

THE STATE OF HAWAII

DATA

BOOK

1995

A STATISTICAL ABSTRACT

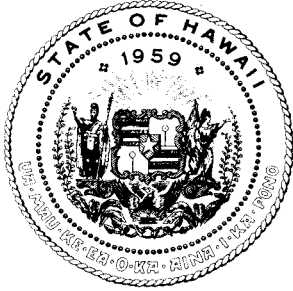
DBEDT

THE DEPARTMENT OF BUSINESS, ECONOMIC DEVELOPMENT & TOURISM

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

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This report has been cataloged as follows:

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

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

Annual.

None published for 1969.

1972 edition accompanied by supplement.

Continues same series under Department's earlier names.

1. Hawaii-Statistics. I. Data Book.
HA4007.H356.1995

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This report has been produced by the DBEDT 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, Hans Meyer, Jan Nakamoto, Mary E. Blewitt, Michele Nakamura, and Darcie Hayashikawa. The Index was prepared by the staff of the Business Resource Center - Library. The updates and additions to the Data Book were typed and proofread by Helen T. Nagafuchi, Charlotte N. L. Chow, Jolly I. Ige, Kenoilani E. M. Koli, and Michelle L. A. Fernandez. Stewart A. Wastell, illustrator in the Office of State Planning, drew the district and neighborhood maps. Printing arrangements were handled by the DBEDT's Communications and Publications Office.

Copies of this report are available from the DBEDT Research and Economic Analysis Division, 250 South Hotel Street, 4th floor, P. O. Box 2359, Honolulu, Hawaii 96804. The price per copy is \$15.00 in Hawaii, \$19.00 air-mailed postpaid to the Mainland United States, \$21.00 air-mailed postpaid to Canada, \$28.00 air-mailed postpaid to Mexico, and \$48.00 air-mailed postpaid to all other countries. Diskettes are also available at \$15.00 each in Hawaii, \$16.00 air-mailed postpaid to Mainland United States, Canada, and Mexico, and \$17.00 air-mailed postpaid to all other countries. Please make check or money order payable to **The State of Hawaii**.

ABOUT THIS BOOK

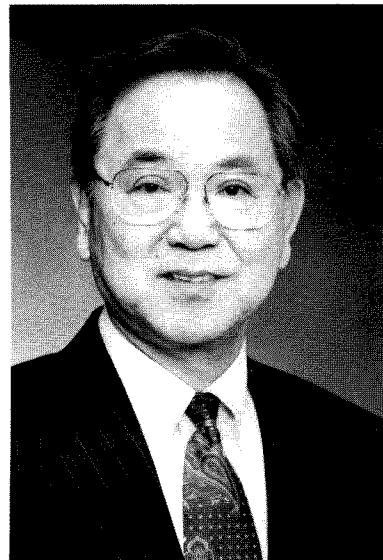
The Department of Business, Economic Development & Tourism is pleased to present the 1995 edition of the *State of Hawaii Data Book*, the official summary of statistics on the social, economic, and political organization of our state.

This publication, the 28th in the series, closely follows the organization and format of its counterpart, the *Statistical Abstract of the United States*, to facilitate comparison of state and national data. It places the major emphasis on statewide data and less so on counties, islands, urban places, and smaller areas. Source references for additional statistical detail are provided in the introductions to the sections and at the end of each table.

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



Benjamin J. Cayetano
Governor of Hawaii



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

STATE OF HAWAII

COUNTIES and DISTRICTS

KURE ATOLL

MIDWAY ISLANDS

PEARL AND HERMES ATOLL

LISIANSKI ISLAND

LAYSAN ISLAND

MARO REEF

GARDNER PINNACLES

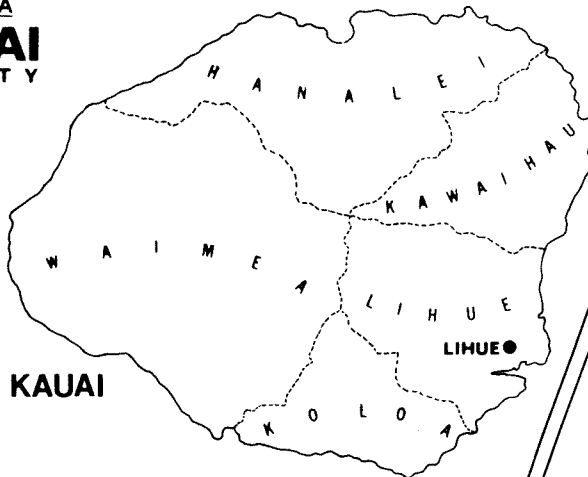
NOTE: *The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession) are part of the Honolulu District.*

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

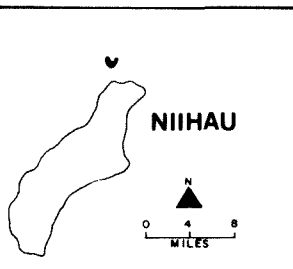
FRENCH FRIGATE SHOALS

NECKER ISLAND

INSET A KAUAI COUNTY



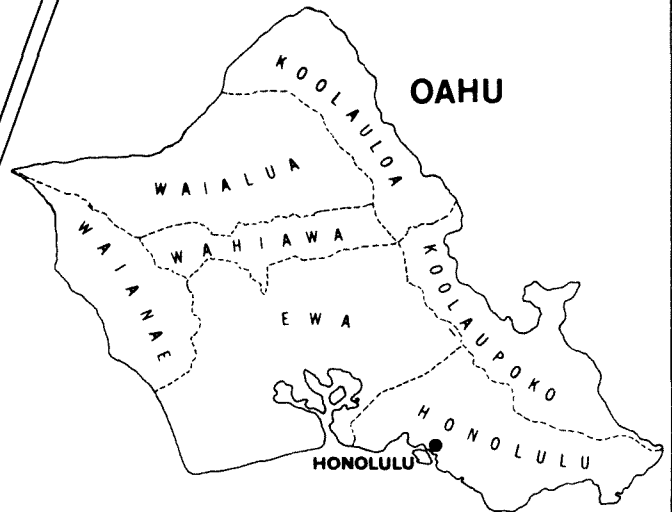
KAUAI



NIIHAU



INSET B HONOLULU CITY AND COUNTY



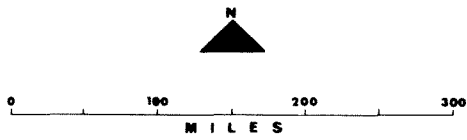
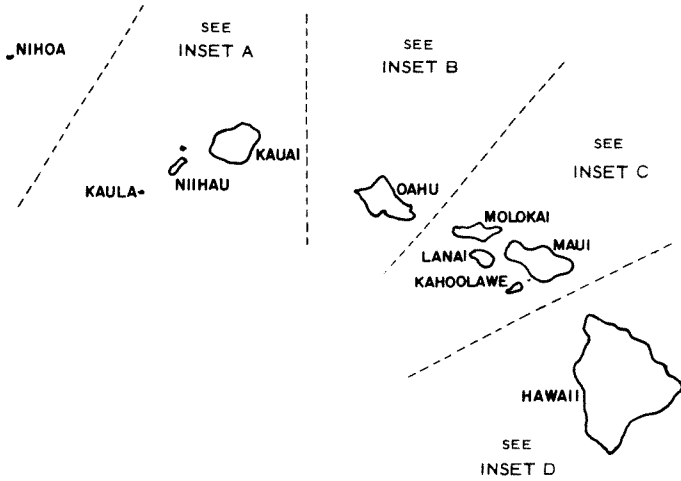
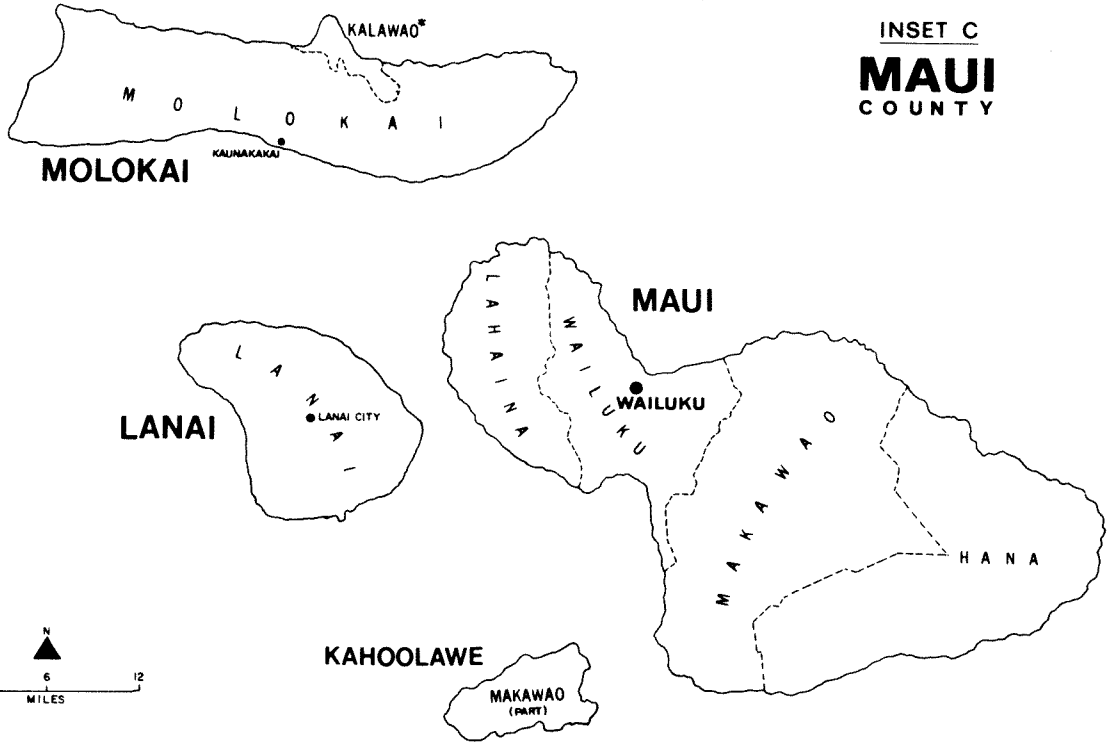
OAHU

HONOLULU



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

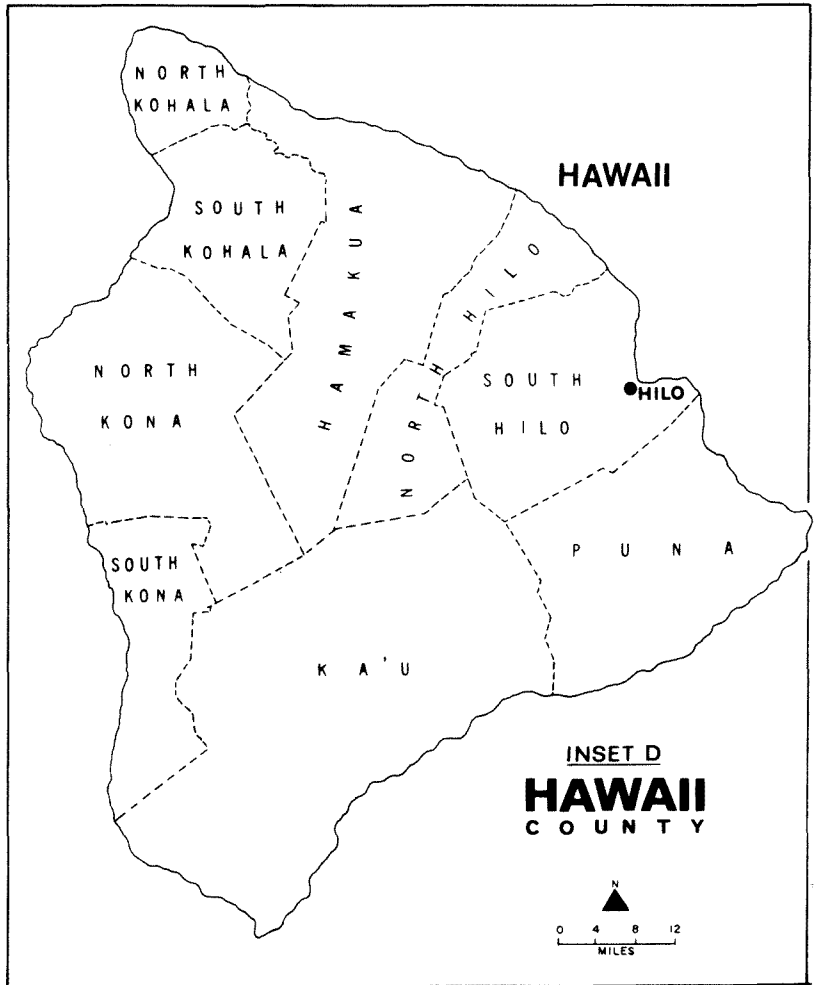
**INSET C
MAUI
COUNTY**



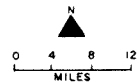
STATE OF HAWAII

DEPARTMENT OF BUSINESS, ECONOMIC
DEVELOPMENT & TOURISM

1991



**INSET D
HAWAII
COUNTY**



GUIDE TO TABULAR PRESENTATION

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

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

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

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

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

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

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

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

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

UNITED STATES AND METRIC WEIGHTS AND MEASURES

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

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

| Fahrenheit | to | Celsius | Celsius | to | Fahrenheit |
|-------------|----|---------|---------|----|------------|
| Temperature | | | | | |
| 100 °F | | 37.8 °C | 40 °C | | 104.0 °F |
| 90 | | 32.2 | 35 | | 95.0 |
| 80 | | 26.7 | 30 | | 86.0 |
| 70 | | 21.1 | 25 | | 77.0 |
| 60 | | 15.6 | 20 | | 68.0 |
| 50 | | 10.0 | 15 | | 59.0 |
| 40 | | 4.4 | 10 | | 50.0 |
| 30 | | -1.1 | 5 | | 41.0 |
| 20 | | -6.7 | 0 | | 32.0 |
| 10 | | -12.2 | -5 | | 23.0 |
| | | | -10 | | 14.0 |

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, *Atlas of Hawaii*, 2nd edition (1983), pp. 218-219.

