]

NAICS codes	Subject	Number of establish-ments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
72	Acommodation and foodservices	3,081	5,007,899	1,507,538	88,083
721	Accommodation	309	3,026,903	952,423	40,105
7211	Traveler accommodation	294	3,024,571	951,821	40,064
72111	Hotels	280	3,020,867	950,983	39,990
7211101	25 guestrooms or more	241	3,009,173	948,715	39,823
7211102	Less than 25 guestrooms	23	6,854	1,412	90
7211103	Motels	16	4,840	856	77
72119	Other traveler accommodation 1/	14	3,704	838	74
7212	RV parks and recreational camps	6	603	171	12
7213	Rooming and boarding houses	9	1,729	431	29
722	Foodservices and drinking places	2,772	1,980,996	555,115	47,978
7221	Full-service restaurants	1,207	1,002,421	309,458	25,170
7222	Limited-service eating places	1,185	723,521	178,691	17,988
7223	Special foodservices	96	162,149	46,009	2,846
72231	Foodservice contractors	51	142,848	40,228	2,267
72232	Caterers	22	12,597	4,173	447
72233	Mobile foodservices	23	6,704	1,608	132
7224	Drinking Places	284	92,905	20,957	1,974

1/ Includes Bed & breakfast inns and all other traveler accommodations.

Source: U.S. Census Bureau, *1997 Economic Census, Accommodation and Foodservices, Hawaii*, EC97R72A-HI (October 1999), table 1.

Table 23.32-- VISITOR ACCOMMODATIONS, BY COUNTIES: 1965 TO 1999

[Number of units]

Year	State total	City & County of Honolulu	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
1998	71,480	36,206	9,655	6,969	18,650
1999	71,157	35,861	9,815	6,872	18,609

NA Not available.

Source: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *Visitor Plant Inventory* (annual).

Table 23.33-- VISITOR ACCOMMODATIONS, BY TYPE: 1986 TO 1999

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
1998:	882	669	213	71,480	54,055	17,425
1999:	832	620	212	71,157	53,954	17,203

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 & Convention Bureau, *Visitor Plant Inventory*, 1986 to 1998; Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *Visitor Plant Inventory* (annual) for 1999.

Table 23.34-- VISITOR ACCOMMODATIONS, BY TYPE AND BY ISLANDS: 1998 AND 1999

Year and island	Properties			Units		
	Total	Hotels 1/	Condo-miniums 2/	Total	Hotels 1/	Condo-miniums 2/
1998						
State total	882	669	213	71,480	54,055	17,425
Oahu	205	174	31	36,206	32,178	4,028
Waikiki/Honolulu	118	92	26	31,491	28,032	3,459
Rest of Oahu	87	82	5	4,715	4,146	569
Other islands	677	495	182	35,274	21,877	13,397
Hawaii	163	130	33	9,655	7,413	2,242
Maui	240	134	106	17,711	9,704	8,007
Lanai	6	6	-	369	369	-
Molokai	11	6	5	570	291	279
Kauai	257	219	38	6,969	4,100	2,869
1999						
State total	832	620	212	71,157	53,954	17,203
Oahu	194	163	31	35,861	31,956	3,905
Waikiki/Honolulu	116	90	26	31,249	27,898	3,351
Rest of Oahu	78	73	5	4,612	4,058	554
Other islands	638	457	181	35,296	21,998	13,298
Hawaii	152	121	31	9,815	7,740	2,075
Maui	231	126	105	17,682	9,691	7,991
Lanai	6	6	-	369	369	-
Molokai	11	6	5	558	327	231
Kauai	238	198	40	6,872	3,871	3,001

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/ Accommodation type grouped differently than in previous years.

Source: Hawaii Visitors & Convention Bureau, *Visitor Plant Inventory* for 1998; Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, Visitor Plant Inventory (annual) for 1999.

Table 23.35-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA: 1999

[Accommodation type grouped differently than in previous years]

Type of accommodation	Properties			Units		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All types	832	194	638	71,157	35,861	35,296
Apartment-hotel	21	16	5	710	652	58
Bed and breakfast	116	14	102	423	35	388
Condominium	212	31	181	17,203	3,905	13,298
Hotel	158	78	80	50,218	30,641	19,577
Other 1/	325	55	270	2,603	628	1,975

1/ Hostel, lodge, etc.

Source: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, *1999 Visitor Plant Inventory* (annual).

Table 23.36-- HOTELS AND OTHER LODGING PLACES (SIC 70), BY COUNTIES: 1992 TO 1997

County	1992	1993	1994	1995	1996	1997
State total	281	279	285	283	282	291
Hawaii	39	38	38	38	41	41
Honolulu	142	143	145	147	137	138
Kauai	34	30	35	32	31	31
Maui	66	68	67	66	73	81

NA Not available.

Source: U.S. Bureau of the Census, *County Business Patterns, Hawaii* (annual report), 1993 CD-ROM, and unpublished 1994 data.

Table 23.37-- VISITOR ACCOMMODATIONS, BY NIGHTLY PRICE: 1999

[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	70,037	16,518	31,245	19,451	2,821
Island:					
Oahu	35,243	9,896	17,280	7,295	772
Hawaii	9,774	1,971	4,169	2,974	660
Kauai	6,740	1,202	3,001	2,348	188
Maui	17,473	3,315	6,578	6,556	1,023
Molokai	438	122	212	104	-
Lanai	369	12	5	174	178
Type of accommodation:					
Apartment, apartment-hotel	702	556	141	2	2
Bed and breakfast	385	230	152	3	-
Condominium	16,464	4,660	9,573	2,170	61
Hostel	280	280	-	-	-
Hotel	50,218	9,924	20,839	16,716	2,740
Individual vacation unit	976	538	403	22	13
Other	1,013	331	137	538	7

Note: Based on 675 properties for which information on the class of units was available. Because class of units was reported in terms of percentages, errors may have occur due to rounding.

Source: Hawaii State Department of Business, Economic Development and Tourism, Research and Economic Analysis Division, 1999 Visitor Plant Inventory (annual).

Table 23.38-- HOTEL ROOMS, OCCUPANCY RATES, AND DAILY ROOM AND GUEST RATES: 1989 TO 1999

[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			
1989 3/	67,734	36,467	31,267	79.0	95.83	2.00
1990 3/	71,266	36,899	34,367	78.8	102.10	2.01
1991 3/	72,275	36,623	35,652	72.4	101.89	2.01
1992 3/	73,089	37,279	35,810	72.6	105.59	2.02
1993 3/	69,502	37,032	32,470	72.0	103.26	2.04
1994 3/	70,463	36,194	34,269	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
1998	71,480	36,206	35,274	72.1	140.80	2.09
1999	71,157	35,861	35,296	73.1	142.39	2.09

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.

3/ Maui County's room count for the years 1989-1994 was adjusted downward due to double counting of certain units during those years, 1989-1994 data revised from previous year data book.

Source: Hawaii State Department of Business, Economic Development, and Tourism, *Visitor Plant Inventory (annual); PKF-Hawaii, Trends in the Hotel Industry,* Hawaii (December issues), and records.

Table 23.39-- HOTEL ROOM OCCUPANCY AND ROOM RATES, BY GEOGRAPHIC AREAS: 1999

[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	73.13	142.39	104.12
Oahu	73.08	118.88	86.87
Waikiki	74.03	120.03	88.86
Other Oahu	64.39	106.83	68.79
Hawaii	67.43	165.92	111.87
Hilo	73.80	75.65	55.83
Kona	65.63	82.18	53.94
Kohala	68.01	238.68	162.34
Maui	77.25	167.08	129.06
Kaanapali	80.77	170.89	138.03
West Maui	78.28	150.26	117.63
Other	72.31	175.93	127.21
Kauai	72.39	159.89	115.74
North	72.94	186.09	135.73
Central	68.01	104.69	71.21
South	75.46	188.78	142.45
Molokai	41.08	74.54	30.62

NA Not available.
Source: PKF-Hawaii, *Trends in the Hotel Industry, Hawaii,* December 1999.

Table 23.40-- GENERAL EXCISE TAX BASE FOR RENTALS: 1985 TO 1999

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

Year reported 1/	Total	Hotel rentals	All other rentals 2/
1985	3,037,254	1,122,268	1,914,986
1986	3,278,450	1,212,782	2,065,668
1987	3,443,271	1,369,401	2,073,870
1988	3,715,546	1,408,891	2,306,655
1989	4,108,740	1,505,071	2,603,669
1990	4,401,733	1,572,994	2,828,739
1991	4,825,777	1,512,990	3,312,787
1992	5,013,293	1,621,751	3,391,542
1993	5,035,581	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	2,155,319	3,826,024
1998	5,904,196	2,147,217	3,756,979
1999	5,845,772	2,158,193	3,687,580

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 23.41-- COMPUTER AND SOFTWARE STORES AND SERVICES: 1997

[Data limited to establishments with payroll]

Subject and year	Number of establish-ments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, week inc. March 12
Wholesale trade:				
Computers and computer peripheral equipment and software (NAICS 42143)	32	150,565	24,786	453
Retail trade:				
Computer and software stores (NAICS 44312)	37	104,508	7,198	387
Services:				
Computer and office machine repairs and maintenance (NAICS 811212)	38	15,134	3,638	141
Computer systems design and related services (NAICS 5415)	124	97,935	38,367	906
Data processing services (NAICS 5142)	30	17,949	6,719	187
Software publishers (NAICS 5112)	16	6,253	2,195	61

Source: U.S. Census Bureau, *1997 Economic Census, Retail Trade, Geographic Area Series, Hawaii,* EC97R44A-HI (November 1999); *1997 Economic Census, Wholesale Trade, Geographic Area Series, Hawaii,* EC97W42-HI (April 2000); *1997 Economic Census, Other Services (Except Pulbic Administration), Geographic Area Series, Hawaii,* EC97S81A-HI (December 1999); *1997 Economic Census, Professional, Scientific and Technical Services, Geographic Area Series, Hawaii,* EC97S54A-HI (August 1999); *1997 Economic Census, Information, Geographic Area Series, Hawaii,* EC97S51A-HI (October 1999).

Table 23.42-- MOTION PICTURE SERVICES: 1977 TO 1997

[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
1997 2/	63	33,727	10,660	278
Motion picture theaters (SIC 783):				
1977 1/	50	17,444	(D)	(D)
1982	36	21,329	3,195	519
1987	35	(D)	(D)	(D)
1992	34	(D)	(D)	(D)
1997 2/	35	62,133	8,866	1,195
Video tape rental (SIC 784):				
1987	78	12,319	2,456	376
1992	78	26,909	5,252	545
1997 2/	81	23,862	4,346	451

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Data include 3 establishments without payroll.

2/ Data for 1997 use NAICS code 51211, 51212, 51219 for motion picture production, distribution, and service; NAICS code 51213 for motion picture theaters; NAICS code 53223 for video tape and disk rental.

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); *1997 Economic Census, Information, Geographic Area Series, Hawaii* , EC97S51A-HI (October 1999); *1997 Economic Census, Real Estate and Rental and Leasing, Geographic Area Series, Hawaii* , EC97F53A-HI (August 1999).

Table 23.43-- MOTION PICTURE THEATERS AND SCREENS OPERATED BY MAJOR COMPANIES: APRIL 1999

Subject	All major companies	Consolidated Amusement Co.	Wallace Theater Corp.	Signature Theaters
Number of theaters	29	15	13	1
Number of screens	135	79	44	12
Oahu	91	59	20	12
Hawaii	22	10	12	-
Maui	17	10	7	-
Molokai	3	-	3	-
Kauai	2	-	2	-

Source: *The Honolulu Advertiser* , April 25, 1999, p. G4.

Table 23.44-- MOTION PICTURE AND TELEVISION PRODUCTION: 1995 TO 1999

Subject	1995	1996	1997	1998	1999
Number of features and programs filmed 1/	17	7	12	12	10
Feature films for theater viewing	1	6	9	3	2
TV movie of the week, television episodic, specials	5	1	3	6	6
Hawaii-based TV network series	11	-	-	3	2
Expenditures in Hawaii (million dollars)	49.0	59.7	70.7	99.1	98.1
Commercials	9.7	10.4	5.5	5.8	8.6
Hawaii-based TV series	7.8	-	-	28.2	25.0
Feature films	2.7	11.7	22.6	12.6	6.0
TV specials/episodics/movie of week	1.5	3.0	4.5	10.7	12.2
Others (still photography, sports, exercise or music video, cable, misc.)	6.8	6.5	4.3	6.2	9.1
Documentaries/industrials/news/ educational/travelog/video stock	1.8	0.8	3.3	2.6	2.9
Annual permit holders	9.6	11.7	8.5	11.0	11.0
Private property projects	2.1	10.0	15.0	7.0	7.0
Sports events, annual (private)	7.0	5.6	7.0	15.0	15.0
Tax revenues generated (million dollars)	9.0	10.9	13.0	18.2	18.0
Spending effect on economy (million dollars)	100.0	121.8	144.2	198.2	196.0

1/ For 1995-98, includes only nationally televised series.