Section 1

POPULATION

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

Provisional estimates for 1995 indicate a resident population of 1,186,815, about 7.1 percent greater than the 1990 census count of 1,108,229. Earlier censuses reported 964,691 in 1980, 422,770 in 1940, 154,001 in 1900, and 69,800 in 1860. These estimates and census totals include members of the armed forces stationed in Hawaii and their local dependents, a group making up 9.1 percent of the resident total when last surveyed. The 1995 de facto population--which included 158,410 visitors present on an average day in that year but excluded 50,719 residents temporarily absent--was 1,294,506. The population of the State is mostly male (50.6 percent), relatively young--the median age in 1994 was 34.2 years--and racially diversified. The major unmixed groups, based on a 1992 sample survey, were Caucasians (23 percent of the non-barracks, non-institutional population) and Japanese (20 percent). In addition, 37 percent were of mixed race, half of them part Hawaiian. There were 381,000 households in the State in 1994, with an average size of 2.99. Immigrant arrivals in fiscal 1994 numbered 7,742, mostly from the Philippines. About 36,000 persons (many of them in the armed forces) moved to Hawaii from the Mainland during 1994.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Federal-State Cooperative Program for Population Estimates, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the ongoing series on visitors present and residents absent provided by the Hawaii Visitors Bureau, and the U.S. Immigration and Naturalization Service tabulations on immigration. Earlier figures on population and migration are given in *Historical Statistics of Hawaii*, Sections 1 and 3. Comparable national statistics on population and migration appear in Section 1 of *Statistical Abstract of the United States: 1995*.

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

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

^{2/} Total population also reported as 129,814.

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

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

Table 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 1995

[Excludes visitors present but includes residents temporarily absent]

| Year | Total resident population <u>1/</u> | Armed forces <u>2/</u> | Civilian population | | |
|---------------------|-------------------------------------|------------------------|---------------------|-------------------------------|-------------------------|
| | | | All civilians | Military dependents <u>3/</u> | Not military dependents |
| 1980: April 1 | 964,691 | 57,056 | 907,635 | 64,023 | 843,612 |
| July 1 | 968,500 | 57,900 | 910,600 | 64,100 | 846,500 |
| 1981: July 1 | 978,200 | 56,600 | 921,600 | 64,300 | 857,300 |
| 1982: July 1 | 993,800 | 54,900 | 938,900 | 66,700 | 872,200 |
| 1983: July 1 | 1,012,700 | 55,200 | 957,500 | 66,300 | 891,200 |
| 1984: July 1 | 1,027,900 | 57,300 | 970,600 | 67,100 | 903,500 |
| 1985: July 1 | 1,039,700 | 56,400 | 983,300 | 64,300 | 919,000 |
| 1986: July 1 | 1,051,800 | 58,100 | 993,700 | 66,200 | 927,500 |
| 1987: July 1 | 1,067,900 | 58,100 | 1,009,800 | 64,800 | 945,000 |
| 1988: July 1 | 1,079,800 | 56,800 | 1,023,000 | 69,900 | 953,100 |
| 1989: July 1 | 1,094,600 | 56,400 | 1,038,200 | 60,300 | 977,900 |
| 1990: April 1 | 1,108,229 | 55,222 | 1,053,007 | 59,935 | 993,072 |
| July 1 | 1,112,932 | 55,288 | 1,057,644 | 60,614 | 997,030 |
| 1991: July 1 | 1,133,559 | 54,738 | 1,078,821 | 63,328 | 1,015,493 |
| 1992: July 1 | 1,152,979 | 55,099 | 1,097,880 | 56,994 | 1,040,886 |
| 1993: July 1 | 1,165,708 | 52,674 | 1,113,034 | 62,166 | 1,050,868 |
| 1994: July 1 | 1,178,279 | 52,845 | 1,125,434 | 54,338 | 1,071,096 |
| 1995: July 1 | 1,186,815 | 50,729 | 1,136,086 | (NA) | (NA) |

NA Not available.

1/ Estimates after April 1, 1990 are revisions released in January 1996, and differ somewhat from the earlier figures cited in tables 1.08, 1.10, 1.13, 1.40, 1.41, and 1.42.

2/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. They differ somewhat from corresponding figures from other sources.

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

Source: Federal-State Cooperative Program for Population Estimates.

Table 1.04-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1980 TO 1995

| Year | Resident population <u>1/</u> | | De facto population <u>3/</u> | | De facto-resident ratio |
|------------------------------|-------------------------------|------------------------------|-------------------------------|----------------------------|-------------------------|
| | Total | Temporarily absent <u>2/</u> | Total | Visitors present <u>2/</u> | |
| 1980: April 1..... | 964,691 | 9,600 | 1,052,700 | 97,600 | 1.091 |
| July 1 | 968,500 | 9,600 | 1,055,400 | 96,500 | 1.090 |
| 1981: July 1 | 978,200 | 11,600 | 1,062,600 | 96,000 | 1.086 |
| 1982: July 1 | 993,800 | 14,500 | 1,084,600 | 105,300 | 1.091 |
| 1983: July 1 | 1,012,700 | 11,500 | 1,109,200 | 108,000 | 1.095 |
| 1984: July 1 | 1,027,900 | 16,100 | 1,130,500 | 118,700 | 1.100 |
| 1985: July 1 | 1,039,700 | 18,600 | 1,137,800 | 116,700 | 1.094 |
| 1986: July 1 | 1,051,800 | 17,200 | 1,167,500 | 132,900 | 1.110 |
| 1987: July 1 | 1,067,900 | 15,700 | 1,186,500 | 134,300 | 1.111 |
| 1988: July 1 | 1,079,800 | 20,800 | 1,200,400 | 141,400 | 1.112 |
| 1989: July 1 | 1,094,600 | 18,700 | 1,245,600 | 169,700 | 1.138 |
| 1990: April 1..... | 1,108,229 | 18,360 | 1,248,360 | 158,491 | 1.126 |
| July 1 | 1,112,932 | 17,970 | 1,257,032 | 162,070 | 1.129 |
| 1991: July 1 | 1,133,559 | 16,590 | 1,274,559 | 157,590 | 1.124 |
| 1992: July 1 <u>4/</u> | 1,152,979 | 37,080 | 1,269,289 | 153,390 | 1.101 |
| 1993: July 1 <u>4/</u> | 1,165,708 | 49,117 | 1,265,341 | 148,750 | 1.085 |
| 1994: July 1 | 1,178,279 | 50,190 | 1,287,309 | 159,220 | 1.093 |
| 1995: July 1 <u>5/</u> | 1,186,815 | 50,719 | 1,294,506 | 158,410 | 1.091 |

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.

2/ 12-month moving averages.

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

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

5/ Preliminary.

Source: Federal-State Cooperative Program for Population Estimates; Hawaii Visitors Bureau, Basic Data Survey.

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 <u>1/</u> | 40,103 | 35,717 | 38,691 | 62,823 | 91,361 |
| Lanai | 3,136 | 2,115 | 2,204 | 2,119 | 2,426 |
| Molokai..... | 5,280 | 5,023 | 5,261 | 6,049 | 6,717 |
| Oahu <u>2/</u> | 353,006 | 500,394 | 630,497 | 762,534 | 836,231 |
| Kauai..... | 29,683 | 27,922 | 29,524 | 38,856 | 50,947 |
| Niihau <u>3/</u> | 222 | 254 | 237 | 226 | 230 |
| Northwestern Hawaiian Islands . | 14 | 15 | 31 | 31 | 24 |
| French Frigate Shoals..... | 14 | (NA) | (NA) | 4 | - |
| Laysan Island..... | - | (NA) | (NA) | 5 | - |
| Kure Atoll..... | - | (NA) | (NA) | 22 | (6/) |
| Other islands <u>4/</u> | - | (NA) | (NA) | - | - |
| OTHER ISLANDS <u>5/</u> | | | | | |
| 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 1995

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

| Date | State total | City and County of Honolulu | Hawaii County | Kauai County | Maui County <u>1/</u> |
|--------------------|--------------------|------------------------------------|----------------------|---------------------|------------------------------|
| 1980: April 1..... | 964,691 | 762,565 | 92,053 | 39,082 | 70,991 |
| July 1 | 968,500 | 764,600 | 92,900 | 39,400 | 71,600 |
| 1981: July 1 | 978,200 | 767,600 | 96,100 | 40,500 | 74,000 |
| 1982: July 1 | 993,800 | 776,100 | 98,800 | 41,800 | 77,100 |
| 1983: July 1 | 1,012,700 | 789,100 | 100,800 | 42,800 | 80,100 |
| 1984: July 1 | 1,027,900 | 797,800 | 103,500 | 43,600 | 83,000 |
| 1985: July 1 | 1,039,700 | 804,300 | 105,900 | 44,400 | 85,100 |
| 1986: July 1 | 1,051,800 | 810,400 | 108,400 | 45,600 | 87,400 |
| 1987: July 1 | 1,067,900 | 818,400 | 111,700 | 47,200 | 90,500 |
| 1988: July 1 | 1,079,800 | 824,100 | 113,400 | 48,500 | 93,800 |
| 1989: July 1 | 1,094,600 | 831,300 | 116,600 | 49,800 | 96,800 |
| 1990: April 1..... | 1,108,229 | 836,231 | 120,317 | 51,177 | 100,504 |
| July 1 | 1,112,932 | 838,230 | 121,468 | 51,634 | 101,600 |
| 1991: July 1 | 1,133,559 | 849,031 | 126,127 | 53,260 | 105,141 |
| 1992: July 1 | 1,152,979 | 860,978 | 130,018 | 54,167 | 107,816 |
| 1993: July 1 | 1,165,708 | 866,793 | 133,039 | 55,094 | 110,782 |
| 1994: July 1 | 1,178,279 | 874,028 | 135,255 | 55,732 | 113,264 |
| 1995: July 1 | 1,186,815 | 877,198 | 137,531 | 56,131 | 115,955 |

1/ Including Kalawao County (Kalaupapa Settlement). Kalawao had 144 inhabitants in 1980, 130 in 1990, and 91 in 1995.

Source: Federal-State Cooperative Program for Population Estimates.

Table 1.07-- DE FACTO POPULATION, BY COUNTIES: 1980 TO 1994

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

| Date | State total | City and County of Honolulu | Hawaii County | Kauai County | Maui County <u>1/</u> |
|---------------------|--------------------|------------------------------------|----------------------|---------------------|------------------------------|
| 1980: April 1 | 1,052,700 | 822,000 | 98,700 | 46,100 | 85,900 |
| July 1 | 1,055,400 | 823,400 | 99,300 | 46,400 | 86,400 |
| 1981: July 1 | 1,062,600 | 824,700 | 101,700 | 47,300 | 89,000 |
| 1982: July 1 | 1,084,600 | 837,600 | 104,300 | 48,400 | 94,200 |
| 1983: July 1 | 1,109,200 | 846,300 | 108,500 | 50,500 | 104,000 |
| 1984: July 1 | 1,130,500 | 852,300 | 109,600 | 54,100 | 114,400 |
| 1985: July 1 | 1,137,800 | 854,800 | 112,500 | 55,200 | 115,400 |
| 1986: July 1 | 1,167,500 | 871,000 | 116,600 | 59,700 | 120,100 |
| 1987: July 1 | 1,186,500 | 881,000 | 120,400 | 62,100 | 123,100 |
| 1988: July 1 | 1,200,400 | 888,200 | 122,200 | 64,200 | 125,700 |
| 1989: July 1 | 1,245,600 | 905,900 | 132,300 | 68,100 | 139,200 |
| 1990: April 1 | 1,248,400 | 908,000 | 135,100 | 68,000 | 137,300 |
| July 1 | 1,257,000 | 912,100 | 136,500 | 69,000 | 139,500 |
| 1991: July 1 | 1,274,800 | 916,500 | 142,900 | 71,500 | 143,900 |
| 1992: July 1 | 1,269,400 | 911,700 | 145,200 | 65,900 | 146,600 |
| 1993: July 1 | 1,265,100 | 909,100 | 146,600 | 61,100 | 148,400 |
| 1994: July 1 | 1,287,600 | 920,500 | 149,000 | 66,700 | 151,300 |

1/ Including Kalawao County (Kalaupapa Settlement). The 1994 de facto population of Kalawao was 97.

Source: Federal-State Cooperative Program for Population Estimates; Hawaii Visitors Bureau, Basic Data Survey.