Source: Hawaii State Department of Business, Economic Development & Tourism, Hawaii Film Office, records.

Section 24: Foreign and Interstate Commerce

Section Narrative	
24.01	Interstate and Foreign Trade: 1970 to 1999
24.02	Foreign Trade Through the Hawaii Customs District: 1984 to 1999
24.03	Foreign Trade Through the Hawaii Customs District, by Classification: 1994 to 1999
24.04	Foreign Trade Through the Hawaii Customs District, by Method of Transportation: 1992 to 1999
24.05	Foreign-Trade Zone and Subzone Operations: 1995 to 1999
24.06	Characteristics of Manufacturing Establishments that Export, United States and Hawaii: 1992
24.07	Manufacturing Industries: Shipments and Employment Related to Exports of Major Groups, Hawaii: 1992
24.08	Profile of Exporting Companies, United States and Hawaii: 1996 and 1997
24.09	Agricultural Landholdings of Foreign Owners: December 31, 1994 to 1997
24.10	Real Property Holdings of Foreign Persons on Oahu: 1992 to 1999
24.11	Real Property Holdings of Foreign Persons on Oahu by Country, Number of Parcels: 1991 to 1999
24.12	Real Property Holdings of Foreign Persons on Oahu by Country, Assessed Value: 1991 to 1999
24.13	Foreign Direct Investment in Hawaii in Gross Property, Plant, and Equipment of Nonbank Affiliates, by Country of Ultimate Beneficial Owner: 1977 to 1997
24.14	Employment of Nonbank Affiliates in Hawaii, By Country of Affiliate: 1977 to 1997
24.15	Foreign Direct Investment in Hawaii in Gross Property, Plant, and Equipment of Nonbank Affiliates, by Industry of Affiliate: 1977 to 1997
24.16	Foreign Direct Investment in Gross Property, Plant and Equipment of Nonbank Affiliates and Employment, By Industry of Affiliate: 1997
24.17	Employment of Non Bank Affiliates in Hawaii, by Industry of Affiliate: 1977 to 1997

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. Census Bureau and the Bureau of Economic Analysis, the Hawaii State Department of Business, Economic Development & Tourism's Foreign Trade Zone No. 9 and its subzones, and the City & County of Honolulu Department Budget & Fiscal Services. 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: 1999*. 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	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

NA Not available.

1/ Not available separately for foreign and domestic exports.

Source: Hawaii State Department of Business and Economic Development, *Hawaii Gross State Product Accounts: 1958 to 1985; Summary Estimates*: *1986, 1987, and 1988* (June 1989), and records.

Table 24.02-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT: 1984 TO 1999

[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	Origin of Movement 3/	Location of Exporter 4/
1984	1,614.2	1,397.9	316.9	(NA)	(NA)
1985	1,756.3	1,553.1	388.8	(NA)	(NA)
1986	1,556.9	1,425.4	231.1	(NA)	(NA)
1987	1,770.1	1,558.6	392.8	151.7	(NA)
1988	1,839.6	1,559.1	572.6	130.7	(NA)
1989	1,970.1	1,735.9	537.4	160.0	(NA)
1990	2,260.6	2,100.3	512.2	178.7	(NA)
1991	1,620.9	1,892.4	568.3	147.7	(NA)
1992	2,395.8	2,119.8	604.2	206.2	(NA)
1993	2,426.0	2,218.1	1,099.7	186.6	216.8
1994	2,802.0	2,530.8	985.4	5/ 296.5	237.4
1995	3,027.4	2,703.6	1,072.2	241.1	255.7
1996	3,087.4	2,734.8	1,293.9	284.0	295.2
1997	3,176.8	2,695.0	1,628.0	334.0	303.2
1998	2,515.3	2,217.2	1,042.3	276.4	211.4
1999	2,598.7	2,298.7	1,182.7	273.6	243.5

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. This methodology is based on an "Origin of Movement" which is designed to measure the transportation origin of exports, i.e. the state from which an export product began its journey to the port of exit. These data are distributed in a slightly modified form by the Massachusettes Institute for Social and Economic Research (MISER).

4/ Not available before 1993. This relatively new methodology is based on "Location of Exporter" which tracks the sales origin of exports and is best suited for export promotion or marketing purposes.

5/ Revised.

Source: U.S. Census Bureau, *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 1999; *U.S. Merchandise Trade,* FT900 Supplement, December 1989 to 1999; U.S. Census Bureau, *Statistical Abstract of the United States* (annual) and records. U.S. Department of Commerce, International Trade Administration, "State Exports to Countries and Regions", 1993-99, <http://www.ita.doc.gov/td/industry/otea/state/> accessed October 10, 2000.

Table 24.03-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY CLASSIFICATION: 1994 TO 1999

[In millions of dollars]

Classification	1994	1995	1996	1997	1998	1999
General imports by district of entry:						
Customs value 1/	2,802.00	3,027.42	3,087.39	3,176.79	2,515.31	2,598.73
C.i.f. value 2/	2,923.06	3,152.37	3,214.31	3,326.44	2,634.90	2,721.29
General imports by district of unlading:						
Customs value 1/	3,160.26	3,373.40	3,554.76	4,063.49	3,393.45	4,256.43
C.i.f. value 2/	3,307.83	3,520.36	3,704.86	4,249.72	3,550.39	4,435.21
Imports for consumption by district of entry (customs value 1/)	2,530.83	2,703.59	2,748.34	2,694.98	2,217.22	2,298.69
Exports of domestic and foreign merchandise by district of export (f.a.s. value 3/)	985.42	1,072.16	1,293.90	1,627.98	1,042.27	1,182.73
Exports of merchandise by location of exporter 4/	237.4	255.7	295.0	303.2	211.4	243.5
Commodities	177.6	183.4	193.2	162.4	177.1	210.4
Manufactured commodities	125.3	142.0	151.4	123.2	126.4	173.5
Non-manufactured commodities	52.3	41.4	41.8	39.2	50.7	36.9
Reexports 5/	59.8	72.3	102.0	140.8	34.2	33.1
Exports of merchandise by origin of movement 6/	(NA)	(NA)	284.1	334.0	276.4	273.6
Commodities	296.5	241.1	180.2	205.2	234.6	234.5
Manufactured commodities	222.9	181.7	124.8	145.0	171.7	191.6
Non-manufactured commodities	73.6	59.4	55.4	60.2	62.9	42.9
Reexports 5/	(NA)	(NA)	103.9	128.8	41.8	39.1

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/ Based on 1987 Standard Industrial Classification. Merchandise exports allocated by zip code of location of exporter.

5/ Not available by state prior to 1996 from U.S. Census Bureau, alternate source is U.S. Department of Commerce, International Trade Administration.

6/ Based on 1987 Standard Industrial Classification. Includes merchandise exports originated in Hawaii and exported through other customs districts. Exports are by "point of origin" of their journey to export, a transportation not production basis.

Source: U.S. Census Bureau, *U.S. Merchandise Trade: Selected Highlights*, FT920, for December 1994-99, tables 1, 4, 5 and 6, and U.S. Merchandise Trade, FT900 Supplement, for December 1994-99, exhibit 2 and 2A. U.S. Department of Commerce, International Trade Administration, "State Exports to Countries and Regions", 1993-99, <http://www.ita.doc.gov/td/industry/otea/state/> accessed October 10, 2000.

Table 24.04-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1992 TO 1999

[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
1998	3,393.45	922.44	2,453.54	5,840.69	24.93
1999	4,256.43	1,160.82	3,080.85	5,969.10	30.90
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
1998	1,042.27	153.55	335.51	719.10	11.96
1999	1,182.73	138.79	492.10	545.93	12.99

1/ Includes categories not tabulated by method of transportation, not shown separately.

2/ By district of unlading. 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*, *1997*, *1998* and *1999*, tables 1 and 6.

Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS: 1995 TO 1999

[Years ended September 30, unless otherwise specified]

Subject	1995	1996	1997	1998	1999
Zone No. 9, General Purpose:					
Firms using zone	310	284	289	274	269
User employment at zone 1/	142	164	150	200	202
Value of merchandise ($1,000): 2/					
In/out 3/	55,383	80,691	86,982	412,973	373,336
Exports 3/	15,578	17,145	16,311	183,726	146,775
Revenue 4/ ($1,000)	1,676	1,334	1,377	1,325	1,421
Expenditures 4/ ($1,000)	1,490	1,391	1,538	1,286	1,231
Subzone No. 9-A, Tesoro Hawaii, Corp. 5/ 6/:					
User employment at subzone 1/	588	617	628	512	512
Value (million dollars): 2/					
Merchandise, in/out	1,043	1,216	1,340	938	943
Exports	257	281	330	142	103
Subzone No. 9-B, HFM:					
User employment at subzone	19	19	19	16	9/
Value ($1,000): 2/					
Merchandise, in/out	4,162	2,820	1,493	42	9/
Exports	2,062	1,392	805	25	9/
Subzone No. 9-C, Dole Packaged Foods Co. 7/:					
User employment at subzone	18	18	…	…	…
Value ($1,000): 2/					
Merchandise, in/out	2,750	828	…	…	…
Exports	1,126	332	…	…	…
Subzone No. 9-D, Maui Pineapple Co. Ltd.:					
User employment at subzone 1/	597	622	602	570	581
Value ($1,000): 2/					
Merchandise, in/out	99,196	103,719	110,594	104,697	111,295
Exports	4,601	2,994	2,505	3,299	1,482

Continued on next page.

Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS: 1995 TO 1999 -- Con.

Subject	1995	1996	1997	1998	1999
Subzone No. 9-E, Chevron U.S.A. Products Co. Hawaii Refinery:					
User employment at subzone 1/	338	297	314	300	281
Value (million dollars): 2/					
Merchandise, in/out	748	803	841	568	547
Exports	55	54	57	46	46
Subzone No. 9-F, Citizens Utilities Company dba The Gas Company's Synthetic Natural Gas (SNG) Facility 6/					
User employment at subzone 1/	…	…	…	232	232
Value (million dollars):					
Merchandise, in/out	…	…	…	27	29
Exports	…	…	…	… 8/	…

1/ For firms occupying facilities on a continuing basis only. Also includes downtown or other support site employment.

2/ Since 1994, method of calculating value of "Merchandise, in/out" and "Exports" excludes value added in subzone manufacturing activity.

3/ Beginning with 1998, includes activity at 3 General Purpose sites.

4/ Years ended June 30.

5/ On May 29, 1998 Tesoro Hawaii Corporation acquired all of the outstanding stock of BHP Petroleum Americas Refining, Inc. from BHP Hawaii.

6/ On March 18, 1997, the Citizens' Utilities Company was granted its own subzone status. It was formerly part of Subzone 9-A.

7/ Large portion of zone deactivated August 3, 1993 and completely deactivated on February 26, 1996.

8/ Correction to *Data Book 1998*.

9/ Subzone operator filed deactivation request on June 29, 1999. Deactivation pending.

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's 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-- PROFILE OF EXPORTING COMPANIES, UNITED STATES AND HAWAII: 1996 AND 1997

[In number, millions of dollars, and percent]

Characteristic	1996 Exports		1997 Exports	
	U.S.	Hawaii	U.S.	Hawaii
Exporter location				
Value of exports	625,075	295	689,183	303
Value as percent of total	100.0	(D)	100.0	(D)
Known value 1/	500,671	247	562,764	253
Percent of known value	100.0	(D)	100.0	(D)
Number of exporters	189,670	1,226	209,455	910
Percent of number of exporters	100.0	0.6	100.0	0.4
Percent change 1996-1997				
Value as percent of total	…	…	10.3	2.7
Percent of known value	…	…	12.4	2.4
Percent of number of exporters	…	…	10.4	-25.8
State of Origin of Movement				
Value of exports	625,075	284	689,183	334
Value as percent of total	100.0	(D)	100.0	(D)
Known value 1/	500,671	246	562,764	287
Percent of known value	100.0	(D)	100.0	(D)
Number of exporters	189,670	655	209,455	694
Percent of number of exporters	100.0	0.3	100.0	0.3
Percent change 1996-1997				
Value as percent of total	…	…	10.3	17.5
Percent of known value	…	…	12.4	16.6
Percent of number of exporters	…	…	10.4	6.0

D Less than 0.05 percent.
1/ Defined as portion of total U.S. exports that could be matched to specific companies.
Source: U.S. Bureau of the Census, *Profile of U.S. Exporting Companies, 1996-1997,* pp. 26-29.

Table 24.09-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 31, 1994 TO 1997

[The source report is required annually under section 5 of the U.S. Agricultural Foreign Investment Disclosure Act of 1978. Under the Act, any person who holds an Immigration and Naturalization Service Form I-151 or I-551 (green card) is exempt from filing. Based on a 1980 estimate from the U.S. Bureau of the Census Geography Division there were 4,112,000 acres of land in the state. Based on U.S. Department of Agriculture 1987 estimate of 1,998,000 privately-owned acres of land in the state]

Subject	1994	1995	1996	1997
Parcels owned by foreigners	93	99	101	101
Individuals	23	22	22	22
Organizations	70	77	79	79
Acres owned by foreigners 1/	179,971	180,058	180,075	180,073
Percent of all privately owned agric. land	9.0	9.0	9.1	9.0
Individuals	2,066	2,055	2,055	2,055
Organizations	177,905	178,003	178,020	178,018
Value of foreign-owned agric. land ($1,000):				
At time of acquisition	647,331	660,690	661,551	660,801
Reported current value	646,076	659,396	660,266	659,525
Adjusted current value	728,642	791,012	846,717	895,489

1/ The 1996 and 1997 percentage for Hawaii ranked 2nd (rank of 1 assigned to the highest) among the 50 States, exceeded only by Maine at 17.9 and 16.8 percent, respectively, and well above the national percentage of 1.1 percent in 1996 and 1997.

Source: U.S. Department of Agriculture, Economic Research Service, *Foreign Ownership of U. S. Agricultural Land Through December 31, 1994* (Statistical Bulletin No. 919, June 1995), pp. 6, 9, and 13; For 1995: *Foreign Ownership of U.S. Agricultural Land Through December 31, 1995* (Statistical Bulletin No. 931, September 1997), pp. 6, 9, and 13; and *Agriculture Fact Book, 1997;* <http://www.usda.gov/news/pubs/fbook97/contents.htm>. For 1996, Economic Research Service, *Foreign Ownership of U. S. Agricultural Land Through December 31, 1996* (Statistical Bulletin No. 941, July 1998), pp. 5, 8, and 12. For 1997, Economic Research Service, *Foreign Ownership of U. S. Agricultural Land Through December 31, 1997* (Statistical Bulletin No. 943, September 1998), pp. 5, 8, and 12; and <http://usda.mannlib.cornell.edu/data-sets/land/87015/>, accessed June 18, 1999.

Table 24.10-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU: 1992 TO 1999

[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. The closing date for the report for any given year is variously December of the report year to February of the following year. For example, the closing date for the 1999 reporting was February 4, 2000]

Subject	Parcels						
	1992	1994	1995	1996	1997	1998	1999
All property 1/	231,893	240,652	245,257	250,320	252,587	254,282	256,839
Foreign holdings	4,642	5,833	5,150	4,406	3,968	3,081	2,708
Percent	2.0	2.4	2.1	1.8	1.6	1.2	1.1
Foreign holdings by land class:							
Improved residential	753	678	597	545	501	448	381
Apartment	3,489	4,284	3,792	3,067	2,804	2,151	1780
Commercial	209	212	222	188	169	153	128
Industrial	23	22	21	19	15	15	13
Agricultural	42	38	33	20	20	20	18
Conservation	26	20	18	11	7	4	4
Hotel and resort	89	571	460	550	448	288	382
Unimproved residential	11	8	7	6	4	2	2

Subject	Assessed value (millions of dollars) 1/						
	1992	1994	1995	1996	1997	1998	1999
All property 1/	84,520	89,059	88,077	86,985	83,375	78,066	72,766
Foreign holdings	5,828	6,491	4,867	3,796	3,075	2,585	2,307
Percent	6.9	7.3	5.5	4.4	3.7	3.3	3.2
Foreign holdings by land class:							
Improved residential	702	712	509	435	387	332	274
Apartment	1,447	1,471	1,178	916	789	557	419
Commercial	1,661	1,730	929	567	306	214	140
Industrial	141	192	173	113	91	84	65
Agricultural	15	53	51	4	4	4	3
Conservation	122	91	68	38	1	1	1
Hotel and resort	1,716	2,223	1,946	1,710	1,487	1,390	1,402
Unimproved residential	25	18	14	12	8	2	2

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* (January 31, 1997), *1998* (February 2, 1998), *1999* (preliminary February 17, 1999), and 1999 (May 22, 2000 and as corrected) 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, 1997-98 , 1998-99,* and *1999-2000* (annually, in July), and for 1999-2000 <http://www.co.honolulu.hi/rpa/staterpt.htm>.

Table 24.11-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY COUNTRY, NUMBER OF PARCELS: 1991 TO 1999

[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. The closing date for the report for any given year is variously December of the report year to February of the following year. For example, the closing date for the 1999 reporting was February 4, 2000]

Country	1991	1992	1994	1995	1996	1997	1998	1999
Total	3,160	4,642	5,833	5,150	4,406	3,968	3,081	2,708
Argentina	-	-	1	1	1	1	1	1
Australia	38	47	42	37	31	26	20	17
Austria	1	1	2	2	2	2	2	2
Bahamas	-	-	-	-	-	1	1	6
Barbados	-	-	-	1	1	1	1	1
Belgium	-	-	2	2	1	1	1	1
Bermuda	1	2	19	18	16	14	12	10
British Virgin Isle	-	-	1	2	4	4	4	4
British West Indies	-	-	1	1	1	1	1	1
Canada	294	330	293	255	228	207	146	138
Cayman Island(s)	1	4	4	1	1	1	1	1
China	3	32	53	52	49	42	41	32
Dominican Republic	-	-	1	1	1	1	1	1
England	10	23	53	47	40	36	29	27
Finland	1	1	-	-	-	-	-	-
France	6	22	48	45	45	44	39	33
French Polynesia	8	15	6	6	6	6	5	5
Germany	6	11	20	18	13	13	10	9
Guam	1	1	-	-	-	-	-	-
Holland	-	1	5	5	4	4	3	3
Hong Kong	115	128	89	81	73	63	55	57
Iceland	-	-	1	1	-	-	-	-
India	-	-	2	2	2	2	2	2

Continued on next page.

Table 24.11-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY COUNTRY, NUMBER OF PARCELS: 1991 TO 1999 -- Con.

Country	1991	1992	1994	1995	1996	1997	1998	1999
Indonesia	2	21	12	10	8	8	8	8
Italy	-	-	1	1	1	1	1	1
Japan	2,553	3,763	4,893	4,309	3,669	3,299	2,533	2,198
Korea	13	42	70	58	51	45	38	36
Lebanon	-	-	2	2	2	2	2	2
Liberia	-	7	6	6	6	6	6	4
Macau	2	2	1	1	1	1	-	-
Malaysia	2	4	6	5	4	4	3	2
Micronesia	-	-	2	2	2	2	2	2
Netherlands Antilles	21	24	33	34	10	9	9	12
New Zealand	12	15	11	9	7	5	5	4
Panama	1	1	2	1	1	1	1	1
Papua New Guinea	4	4	-	-	-	-	-	-
Philippines	8	41	36	32	30	29	25	22
Portugal	-	2	1	1	1	1	1	1
Samoa, Western	-	1	-	-	-	-	-	-
Saudi Arabia	-	-	3	3	3	3	3	3
Singapore	14	15	11	11	10	10	7	6
Sweden	1	2	5	4	4	4	3	3
Switzerland	7	10	13	13	10	9	6	4
Tahiti	-	-	14	11	11	11	10	11
Taiwan	22	48	54	48	46	38	34	30
Thailand	7	16	13	10	9	9	9	7
Turkey	1	1	-	-	-	-	-	-
United Arab Emirates	1	1	1	1	1	1	-	-
Vanuatu	4	4	-	-	-	-	-	-

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), *19 96* (January 31, 1997); *1997* (February 2, 1998); and *1998* (February 18, 1999); and *1999* (May 22, 2000 and as corrected) submitted to the Honolulu City Council.

Table 24.12-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY COUNTRY, ASSESSED VALUE: 1991 TO 1999

[Value in thousands of dollars. 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. The closing date for the report for any given year is variously December of the report year to February of the following year. For example, the closing date for the 1999 reporting was February 4, 2000]

Country	1991	1992	1994	1995	1996	1997	1998	1999
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	2,584,680.4	2,307,046.9
Argentina	-	-	157.2	172.9	164.3	123.2	117.0	117.0
Australia	13,681.4	17,886.7	13,947.0	16,664.1	14,027.8	12,266.4	9,777.7	8,049.2
Austria	354.6	404.4	616.5	629.1	585.3	519.4	493.2	484.5
Bahamas	-	-	-	-	-	8,245.4	8,287.7	11,882.9
Barbados	-	-	-	1,515.1	1,657.0	1,643.9	1,660.7	1,831.3
Belgium	-	-	390.2	364.0	172.0	172.0	154.8	154.8
Bermuda	1,403.1	4,031.8	36,564.7	33,784.1	28,887.1	16,825.1	12,819.6	10,002.6
British Virgin Isle	-	-	298.0	885.2	2,034.1	2,032.0	1,869.6	1,782.0
British West Indies	-	-	320.2	266.8	254.1	254.1	203.3	194.9
Canada	87,387.3	111,696.7	75,640.1	62,631.6	52,773.2	42,886.7	28,168.2	25,118.0
Cayman Island(s)	1,875.0	4,172.0	4,367.0	1,704.5	1,303.9	1,303.9	1,238.7	959.6
China	1,845.3	9,886.6	15295.8	14,433.2	13,385.4	10,200.6	8,938.9	6,047.1
Dominican Republic	-	-	340.3	329.7	262.2	248.2	224.8	210.7
England	3,543.2	12,124.7	19,078.4	16,127.4	13,031.5	11,174.9	9,033.8	7,176.9
Finland	97.8	97.8	-	-	-	-	-	-
France	9,814.4	26,556.0	31,097.9	24,109.1	22,821.2	22,918.7	20,779.8	18,341.2
French Polynesia	3,064.2	4,493.5	1,997.1	1,887.1	1,847.8	1,814.7	1,500.6	1,392.6
Germany	1,703.0	4,414.8	9,888.2	8,008.5	4,404.2	4,153.5	3,049.6	2,686.5
Guam	149.1	163.3	-	-	-	-	-	-
Holland	-	121.2	1,768.7	1,795.7	999.8	839.9	698.2	676.6
Hong Kong	52,175.7	57,722.7	58,948.4	47,992.5	40,255.6	34,066.1	29,395.7	15,672.0
Iceland	-	-	775.0	775.0	-	-	-	-

Continued on next page.

Table 24.12-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON OAHU BY COUNTRY, ASSESSED VALUE: 1991 TO 1999 -- Con.

Country	1991	1992	1994	1995	1996	1997	1998	1999
India	-	-	543.4	539.7	540.5	477.2	416.1	422.4
Indonesia	2,392.0	6,450.5	2,888.6	2,463.0	1,893.6	1,656.9	1,443.1	1,425.8
Italy	-	-	143.8	143.8	123.3	111.0	88.8	75.3
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	2,388,443.0	2,140,081.8
Korea	5,424.1	87,185.7	37,743.6	25,308.3	20,027.3	17,505.5	14,649.4	12,983.8
Lebanon	-	-	858.0	858.0	826.6	612.8	584.2	555.8
Liberia	-	1,008.2	2,898.5	2,827.2	2,745.3	2,660.1	2,537.2	833.2
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	1,049.0	307.9
Micronesia	-	-	1,697.7	1,663.7	1,451.4	1,046.2	1,591.4	1,620.6
Netherlands Antilles	2,071.3	5,789.9	43,990.0	42,509.7	11,007.0	9,804.0	7,950.8	12,982.4
New Zealand	3,633.0	4,451.2	3,300.1	3,120.5	1,948.2	1,123.5	962.6	835.1
Panama	274.4	379.0	615.3	305.2	259.4	259.4	198.0	209.6
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	5,394.8	4,193.0
Portugal	-	776.4	464.6	464.6	441.4	397.3	394.8	354.9
Samoa, Western	-	111.8	-	-	-	-	-	-
Saudi Arabia	-	-	602.9	623.5	616.9	576.3	-	473.8
Singapore	4,220.1	5,250.6	3,912.0	3,347.0	2,860.4	2,516.9	490.8	1,172.3
Sweden	267.0	524.3	1,478.8	1,216.9	1,148.4	1,085.1	1,336.8	810.3
Switzerland	2,400.1	3,246.7	4,415.3	4,266.6	2,782.8	2,450.4	798.6	1,057.4
Tahiti	-	-	2,684.2	2,144.8	2,175.2	1,914.3	1,277.0	1,533.1
Taiwan	8,593.8	20,467.5	25,576.8	22,471.4	19,448.8	15,039.3	1,458.2	10,669.9
Thailand	2,433.3	5,532.4	5,233.6	3,841.3	3,254.9	2,984.1	12,258.1	1,668.1
Turkey	182.8	209.0	-	-	-	-	2,945.8	-
United Arab Emirates	213.5	233.8	222.7	202.5	183.3	150.6	-	-
Vanuatu	5,682.6	5,699.3	-	-	-	-	-	-

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), *19 96* (January 31, 1997); *1997* (February 2, 1998); *1998* (February 18, 1999); and *1999* (May 22, 2000 and as corrected) submitted to the Honolulu City Council.