Table 1.08-- RESIDENT AND DE FACTO POPULATION, BY COUNTIES AND ISLANDS: 1990 AND 1994

| County and island | Resident population | | | De facto population | | |
|------------------------|---------------------|--------------|----------------|---------------------|--------------|----------------|
| | April 1, 1990 | July 1, 1994 | Percent change | April 1, 1990 | July 1, 1994 | Percent change |
| State total..... | 1,108,229 | 1,178,565 | 6.3 | 1,248,360 | 1,287,600 | 3.1 |
| Counties: | | | | | | |
| Hawaii..... | 120,317 | 135,499 | 12.6 | 135,080 | 149,000 | 10.3 |
| Maui..... | 100,374 | 112,933 | 12.5 | 137,170 | 151,200 | 10.2 |
| Kalawao..... | 130 | 97 | -25.4 | 128 | 100 | -24.2 |
| Honolulu..... | 836,231 | 874,348 | 4.6 | 908,019 | 920,500 | 1.4 |
| Kauai..... | 51,177 | 55,687 | 8.7 | 67,963 | 66,700 | -1.5 |
| Island: | | | | | | |
| Hawaii..... | 120,317 | 135,499 | 12.6 | 135,080 | 149,000 | 10.3 |
| Maui..... | 91,361 | 103,195 | 13.0 | 126,992 | 139,500 | 9.9 |
| Kahoolawe..... | - | - | ... | - | - | ... |
| Lanai..... | 2,426 | 2,975 | 22.6 | 2,629 | 4,000 | 52.8 |
| Molokai..... | 6,717 | 6,861 | 2.1 | 7,677 | 7,700 | 0.9 |
| Oahu <u>1/</u> | 836,231 | 874,348 | 4.6 | 908,019 | 920,500 | 1.4 |
| Kauai <u>2/</u> | 50,947 | 55,687 | (NA) | 67,737 | 66,700 | (NA) |
| Niihau <u>2/</u> | 230 | (NA) | (NA) | 226 | (NA) | (NA) |

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

2/ Niihau included with Kauai in 1994.

Source: U.S. Bureau of the Census, 1990 Public Law 94-171 counts; DBEDT estimates of resident and de facto population based on resident population estimates in present report, table 1.10, and Hawaii Visitors Bureau survey data on visitors present and residents absent.

**Table 1.09-- LAND AREA AND DE FACTO POPULATION DENSITY, BY
COUNTIES AND ISLANDS: 1994**

| 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 | 14.3 | 37.0 |
| Maui | 3,002.5 | 1,159.3 | 50.4 | 130.4 |
| Kalawao..... | 34.2 | 13.2 | 2.8 | 7.3 |
| Honolulu | 1,554.5 | 600.2 | 592.2 | 1,533.7 |
| Kauai | 1,612.2 | 622.5 | 41.4 | 107.1 |
| Islands: | | | | |
| Hawaii | 10,433.1 | 4,028.2 | 14.3 | 37.0 |
| Maui | 1,883.7 | 727.3 | 74.1 | 191.8 |
| Kahoolawe..... | 115.6 | 44.6 | 0 | 0 |
| Lanai | 364.0 | 140.5 | 11.0 | 28.5 |
| Molokai..... | 673.4 | 260.0 | 11.4 | 29.6 |
| Oahu <u>1/</u> | 1,554.5 | 600.2 | 592.2 | 1,537.7 |
| Kauai | 1,430.5 | 552.3 | 41.4 | 107.1 |
| Niihau <u>2/</u> | 181.7 | 70.2 | (<u>3/</u>) | (<u>3/</u>) |

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

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

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

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

**Table 1.10-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS:
1980, 1990, AND 1994**

| County and district (see map, pp. 6-7) | April 1, 1980 | April 1, 1990 | July 1, 1994 | Percent change | |
|---|------------------|------------------|-----------------|-----------------|-----------------|
| | | | | 1980 to 1990 | 1990 to 1994 |
| State total..... | 964,691 | 1,108,229 | 1,178,600 | 14.9 | 6.3 |
| Hawaii County | 92,053 | 120,317 | 135,500 | 30.7 | 12.6 |
| Puna..... | 11,751 | 20,781 | 26,700 | 76.8 | 28.7 |
| South Hilo..... | 42,278 | 44,639 | 45,900 | 5.6 | 2.9 |
| North Hilo | 1,679 | 1,541 | 1,600 | -8.2 | 2.3 |
| Hamakua | 5,128 | 5,545 | 5,700 | 8.1 | 2.4 |
| North Kohala..... | 3,249 | 4,291 | 4,800 | 32.1 | 12.4 |
| South Kohala..... | 4,607 | 9,140 | 11,700 | 98.4 | 28.4 |
| North Kona | 13,748 | 22,284 | 24,900 | 62.1 | 11.9 |
| South Kona..... | 5,914 | 7,658 | 8,500 | 29.5 | 11.1 |
| Ka'u..... | 3,699 | 4,438 | 5,600 | 20.0 | 25.3 |
| Maui County <u>1/</u> | 70,991 | 100,504 | 113,000 | 41.6 | 12.5 |
| Hana..... | 1,423 | 1,895 | 2,000 | 33.2 | 6.6 |
| Makawao..... | 19,005 | 29,207 | 33,000 | 53.7 | 13.0 |
| Wailuku | 32,111 | 45,685 | 52,200 | 42.3 | 14.2 |
| Lahaina..... | 10,284 | 14,574 | 16,000 | 41.7 | 9.9 |
| Lanai | 2,119 | 2,426 | 3,000 | 14.5 | 22.6 |
| Molokai..... | 5,905 | 6,587 | 6,800 | 11.5 | 2.7 |
| Kalawao..... | 144 | 130 | 100 | -9.7 | -25.4 |
| City & Co. of Honolulu .. | 762,565 | 836,231 | 874,300 | 9.7 | 4.6 |
| Honolulu | 365,048 | 377,059 | 375,300 | 3.3 | -0.5 |
| Koolaupoko..... | 109,373 | 117,694 | 122,900 | 7.6 | 4.4 |
| Koolauloa <u>2/</u> | 14,195 | 18,443 | 19,200 | 29.9 | 4.2 |
| Waialua <u>2/</u> | 9,849 | 11,549 | 11,800 | 17.3 | 2.3 |
| Wahiawa <u>2/</u> | 41,562 | 43,886 | 48,600 | 5.6 | 10.7 |
| Waianae | 31,487 | 37,411 | 37,900 | 18.8 | 1.2 |
| Ewa <u>2/</u> | 191,051 | 230,189 | 258,700 | 20.5 | 12.4 |
| Kauai County..... | 39,082 | 51,177 | 55,700 | 30.9 | 8.8 |
| Hanalei..... | 2,668 | 4,631 | 5,200 | 73.6 | 11.5 |
| Kawaihau..... | 10,497 | 15,627 | 17,700 | 48.9 | 13.0 |
| Lihue | 8,590 | 10,663 | 11,200 | 24.1 | 5.0 |
| Koloa | 8,734 | 11,368 | 12,500 | 30.2 | 9.7 |
| Waimea..... | 8,593 | 8,888 | 9,200 | 3.4 | 3.5 |

1/ Including Kalawao County.

2/ 1980 boundaries.

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; Federal-State Cooperative Program for Population Estimates.

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 governmental and taxing powers; the boundaries determined for these places are statistical rather than political]

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

Continued on next page.

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

| Island and place | Resident population | Island and place | Resident population |
|-----------------------------|---------------------|-------------------------------|---------------------|
| Oahu <u>2/</u> | 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 <u>3/</u> | 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 |
| Maui | 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 <u>4/</u> | 11,662 | Omao | 1,142 |
| Mokuleia | 1,776 | Pakala Village | 565 |
| Nanakuli | 9,575 | Poipu | 975 |
| Pearl City | 30,993 | Princeville | 1,244 |
| Punaluu | 672 | Puhi | 1,210 |
| Pupukea | 4,111 | Wailua | 2,018 |
| Schofield Barracks | 19,597 | Wailua Homesteads | 3,870 |
| Village Park | 7,407 | Waimea | 1,840 |
| Wahiawa | 17,386 | | |
| Waialua | 3,943 | Niihau, Lehua and Kaula | 230 |

Footnotes and source on next page.

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

1/ Spelling corrected from that in census report.

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

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

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

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

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

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

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

Table 1.13-- POPULATION RANKING OF THE STATE, HONOLULU, AND COUNTIES: 1990 AND 1995

| Comparison <u>1/</u> | Resident population, 1995 | Ranking | | |
|---|---------------------------|------------|--------------|---------------------------|
| | | Population | | Percent change, 1990-1995 |
| | | 1990 | 1995 | |
| State of Hawaii: | | | | |
| Among the 50 States and D.C..... | 1,186,815 | 41 | 40 | 17 |
| Among the 50 States..... | 1,186,815 | 41 | 40 | 17 |
| Honolulu MSA: <u>2/</u> | | | | |
| Among all MSAs and CMSAs..... | 877,198 | 54 | 53 | 145 |
| City and County of Honolulu: <u>3/</u> | | | | |
| Among all counties..... | 877,198 | 40 | 40 | 1,370 |
| Among all municipalities | <u>4/</u> 874,330 | 11 | <u>4/</u> 11 | (NA) |
| Honolulu CDP: <u>5/</u> | | | | |
| Among all incorp. places and CDPs | <u>4/</u> 385,881 | 39 | <u>4/</u> 39 | <u>6/</u> 109 |
| Hawaii County <u>7/</u> | 137,531 | 383 | 364 | 325 |
| Kalawao County <u>7/</u> | 91 | 3,139 | 3,142 | 3,142 |
| Kauai County <u>7/</u> | 56,131 | 823 | 816 | 651 |
| Maui County <u>7/</u> | 115,864 | 457 | 433 | 255 |

NA Not available.

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

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

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

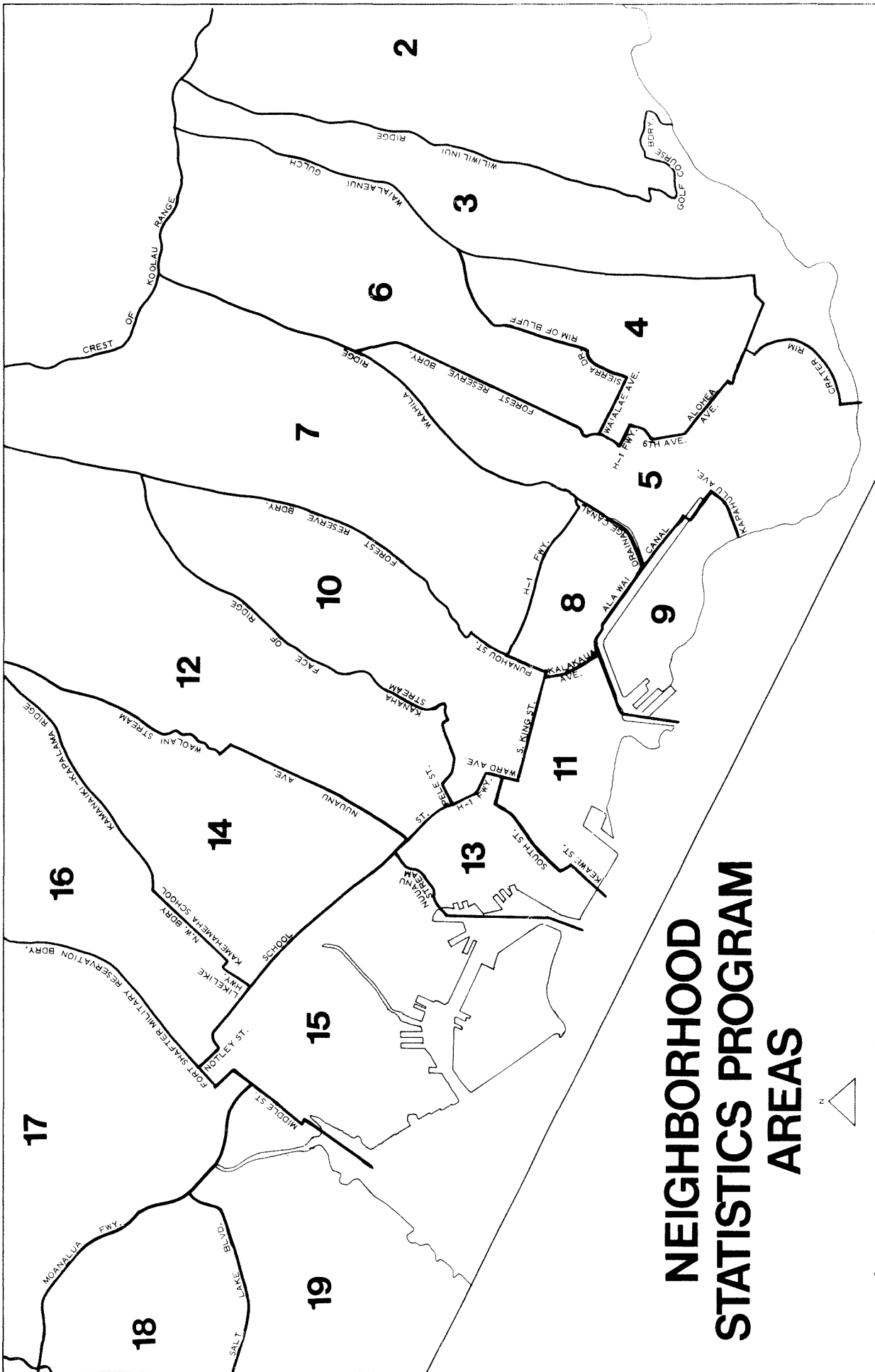
4/ 1994 estimate.

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

6/ 1990-1994 percent change ranking.

7/ Among all 3,143 U.S. counties.

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



NEIGHBORHOOD STATISTICS PROGRAM AREAS

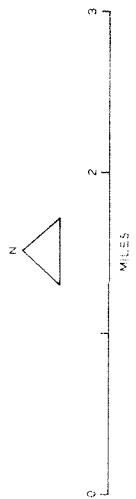


Table 1.14-- CHARACTERISTICS OF OAHU NEIGHBORHOODS: 1990

| Neighborhood Board area (see maps on pp. 26-27) | Resident population | House- holds | Average hshd. size | Percent college grads ^{1/} | Median hshd. income ^{2/} |
|--|------------------------|-----------------|--------------------------|---|---|
| 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 Waiatae-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/} Percent of persons 25 years and over with a bachelor's degree or higher.

^{2/} Median 1989 income of households, in dollars.