Table 24.13-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES, BY COUNTRY OF ULTIMATE BENEFICIAL OWNER: 1977 TO 1997

[Data for Hawaii nonbank affiliates owned 10 percent or more, directly or indirectly, by a foreign person. Amounts are book values, in millions of dollars. 1981-1983 Hawaii totals are estimated based on historical shares and growth rates. Data for 1996 are revised. Data for 1997 are preliminary]

Year	All countries	Asia & Pacific	Japan	Australia, etc. 1/	Other Asia & Pacific	Canada	Europe	Lat. Amer. & Oth. W. Hem.	Other, subtotal 2/
1977	672	(NA)	374	1	(NA)	31	83	(D)	(D)
1978	742	(NA)	407	1	(NA)	37	69	3	225
1979	789	(NA)	445	1	(NA)	51	109	5	178
1980	1,020	(NA)	565	(D)	(NA)	115	119	18	(D)
1981	1,158	(NA)	664	2	(NA)	94	134	16	(D)
1982	1,366	(NA)	758	(D)	(NA)	96	213	17	(D)
1983	1,460	(NA)	1,098	(D)	(NA)	93	(D)	18	(D)
1984	1,691	(NA)	1,203	(D)	(NA)	96	187	18	(D)
1985	1,777	(NA)	1,278	102	(NA)	99	129	20	149
1986	2,013	(NA)	1,442	109	(NA)	113	171	32	146
1987	3,474	3,201	2,969	125	107	66	134	66	7
1988	4,990	4,570	4,235	136	199	78	261	73	8
1989	8,224	7,660	6,757	666	237	88	368	97	11
1990	11,830	10,872	9,960	(D)	(D)	68	759	119	(D)
1991	13,921	12,853	11,866	736	251	80	837	139	12
1992	15,454	14,630	13,601	738	291	121	487	209	7
1993	16,030	15,137	13,935	867	335	183	487	217	6
1994	16,185	15,289	13,948	858	483	198	454	230	14
1995	15,972	14,958	13,372	(D)	(D)	227	507	218	(D)
1996	15,547	14,958	13,163	950	449	66	507	149	68
1997	15,157	13,826	12,557	853	426	104	871	222	24

Values between -0.05 and 0.05 are rounded to zero for 1987-1997.

D Not disclosed.

NA Not available.

1/ Figures for Australia include New Zealand and South Africa for 1977-86 but exclude these countries thereafter.

2/ Figures for Other subtotal include New Zealand and South Africa for 1987-1997 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 <http://www.bea.doc.gov>; and Hawaii State Department of Business, Economic Development & Tourism calculations.

Table 24.14-- EMPLOYMENT OF NON BANK AFFILIATES IN HAWAII, BY COUNTRY OF AFFILIATE: 1977 TO 1997

[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 1996 are revised. Data for 1997 are preliminary]

Year	All countries	Asia & Pacific	Japan	Australia, etc. 1/	Other Asia & Pacific	Canada	Europe	Lat. Amer. & Oth. W. Hem.	Other, subtotal 2/
1977	11.4	(NA)	7.3	0.1	(NA)	0.3	0.5	(D)	(D)
1978	11.9	(NA)	7.2	(D)	(NA)	0.4	0.8	(D)	3.1
1979	14.7	(NA)	8.6	(D)	(NA)	0.6	1.3	(D)	3.4
1980	15.5	(NA)	9.0	(D)	(NA)	0.7	1.5	(D)	(D)
1981	17.0	(NA)	9.1	(D)	(NA)	0.7	1.6	1.1	(D)
1982	16.4	(NA)	9.3	0.4	(NA)	0.6	2.2	(D)	(D)
1983	16.3	(NA)	9.7	(D)	(NA)	0.6	1.7	0.7	(D)
1984	16.5	(NA)	9.8	(D)	(NA)	0.5	2.2	0.8	(D)
1985	18.7	(NA)	11.7	(D)	(NA)	0.5	1.6	0.8	(D)
1986	18.4	(NA)	10.9	1.1	(NA)	0.7	1.8	2.1	1.8
1987	27.3	22.8	20.6	1.4	0.8	0.7	1.0	(D)	(D)
1988	34.8	27.2	24.3	1.5	1.4	0.8	3.2	3.5	1.5
1989	45.0	36.1	30.3	2.6	3.2	0.8	4.0	3.7	3.6
1990	53.0	42.3	36.0	2.7	3.6	0.7	6.2	3.6	3.8
1991	56.0	44.8	38.3	3.2	3.3	0.7	6.1	4.0	3.7
1992	53.8	42.1	36.5	3.3	2.3	0.5	6.5	4.0	3.0
1993	52.4	43.1	37.5	3.5	2.1	1.5	3.6	4.0	2.3
1994	50.8	40.4	37.0	1.4	2.0	1.4	4.0	4.7	0.3
1995	48.9	37.7	34.3	1.7	1.7	1.6	4.3	4.6	0.7
1996	47.5	36.0	32.6	1.5	1.9	0.9	6.8	2.9	0.9
1997	50.1	37.8	34.1	1.1	2.6	1.2	6.9	2.9	1.3

D Data not disclosed.

NA Not available.

1/ Figures for Australia include New Zealand and South Africa for 1977-1986 but exclude these countries thereafter.

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 <http://www.bea.doc.gov>; and Hawaii State Department of Business, Economic Development & Tourism calculations.

Table 24.15-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES, BY INDUSTRY OF AFFILIATE: 1977 TO 1997

[Investment by Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign by country of ultimate beneficial owner. In millions of dollars. Data for 1996 are revised and will be the last year presented according to the International Survey Industry based on the 1987 Standard Industrial Classification. See Table 24.16a for detailed 1997 estimates]

Year	All industries	Petroleum	Manufacturing	Wholesale trade	Retail trade	Finance, nonbank	Insurance	Real estate	Services & Other	Services	Other
1977	672	16	8	5	54	0	1	233	354	(NA)	(NA)
1978	742	17	12	8	57	1	1	246	400	(NA)	(NA)
1979	789	17	14	7	65	1	1	256	427	(NA)	(NA)
1980	1,020	(D)	(D)	17	52	(D)	2	431	474	(NA)	(NA)
1981	1,158	(D)	24	(D)	(D)	1	2	494	501	(NA)	(NA)
1982	1,366	21	38	24	80	(D)	1	584	(D)	(NA)	(NA)
1983	1,460	22	40	28	253	10	1	558	(D)	(NA)	(NA)
1984	1,691	23	73	56	274	3	3	605	653	(NA)	(NA)
1985	1,777	26	103	60	281	3	2	584	719	(NA)	(NA)
1986	2,013	31	157	61	280	4	1	713	767	(NA)	(NA)
1987	3,474	26	129	44	297	3	(D)	991	(D)	1,860	(D)
1988	4,990	28	201	91	322	3	8	1,739	2,598	2,371	227
1989	8,224	(D)	247	179	340	10	15	2,380	(D)	4,309	(D)
1990	11,830	(D)	368	189	490	17	15	3,868	(D)	5,855	(D)
1991	13,921	(D)	386	212	535	82	13	4,069	(D)	7,385	(D)
1992	15,454	(D)	290	(D)	564	222	17	5,075	8,450	7,939	511
1993	16,030	(D)	296	258	570	300	(D)	4,907	8,970	8,454	516
1994	16,185	(D)	308	257	597	306	18	4,615	(D)	8,863	(D)
1995	15,972	(D)	319	168	626	(D)	21	4,374	9,255	8,480	775
1996	15,324	(D)	279	181	739	205	(D)	4,167	8,830	8,072	758
1997	15,157	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

D Data not disclosed.
NA Not available.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division, *Foreign Direct Investment in the United States: Benchmark Survey* (various years), *Operations of U.S. Affiliates of Foreign Companies* (annual) and <http://www.bea.doc.gov>.

Table 24.16-- FOREIGN DIRECT INVESTMENT IN HAWAII IN GROSS PROPERTY, PLANT, AND EQUIPMENT OF NONBANK AFFILIATES AND EMPLOYMENT, BY INDUSTRY OF AFFILIATE: 1997

[Investment by Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign by country of ultimate beneficial owner. In millions of dollars and thousands of employees. 1997 data are preliminary]

	All industries 1/	Manufact-uring	Wholesale trade	Retail trade	Informa-tion	Finance (exc. depository inst) & insur.	Real estate, rental & leasing	Profes-sional, scientific, & technical services	Other industries
Foreign Direct Investment									
1997	15,157	1,008	203	698	142	215	4,295	2	8,595
Employment									
1997	50.1	2.7	2.0	6.7	0.5	1.0	3.7	0.1	33.5

1/ Effective with 1997 the data are classified according to the 1997 International Survey Industry which is based on the 1997 North American Industry Classification System (NAICS). Petroleum is no longer shown as a separate industry, instead the various petroleum-related activities are distributed among the major NAICS-based industries to which they belong, e.g. gas stations are in retail trade. Services is no longer shown as a separate industry, instead the various services-related activities are distributed among the major NAICS-based industries such as Information, Professional, Other industries, etc. See Tables 24.16 and 24.17 for 1977-96 detailed estimates.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division, *Foreign Direct Investment in the United States: 1997 Benchmark Survey, Preliminary Results* and <http://www.bea.doc.gov>.

Table 24.17-- EMPLOYMENT OF NON BANK AFFILIATES IN HAWAII, BY INDUSTRY OF AFFILIATE: 1977 TO 1997

[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. Employment less than 500 are rounded to zero. Data for 1996 are revised and will be the last year presented according to the International Survey Industry based on the 1987 Standard Industrial Classification. See Table 24.16a for detailed 1997 estimates]

Year	All industries 1/	Petroleum	Manufacturing	Wholesale trade	Retail trade	Finance, nonbank	Insurance	Real estate	Services & Other	Services	Other
1977	11.4	(D)	0.6	0.4	2.9	0.0	0.2	0.2	(D)	(NA)	(NA)
1978	11.9	(D)	0.8	0.6	3.2	0.0	0.2	0.2	(D)	(NA)	(NA)
1979	14.7	(D)	1.3	0.7	4.0	0.0	0.2	0.3	(D)	(NA)	(NA)
1980	15.5	(D)	1.3	0.8	4.0	(D)	0.3	0.5	(D)	(NA)	(NA)
1981	17.0	(D)	1.3	0.8	5.4	0.1	0.3	0.8	(D)	(NA)	(NA)
1982	16.4	(D)	1.9	0.7	4.2	0.3	(D)	0.7	8.4	(NA)	(NA)
1983	16.3	(D)	1.4	0.8	4.5	0.3	0.2	0.7	(D)	(NA)	(NA)
1984	16.5	(D)	2.0	2.0	4.4	0.2	0.3	0.5	(D)	(NA)	(NA)
1985	18.7	(D)	2.0	1.8	5.0	0.2	0.3	1.0	(D)	(NA)	(NA)
1986	18.4	(D)	2.4	2.0	4.5	0.2	0.2	1.3	(D)	(NA)	(NA)
1987	27.3	0.0	1.3	1.3	5.1	0.2	1.4	0.6	17.4	11.0	6.4
1988	34.8	0.0	2.1	2.9	5.3	0.2	0.4	1.8	22.2	13.2	9.0
1989	45.0	0.8	2.3	4.0	5.3	0.2	1.0	2.0	29.5	16.9	12.6
1990	53.0	0.9	2.8	4.2	7.1	0.2	1.0	3.5	33.4	21.2	12.2
1991	56.0	(D)	2.7	4.7	(D)	0.2	1.1	(D)	35.5	23.0	12.5
1992	53.8	(D)	3.5	4.1	7.8	0.2	(D)	3.1	32.9	23.8	9.1
1993	52.4	1.3	2.3	4.2	7.8	0.1	1.0	3.4	32.4	25.0	7.4
1994	50.8	1.0	2.4	3.5	7.8	0.2	0.9	2.6	32.5	26.0	6.5
1995	48.9	G	2.4	1.9	9.1	0.1	F	2.6	30.6	23.4	7.2
1996	47.5	G	2.2	1.5	I	0.1	0.9	2.2	29.5	22.2	7.3
1997	50.1	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

D Data not disclosed.
NA Not available.
Note: Size ranges are given for employment cells that are suppressed. The size ranges are: A--1 to 499; F--500 to 999; G--1,000 to 2,499; H--5,000 to 9,999; I--10,000 to 49,999; L--50,000 to 99,999; M--100,000 or more.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, International Investment Division, *Foreign Direct Investment in the United States: Benchmark Survey* (various years), *Operations of U.S. Affiliates of Foreign Companies* (annual) and <http://www.bea.doc.gov>.

BIBLIOGRAPHY

This volume is the 32nd 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 1998 edition are now out of print, but copies can be consulted in the DBEDT Business Resource Center 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 l8th century.

Statistical abstracts have also been recently published for the counties of Hawaii, Maui and Kauai. The Hawaii County Department of Research and Development issued its *1999 County of Hawaii Data Book*, a 469 page compendium, in 2000. *Maui County Data Book 2000*, 193 pages, a joint production of the Maui County Office of Economic Development and the Hawaii Small Business Development Center Network Business Research Library, appeared in June 2000. *Statistical Abstract of the Kauai Economy, 1994 Edition* (80 pages), prepared by the Kauai County Office of Economic Development, appeared in September 1994.

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. Census Bureau, initiated in l878. The current edition is the 119th, dated 1999; 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. The ordering information and some of the publications may be viewed at the Internet site, http://www.census.gov.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1989 TO 1999

[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		
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	705	15.00	3/ 19.00	27,040.00	3,000
1997	679	711	18.00	4/ 22.00	17,140.00	1,500
1998	718	736	20.00	5/ 24.00	17,750.00	1,250
1999	6/	749	6/	6/	6/	6/

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/ U.S. Mainland price: $25.00 for Canada, $38.00 for Mexico, and $51.00 for all other countries.
5/ U.S. Mainland price: $27.00 for Canada, $40.00 for Mexico, and $53.00 for all other countries
6/ The *1999 State of Hawaii Data Book* was not printed. It is only available electronically.
Source: Hawaii State Department of Business, Economic Development & Tourism records.

ON-LINE AVAILABILITY OF DATA BOOK TABLES TO THE PUBLIC

Since 1996, the *Data Book* and other DBEDT publications and information have been made available at the Internet site, http://www.hawaii.gov/dbedt/. *Data Book* tables may be viewed or downloaded from this web site. Updates and revisions to the tables will also be accessible throughout the year on the DBEDT Internet 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.

INDEX TO THE STATE OF HAWAII DATA BOOK 1999

SUBJECT	TABLE NUMBERS
Abortions	2.03, 2.15
Accidents and fatalities (See also Deaths and death rates):	
Aircraft	2.17, 2.18
Boating or shipping	18.52
Catastrophic, by type	2.17, 2.18
Drowning	7.40
Fires	15.15
Hurricanes	2.17, 2.18, 5.40
Industrial	12.36, 12.37
Traffic	2.16-2.18, 18.20
Tsunamis (seismic sea waves)	2.17, 5.20
Adoptions	11.24
Advertising agencies	16.01
Agriculture (See also individual products):	
Business failures	15.29
Crops and livestock	19.01, 19.02, 19.04, 19.06-19.09, 19.12-19.16
Employees and earnings	12.11-12.14, 12.23, 19.03, 19.05, 19.19
Farms	19.01-19.03, 19.05, 19.07, 19.08, 19.13, 19.14-19.16, 20.02
Fertilizer	19.21
Foreign investment	24.09, 24.10
Irrigation	19.01, 19.02, 19.10
Land use and acreage	6.01-6.04, 6.09, 6.10, 19.01-19.03, 19.05, 19.07-19.10, 19.15, 19.18, 20.01, 20.02, 22.09
Prices	19.09
Production	19.01, 19.07-19.09, 22.09
Sales, shipments, receipts	19.01, 19.02, 19.04, 19.06-19.09, 19.11, 19.13, 19.14, 19.16, 19.17, 22.10
Taxes and tax base	19.20
Water use	5.22
Aid to families with dependent children	11.01-11.03
Air pollution. See Environment, Air pollution	
Air transportation:	
Accidents	2.17, 2.18
Aloha Airlines	18.34, 18.35
Carriers	18.29, 18.30, 18.32, 18.34
Cargo and mail	18.38-18.40, 18.62
Employees and earnings	18.34, 18.61
Establishments	18.61
Fares	7.26, 18.42-18.44
Flights	18.41

SUBJECT	TABLE NUMBERS
General aviation	18.28, 18.29, 18.30, 18.34
Hawaiian Airlines	18.34, 18.35, 18.43
Interisland	18.32, 18.37-18.40, 18.43
Mid-Pacific Airlines	18.34
Passengers	18.29, 18.37-18.39
Ranking	18.29, 18.36
Sales	18.61
Seat capacity	18.33
United Airlines	18.42, 18.44
Airports and heliports	18.28-18.31, 18.34, 18.38, 18.39, 18.41
Alcoholic beverages. See Liquor	
Aliens. See Citizenship or Immigration	
Altitude. See Elevation and altitude	
Ambulances	18.06, 18.08
Amusement. See Recreation	
Animals	5.49, 5.50, 7.57
Apparel and related products. See Textile and apparel industry	
Aquaculture	19.22, 19.23
Aquariums	7.38
Area, land and water	5.07-5.09
Armed forces:	
Airports and aircraft operations	18.28, 18.30
Civilian employment and payroll	10.04-10.08, 10.10, 10.19, 12.11, 12.13, 12.14
Contracts awarded	10.13-10.15
Cost of Living Allowances (COLA)	14.22, 14.23
Expenditures	9.37-9.39, 10.07, 10.08, 13.01
Land and land use	6.09, 10.17, 10.19
Nuclear weapons	10.16
Armed forces personnel and dependents:	
Active duty personnel	1.03, 1.20, 1.21, 10.01-10.06, 10.19
Armed forces dependents	1.03, 1.20, 1.21, 10.02-10.05
Births to military families	1.49, 2.02, 2.08
Branch of service	10.03, 10.05, 10.10, 10.11, 10.18-10.20, 10.23
Characteristics	1.21
Components of population change	1.49
Deaths	1.49, 2.02
Hawaii residents on active duty	10.01
Households and/or families	1.21, 10.02, 10.03
Housing	10.20
Location	10.06, 10.19
Migration	1.21, 1.49

SUBJECT	TABLE NUMBERS
National Guard	10.08, 10.09
Recruitment and registration	10.11, 10.12
Veterans and retired military	10.21, 10.23
War casualties	10.22
Astronomy	17.26
Automobiles. See Motor vehicles	
Aviation fuel	17.15-17.17
Bagasse	17.20
Bankruptcies	4.15, 4.16, 15.29
Banks	15.01-15.06
Beaches	5.15, 5.25, 5.26, 7.40, 7.41
Bicycles and bicycling	18.21
Biomass	17.01, 17.02, 17.05-17.07, 17.20
Bird counts	5.46, 5.47, 5.50
Births and birth rates:	
Armed forces personnel and dependents	1.49, 2.02, 2.08
Birth rates	2.01-2.03, 2.07
Births of mixed race	2.08
Births to non-residents	2.04
Births to single women	2.01, 2.05
Characteristics of infants	2.05
Characteristics of parents	2.04-2.06, 2.08
Components of population change	1.49, 1.50
First births	2.05
Names, most common	2.09, 2.10
Place of birth	1.02, 1.37, 2.04, 2.05
Blind persons	2.20, 9.31
Boating, canoeing, etc.	7.52
Boilers and pressure vessels	17.19
Books	16.18
Boxing	7.56
Bridges	18.04
Budgets	14.06, 14.07
Buses and bus service	18.06, 18.08, 18.24-18.26
Business climate (index)	15.26
Business enterprises (See also individual types of business and industry):	
Business failures	15.29
Employees and earnings	12.11-12.14, 12.23, 15.16-15.21
Employment-size class	15.16, 15.20, 15.21
Establishments	12.23, 15.16-15.21
Failures	15.29

SUBJECT	TABLE NUMBERS
Foreign-owned businesses. See Foreign investments	
Minority-owned	15.27
Ranked by sales	15.24
Sales	15.21, 15.23-15.25, 15.27, 15.28
Small businesses	15.16, 15.20, 15.21
Type of business	15.18, 15.19, 15.21-15.23
Women-owned	15.28
Business failures	15.29
Cable television	16.01, 16.02, 16.11
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	6.07, 9.31
Census designated places or urban places	1.11, 2.34, 13.14
Charities	11.30, 11.31
Children:	
Adoptions	11.24
Child abuse	4.08, 4.09, 11.26
Child care	2.33, 11.26, 11.28, 11.29
Child welfare payments and recipients	11.01-11.03
Foster care	11.25, 11.26
Poverty status	11.26, 13.19
Churches	1.48, 6.07, 9.31
Citizenship	1.37, 1.52
Civil service. See County, Federal, or State government	
Climate	
Daylight	5.43, 5.44
Humidity	5.33, 5.34, 5.37
Lahaina Noons	5.45
Rainfall	5.32-5.35, 5.37-5.39
Sunshine	5.33-5.37
Sunrise/sunset	5.43, 5.44
Temperature	5.32-5.38
Temperature, water	5.41, 5.42
Wind	5.33, 5.34, 5.37, 5.38, 5.40, 5.41
Clothing. See Textile and apparel industry	
Coal	17.01, 17.02, 17.05-17.07
Coastline. See Shoreline	
Coffee	19.07-19.09

SUBJECT	TABLE NUMBERS
Commerce	
Domestic	18.56-18.60, 24.01
Foreign. See Foreign trade.	
Collective bargaining	9.52, 12.40, 12.41
Common carriers. See Motor vehicles	
Communications industry (See also individual industries):	
Establishments	16.01, 16.02, 16.11, 16.12, 18.61
Employees and earnings	12.11-12.14, 12.23, 16.01, 16.02
Sales	16.18, 18.61
Computers	16.10, 23.41
Condominiums:	
Associations	21.09
Conversions	21.12
Price	21.25, 21.27-21.29
Projects	21.10-21.12
Sold or for sale	21.25, 21.27-21.29
Tenure	21.19
Timeshare properties	21.13
Units	21.10-21.13, 21.17-21.19, 23.33-23.35
Value	21.19
Visitor use	21.13, 23.33-23.35, 23.37
Construction industry:	
Building permits	21.01-21.03, 21.07
Business failures	15.29
Cost indexes	21.08
Demolitions	21.07
Employees and earnings	12.11-12.14, 12.23, 15.18, 15.19, 21.05, 21.06
Establishments	12.23, 15.18, 21.05, 21.06
Housing. See Housing as a separate heading	
Sales	21.05, 21.06
Taxes and tax base	9.26, 21.04
Value of construction	21.01-21.03, 21.05, 21.06
Consumer expenditures	13.21, 13.22
Consumer price index	7.26, 14.02-14.05
Conventions	7.13, 7.21
Corporations	15.21-15.25
Cost of living	14.06-14.23, 15.14
Cost of living allowances (COLA), Federal employees	14.21-14.23
County (See also County government):	
Agriculture	19.02, 19.05, 19.06, 19.08, 19.12, 19.14, 19.23, 20.02
Blind persons	2.20

SUBJECT	TABLE NUMBERS
Business enterprises	2.34, 15.17, 15.21, 16.09, 16.11, 16.12, 16.15, 17.18, 22.03, 23.05, 23.09, 23.18-23.23
Construction industry	21.01, 21.02, 21.07
Cost of living allowances (COLA)	14.22, 14.23
Crime and criminals	4.01, 4.02, 4.05, 4.07, 4.11, 4.13
Education	3.04, 3.09, 3.13, 3.19
Elections	8.04, 8.08, 8.12, 8.13
Employment and labor force	12.02, 12.08, 12.10, 12.13, 12.14, 12.22, 12.30
Energy	17.10, 17.12, 17.16, 17.18
Fires	15.15, 20.03
Geographic data	5.05, 5.07
Homeless	11.20-11.22
Housing	21.14, 21.15, 21.17-21.19, 21.28, 21.29
Income	13.08, 13.14, 13.15
Land and land use	1.18, 6.06, 6.07, 6.11, 21.32
Libraries	3.19, 3.20
Population	1.01, 1.06-1.10, 1.12, 1.13, 1.15, 1.16, 1.18, 1.19, 1.22, 1.26-1.31, 1.33, 1.50, 1.55
Public safety	4.13
Social Security	11.14, 11.15
Taxation	9.11-9.14, 9.24, 9.30, 9.35
Tourism	7.09, 7.10, 23.30, 23.32, 23.36, 23.39
Transportation	18.07-18.10, 18.12, 18.15, 18.17, 18.20, 18.22, 18.23
Vital statistics	1.50, 2.05, 2.15
Water use and consumption	5.23
Welfare services	11.01-11.11, 11.14,11.15
County government (See also Taxation or Public safety):	
Bond debt	9.41
Capital improvements expenditures	9.13, 9.14
Council	8.17
Employees and earnings	9.43, 9.44, 9.48, 9.49, 9.52, 12.11, 12.13, 12.14, 12.23, 12.40
Expenditures	9.13, 9.14
Land owned	6.05
Mass transit	9.13, 9.14, 18.24-18.26
Real property	6..07, 9.29-9.35
Retirement system	9.13, 9.14, 9.32, 9.43
State or Federal support	9.10, 9.11, 9.37-9.39
Tax collections and other revenues	9.01, 9.03, 9.11, 9.12
Courts	4.14-4.18, 9.44, 12.40
Credit unions	15.02-15.04, 15.07
Crime and criminals:	
Arrests	4.04-4.07
Burglary	4.01, 4.03, 4.06, 4.10, 4.11