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

Table 1.15-- RESIDENT AND DE FACTO POPULATION AND EMPLOYED PERSONS, FOR WAIKIKI: 1960 TO 1990

[For definitions of resident and de facto population, see table 1.4, 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 Department of Business, Economic Development & Tourism from Hawaii Visitors Bureau survey data. Area, resident population, and employment from U.S. Bureau of the Census, census tract bulletins, 1960-1980, and 1990 Census tapes tabulated by Hawaii State Data Center, and *Data Book 1987*, table 380.

Table 1.16-- 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 1.17-- 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 1.18--POPULATION BY MILITARY STATUS:
1950 TO 1990**

| Year | Total resident population | Armed Forces | Civilians | | | Armed Forces and dependent |
|-----------|---------------------------|--------------|---------------|---------------------|-----------------|----------------------------|
| | | | 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 1.19-- 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 <u>1/</u> (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 <u>2/</u> (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 1.19-- 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 1.20-- POPULATION ESTIMATES AND PROJECTIONS, BY BROAD AGE GROUPS: 1978 TO 2045

[Thousands]

| Year (July 1) | All ages | 17 years and under | 18 to 64 years | 65 years and over |
|------------------------------|-----------------|---------------------------|-----------------------|--------------------------|
| Historical estimates: | | | | |
| 1978 | 930 | 272 | 589 | 69 |
| 1983 | 1,013 | 278 | 645 | 90 |
| 1993 | 1,166 | 299 | 729 | 138 |
| Projections: | | | | |
| 1998 | 1,245 | 319 | 772 | 153 |
| 2000 | 1,281 | 327 | 794 | 160 |
| 2005 | 1,354 | 336 | 845 | 173 |
| 2010 | 1,427 | 341 | 893 | 192 |
| 2015 | 1,501 | 351 | 926 | 224 |
| 2025 | 1,648 | 382 | 953 | 313 |
| 2045 | 1,874 | 422 | 1,047 | 405 |

Source: U.S. Bureau of Economic Analysis, *BEA Regional Projections to 2045*, Vol. 1, *States* (July 1995), p. 69.

Table 1.21-- 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 1.22-- RESIDENT POPULATION, BY AGE AND SEX:
1990 AND 1994**

[In thousands. Includes armed forces stationed or homeported in Hawaii. The 1994 estimates are provisional]

| Age group | April 1, 1990 (MARS) ^{1/} | | | July 1, 1994 | | |
|------------------------|------------------------------------|-------|--------|--------------|-------|--------|
| | Both sexes | Male | Female | Both sexes | Male | Female |
| Total | 1,108.2 | 563.9 | 544.3 | 1,178.6 | 596.8 | 581.8 |
| Under 5 years..... | 85.4 | 43.9 | 41.5 | 95.1 | 48.9 | 46.2 |
| 5 to 9 years | 80.7 | 41.5 | 39.2 | 82.7 | 42.5 | 40.2 |
| 10 to 14 years..... | 73.6 | 38.0 | 35.6 | 81.0 | 41.8 | 39.2 |
| 15 to 19 years..... | 73.1 | 38.4 | 34.7 | 78.1 | 40.4 | 37.7 |
| 20 to 24 years..... | 91.7 | 51.1 | 40.6 | 83.7 | 46.6 | 37.1 |
| 25 to 29 years..... | 100.4 | 52.9 | 47.6 | 86.9 | 45.7 | 41.2 |
| 30 to 34 years..... | 100.5 | 51.3 | 49.2 | 99.0 | 50.9 | 48.1 |
| 35 to 39 years..... | 95.1 | 48.5 | 46.6 | 102.7 | 52.7 | 50.1 |
| 40 to 44 years..... | 82.2 | 42.2 | 40.1 | 95.9 | 48.9 | 47.0 |
| 45 to 49 years..... | 61.0 | 30.8 | 30.2 | 78.9 | 39.7 | 39.2 |
| 50 to 54 years..... | 46.6 | 22.9 | 23.8 | 58.9 | 28.9 | 30.0 |
| 55 to 59 years..... | 45.2 | 21.0 | 24.2 | 47.0 | 21.9 | 25.1 |
| 60 to 64 years..... | 48.9 | 22.7 | 26.1 | 46.6 | 21.9 | 24.7 |
| 65 to 69 years..... | 45.3 | 21.7 | 23.5 | 47.1 | 21.8 | 25.4 |
| 70 to 74 years..... | 32.8 | 15.6 | 17.2 | 39.3 | 18.9 | 20.4 |
| 75 to 79 years..... | 22.6 | 11.2 | 11.4 | 27.0 | 12.4 | 14.6 |
| 80 to 84 years..... | 13.0 | 6.5 | 6.6 | 16.3 | 7.7 | 8.6 |
| 85 and over | 10.1 | 3.8 | 6.3 | 12.3 | 5.2 | 7.1 |
| 5 to 17 | 196.4 | 101.3 | 95.1 | 209.1 | 107.8 | 101.3 |
| 18 to 24 | 122.6 | 67.7 | 54.9 | 116.4 | 63.5 | 52.9 |
| 25 to 44 | 378.3 | 194.9 | 183.5 | 384.6 | 198.3 | 186.3 |
| 45 to 64 | 201.7 | 97.3 | 104.4 | 231.4 | 112.4 | 119.0 |
| 16 years and over..... | 854.5 | 433.2 | 421.3 | 904.7 | 455.7 | 449.0 |
| 18 years and over..... | 826.4 | 418.7 | 407.7 | 874.5 | 440.2 | 434.3 |
| 21 years and over..... | 777.4 | 391.9 | 385.5 | 824.1 | 413.6 | 410.5 |
| 65 years and over..... | 123.7 | 58.8 | 64.9 | 142.0 | 66.0 | 76.1 |
| Median age | 32.5 | 31.6 | 33.4 | 34.2 | 33.2 | 35.1 |

^{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: U.S. Bureau of the Census, records.

Table 1.23-- RESIDENT POPULATION, BY AGE AND SEX, BY COUNTIES: 1990

| Subject | State total | City & 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 | 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 1.24-- ETHNIC STOCK BY MILITARY STATUS: 1992

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 13,943 persons]

| Ethnic stock <u>1/</u> | Total | | Armed forces <u>2/</u> | Military dependents <u>2/</u> | Other civilians |
|------------------------|-----------|---------|------------------------|-------------------------------|-----------------|
| | Number | Percent | | | |
| All groups | 1,138,866 | 100.0 | 47,064 | 85,350 | 1,006,452 |
| Unmixed..... | 717,405 | 63.0 | 39,856 | 60,197 | 617,352 |
| Caucasian | 265,211 | 23.3 | 30,609 | 42,570 | 192,032 |
| Japanese | 224,800 | 19.7 | 466 | 904 | 223,430 |
| Chinese..... | 52,611 | 4.6 | - | 197 | 52,414 |
| Filipino | 119,256 | 10.5 | 1,192 | 5,116 | 112,948 |
| Hawaiian | 9,118 | 0.8 | - | - | 9,118 |
| Korean | 16,050 | 1.4 | - | 664 | 15,386 |
| Black..... | 19,997 | 1.8 | 6,807 | 8,264 | 4,926 |
| Puerto Rican | 4,823 | 0.4 | 581 | 1,203 | 3,039 |
| Samoaan | 5,539 | 0.5 | 201 | 1,279 | 4,059 |
| Mixed | 421,461 | 37.0 | 7,208 | 25,153 | 389,100 |
| Part Hawaiian.... | 211,630 | 18.6 | 602 | 2,536 | 208,492 |
| Non-Hawaiian <u>3/</u> | 209,831 | 18.4 | 6,606 | 22,617 | 180,608 |

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

2/ Armed forces and military dependents were greatly overrepresented in the 1992 survey. Actual totals for these groups were 32,317 military personnel and 56,994 dependents.

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

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

Table 1.25-- ETHNIC STOCK BY COUNTIES: 1992

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 13,943 persons]

| Ethnic stock <u>1/</u> | State total | City and Co. of Honolulu | Hawaii County | Kauai County | Maui County |
|-------------------------------|--------------------|-------------------------------------|--------------------------|-------------------------|------------------------|
| All groups..... | 1,138,870 | 844,729 | 130,195 | 54,092 | 109,854 |
| Unmixed..... | 717,409 | 549,402 | 74,224 | 30,793 | 62,990 |
| Caucasian..... | 265,211 | 189,859 | 34,379 | 11,183 | 29,790 |
| Japanese..... | 224,801 | 178,123 | 22,930 | 8,534 | 15,214 |
| Chinese..... | 52,612 | 50,229 | 1,248 | 502 | 633 |
| Filipino..... | 119,256 | 82,786 | 12,773 | 9,014 | 14,683 |
| Hawaiian..... | 9,118 | 5,420 | 1,476 | 729 | 1,493 |
| Korean..... | 16,051 | 14,834 | 409 | 335 | 473 |
| Black..... | 19,998 | 19,415 | 363 | 91 | 129 |
| Puerto Rican..... | 4,823 | 3,347 | 646 | 377 | 453 |
| Samoan..... | 5,539 | 5,389 | - | 28 | 122 |
| Mixed..... | 421,461 | 295,327 | 55,971 | 23,299 | 46,864 |
| Part Hawaiian..... | 211,629 | 139,363 | 35,066 | 12,697 | 24,503 |
| Non-Hawaiian <u>2/</u> ... | 209,832 | 155,964 | 20,905 | 10,602 | 22,361 |

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

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

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

Table 1.26-- RACE AND HISPANIC ORIGIN: 1980 AND 1990

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

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

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

2/ 1980 figure limited to Asian Indians and Guamanians.

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

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

**Table 1.27-- 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 1.28-- ANCESTRY: 1990

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

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

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

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

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

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

Table 1.29-- 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 1.30-- 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 Hawaii State Data Center.

Table 1.31-- LANGUAGE SPOKEN AT HOME BY PERSONS FIVE YEARS OLD AND OVER, BY ABILITY TO SPEAK ENGLISH: 1990

| Language spoken at home <u>1/</u> | 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 <u>2/</u> | 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 <u>3/</u> | 25,489 | 10,417 | 8,088 | 5,476 | 1,508 |
| Hawaiian <u>4/</u> | 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 1.32-- 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 1.33-- 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 | 356,267 | 263,456 | 1,070,597 | 915,783 | 37,632 | 3.01 | 3.48 |

NA Not available.

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.

**Table 1.34-- HOUSING UNITS, HOUSEHOLDS, AND PERSONS PER HOUSEHOLD:
1990 AND 1994**

| Subject | April 1, 1990 | July 1, 1994 | Percent change |
|---|---------------|--------------|----------------|
| Total housing units <u>1/</u> | 390 | 421 | 8.1 |
| Households by age of householder, total <u>1/</u> | 356 | 381 | 7.1 |
| 15 to 24 years..... | 17 | 16 | -6.8 |
| 25 to 34 years..... | 73 | 67 | -8.1 |
| 35 to 44 years..... | 87 | 95 | 9.1 |
| 45 to 54 years..... | 58 | 74 | 27.8 |
| 55 to 64 years..... | 50 | 49 | -2.1 |
| 65 years and over..... | 71 | 81 | 13.0 |
| Persons per household <u>2/</u> | 3.01 | 2.99 | -0.7 |

1/ Numbers in thousands.

2/ The U.S. average in 1994 was 2.64. Hawaii ranked second among the 50 States.

Source: U.S. Bureau of the Census, Release CB95-108 (June 12, 1995).

Table 1.35-- 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 | 1980 | 1990 | 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 |

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 1.36-- 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 1.37-- 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 1.38--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 1.39-- CHURCHES AND CHURCH MEMBERSHIP AND ADHERENTS: 1990

[Data limited to 133 Judaeo-Christian church bodies or groupings surveyed nationally, of which 43 were reported in Hawaii. See source for greater denominational detail]

| County or denomination | Number of churches | Member-ship <u>1/</u> | Adherents (estimated) | | |
|-----------------------------------|--------------------|-----------------------|-----------------------|-----------------------|----------------------|
| | | | Number | Percent of population | Percent of adherents |
| State total | 758 | 87,579 | 390,827 | 35.3 | 100.0 |
| By counties: | | | | | |
| Hawaii..... | 156 | 10,760 | 48,900 | 40.6 | 12.5 |
| Maui..... | 107 | 6,677 | 36,279 | 36.1 | 9.3 |
| Kalawao..... | 2 | 25 | 90 | 69.2 | 0.0 |
| Honolulu | 434 | 65,839 | 288,507 | 34.5 | 73.8 |
| Kauai | 59 | 4,278 | 17,051 | 33.3 | 4.4 |
| By denomination: <u>2/</u> | | | | | |
| Assembly of God | 69 | 8,475 | 13,005 | 1.2 | 3.3 |
| Roman Catholic | 102 | (X) | 232,780 | 21.0 | 59.6 |
| Latter-Day Saints | 109 | (X) | 38,303 | 3.5 | 9.8 |
| Episcopal..... | 40 | 6,990 | 10,396 | 0.9 | 2.7 |
| Southern Baptist Convention | 56 | 16,245 | 20,331 | 1.8 | 5.2 |
| United Church of Christ..... | 110 | 18,202 | 22,852 | 2.1 | 5.8 |
| United Methodist..... | 31 | 6,677 | 8,348 | 0.8 | 2.1 |
| Jewish..... | 6 | (X) | (<u>3/</u>) | (NA) | (NA) |
| All others <u>4/</u> | 235 | 30,990 | 44,812 | 4.0 | 11.5 |

X Not applicable.

NA Not available.

1/ Communicant, confirmed full members.

2/ Shown separately for bodies with 6,500 or more adherents.

3/ Reported as 0 in source, which is obviously in error. The American Jewish Committee estimated a 1992 Jewish population of 7,000 in Hawaii; see *Statistical Abstract of the United States; 1994*, p. 72.

4/ 35 denominations, each with fewer than 6,500 adherents.