SUBJECT	TABLE NUMBERS
Child abuse	4.08, 4.09
Court proceedings	4.15-4.18
Juveniles	4.07
Offenses	4.01-4.07
Parole	4.21
Prisoners	4.19, 4.20
Rate	4.02, 4.12
Ranking	4.12
Victims	4.01
Crude oil	17.17
Collective bargaining	12.40, 12.41
Cultural attractions	7.29-7.32
Dairy products. See Livestock and livestock products	
Dams	5.21
Deaths and death rates (See also Accidents and fatalities):	
Armed forces personnel and dependents	1.49, 2.02
Catastrophic mortality	2.17, 2.18
Cause	2.16-2.18, 2.22
Characteristics	2.15
Components of population change	1.49, 1.50
Death rates	2.01, 2.02, 2.15
Deaths of non-residents	2.04
Disposition of remains	2.19
Drownings	7.40
Fetal and infant deaths	2.01, 2.03, 2.15
Fires	15.15
Industrial	12.37
Names, most common	2.10
Place of death	2.04, 2.15
Traffic	18.20
Defense. See Armed forces	
Dentists	2.32, 2.33
Department stores. See Retail trade	
Diesel fuel	17.15, 17.16
Disability insurance	11.12-11.16
Disabled persons	2.20, 11.12-11.16, 11.19
Diseases	2.22, 2.30
Distances:	
Great circle	5.01
Highways	18.01
Districts. See "Judicial" districts	

SUBJECT	TABLE NUMBERS
Divorces	2.35-2.37, 2.39
Doctors, M.D.s. See Physicians and surgeons	
Dogs	7.57
Drivers licenses	18.15, 18.16
Duty Free Stores	23.12
Earthquakes	5.18, 5.19
Earnings (See also Employees and earnings under individual industries)	12.21-12.25, 12.27-12.33, 12.38
Eating and drinking places:	
Employees and earnings	12.23, 12.28, 15.18, 23.03, 23.07, 23.30, 23.31
Establishments	12.23, 15.18, 23.03, 23.07, 23.11, 23.30, 23.31
Sales and expenditures	23.03, 23.08, 23.11, 23.30, 23.31
Type of store	23.11
Economic development expenditures	9.13, 9.14
Education:	
Attainment	1.14, 1.21, 3.02-3.05
Board of Education	8.14
Consumer expenditures	13.21, 13.22
Employees and earnings	3.06, 3.07, 3.10, 9.44-9.47, 12.31, 12.40
Enrollment	3.01, 3.08-3.10
Government expenditures	9.07, 9.08, 9.10, 9.13, 9.14
Graduates	3.10, 3.14
Higher education institutions:	
Curricula	3.15
Degrees conferred	3.14, 3.16
Enrollment	3.13, 3.16
By campus (University of Hawaii)	3.13
Faculty and staff	3.15, 9.44-9.47, 12.40
Federal support	17.23, 17.24
Finances	3.15
Migration	3.17
Private	3.06, 3.07, 3.16
Residence	3.17
Sports	7.54
Tuition	3.15
Schools:	
Preprimary	3.01
Public elementary and secondary schools	3.01, 3.08, 3.09
Private elementary and secondary schools	3.06-3.08, 3.10, 6.07
Special Education	3.08, 3.09
Sports	7.55
Teachers	3.10

SUBJECT	TABLE NUMBERS
Test scores	3.11, 3.12
Taxation	6.07, 9.30
University of Hawaii	3.13-3.15, 3.20, 7.54, 9.44-9.53, 12.40, 16.18, 17.23, 17.26
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
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	8.07, 8.08, 8.16, 8.17
State government	8.06, 8.11, 8.13, 8.14, 8.16
Electricity:	
Capacity, production, and rates	17.06, 17.07, 17.09, 17.10, 17.13
Consumption	17.04, 17.09, 17.10, 17.13
Customers	17.09, 17.10, 17.13
Expenditures	17.08
Generation by source	17.06, 17.07
Price index	14.04, 14.05
Sales	17.04, 17.09, 17.10, 17.13
Elevation and altitude	5.11, 5.16
Elevators, escalators, and similar facilities	21.34
Employment and labor force (See also individual industries):	
Average pay and earnings. See Earnings	
Civilian labor force:	
Employed	12.01, 12.04, 12.07, 12.08, 12.16-12.18, 13.09
Ethnic origin and race	12.05
Occupations	12.15, 12.18, 12.31, 12.32
Participation rate	12.04
Part-time	12.17, 12.34
Sex	12.01-12.06, 12.17, 12.18
Unemployed	12.01, 12.02, 12.04, 12.07, 12.08, 12.09
Collective bargaining	9.43, 9.52, 12.38-12.41
Commuting	12.03
Defense. See Armed Forces	
Employees	12.21-12.23
Employment-size class	12.26, 15.16, 15.20, 15.21
Export-related	24.05-24.07

SUBJECT	TABLE NUMBERS
Family workers, unpaid	12.16, 19.03, 19.05
Foreign-owned firms	24.14, 24.17
Full time/part-time	12.17
Government	9.43-9.53, 12.11, 12.13, 12.14, 12.16, 12.21, 12.23-12.25, 12.38, 12.40
High technology	17.21
Hours	12.34
Illness	12.36
Industry groups	12.11-12.14, 12.23, 12.28
Jobcount	12.10, 12.11, 12.13, 12.14, 13.09
Labor unions and employee associations	9.52, 12.38-12.41
Migration	12.35
Minimum wage rates	12.33
Multiple job holders	12.19
Occupation	12.15, 12.18, 12.29-12.32
Place of work	12.20
Self-employed workers	12.16
Sex	12.01-12.06, 12.09, 12.17, 12.18
Strikes or work stoppages	12.42, 12.43
Unemployment or unemployed workers	12.01-12.04, 12.06-12.09, 12.35
Visitor related	7.25
Endangered and extinct species	5.50
Energy and power (See also Electricity and Utilities):	
Biomass	17.01, 17.02, 17.05-17.07, 17.20
Coal	17.01, 17.02, 17.05-17.07
Consumer price index	14.04, 14.05
Consumption	17.01-17.05, 17.09-17.16
End user	17.03
Expenditures	17.08
Geothermal energy	17.05-17.07
Hydroelectric energy	17.01, 17.02, 17.05-17.07
Natural gas	17.01, 17.02
Petroleum	17.01, 17.02
Sugar mills and other manufacturing industries	17.20
Wind	17.05-17.07
Entertainment. See Recreation	
Environment:	
Air pollution	5.28-5.31
Endangered species	5.50
Expenditures	9.07, 9.10
Hazardous substances	5.24
Marine Life Conservation Districts	20.09, 20.10

SUBJECT	TABLE NUMBERS
Ranking	5.24
Refuse and sewage	5.27
Water quality	5.25, 5.26
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	9.09, 9.11, 9.12, 11.18, 17.22, 17.24
Cost of living allowances (COLA)	14.21-14.23
Courts	4.14-4.16
Employees and earnings	9.43, 12.11, 12.13, 12.14, 12.21, 12.23-12.25
Expenditures	9.36-9.40, 13.01, 17.22-17.24
Land owned or leased	6.01, 6.05, 6.09, 10.17
Ranking	9.38, 9.40
Tax collections and other revenues	9.01, 9.02, 9.15-9.18
Fertility rate	2.07
Fertilizer and chemicals	19.21
Finance, insurance, and real estate (See also individual subjects):	
Assets and deposits	15.05-15.07, 15.11
Business failures	15.29
Employees and earnings	12.11-12.14, 12.23, 12.28, 15.02-15.04, 15.18-15.20
Establishments	12.23, 15.01-15.09, 15.11
Financial loan companies	15.01, 15.05
Foreign investments	24.15, 24.16
Revenue	15.04
Firefighters. See Public safety	
Fires	15.15
Fish & fishing	7.38, 7.48, 7.49, 20.04-20.10
Fishery conservation zone	5.06
Flowers and nursery products	19.07, 19.08, 19.15-19.17
Food:	
Consumer price index	14.04, 14.05
Consumption	14.07
Costs	14.18
Food products, manufacturing industry (See also Pineapple industry and Sugar industry):	
Employees and earnings	12.11, 12.13, 12.14, 12.23, 12.28, 15.18, 15.19, 22.04

SUBJECT	TABLE NUMBERS
Establishments	12.23, 15.18, 15.19
Value added	22.01-22.04
Food stamps	11.09-11.11
Football	7.53-7.55
Foreclosures	21.33
Foreign investment:	
Agriculture	24.09, 24.10
Employment	24.14, 24.16, 24.17
By country of investor	24.11-24.14
Hotels	24.10
Japanese	24.11-24.14
Real property	24.10-24.12
Type of investment	24.10, 24.15-24.17
Foreign trade:	
Exports	17.17, 18.57, 18.58, 19.17, 24.08
Imports	17.17, 18.57, 18.58, 19.11, 24.01-24.04
Foreign-Trade Zone	24.05
Forests and forest products	20.01-20.03
Fruits (See also individual products)	19.07-19.09, 19.11
Fuel (See also individual types)	
Consumer price index	14.04, 14.05
Consumption	17.01-17.05, 17.15, 17.16, 17.20, 18.17
Expenditures	17.08
Shipments	17.17
Taxes and tax base	17.15, 17.16
Garment industry. See Textile and apparel industry	
Gas utilities:	
Consumer price index	14.04, 14.05
Consumption, production and rates	17.11, 17.12, 17.14
Customers	17.11, 17.12, 17.14
Sales	17.11, 17.12, 17.14
Gasoline:	
Consumption	18.17
Gasoline service stations and garages	17.18, 23.06-23.08
Taxes and tax base	17.15, 17.16
Geographic data (See also Census designated places or urban places or Land and land use or Water):	
Area	5.07-5.09
Beaches	5.15
Channels	5.04
Distances	5.01
Earthquakes	5.18, 5.19

SUBJECT	TABLE NUMBERS
Elevation	5.11, 5.16
Hurricanes	5.40
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
Tsunami	5.20
Volcanic craters	5.10
Volcanic eruptions	5.17
Waterfalls	5.12
Geothermal energy	17.05-17.07
Golfing and golf courses	7.43-7.46
Gross state product	10.07, 13.02-13.04, 13.09, 14.01
Group quarters. See Population, Group quarters	
Hansen's disease	2.22, 2.30, 9.23
Harbors	18.45-18.47, 18.53, 18.56-18.60
Hawaiian Affairs, Office of	8.13
Hawaiian Home Lands, Hawaii State Department of	6.10, 9.31
Health insurance	11.18, 15.10, 15.12, 15.13
Health services (See also Hospitals and health care facilities):	
Chronic conditions	2.21
Consumer price index	14.04, 14.05
Employees and earnings	2.33, 2.34, 12.11-12.14, 12.23, 15.18, 15.19
Establishments	2.33, 2.34, 12.23, 15.18, 15.19, 23.21
Expenditures	13.21, 13.22, 14.07
Health risk	2.23
Hospitals and health care facilities	2.24-2.31, 2.33, 2.34
Medical payments	11.18
Nursing homes	2.24- 2.27, 2.33, 2.34
Occupations	2.32, 12.31, 12.32
Sales	2.33, 2.34
High technology	17.21
Highways and streets:	
Bridges and tunnels	18.04, 18.05
Distances	18.01
Government expenditures	9.07, 9.08, 9.10, 9.13, 9.14
Miles and mileage	18.02, 18.03
Traffic	18.18, 18.19
Historic sites	7.34, 7.36
Homeless. See Housing	