Source: Martin B. Bradley et al., *Churches and Church Membership in the United States 1990* (Atlanta, 1992), pp. 17 and 109-110.

**Table 1.40-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY
MILITARY STATUS: 1980 TO 1990 AND 1990 TO 1994**

| Period and component | All groups | Armed forces | Civilian population | | | |
|------------------------------------|------------|--------------|---------------------|-------------------------|----------------|------------------|
| | | | Military dependents | Not military dependents | | |
| | | | | Number | Annual average | Percent distrib. |
| 1980 TO 1990 <u>1/</u> | | | | | | |
| Net change | +143,538 | -1,723 | -4,088 | +149,349 | +14,935 | 100.0 |
| Natural increase | 112,148 | -604 | 34,007 | 78,745 | 7,875 | 52.7 |
| Live births | 168,523 | - | 34,847 | 133,676 | 13,368 | ... |
| Deaths | 56,375 | 604 | 840 | 54,931 | 5,493 | ... |
| Net mil. separations <u>2/</u> ... | - | +734 | - | -734 | -73 | -0.5 |
| Net migration <u>3/</u> | +31,390 | -1,853 | -38,095 | +71,338 | +7,134 | 47.8 |
| 1990 TO 1994 <u>4/</u> | | | | | | |
| Net change | +70,336 | -2,488 | -5,597 | +78,421 | +18,452 | 100.0 |
| Natural increase | 55,196 | -422 | 15,432 | 40,186 | 9,456 | 51.2 |
| Live births | 84,561 | - | 15,793 | 68,768 | 16,181 | ... |
| Deaths | 29,365 | 422 | 361 | 28,582 | 6,725 | ... |
| Net mil. separations <u>2/</u> ... | } +15,140 | -2,066 | -21,029 | +38,235 | +8,996 | 48.8 |
| Net migration <u>3/</u> | | | | | | |

NA Not available.

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

2/ Separations less inductions for armed forces.

3/ Includes error of closure.

4/ April 1, 1990 to June 30, 1994.

Source: Estimated by DBEDT 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 1.41-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION:
ANNUALLY, 1969-70 TO 1994-95**

[Years ended June 30]

| Year | Net change | Natural increase | | | Net migration |
|-----------|------------|------------------|-------------|--------|---------------|
| | | Total | Live births | Deaths | |
| 1970..... | 21,400 | 11,900 | 16,100 | 4,200 | 9,500 |
| 1971..... | 30,000 | 12,000 | 16,100 | 4,000 | 18,000 |
| 1972..... | 26,700 | 11,400 | 15,600 | 4,200 | 15,300 |
| 1973..... | 23,300 | 11,000 | 15,300 | 4,300 | 12,200 |
| 1974..... | 16,400 | 11,100 | 15,400 | 4,300 | 5,300 |
| 1975..... | 18,200 | 11,300 | 15,600 | 4,300 | 6,900 |
| 1976..... | 18,000 | 11,700 | 16,000 | 4,300 | 6,400 |
| 1977..... | 14,100 | 12,200 | 16,600 | 4,300 | 1,800 |
| 1978..... | 13,300 | 12,400 | 16,800 | 4,400 | 1,000 |
| 1979..... | 21,700 | 12,500 | 17,100 | 4,600 | 9,300 |
| 1980..... | 15,200 | 13,000 | 17,800 | 4,800 | 2,200 |
| 1981..... | 9,700 | 13,200 | 18,200 | 4,900 | -3,500 |
| 1982..... | 15,600 | 13,400 | 18,400 | 5,000 | 2,200 |
| 1983..... | 18,900 | 13,600 | 18,900 | 5,300 | 5,300 |
| 1984..... | 15,200 | 13,400 | 18,900 | 5,500 | 1,800 |
| 1985..... | 11,800 | 12,800 | 18,500 | 5,700 | -1,000 |
| 1986..... | 12,100 | 12,500 | 18,300 | 5,800 | -400 |
| 1987..... | 16,100 | 12,400 | 18,400 | 6,000 | 3,700 |
| 1988..... | 11,900 | 12,700 | 18,700 | 6,100 | -800 |
| 1989..... | 14,800 | 13,000 | 19,100 | 6,200 | 1,800 |
| 1990..... | 18,300 | 13,400 | 19,900 | 6,500 | 4,900 |
| 1991..... | 20,300 | 13,300 | 20,000 | 6,800 | 7,000 |
| 1992..... | 19,500 | 13,200 | 19,900 | 6,700 | 6,300 |
| 1993..... | 12,700 | 12,200 | 19,500 | 7,300 | 500 |
| 1994..... | 12,600 | 12,400 | 20,000 | 7,600 | 200 |
| 1995..... | 8,300 | 12,300 | 20,000 | 7,700 | -4,000 |

Source: Net change from Federal-State Cooperative Program for Population Estimates; natural increase from Hawaii State Department of Health; net migration computed.

Table 1.42-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY COUNTIES: 1990 TO 1995

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

| Component | State total | Honolulu | Hawaii | Kauai | Maui <u>1/</u> |
|------------------------------------|-------------|----------|---------|--------|----------------|
| Resident population: | | | | | |
| April 1, 1990 (census) | 1,108,229 | 836,231 | 120,317 | 51,177 | 100,504 |
| July 1, 1995 (estimate)... | 1,186,815 | 877,198 | 137,531 | 56,131 | 115,955 |
| Net change | 78,586 | 40,967 | 17,214 | 4,954 | 15,451 |
| Resident births..... | 104,388 | 77,875 | 11,598 | 4,989 | 9,926 |
| Resident deaths..... | 37,738 | 27,156 | 4,995 | 2,072 | 3,515 |
| Foreign migrants (net) | 33,137 | 26,095 | 2,065 | 1,472 | 3,505 |
| Federal citizen movement <u>2/</u> | 16,553 | 16,414 | 43 | 77 | 19 |
| Domestic migrants (net)..... | -37,752 | -51,989 | 8,405 | 405 | 5,427 |
| Residual change <u>3/</u> | -2 | -272 | 98 | 83 | 89 |

1/ Including Kalawao County.

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

3/ 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 method.

Source: U.S. Bureau of the Census, printout.

Table 1.43-- INTENDED RESIDENTS ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL AND MILITARY STATUS: 1989 TO 1994

| Year | All intended residents | Westbound by military status | | | | Eastbound and northbound <u>1/</u> |
|------------|------------------------|------------------------------|------------------|--------------------|-----------|------------------------------------|
| | | Total | Military service | Military dependent | All other | |
| 1989 | 22,530 | 16,010 | 6,700 | | 9,310 | 6,520 |
| 1990 | 38,170 | 29,320 | 5,470 | 5,640 | 18,210 | 8,850 |
| 1991 | 24,690 | 17,430 | 2,480 | 5,590 | 9,360 | 7,260 |
| 1992 | 46,070 | 41,790 | 11,210 | 10,050 | 20,530 | 4,280 |
| 1993 | 42,050 | 39,810 | 10,990 | 8,750 | 20,070 | 2,240 |
| 1994 | 41,070 | 36,020 | 9,710 | 8,390 | 17,920 | 5,050 |

1/ Not available by military status.

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

Table 1.44--CHARACTERISTICS OF INTENDED RESIDENTS ARRIVING IN HAWAII: 1992 TO 1994

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

NA Not available.

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

**Table 1.45-- IMMIGRANTS ADMITTED, BY COUNTRIES OF BIRTH:
1990 TO 1994**

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence, and include non-immigrant arrivals who changed their status after entry]

| Country of birth | 1990 | 1991 | 1992 | 1993 | 1994 |
|-----------------------|-------|-------|-------|-------|-----------------|
| All countries | 7,858 | 7,766 | 7,885 | 8,504 | 7,742 |
| Canada | 158 | 159 | 180 | 220 | 155 |
| China and Taiwan..... | 664 | 669 | 644 | 877 | <u>1/</u> 824 |
| Japan | 335 | 370 | 669 | 454 | 510 |
| Korea | 721 | 495 | 418 | 390 | 329 |
| Philippines..... | 4,167 | 4,328 | 3,995 | 4,670 | 4,329 |
| Vietnam..... | 543 | 498 | 692 | 481 | 353 |
| Other countries | 1,270 | 1,247 | 1,287 | 1,412 | <u>2/</u> 1,242 |

1/ Mainland China, 743; Taiwan, 81.

2/ Includes Hong Kong (239), Western Samoa (83), United Kingdom (67), New Zealand (73), Tonga (69), and all other countries (711).

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

**Table 1.46-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER
ALLEGIANCE: 1989 TO 1994**

[Years ended September 30]

| Year | All countries | China and Taiwan | Korea | Philippines | United Kingdom | Vietnam | Other countries |
|----------|---------------|------------------|-------|-------------|----------------|---------------|-----------------|
| 1989.... | 6,426 | 870 | 670 | 3,292 | 158 | (<u>1/</u>) | 1,436 |
| 1990.... | 5,802 | 474 | 635 | 2,683 | 114 | 341 | 835 |
| 1991.... | 3,955 | 386 | 285 | 2,345 | 127 | 230 | 582 |
| 1992.... | 4,475 | 341 | 321 | 3,131 | 73 | 175 | 434 |
| 1993.... | 4,960 | 477 | 302 | 3,035 | 37 | 252 | 857 |
| 1994.... | 4,659 | <u>2/</u> 434 | 403 | 2,571 | 182 | 245 | <u>3/</u> 824 |

1/ Included with "other countries."

2/ Mainland China, 366; Taiwan, 68.

3/ Japan, 189; Canada, 54; Western Samoa, 60; American Samoa, 56; others 465.

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

**Table 1.47-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS:
1991 AND 1992**

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 16,492 persons 1 year old and over in 1991 and 13,943 persons 1 year old and over in 1992]

| Place of residence one year earlier | All groups | Armed forces <u>1/</u> | Military dependents <u>1/</u> | Other civilians |
|--|---------------|---------------------------|----------------------------------|--------------------|
| 1991 | | | | |
| Population 1 and over | 1,100,271 | 47,963 | 87,661 | 964,647 |
| Same house | 917,366 | 26,482 | 53,203 | 837,681 |
| Different house, same island | 102,526 | 7,756 | 10,604 | 84,166 |
| Different island | 5,569 | 82 | 298 | 5,189 |
| Different state | 54,864 | 11,196 | 20,382 | 23,286 |
| U.S. territory or possession | 717 | 18 | 18 | 681 |
| Different country | 11,204 | 1,761 | 2,575 | 6,868 |
| Previous residence not reported | 8,025 | 668 | 581 | 6,776 |
| Migrants <u>2/</u> | 66,785 | 12,975 | 22,975 | 30,835 |
| Percent of number reporting | 6.1 | 27.4 | 26.4 | 3.2 |
| 1992 | | | | |
| Population 1 and over | 1,120,026 | 47,064 | 81,249 | 991,713 |
| Same house | 943,893 | 28,115 | 52,059 | 863,719 |
| Different house, same island | 97,017 | 6,393 | 4,658 | 85,966 |
| Different island | 6,151 | - | - | 6,151 |
| Different state | 52,283 | 8,987 | 19,475 | 23,821 |
| U.S. territory or possession | 2,353 | 548 | 1,223 | 582 |
| Different country | 12,876 | 2,802 | 3,281 | 6,793 |
| Previous residence not reported | 5,453 | 219 | 553 | 4,681 |
| Migrants <u>2/</u> | 67,512 | 12,337 | 23,979 | 31,196 |
| Percent of number reporting | 6.1 | 26.3 | 29.7 | 3.2 |

1/ Armed forces and military dependents were greatly overrepresented in the 1991 and 1992 surveys. Actual totals for these groups in 1992 were 32,317 military personnel and 56,994 dependents.

2/ From different state, territory, or country.

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

**Table 1.48-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS:
1991 AND 1992**

[Based on response to question, "How likely is it that this person will be living some place other than Hawaii one year from today?" asked of samples of 16,492 persons in 1991 and 13,943 persons in 1992. Excludes persons living in institutions or barracks, in Kalawao, or on Niihau]

| Likelihood of out-migration | All groups | Armed forces ^{1/} | Military dependents ^{1/} | Other civilians |
|---|------------|----------------------------|-----------------------------------|-----------------|
| 1991 | | | | |
| Total | 1,115,906 | 47,962 | 91,703 | 976,241 |
| Almost certain to be living in Hawaii ... | 1,043,366 | 31,574 | 56,466 | 955,326 |
| Some possibility of living elsewhere ... | 35,372 | 2,473 | 5,591 | 27,308 |
| A good chance of living elsewhere | 10,051 | 1,426 | 2,451 | 6,174 |
| Almost certain to be living elsewhere.. | 43,145 | 8,967 | 20,183 | 13,995 |
| Not reported | 7,934 | 511 | - | 7,423 |
| 1992 | | | | |
| Total | 1,138,869 | 47,064 | 85,351 | 1,006,454 |
| Almost certain to be living in Hawaii ... | 1,043,366 | 31,574 | 56,466 | 955,326 |
| Some possibility of living elsewhere ... | 33,802 | 2,676 | 3,258 | 27,868 |
| A good chance of living elsewhere | 9,776 | 1,570 | 2,784 | 5,422 |
| Almost certain to be living elsewhere.. | 47,900 | 11,025 | 22,290 | 14,585 |
| Not reported | 4,025 | 219 | 553 | 3,253 |

^{1/} Armed forces and military dependents were greatly overrepresented in the 1991 and 1992 surveys. Actual totals for these groups in 1992 were 32,317 military personnel and 56,994 dependents.

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

**Table 1.49-- RESIDENCE IN 1985 OF PERSONS 5 YEARS AND OVER, FOR
THE STATE AND OAHU: 1990**

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

NA Not available.