SUBJECT	TABLE NUMBERS
Hospitals and health care facilities:	
Beds	2.24, 2.26, 2.29, 2.31
Facilities	2.24, 2.26, 2.31, 2.33, 2.34
Government expenditures	9.07, 9.08, 9.10
Occupancy rate	2.25, 2.27
Patients admitted	2.25, 2.27-2.29, 2.31
Ranking	2.31
Taxation	6.07, 9.31
Hotels:	
Condominiums for visitor use	21.13, 23.33-23.35, 23.37
Construction	21.02
Employees and earnings	12.11, 12.13, 12.14, 12.23, 12.28, 12.31, 15.18, 23.30, 23.31
Establishments and properties	12.23, 15.18, 23.30, 23.31, 23.33-23.36
Foreign investment	24.10
Land use	6.02
Occupancy rates	23.38, 23.39
Room rates	7.26, 23.37-23.39
Sales	23.30, 23.31, 23.40
Taxes and tax base	9.03, 9.09, 9.33, 9.35, 23.40
Units	23.32-23.35, 23.38
Households or families:	
Age of householder	1.42
Average size	1.02, 1.14, 1.39-1.43
Budgets and expenditures	13.21, 13.22, 14.06, 14.07
Characteristics (Household or family type)	1.39, 1.45
Homeless	11.20-11.22
Income	1.14, 1.21, 7.25, 13.10-13.17
Number of	1.14-1.16, 1.21, 1.39-1.43
Persons in households or families	1.02, 1.14, 1.39-1.43
Poverty level	1.21, 13.14, 13.15
Tax burden	9.04
Television households	16.13, 16.14
Visitor-related income	7.25
Welfare services	11.04-11.06
Housing (See also Condominiums and Households):	
Apartments	21.09, 21.18
Armed forces	10.20
Building permits	21.02, 21.03, 21.07
Characteristics	21.15, 21.17, 21.18
Consumer expenditures	13.21, 13.22
Consumer price index	14.04, 14.05
Demolitions	21.07

SUBJECT	TABLE NUMBERS
FHA insured	21.30
Government	9.10, 21.22
Homeless	11.20-11.22
Land ownership	21.14
Occupied units	21.14, 21.15, 21.17-21.19
Motor vehicles	18.10
Plumbing	21.17
Prices of homes	21.24-21.27, 21.29, 21.30
Public housing	21.22
Rental costs	14.09, 21.15, 21.17, 21.18
Sold or for sale	21.24-21.29
Taxation	9.31, 9.32, 9.34, 9.35, 21.14
Telephone	21.17
Tenure (owner or renter-occupied)	21.15, 21.17-21.19
Units	1.41, 1.42, 6.02, 21.12, 21.15-21.18
Vacancies	21.15, 21.19, 21.20
Housing and Community Development Corporation of Hawaii	21.22
Hunting	7.47-7.49
Hurricanes	2.17, 2.18, 5.40
Hydroelectric power	17.01, 17.02, 17.05-17.07
Illness (See also Deaths and death rates and Disease):	
Acute and chronic conditions	2.21
Occupational	12.36
Immigration:	
Aliens	1.50, 1.51
Countries	1.51, 1.52
Implicit price deflator	7.26, 14.01
Imports. See Foreign trade	
Income:	
Corporations	15.23-15.25
Disposable personal	13.05
Export industries	13.01
Family or household	1.14, 1.21, 13.10-13.17
Farm	13.06
Gross state product	13.02-13.04
By industry	13.04
Labor	13.06, 13.09
Median	1.21, 13.10-13.16
Nonfarm	13.06
Per capita	13.05, 13.07-13.09, 13.17
Percent of U.S. average	13.05, 13.08

SUBJECT	TABLE NUMBERS
Personal	13.05-13.09
Poverty	1.21, 13.14, 13.15, 13.18-13.20
Ranking	13.11, 13.13
Sex	13.10
Unrelated individuals	13.10
Indexes:	
Construction cost index	21.08
Consumer price index	7.26, 14.02-14.05
Implicit price deflator	7.26, 14.01
Industrial parks	22.07
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	15.02-15.04
Establishments	15.02-15.04, 15.08, 15.09, 15.11
Health insurance	11.18, 15.10, 15.12, 15.13
Investments in Hawaii	15.08, 15.11
Life insurance	15.09-15.11
Motor vehicles	15.10, 15.14
Premiums	15.08-15.11
Sales	15.04
Taxes	9.26
Internet	16.10
Interstate trade	18.56-18.60, 18.62, 19.11, 24.01
Investments:	
Foreign investments	24.09-24.17
Insurance companies	15.08, 15.11
Island:	
Agriculture	19.05, 19.06, 19.11, 19.12, 19.14, 19.15, 19.18, 22.08
Armed forces	10.03, 10.17
Boilers	17.19
Business	15.01, 16.09, 17.18, 23.43
Charities	11.30
Education	3.13, 3.20
Elections and elected officials	8.09
Elevators	21.34
Employment and labor force	12.08
Energy	17.07, 17.10, 17.12, 17.20
Environment	5.25, 5.26, 5.50
Fish & fishing	20.07

SUBJECT	TABLE NUMBERS
Forest	20.01
Geographic data	5.05, 5.08, 5.11-5.16
Health care	2.26, 2.27, 2.32
Housing	21.13
Industrial parks	22.07
Land and land use	1.09, 6.04, 6.05, 6.10, 10.17, 19.18
Manufacturing	22.08
Pets	7.57
Population	1.05, 1.08, 1.09, 1.11, 1.43, 1.54
Postal service	16.03
Recreational facilities	7.31, 7.34, 7.36, 7.39, 7.41-7.43, 7.47
Structures (tallest)	21.35
Telephone service	16.09
Tourism	7.09, 7.10, 23.34, 23.37, 23.39
Transportation	18.01, 18.02, 18.04, 18.21, 18.28, 18.45, 18.46, 18.48, 18.49
Water use and consumption	5.22
Welfare services	11.01-11.11
Wildlife	7.47
Jobcounts. See Employment and labor force	
"Judicial" districts	1.10, 1.15, 1.16
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	1.18, 6.03, 6.04
Land use districts	6.03, 6.04
Deeds filed	21.31
Ownership:	
Armed forces	6.09, 10.17
Government	6.01, 6.05, 6.09-6.11
Hawaiian Home Lands, Hawaii State Department of	6.10
Private/fee simple	6.05, 6.08
Parcels	6.06
Real property assessment	9.29, 9.30, 9.32, 9.33, 24.10
Utilization	6.01-6.04, 19.18
Agriculture	19.01-19.03, 19.05, 19.07-19.10, 19.15, 20.01. 20.02, 22.09
Vacant	21.25
Value of land transfers	21.32
Languages spoken at home	1.38

SUBJECT	TABLE NUMBERS
Lawyers and judges	4.14
Legal services	23.19, 23.24
Legislature, State (See also State government)	8.16, 8.18, 8.19
Libraries	3.06, 3.18-3.20
Life expectancy	2.11-2.14
Lighthouses	18.49
Liquefied petroleum gas	17.16, 17.17
Liquor	9.28, 23.13, 23.14, 23.17
Livestock and livestock products	19.01, 19.02, 19.04, 19.06, 19.12-19.14
Loans and mortgages (See also Assets and deposits under Finance, insurance and real estate):	
Federal Housing Administration	21.30
Foreclosures	21.33
Macadamia nuts	19.07-19.09
Manufacturing industry (See also individual industries):	
Business failures	15.29
Capital expenditures	22.01-22.04
Cost of materials	22.01-22.04
Employees and earnings	12.11-12.14, 12.23, 12.28, 15.18, 15.19, 22.01-22.05, 24.07, 24.17
Establishments	12.23, 15.18, 15.19, 22.01-22.05, 24.06
Exporters	24.06, 24.07
Foreign investment	24.15-24.17
Sales	22.01-22.04, 22.06, 22.08, 22.10
Taxes and tax base	9.26, 22.06
Value added and value of shipments	22.01-22.04, 24.07
Marital status of population. See Population, Marital status	
Marriages	2.35-2.39
Mass transit	9.11-9.14, 18.24-18.26
Medicaid and Medicare	11.18
Medical care. See Health services	
Medical payments. See Health services	
Mental health facilities	2.28, 2.29, 2.33
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	12.33
Mining and mineral products	15.18, 15.19, 15.29, 20.11, 20.12
Molasses	22.09, 22.10
Morbidity. See Deaths and death rates	
Mortgages. See Loans and mortgages	

SUBJECT	TABLE NUMBERS
Motion pictures	16.02, 23.42-23.44
Motor vehicles. (See also Highways and streets):	
Accidents/deaths	2.16-2.18, 18.20
Carriers	18.23
Dealers	23.06, 23.08, 23.14
Drivers licenses	18.15, 18.16
Fuel consumption	18.17
Housing units	18.10
Insurance	15.10, 15.14
Miles of travel	18.17
New vehicles	18.12-18.14
Registration	18.06-18.09, 18.12-18.14
Rental and leasing	18.14, 18.22
Taxes	9.03, 9.11, 18.09
Theft	4.01, 4.03, 4.06, 4.10, 4.11
Vehicle miles	18.17
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	7.31, 7.32
Names, most common	2.09, 2.10
National Guard	10.09
Natural disasters	5.17-5.20, 5.40
Natural gas	17.01, 17.02
Naturalization. See Citizenship	
Neighborhood/Neighborhood Boards	1.14, 21.16
Newspapers and periodicals	16.01, 16.02, 16.15-16.17, 22.05
Nurses	2.32, 12.29-12.32
Nursing homes	2.24-2.27, 2.33
Occupational injuries, deaths, and illnesses	12.36, 12.37
Occupations	12.15, 12.18, 12.29-12.32
Office buildings	21.21
Parks	7.33-7.35, 7.39, 7.40
Partnerships	15.21-15.23
Passports issued	7.28
Patents issued	17.25
Pay rates. See Earnings	
Performing arts	7.29, 7.30
Personal income. See Income, Personal	
Pesticides and herbicides	19.21
Petroleum and petroleum products (See also individual products):	

SUBJECT	TABLE NUMBERS
Consumption	17.01, 17.02, 17.05, 17.15, 17.16, 18.17
Electricity generation	17.06, 17.07
Employees and earnings	22.05
Liquefied petroleum gas	17.15, 17.16
Shipments	17.17
Taxes and tax base (gallons sold)	17.15, 17.16
Wholesale trade	23.17
Pharmacists	2.32
Physicians and surgeons	2.32, 2.33
Piers	18.48
Pilots, flight instructors, and nonpilot airmen	18.34
Pineapple industry:	
Acreage	19.01, 19.07, 19.08
Employees and earnings	19.19
Establishments and farms	19.01, 19.07, 19.08, 22.08
Fresh pineapple industry	13.01, 22.10
Processed pineapple industry	9.18, 13.01, 22.08, 22.10
Production volume	19.01, 19.07, 19.08, 22.08
Sales	19.04, 19.06-19.08, 22.10
Taxes and tax base	9.26
Value of production	13.01
Place of work. See Employment and labor force	
Political parties	8.07, 8.08, 8.16, 8.17
Plants	5.49
Political parties	8.07, 8.08, 8.16, 8.17
Population (See also Vital statistics):	
Age	1.02, 1.21, 1.23-1.28
Ancestry	1.35
Armed forces personnel and dependents. See Armed forces personnel and dependents	
Centers	1.19
Citizenship	1.37, 1.54
Components of change	1.49, 1.50
De facto	1.04, 1.07-1.09, 1.17
Density	1.09
Disabled persons	2.20, 11.13, 11.14, 11.19
Ethnic origin and race:	
Ancestry	1.35
By ethnic stock	1.29-1.36, 2.11, 12.05
Hispanic origin	1.21, 1.29, 1.32, 1.33, 1.36, 12.05
Life expectancy	2.11
Native Hawaiian	

SUBJECT	TABLE NUMBERS
Place of residence	1.34
Geographical location:	
Census designated places	1.11
Census tracts	1.15, 1.16
Counties or islands	1.01, 1.05-1.13, 1.15, 1.16, 1.18, 1.19, 1.22, 1.26-1.31, 1.33, 1.43, 1,50, 1.54, 1.55
"Judicial" districts	1.10, 1.15, 1.16
Neighborhoods/Oahu	1.14
Group quarters	1.39, 1.40, 1.44
Households and/or families. See Households or families	
Language spoken	1.38
Marital status	1.45-1.47, 2.15
Migration	1.21, 1.49-1.55, 3.17, 7.05, 12.35
Military status. See Armed forces personnel and dependents	
Mobility. See Population, Migration	
Nativity	1.51
Post-enumeration survey	1.12
Poverty status population	1.21, 13.18-13.20
Projections	1.22, 1.23
Ranking	1.13
Residence:	
Five years earlier	1.21, 1.53
Residents absent	1.04, 1.17
Sex	1.02, 1.21, 1.23-1.28
Total	1.03, 1.04, 1.20, 13.02, 13.05, 13.06
Urban and rural	1.02, 1.18
Postal service	16.03, 16.04, 16.17
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	12.11, 12.13, 12.14, 16.01, 16.02, 16.16, 16.18, 22.04, 22.05
Prisons and prisoners	4.19-4.21
Projections	1.22, 1.23, 13.09
Property tax. See Taxation	
Proprietorships	15.21, 15.23
Psychiatric facilities. See Mental health facilities	
Public assistance. See Welfare services	
Public safety:	
Expenditures	9.07. 9.08, 9.10, 9.13, 9.14
Firefighters	9.44, 9.45, 9.48, 9.49