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

Section 2

VITAL STATISTICS AND HEALTH

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

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1990 was 75.9 years for males and 82.1 years for females, well above national averages. There were 7,206 resident deaths in 1994, or 6.1 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 6.8 in 1994. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fourth. Resident live births in 1994 numbered 19,438, or 16.5 per 1,000 resident population. Fully 95.3 percent of all babies were born in hospitals in 1993, and 18.1 percent were born to military couples. More than one out of four births was to an unmarried woman. There were 7,198 fetal deaths in 1993, including 5,806 elective abortions. Marriages numbered 18,118 in 1994, with over 49 percent accounted for by nonresidents. Divorces reached a 1994 total of 4,933. The State had 23 acute care hospitals (with 2,649 beds), 41 long-term care facilities (with 3,502 beds), and 13 specialty care facilities (with 739 beds) in 1993. There were 2,844 physicians and surgeons, 1,012 dentists, 9,640 professional nurses, and 694 pharmacists licensed and living in Hawaii as of August 1994. Acute conditions per 100 persons numbered 239 in 1992, with respiratory conditions the most common complaint (at 178 cases per 100 persons). Among chronic conditions reported in the 1992 survey data, the most frequently mentioned were hypertension (8.1 per 100 persons), impairments of the back or spine (6.3), and hayfever (5.6). The most common communicable diseases reported to authorities in 1993 were influenza, with 2,531 cases, and chickenpox, with 2,303, but the most fatal was AIDS (129 deaths). State mental health facilities served 5,572 patients in 1994, but the number of in-patients at the end of the year was only 199. Among persons 18 years old and over in 1992, a fourth were heavy drinkers and a fifth were current regular cigarette smokers. Tooth decay was a serious problem among Island children.

The major source for data on vital statistics and health is the annual statistical report of the Hawaii State Department of Health. Long-term trends are traced in *Historical Statistics of Hawaii*, Section 2. Sections 2 and 3 of the *Statistical Abstract of the United States: 1995* contain data for the nation as a whole.

Table 2.01-- BIRTHS AND DEATHS: 1970 TO 1994

| Calendar year | Resident births <u>1/</u> | Resident deaths <u>1/</u> | Rates per 1,000 resident population <u>2/</u> | | Rates per 1,000 live births <u>3/</u> | | |
|---------------|---------------------------|---------------------------|---|--------|---------------------------------------|------------------------|-------------------------|
| | | | Births | Deaths | To unmarried mothers | Fetal deaths <u>4/</u> | Infant deaths <u>5/</u> |
| 1970 | 16,361 | 3,971 | 21.2 | 5.1 | 95.8 | 20.6 | 19.1 |
| 1971 | 15,780 | 4,130 | 19.7 | 5.2 | 88.4 | 23.5 | 16.0 |
| 1972 | 15,364 | 4,245 | 18.5 | 5.1 | 93.0 | 22.8 | 17.5 |
| 1973 | 15,328 | 4,356 | 18.0 | 5.1 | 104.0 | 16.4 | 13.7 |
| 1974 | 15,472 | 4,286 | 17.8 | 4.9 | 108.8 | 16.3 | 16.0 |
| 1975 | 15,689 | 4,272 | 17.7 | 4.8 | 123.2 | 18.9 | 13.7 |
| 1976 | 16,292 | 4,349 | 18.0 | 4.8 | 125.0 | 20.8 | 11.2 |
| 1977 | 16,874 | 4,349 | 18.4 | 4.7 | 143.3 | 21.6 | 12.3 |
| 1978 | 16,717 | 4,508 | 17.9 | 4.8 | 160.1 | 13.5 | 12.0 |
| 1979 | 17,513 | 4,791 | 18.4 | 5.0 | 163.5 | 13.1 | 10.9 |
| 1980 | 18,129 | 4,903 | 18.7 | 5.1 | 175.6 | 15.3 | 10.8 |
| 1981 | 18,174 | 4,927 | 18.6 | 5.0 | 181.8 | 13.1 | 10.5 |
| 1982 | 18,675 | 5,123 | 18.8 | 5.2 | 186.3 | 12.7 | 8.9 |
| 1983 | 19,090 | 5,409 | 18.8 | 5.3 | 197.8 | 11.4 | 10.0 |
| 1984 | 18,667 | 5,571 | 18.2 | 5.4 | 191.8 | 9.5 | 10.9 |
| 1985 | 18,267 | 5,751 | 17.6 | 5.5 | 201.3 | 9.7 | 9.1 |
| 1986 | 18,253 | 5,788 | 17.4 | 5.5 | 203.9 | 11.0 | 9.2 |
| 1987 | 18,555 | 6,149 | 17.4 | 5.8 | 213.7 | 9.2 | 8.8 |
| 1988 | 18,937 | 5,970 | 17.5 | 5.5 | 223.3 | 10.8 | 7.4 |
| 1989 | 19,335 | 6,381 | 17.7 | 5.8 | 239.0 | 9.9 | 8.4 |
| 1990 | 20,438 | 6,687 | 18.4 | 6.0 | 249.3 | 10.4 | 7.1 |
| 1991 | 19,880 | 6,696 | 17.5 | 5.9 | 262.5 | 10.5 | 7.0 |
| 1992 | 19,837 | 6,846 | 17.2 | 5.9 | 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 | 16.5 | 6.1 | 283.8 | 12.0 | 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 in present report.

3/ Place of occurrence basis.

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

5/ Under 1 year of age.

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

Table 2.02-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1990 TO 1993

[Place of occurrence basis]

| Subject | All groups | Armed forces | Civilians ^{1/} | | | Armed forces and dependents |
|-----------------------------------|------------|--------------|-------------------------|---------------------|-----------------|-----------------------------|
| | | | All civilians | Military dependents | Other civilians | |
| Live births: | | | | | | |
| 1990 | 20,528 | - | 20,528 | 4,091 | 16,437 | 4,091 |
| 1991 | 19,985 | - | 19,985 | 3,665 | 16,320 | 3,665 |
| 1992 | 19,949 | - | 19,949 | 3,875 | 16,074 | 3,875 |
| 1993 | 19,650 | - | 19,650 | 3,564 | 16,086 | 3,564 |
| Deaths: | | | | | | |
| 1990 | 7,055 | 40 | 7,015 | 85 | 6,930 | 125 |
| 1991 | 7,041 | 133 | 6,908 | 89 | 6,819 | 222 |
| 1992 | 7,177 | 164 | 7,013 | 80 | 6,933 | 244 |
| 1993 | 7,570 | 170 | 7,400 | 87 | 7,313 | 257 |
| Birth rates: ^{2/} | | | | | | |
| 1990 | 16.3 | 0 | 17.1 | 67.5 | 14.4 | 35.3 |
| 1991 | 15.7 | 0 | 16.4 | 57.9 | 14.1 | 31.0 |
| 1992 | 15.7 | 0 | 16.4 | 68.0 | 13.9 | 34.6 |
| 1993 | 15.5 | 0 | 16.2 | 57.3 | 14.0 | 31.0 |
| Death rates: ^{2/} | | | | | | |
| 1990 | 5.6 | 0.7 | 5.8 | 1.4 | 6.1 | 1.1 |
| 1991 | 5.5 | 2.4 | 5.7 | 1.4 | 5.9 | 1.9 |
| 1992 | 5.7 | 3.0 | 5.8 | 1.4 | 6.0 | 2.2 |
| 1993 | 6.0 | 3.2 | 6.1 | 1.4 | 6.4 | 2.2 |

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

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

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

Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1988 TO 1993

[Place of residence basis]

| Calendar year | Total deliveries | | Live births | Standard fetal deaths | Elective abortions |
|----------------------|------------------|----------------|-------------|-----------------------|--------------------|
| | Number | Rate <u>1/</u> | | | |
| 1988..... | 26,346 | 24.4 | 18,937 | 1,411 | 5,998 |
| 1989..... | 26,083 | 23.8 | 19,335 | 1,468 | 5,280 |
| 1990..... | 26,834 | 24.1 | 20,438 | 1,689 | 4,707 |
| 1991 <u>2/</u> | 27,289 | 24.1 | 19,880 | 1,717 | 5,692 |
| 1992..... | 27,297 | 23.7 | 19,837 | 1,518 | 5,942 |
| 1993 <u>3/</u> | 26,765 | 23.0 | 19,567 | 1,392 | 5,806 |

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

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

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

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

Table 2.04-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1991 TO 1993

| Event and year | Occurring in Hawaii | | | | Hawaii residents | |
|----------------|---------------------|----------|--------------|--------------|------------------|------------------------|
| | Total | Resident | Non-resident | Not reported | Total | Out of State <u>1/</u> |
| Births: | | | | | | |
| 1991..... | 19,985 | 19,880 | 104 | 1 | 19,924 | 44 |
| 1992..... | 19,949 | 19,837 | 111 | 1 | 19,863 | 26 |
| 1993..... | 19,650 | 19,567 | 82 | 1 | 19,595 | 28 |
| Deaths: | | | | | | |
| 1991..... | 7,041 | 6,696 | 335 | 10 | 6,894 | 198 |
| 1992..... | 7,177 | 6,846 | 323 | 8 | 7,072 | 226 |
| 1993..... | 7,570 | 7,226 | 341 | 3 | 7,426 | 200 |

1/ Death figures for 1992 and 1993 include persons born in Hawaii who became residents of other states.

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

Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1991 TO 1993

[Excludes births to Hawaii residents occurring out of state]

| Subject | 1991 | 1992 | 1993 |
|--|--------|--------|--------|
| Number of resident births | 19,880 | 19,837 | 19,567 |
| City and County of Honolulu | 14,756 | 14,827 | 14,599 |
| Percent on Oahu..... | 74.2 | 74.7 | 74.6 |
| Hawaii County | 2,278 | 2,234 | 2,118 |
| Kauai County | 983 | 892 | 961 |
| Maui County (incl. Kalawao) | 1,863 | 1,884 | 1,889 |
| Percent attended by M.D. or O.D. in hospital..... | 96.7 | 96.4 | 95.3 |
| Males per 100 females | 108.2 | 109.3 | 104.8 |
| Median weight of single births (grams)..... | 3,315 | 3,312 | 3,317 |
| Percent low birth weight (under 2,500 grams) | 6.8 | 7.2 | 6.9 |
| Percent single births under 40 weeks gestation..... | 48.1 | 54.9 | 55.1 |
| Percent plural | 2.2 | 2.1 | 2.2 |
| Percent with 1 or more congenital malformations | 1.6 | 1.5 | 1.6 |
| Percent to unmarried mothers | 26.3 | 26.5 | 27.3 |
| Percent with prenatal visit in first three months..... | 68.8 | 68.1 | 67.6 |
| Percent first child born to mother <u>1/</u> | 29.0 | 29.0 | 30.9 |
| Percent first child born alive to mother | 41.7 | 41.9 | 42.7 |
| Median age of mothers (years) | 27 | 27 | 27 |
| Median age of known fathers (years)..... | 29 | 29 | 30 |

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

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

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

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

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

Table 2.07-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF PARENTS: 1993

| Military status of parents | Total births | Unmixed | Mixed <u>1/</u> | Not reported <u>2/</u> | Percent mixed <u>3/</u> |
|----------------------------|--------------|---------|-----------------|------------------------|-------------------------|
| All groups..... | 19,567 | 8,640 | 9,767 | 1,160 | 53.1 |
| Military | 3,534 | 2,618 | 853 | 63 | 24.6 |
| Civilian | 14,214 | 6,021 | 8,185 | 8 | 57.6 |
| Status not reported..... | 1,819 | 1 | 729 | 1,089 | 99.9 |

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, records.

Table 2.08-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX: 1993

[A total of 7,361 first names, including variant spellings, was reported for the 19,650 babies born in Hawaii in 1993]

| Rank | Boys' names | | Girls' names | |
|---------|-------------------|--------|----------------|--------|
| | Name | Number | Name | Number |
| 1..... | Joshua..... | 178 | Ashley | 114 |
| 2..... | Michael..... | 159 | Jessica | 104 |
| 3..... | Matthew..... | 144 | Nicole | 92 |
| 4..... | Christopher..... | 133 | Kayla | 85 |
| 5..... | Brandon..... | 129 | Jasmine..... | 84 |
| 6..... | Justin (tie)..... | 119 | Taylor | 82 |
| 7..... | Tyler (tie)..... | 119 | Samantha | 72 |
| 8..... | Ryan..... | 118 | Brittany | 67 |
| 9..... | Nicholas | 100 | Lauren | 66 |
| 10..... | Jordan (tie)..... | 99 | Sarah..... | 65 |
| | Joseph (tie)..... | 99 | | |

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

Table 2.09-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1993

| Rank | Birth certificates | | Death certificates | |
|---------|-----------------------|--------|-----------------------|--------|
| | Surname | Births | Surname | Deaths |
| 1..... | Lee | 99 | Lee | 51 |
| 2..... | Kim | 80 | Wong..... | 45 |
| 3..... | Smith (tie) | 78 | Chang..... | 31 |
| 4..... | Wong (tie) | 78 | Nakamura (tie)..... | 29 |
| 5..... | Johnson..... | 63 | Young (tie)..... | 29 |
| 6..... | Ramos..... | 50 | Chun..... | 26 |
| 7..... | Williams | 47 | Fernandez (tie) | 25 |
| 8..... | Fernandez (tie) | 45 | Higa (tie)..... | 25 |
| 9..... | Young (tie)..... | 45 | Silva (tie) | 23 |
| 10..... | Nguyen..... | 44 | Yamamoto (tie)..... | 23 |

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

Table 2.10-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1910 TO 1994

[Average expectation of life (e_0) in years]

| Year | United States | | | Hawaii | | |
|-----------|---------------|------|--------|------------|-------|--------|
| | Both sexes | Male | Female | Both sexes | Male | Female |
| 1910..... | 50.0 | 48.4 | 51.8 | 43.96 | 44.04 | 43.83 |
| 1920..... | 54.1 | 53.6 | 54.6 | 45.69 | 45.64 | 45.75 |
| 1930..... | 59.7 | 58.1 | 61.6 | 53.95 | 52.70 | 55.86 |
| 1940..... | 62.9 | 60.8 | 65.2 | 62.00 | 59.92 | 64.86 |
| 1950..... | 68.2 | 65.6 | 71.1 | 69.53 | 67.77 | 71.67 |
| 1960..... | 69.7 | 66.6 | 73.1 | 72.42 | 70.39 | 74.75 |
| 1970..... | 70.8 | 67.1 | 74.7 | 74.20 | 72.12 | 76.44 |
| 1980..... | 73.7 | 70.0 | 77.4 | 78.02 | 75.04 | 81.45 |
| 1990..... | 75.4 | 71.8 | 78.8 | 78.88 | 75.91 | 82.12 |
| 1994..... | 75.7 | 72.3 | 79.0 | (NA) | (NA) | (NA) |

NA Not available.

Source: U.S. Bureau of the Census, *Historical Statistics of the United States, Colonial Times to 1970, Part 1* (1975), p. 55; U.S. Department of Health and Human Services, National Center for Health Statistics, "Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1994," *Monthly Vital Statistics Report*, Vol. 43, No. 13, October 23, 1995, p. 17; Hawaii State Department of Health, Office of Health Status Monitoring, "Life Tables by Ethnic Group for Hawaii, 1920-1970," *R & S Report*, No. 26 (June 1979), "Life Tables by Ethnic Group for Hawaii, 1980," *R & S Report*, No. 47 (March 1984), and unpublished provisional estimates for 1990.

Table 2.11-- CHARACTERISTICS OF RESIDENT DEATHS: 1991 TO 1993

[Excludes deaths to Hawaii residents occurring out of state]

| Subject | 1991 | 1992 | 1993 |
|--|-------|-------|-------|
| Number of resident deaths | 6,696 | 6,846 | 7,226 |
| City and County of Honolulu..... | 4,793 | 4,914 | 5,202 |
| Hawaii County..... | 880 | 916 | 973 |
| Kauai County..... | 358 | 369 | 398 |
| Maui County (incl. Kalawao)..... | 665 | 647 | 653 |
| Males per 100 females | 137.2 | 140.5 | 144.2 |
| Median age (years)..... | 73 | 73 | 74 |
| Centenarian deaths: Male..... | 23 | 9 | 14 |
| Female..... | 37 | 34 | 38 |
| Oldest (years): Male..... | 109 | 104 | 106 |
| Female..... | 107 | 111 | 110 |
| Percent married | 46.0 | 47.1 | 47.1 |
| Deaths under 1 year | 140 | 122 | 141 |
| Per 1,000 live births | 7.0 | 6.2 | 7.2 |
| Fetal deaths <u>1/</u> | 7,409 | 7,460 | 7,198 |
| Per 1,000 deliveries | 272 | 273 | 269 |
| Fetal deaths, 20 or more weeks gestation <u>2/</u> ... | 209 | 270 | 230 |
| Per 1,000 live births | 10.5 | 13.6 | 11.8 |
| Standard fetal deaths <u>3/</u> | 1,717 | 1,518 | 1,392 |
| Elective abortions..... | 5,692 | 5,942 | 5,806 |
| Per 1,000 live births | 286.3 | 299.5 | 296.7 |

1/ Includes elective abortions.

2/ Place of occurrence basis. Includes elective abortions if 20 weeks or more.

3/ Excludes elective abortions.

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

Table 2.12-- CAUSE OF DEATH, BY SEX: 1993

[Place of residence basis]

| Cause of death | Both sexes | Males | Females |
|---|------------|-------|---------|
| Total deaths | 7,226 | 4,267 | 2,959 |
| Tuberculosis | 5 | 2 | 3 |
| Other infective | 255 | 199 | 56 |
| Malignant neoplasm | 1,717 | 1,006 | 711 |
| Digestive organs | 589 | 356 | 233 |
| Respiratory system | 432 | 284 | 148 |
| Breast | 109 | 1 | 108 |
| Genital organs | 170 | 103 | 67 |
| Urinary organs | 63 | 45 | 18 |
| Leukemia | 61 | 33 | 28 |
| Other | 293 | 184 | 109 |
| Diabetes mellitus | 175 | 81 | 94 |
| Heart disease | 2,204 | 1,287 | 917 |
| Rheumatic | 12 | 4 | 8 |
| Hypertensive | 84 | 44 | 40 |
| Ischemic | 1,162 | 706 | 456 |
| Other heart | 946 | 533 | 413 |
| Hypertension | 35 | 20 | 15 |
| Cerebrovascular disease | 546 | 276 | 270 |
| Arteriosclerosis | 25 | 13 | 12 |
| Other circulatory | 118 | 81 | 37 |
| Influenza/pneumonia | 303 | 163 | 140 |
| Chronic obstructive pulmonary diseases | 259 | 166 | 93 |
| Peptic ulcer | 26 | 15 | 11 |
| Cirrhosis of liver | 82 | 58 | 24 |
| Nephritis and nephrosis | 76 | 46 | 30 |
| Pregnancy, birth & puerperium | - | - | - |
| Congenital anomalies | 44 | 26 | 18 |
| Perinatal conditions | 69 | 39 | 30 |
| Symptoms, signs & ill-defined conditions..... | 53 | 23 | 30 |
| Other diseases | 741 | 389 | 352 |
| Accidents | 272 | 204 | 68 |
| Motor vehicles | 133 | 98 | 35 |
| Other | 139 | 106 | 33 |
| Suicide | 123 | 104 | 19 |
| Homicide & legal intervention..... | 38 | 25 | 13 |
| Other external causes | 60 | 44 | 16 |

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

Table 2.13-- CATASTROPHIC MORTALITY: 1985 TO 1995

[Includes all accidents, natural disasters, and other events causing five or more deaths.
Complete through November 12, 1995]

| Date | Place | Kind of disaster | Deaths |
|----------------------|------------------------------|---|--------|
| 1985: Jan. 15..... | 540 mi. N. of Honolulu | Helicopter crash | 7 |
| 1987: Dec. 23..... | At sea W. of Molokai..... | Airplane disappearance .. | 8 |
| 1988: June 9..... | Near Waimanalo, Oahu | 2-car auto crash | 5 |
| July 9..... | Near Kawaihae, Hawaii | 2-car auto crash | 6 |
| 1989: Jan. 31..... | Texas..... | Crash of Hawaii-bound ... airplane | 19 |
| Feb. 24..... | 100 mi. S. of Honolulu | Airplane door lost | 9 |
| June 11..... | Waimanu, Hawaii..... | Airplane crash | 11 |
| Oct. 28..... | Halawa, Molokai..... | Airplane crash | 20 |
| 1990: Nov. 13..... | Near Puunene, Maui | 3-car auto crash | 5 |
| 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 |

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

**Table 2.14-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1970 TO 1993**

| Method | 1970 | 1980 | 1990 | 1991 | 1992 | 1993 |
|--------------------------|-------|-------|-------|-------|-------|-------|
| All methods | 4,197 | 5,204 | 7,055 | 7,041 | 7,177 | 7,570 |
| Burial..... | 2,197 | 2,343 | 2,798 | 2,723 | 2,751 | 2,925 |
| Cremation | 1,509 | 2,241 | 3,564 | 3,649 | 3,784 | 3,997 |
| Removal..... | 470 | 567 | 656 | 649 | 601 | 604 |
| Entombment..... | 13 | 44 | 35 | 12 | 17 | 18 |
| Educational purpose..... | 3 | - | - | 1 | 12 | 21 |
| Other..... | - | 1 | - | - | - | - |
| Unknown | 5 | 8 | 2 | 7 | 12 | 5 |

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

**Table 2.15-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1993 TO 1995**

| Date | State total | City and County of Honolulu | County of Hawaii | County of Kauai | County of Maui |
|---------------------|-------------|-----------------------------|------------------|-----------------|----------------|
| 1993: June 30 | 2,339 | 1,804 | 224 | 102 | 209 |
| 1994: June 30 | 2,377 | 1,783 | 255 | 102 | 237 |
| 1995: June 30..... | 2,358 | 1,760 | 261 | 107 | 230 |

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

Table 2.16-- CHRONIC CONDITIONS: 1992

| Selected chronic conditions | Prevalence of condition | Conditions per 1,000 persons |
|---------------------------------------|-------------------------|------------------------------|
| Malignant neoplasms..... | 12,122 | 10.6 |
| Benign and unspecified neoplasms..... | 6,332 | 5.6 |
| Thyroid disease | 17,793 | 15.6 |
| Diabetes..... | 25,448 | 22.3 |
| Mental and nervous condition..... | 17,953 | 15.8 |
| Heart disease | 35,197 | 30.9 |
| Hypertension | 92,182 | 80.9 |
| Varicose veins..... | 9,709 | 8.5 |
| Hemorrhoids..... | 14,008 | 12.3 |
| Bronchitis/emphysema | 22,307 | 19.6 |
| Asthma..... | 53,863 | 47.3 |
| Hayfever | 63,853 | 56.1 |
| Chronic sinusitis | 57,805 | 50.8 |
| Peptic ulcer | 9,137 | 8.0 |
| Gallbladder..... | 10,256 | 9.0 |
| Kidney disease | 8,887 | 7.8 |
| Skin condition..... | 44,558 | 39.1 |
| Arthritis..... | 47,125 | 41.4 |
| Visual impairment..... | 13,384 | 11.8 |
| Hearing impairment..... | 50,882 | 44.7 |
| Impairment of back or spine | 72,017 | 63.2 |
| Gout..... | 14,301 | 12.6 |

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

Table 2.17-- ACUTE CONDITIONS: 1992

| Condition | Incidence of condition per year | Conditions per 100 persons per year |
|-----------------------------------|---------------------------------|-------------------------------------|
| All acute conditions | 2,722,388 | 239.0 |
| Infective parasitic diseases..... | 121,871 | 10.7 |
| Respiratory condition..... | 2,021,680 | 177.5 |
| Digestive system condition | 57,001 | 5.0 |
| Injuries | 119,960 | 10.5 |
| All other acute conditions | 401,876 | 35.3 |

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

Table 2.18-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1992

| Type of limitation | Number |
|--|-----------|
| Persons with one or more chronic conditions | 509,997 |
| No limitation of activity | 372,361 |
| Limited, but not in major activity | 65,081 |
| Limited in amount or kind of activity..... | 34,698 |
| Unable to carry on major activity..... | 21,245 |
| Not reported..... | 16,612 |
| Restricted activity days in past month <u>1/</u> | 1,946,798 |
| Per person <u>2/</u> | 1.8 |

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

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

Table 2.19-- SPECIFIED COMMUNICABLE DISEASES: 1991 TO 1993

| Disease | Cases | | | Deaths | | |
|----------------------------------|-------|-------|-------|--------|------|------|
| | 1991 | 1992 | 1993 | 1991 | 1992 | 1993 |
| AIDS | 176 | 133 | 379 | 120 | 118 | 129 |
| Chickenpox | 825 | 1,009 | 2,303 | - | - | 1 |
| Gonorrhea | 695 | 686 | 614 | - | - | - |
| Hansen's Disease <u>1/</u> | 12 | 19 | 17 | - | - | - |
| Hepatitis, all types | 120 | 356 | 94 | 5 | 10 | 14 |
| Influenza | 135 | 135 | 2,531 | - | 1 | 1 |
| Leptospirosis <u>2/</u> | 33 | 31 | 24 | 1 | - | - |
| Malaria <u>3/</u> | 4 | 11 | 7 | - | - | - |
| Measles (Rubeola) | 12 | 46 | 20 | - | - | - |
| Meningitis, all types | 80 | 145 | 170 | 6 | 2 | 1 |
| Mumps | 30 | 28 | 31 | - | - | - |
| Rubella | 9 | 25 | 28 | - | - | - |
| Salmonellosis | 373 | 321 | 337 | - | - | - |
| Syphilis | 10 | 10 | 7 | - | - | - |
| Tuberculosis | 202 | 274 | 251 | 11 | 5 | 5 |

1/ Excludes reinstated cases.

2/ Includes previously unreported cases.

3/ Acquired outside the State.

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

Table 2.20-- HEALTH RISK BEHAVIORS FOR PERSONS 18 YEARS AND OLDER, BY PLACE OF RESIDENCE: 1992

[Percent of increased risk for morbidity and mortality]

| Risk factor | State | Oahu | Neighbor islands |
|---------------------------------------|-------|------|------------------|
| Seatbelt nonuse | 4.2 | 4.1 | 4.5 |
| Overweight (20 percent or more) | 24.9 | 24.6 | 26.3 |
| Hypertension | 14.8 | 14.9 | 14.6 |
| Sedentary lifestyle | 55.5 | 54.3 | 59.9 |
| Cigarette smoking | 20.1 | 18.2 | 27.1 |
| Chronic drinking <u>1/</u> | 5.8 | 5.4 | 7.5 |
| Acute drinking <u>2/</u> | 19.1 | 17.8 | 24.0 |
| Drinking and driving | 3.1 | 2.9 | 3.6 |

1/ Sixty or more drinks during past month.

2/ Five or more drinks on an occasion, one or more times a month.

Source: Hawaii State Department of Health, *Hawai'i's Health Risk Behaviors 1992* (January 1995), p.8.

Table 2.21-- HUNGER, BY AGE: 1992

[Includes all persons in households in which one or more individuals missed meals for economic reasons during the past year]

| Subject | All ages | Under 6 | 6 to 11 | 12 to 17 | 18 to 59 | 60 and over |
|--------------|----------|---------|---------|----------|----------|-------------|
| Number | 176,443 | 21,042 | 23,928 | 13,936 | 109,524 | 8,013 |
| Percent..... | 14.2 | 19.2 | 21.3 | 18.9 | 14.1 | 4.8 |

Source: SMS Research, *Homelessness and Hunger in Hawaii*, submitted to Homeless Aloha, June 15, 1992, p. 32.