SUBJECT	TABLE NUMBERS
Police personnel	4.13, 9.44, 9.45, 9.48, 9.49
Quality of life index rankings	11.32
Race. See Population, Ethnic origin and race	
Radio stations	16.01, 16.02, 16.12
Railroads	18.27
Rankings:	
Armed forces	10.12, 10.16
Business	15.26
Cost of living	13.22, 14.08-14.10, 14.16, 14.17, 14.20
Crime and criminals	4.12
Economic development	15.26
Education	3.05
Employment and labor force	12.27
Federal expenditures	9.38, 9.40
Health care	15.13
Income	13.11, 13.13
Insurance	15.13, 15.14
Population	1.13
Quality of life index rankings	11.32
Real property	9.34
Tax burden	9.04-9.06, 9.34
Transportation	15.14, 18.29, 18.36
Real estate business (See also Finance, insurance and real estate)	15.02, 15.18, 15.19, 15.29, 21.23
Real property (See also Housing and Land and land use):	
Housing. See Housing as a separate heading	
Multiple Listing Service	21.24-21.29
Type of property	21.25
Office buildings	21.21
Real property taxes. See Taxation	
Recreation (See also individual sports):	
Attendance or visits	7.29-7.35, 7.37, 7.40, 7.44, 7.45, 7.53-7.56
Beaches	7.40, 7.41
Camping	7.45
Consumer expenditures	13.21, 13.22
Consumer price index	14.04, 14.05
Cultural attractions and the performing arts	7.29-7.32
Ocean recreation	7.40, 7.41, 7.52
Parks	7.33-7.35, 7.39, 7.40
Sports	7.41-7.56
Refugees. See Immigration	
Refuse. See Solid waste	

SUBJECT	TABLE NUMBERS
Religion	1.48
Rent. See Housing and housing units	
Rental tax base	9.26, 23.40
Research and development expenditures	17.22-17.24
Reservoirs	5.14
Restaurants. See Eating and drinking places	
Retail trade (See also individual industries):	
Business failures	15.29
Department stores	23.08
Duty Free Stores	23.12
Employees and earnings	12.11-12.14, 12.23, 12.28-12.31, 15.18, 15.19, 23.03-23.07, 23.41
Establishments	12.23, 15.18, 15.19, 23.02-23.07, 23.11, 23.14, 23.41
Foreign investment	24.15, 24.16
Sales	23.02-23.06, 23.08, 23.41
By merchandise line	23.14
Shopping centers	23.09, 23.10
Taxes and tax base	9.26, 23.01
Type of store	23.06-23.08, 23.14
Retirement system	9.10, 9.11, 9.13, 9.14, 9.43, 11.12-11.16, 11.23
Rivers. See Streams	
Running/Jogging	7.50, 7.51
Salaries. See Earnings or Employees and earnings under individual industries	
Savings and loan associations	15.01-15.05
Schools. See Education	
Service industries (See also individual industries):	
Business failures	15.29
Employees and earnings	12.11-12.14, 12.23, 15.18, 15.19, 23.19-23.31
Establishments	15.18, 15.19, 23.19-23.31
Sales	23.19-23.31
Taxes and tax base	9.26, 23.01
Type of industries	23.19-23.31
Sewage and sewage treatment plants	5.27
Shopping centers	23.09, 23.10
Shoreline	5.05, 7.41
Social Security	11.12-11.17, 13.17
Solar energy	17.05-17.07
Solid waste	5.27, 17.05-17.07
Sports. See Recreation and individual sports	
State government (See also Elections or Public safety or Taxation):	
Aid to counties	9.10, 9.11

SUBJECT	TABLE NUMBERS
Bonded debt	9.41, 9.42
Capital improvements expenditures	9.10
Courts	4.14, 4.17, 4.18
Debt service	9.10
Employees and earnings	9.43-9.47, 9.50-9.53, 12.11, 12.13, 12.14, 12.23, 12.40
Expenditures	9.07, 9.08, 9.10
Federal support	9.09, 9.37-9.39, 17.22-17.24
Land and land use	6.05, 6.10, 6.11
Legislature	8.16, 8.18, 8.19
Retirement system	9.10, 9.43, 11.23
Tax collections and other revenue	9.01, 9.03, 9.07, 9.09, 9.19, 9.22-9.28
Streams	5.13
Streets. See Highways and streets	
Strikes and lockouts (work stoppages)	12.42, 12.43
Structures	21.35
Age	6.02
Tallest	21.35
Sugar industry:	
Acreage	19.01, 19.07, 19.08, 19.10, 22.09
Employees and earnings	19.19
Establishments and farms	19.01, 19.07, 19.08, 22.08
Irrigation	19.10
Plantation energy	17.20
Processed sugar industry	13.01, 22.08, 22.09, 22.10
Production volume	19.01, 19.07, 19.08, 22.09
Sales	19.04, 19.06-19.08, 22.10
Taxes and tax base	9.26
Value of production	13.01
Suicides	2.16
Symphony orchestra	7.30
Swimming or surfing	7.40, 7.41
Taro	9.31, 19.07-19.09
Taxes (See also individual sources):	
Adjusted gross income on tax returns	9.15, 9.16, 9.19, 9.22-9.24
Collections by source	9.02, 9.03, 9.07-9.09, 9.26
Corporate income tax	9.02, 9.03, 9.07-9.09
County taxes	9.01, 9.03, 9.11, 9.12, 9.29-9.35
Exemptions	6.07, 9.15, 9.30, 9.31, 21.14
Federal taxes	9.01, 9.02, 9.15-9.18
General excise and use tax	9.03, 9.06, 9.08, 9.09, 9.26, 19.20, 21.04, 22.06, 23.01, 23.40
Hotel	9.03, 9.09, 9.26, 23.40
Income group	9.16, 9.22

SUBJECT	TABLE NUMBERS
Individual income tax	9.02, 9.03, 9.07- 9.09, 9.15-9.24
Liquid fuel tax	9.03, 9.12, 17.15, 17.16
Liquor and tobacco tax	9.03, 9.12, 9.27, 9.28
Motion picture production	23.44
Motor vehicles	18.09
Ranking	9.04-9.06, 9.34
Real property tax	6.07, 9.03, 9.11, 9.12, 9.29-9.35
Sources of income	9.20, 9.21
State taxes	9.01, 9.03, 9.07-9.09, 9.19, 9.22-9.24, 9.26
Tax burden	9.04-9.06
Tax credits	9.25
Tax returns filed	9.15-9.19, 9.22-9.24
Unemployment	9.02, 9.03, 9.09
Visitor related	7.25
Taxicabs	18.21
Teachers. See Education	
Telephones and telephone service	16.01, 16.02, 16.05-16.10
Telescopes	17.26
Television and television stations	16.01, 16.02, 16.11-16.14
Temperature, climatic. See Climate	
Tennis	7.42
Textile and apparel industry	12.11, 15.18, 15.19, 22.04, 23.06-23.08, 23.14, 23.17
Theaters and theater groups	7.29, 9.26
Time differences	5.03
Timeshare properties. See Condominiums	
Tobacco and tobacco products	9.27, 23.14
Tour bus operations	23.29
Tourism:	
Attractions	7.31-7.38
Characteristics of visitors	7.01, 7.03, 7.11, 7.13, 7.14, 7.17, 7.21
Conventions	7.13, 7.21
Economic activity generated	7.24, 7.25
Expenditures:	7.16, 7.18-7.25, 13.01
Japanese	7.16, 7.18, 7.20, 7.21, 7.23
Per visitor day	7.18-7.21
Hawaii residents	7.01-7.03, 7.05, 7.27
Passenger or visitor arrivals:	
Average visitor census	1.04, 1.17, 7.06, 7.09
Origin of visitors:	
By points of origin:	
International	7.04-7.11, 7.13-7.15
Domestic	7.02, 7.04-7.15

SUBJECT	TABLE NUMBERS
Prices	7.26
Timeshare projects. See Condominiums, Timeshare properties	
Visitor days	7.08
Visitor parties	7.05, 7.14
Visitors, Japanese	7.07, 7.16, 7.18, 7.20, 7.21, 7.23
Trade. See Interstate trade, Foreign trade, Retail trade, or Wholesale trade	
Traffic	18.18, 18.19
Traffic accidents	2.16-2.18, 18.20
Trailers	18.06, 18.08
Transportation (See also individual modes):	
Arrangement of passenger transportation	23.29
Business failures	15.29
Commuting	12.03
Consumer expenditures	13.21, 13.22, 14.07, 15.14
Consumer price index	14.04, 14.05
Employees and earnings	12.11-12.14, 12.23, 15.18, 15.19, 18.61, 23.29
Energy consumption	17.03
Establishments	12.23, 15.18, 15.19, 18.61, 23.29
Mass transit	9.11-9.14, 18.24-18.26
Sales	18.61, 23.29
Travel. See Tourism	
Travel agencies and tour operators	23.29
Trains	18.27
Trees (See also Forests and forestry products)	5.48
Triathlon races	7.51
Trucks	18.06, 18.08, 18.11, 18.14, 18.61, 18.62
Trust companies	15.01, 15.05
Tsunamis (seismic sea waves)	5.20
Tunnels, highway	18.05
Undocumented vessels	18.50
Unemployment	12.01-12.04, 12.06-12.09
Characteristics	12.09
Rate	12.01, 12.02, 12.04, 12.06-12.08
Unemployment insurance	11.27, 12.09
Unions	9.52, 12.38-12.41
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, 17.08-17.14
Customers	17.09-17.14
Employees and earnings	12.11-12.14, 12.23

SUBJECT	TABLE NUMBERS
Establishments	12.12-12.14, 12.23, 12.28
Rates	16.08, 17.09-17.13
Sales	16.07, 16.09, 17.09-17.14
Government expenditures	9.07, 9.08, 9.10
Taxation	9.31
Water consumption	5.22, 5.23
Vacancy rates. See Housing or Office buildings	
Vegetables and melons	19.01, 19.07-19.09, 19.11
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 or Deaths and death rates):	
Births	1.49, 1.50, 2.01-2.08
Deaths and death rates	1.49, 1.50, 2.01-2.04, 2.15-2.19, 12.37, 15.15, 18.20
Life expectancy	2.11-2.14
Marriages and divorces	2.35-2.39
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, 5.42
Warehouses	18.61
Water (See also Geographic data):	
Area, inland water	5.07, 5.13, 5.14
Dams	5.21
Recreation	7.40, 7.41, 7.48, 7.49, 7.52
Pollution	5.25, 5.26
Safety	7.40
Temperature	5.41, 5.42
Use and consumption	5.22, 5.23
Water quality	5.25, 5.26
Water transportation:	
Accidents	18.52
Boat and ship registration	18.50, 18.51
Cargo and freight	18.54, 18.56-18.60, 18.62
Employees and payroll	18.61
Establishments	18.61
Harbors	18.45-18.47, 18.53, 18.56-18.60

SUBJECT	TABLE NUMBERS
Moorages	18.48
Passengers	18.55
Sales	18.61
Ship arrivals	18.53-18.55
Waterfalls	5.12
Wealth. See Millionaires and Wealthholders	
Welfare services (See also individual programs):	
Expenditures	9.07, 9.08, 9.10, 9.13, 9.14
Payments and recipients	11.01-11.11
Public housing	21.22
Wholesale trade (See also individual industries):	
Business failures	15.29
Employees and earnings	12.11-12.14, 12.23, 12.28, 15.18, 15.19, 23.16, 23.17, 23.41
Establishments	12.23, 15.18, 15.19, 23.15-23.18, 23.41
Sales	23.15-23.18, 23.41
Taxes and tax base	9.26, 23.01
Type of business	23.17
Wildlife	7.47, 7.49
Wind (See also Climate):	
Energy source	17.05-17.07
Wine. See Liquor	
Work stoppages. See Strikes and lockouts	
Workers' compensation program	12.36, 12.37
Zoos	7.37