Table 2.22-- TOOTH DECAY AMONG PUBLIC SCHOOL PUPILS, FOR THE UNITED STATES, 1986-1989, AND HAWAII, 1989

| Characteristics | U.S. | Hawaii |
|--|-------|--------|
| Dental caries prevalence per child: | | |
| Primary or deciduous teeth <u>1/</u> | 1.884 | 3.658 |
| Secondary or permanent teeth <u>2/</u> | 0.818 | 0.897 |
| Percent of 5-year old public school pupils with baby bottle tooth decay (3 or more decayed maxillary anterior teeth) | 5.0 | 15.8 |
| Percent of 6- to 8-year old students with-- | | |
| Untreated primary or permanent tooth decay <u>3/</u> | 27.0 | 36.2 |
| One or more decayed primary or permanent teeth | 53.0 | 96.9 |

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

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

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

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

Table 2.23-- HOME HEALTH CARE AGENCIES, HOSPICES, NURSING HOMES, AND BOARD AND CARE HOMES: 1991

| Type of facility | Number | Residents | Residents with reported age | |
|-------------------------------|--------|-----------|-----------------------------|-------------|
| | | | Total | 65 and over |
| Total | 380 | ... | ... | ... |
| Home health care agencies ... | 18 | ... | ... | ... |
| Hospices | 8 | ... | ... | ... |
| Nursing homes | 54 | 2,840 | 2,721 | 2,504 |
| Board and care homes | 300 | 2,267 | 1,289 | 849 |

Source: National Center for Health Statistics, "Urban and Rural Classification of National Health Provider Inventory Providers: United States, 1991," *Advance Data*, No. 266 (September 1995).

Table 2.24-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1988 TO 1993

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

| Category and year | Hospitals | | | | Care homes | |
|------------------------------|-----------------|------------|----------------|----------------|------------------|-------------------|
| | Total <u>1/</u> | Acute care | Long-term care | Specialty care | Type I <u>2/</u> | Type II <u>3/</u> |
| Number of facilities: | | | | | | |
| 1988 | 51 | 22 | 36 | 9 | 531 | 16 |
| 1989 | 52 | 22 | 38 | 8 | 515 | 16 |
| 1990 | 57 | 24 | 40 | 11 | 501 | 15 |
| 1991 | 59 | 24 | 41 | 13 | 494 | 14 |
| 1992 | 59 | 24 | 41 | 13 | 490 | 14 |
| 1993 | 57 | 23 | 41 | 13 | 486 | 13 |
| Number of beds: | | | | | | |
| 1988 | 6,671 | 2,855 | 2,995 | 821 | 2,235 | 490 |
| 1989 | 6,854 | 2,855 | 3,191 | 808 | 2,184 | 481 |
| 1990 | 7,401 | 3,175 | 3,416 | 810 | 2,162 | 449 |
| 1991 | 7,433 | 3,169 | 3,475 | 789 | 2,159 | 450 |
| 1992 | 7,410 | 3,174 | 3,497 | 739 | 2,175 | 436 |
| 1993 | 6,890 | 2,649 | 3,502 | 739 | 2,164 | 413 |

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

2/ Five beds or fewer.

3/ Six beds or more.

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

Table 2.25-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1988 TO 1993

[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: | | | | |
| 1988 ^{1/} | 117,548 | 2,074 | 6.4 | 73.3 |
| 1989 | 91,686 | 1,722 | 6.7 | 73.3 |
| 1990 | 93,511 | 1,755 | 6.8 | 69.4 |
| 1991 | 96,961 | 1,814 | 6.8 | 70.0 |
| 1992 | 98,973 | 1,837 | 6.8 | 71.1 |
| 1993 | 100,290 | 1,848 | 6.7 | 71.1 |
| Long-term care: | | | | |
| 1988 ^{1/} | 2,746 | 2,907 | 376 | 91.7 |
| 1989 | 2,653 | 2,993 | 409 | 93.5 |
| 1990 | 3,137 | 3,165 | 368 | 93.1 |
| 1991 | 3,181 | 3,216 | 369 | 93.4 |
| 1992 | 3,255 | 3,343 | 375 | 96.2 |
| 1993 | 3,346 | 3,339 | 364 | 95.1 |

^{1/} Excludes statistics for Lanai.

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

Table 2.26-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1993

[Facilities recognized by the Hawaii State Health Planning and Development Agency. Excludes Tripler Army Medical Center, which had a bed capacity of 535]

| Category and island | Hospitals | | | | Care homes | |
|-----------------------------|-----------------|------------|----------------|----------------|------------------|-------------------|
| | Total <u>1/</u> | Acute care | Long-term care | Specialty care | Type I <u>2/</u> | Type II <u>3/</u> |
| NUMBER OF FACILITIES | | | | | | |
| State total | 57 | 23 | 41 | 13 | 486 | 13 |
| Oahu | 38 | 11 | 25 | 10 | 394 | 10 |
| Hawaii | 7 | 4 | 7 | - | 49 | - |
| Kauai | 6 | 3 | 5 | 1 | 20 | 2 |
| Maui | 3 | 3 | 2 | 1 | 15 | - |
| Molokai | 2 | 1 | 1 | 1 | 8 | 1 |
| Lanai | 1 | 1 | 1 | - | - | - |
| NUMBER OF BEDS | | | | | | |
| State total | 6,890 | 2,649 | 3,502 | 739 | 2,164 | 413 |
| Oahu | 5,191 | 2,118 | 2,359 | 714 | 1,803 | 354 |
| Hawaii | 746 | 252 | 494 | - | 193 | - |
| Kauai | 397 | 114 | 276 | 7 | 72 | 45 |
| Maui | 498 | 151 | 343 | 4 | 62 | - |
| Molokai | 44 | 8 | 22 | 14 | 34 | 14 |
| Lanai | 14 | 6 | 8 | - | - | - |

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

2/ Five beds or fewer.

3/ More than five beds.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County, 1993* (revised edition, January 1995), and Hospital and Medical Facilities Branch, records.

Table 2.27-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1993

[Excludes Tripler Army Medical Center]

| Type of facility and island | Admissions | Average daily census | Average length of stay (days) | Average daily percent occupancy |
|-----------------------------|------------|----------------------|-------------------------------|---------------------------------|
| ACUTE CARE | | | | |
| State total | 100,290 | 1,848 | 6.7 | 71.1 |
| Oahu | 75,292 | 1,491 | 7.2 | 71.9 |
| Hawaii | 11,422 | 148 | 4.7 | 59.0 |
| Kauai | 4,827 | 65 | 4.9 | 56.9 |
| Maui | 8,602 | 142 | 6.0 | 96.8 |
| Molokai | 137 | 1 | 2.2 | 10.3 |
| Lanai | 10 | 1 | 1.7 | 0.8 |
| LONG-TERM CARE | | | | |
| State total | 3,346 | 3,339 | 364 | 95.1 |
| Oahu | 2,400 | 2,212 | 336 | 93.9 |
| Hawaii | 385 | 519 | 492 | 100.5 |
| Kauai | 352 | 251 | 260 | 94.6 |
| Maui | 136 | 334 | 897 | 97.4 |
| Molokai | 64 | 16 | 91 | 72.5 |
| Lanai | 9 | 7 | 271 | 83.5 |

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County, 1993* (revised edition, January 1995).

**Table 2.28-- SELECTED HEALTH STATISTICS FOR THE UNITED STATES
AND HAWAII: 1991-1993**

| Subject | United States | Hawaii | |
|---|---------------|--------|----------------|
| | | Number | Rank <u>1/</u> |
| Health Maintenance Organizations, 1993: | | | |
| Number..... | 546 | 5 | 32 |
| Enrollment (1,000)..... | 46,722 | 252.7 | 32 |
| Percent of population | 18.5 | 21.0 | 12 |
| Preferred provider plans (managed care): | | | |
| Number, October 1993..... | 895 | 3 | 43 |
| Enrollment, December 1992 (1,000)..... | 50,478 | 404.4 | (NC) |
| Community hospitals, 1992: | | | |
| Occupancy rate (percent)..... | 65.6 | 82.6 | 2 |
| Average length of stay (days)..... | 7.1 | 8.9 | 6 |
| Cost per patient day (dollars)..... | 820 | 761 | 28 |
| Cost per patient stay (dollars)..... | 5,794 | 6,876 | 4 |
| Hospital visits per 1,000 population, 1991: | | | |
| Admissions..... | (NC) | 107 | 49 |
| Emergency room visits..... | (NC) | 294 | 46 |
| Outpatient visits | (NC) | 1,190 | 43 |
| Surgical operations in hospitals, 1992 (1,000)..... | 23,959 | 71.7 | 45 |

NC Not calculated.

1/ Among 50 States.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data 1994* (1995), pp. 44, 48, 98, 99, 128.

**Table 2.29-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1986 TO 1994**

| Facilities and year | Persons active, Dec. 31 | Admissions | Discharges | Persons served |
|--|------------------------------------|-------------------|-------------------|-----------------------|
| Hawaii State Hospital: | | | | |
| 1986 | 238 | 607 | 593 | 831 |
| 1987 | 214 | 675 | 699 | 913 |
| 1988 | 237 | 712 | 689 | 926 |
| 1989 | 220 | 777 | 794 | 1,014 |
| 1990 | 193 | 738 | 765 | 958 |
| 1991 | 159 | 311 | 345 | 504 |
| 1992 | 198 | 394 | 355 | 553 |
| 1993 | 195 | 446 | 449 | 644 |
| 1994 | 199 | 275 | 271 | 470 |
| State-supported outpatient community mental health centers: | | | | |
| 1986 | 2,389 | 1,759 | 2,194 | 4,583 |
| 1987 | 2,563 | 2,158 | 1,984 | 4,547 |
| 1988 | 2,612 | 2,092 | 2,043 | 4,655 |
| 1989 | 2,369 | 1,840 | 2,083 | 4,452 |
| 1990 | 2,505 | 1,764 | 1,628 | 4,133 |
| 1991 | 3,037 | 2,494 | 1,962 | 4,999 |
| 1992 | 3,509 | 2,182 | 1,710 | 5,219 |
| 1993 | 3,410 | 2,004 | 2,103 | 5,513 |
| 1994 | 3,246 | 1,692 | 1,856 | 5,102 |

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

**Table 2.30-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1991 TO 1995**

[Includes children's unit at Leahi Hospital assigned to the Hawaii State Hospital]

| Year | Number of beds, June 30 | Admissions <u>1/</u> | | Patients in hospital <u>2/</u> | |
|-----------|----------------------------|----------------------|-------|--------------------------------|---------|
| | | Total | First | Average <u>1/</u> | June 30 |
| 1991..... | 215 | 354 | 293 | 195 | 165 |
| 1992..... | 202 | 398 | 324 | 182 | 197 |
| 1993..... | 202 | 447 | 344 | 182 | 195 |
| 1994..... | 202 | 273 | 216 | 181 | 199 |
| 1995..... | 202 | 151 | 112 | 186 | 171 |

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

Table 2.31-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1992 TO 1995

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

| Year | Beds, June 30 | Admissions <u>1/</u> | Patients in residence | | Patients on leave, June 30 |
|-----------|------------------|----------------------|-----------------------|---------|----------------------------------|
| | | | Average <u>2/</u> | June 30 | |
| 1992..... | 172 | 1 | 114 | 112 | - |
| 1993..... | 172 | 4 | 101 | 82 | - |
| 1994..... | 172 | - | 82 | 80 | - |
| 1995..... | 172 | 3 | 77 | 75 | 3 |

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

Table 2.32-- HANSEN'S DISEASE PATIENTS REGISTERED: 1989 TO 1993

| Subject | 1989 | 1990 | 1991 | 1992 | 1993 |
|---------------------------------|------|------|------|------|------|
| Patients on register, Dec. 31.. | 541 | 498 | 487 | 479 | 460 |
| At home..... | 447 | 405 | 397 | 393 | 378 |
| Kalaupapa | 90 | 89 | 86 | 83 | 79 |
| Hale Mohalu at Leahi..... | 4 | 4 | 4 | 3 | 3 |
| New cases..... | 18 | 18 | 19 | 19 | 17 |
| Deaths..... | 14 | 9 | 3 | 8 | 10 |

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

Table 2.33-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: AUGUST 11, 1994

| Place of address | Physicians and surgeons <u>1/</u> | Dentists | Registered nurses | Pharmacists |
|------------------------|-----------------------------------|----------|-------------------|-------------|
| Total licensed..... | 5,243 | 1,316 | 12,368 | 1,191 |
| Hawaii addresses | 2,844 | 1,012 | 9,640 | 694 |
| Hawaii | 221 | 94 | 884 | 72 |
| Maui | 194 | 58 | 986 | 57 |
| Lanai | 1 | 2 | 16 | - |
| Molokai..... | 7 | 4 | 38 | 2 |
| Oahu | 2,326 | 815 | 7,329 | 532 |
| Kauai..... | 95 | 39 | 387 | 31 |
| Niihau..... | - | - | - | - |
| Mainland U.S..... | 2,307 | 296 | 2,507 | 489 |
| Foreign..... | 92 | 8 | 221 | 8 |

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 2.34-- MARRIAGES AND DIVORCES: 1970 TO 1994

[Place of occurrence basis]

| Calendar year | Marriages | | Divorces and annulments <u>2/</u> | Rates per 1,000 resident population | | Percent of marriages | |
|---------------|-----------|--------------------|-----------------------------------|-------------------------------------|--------------------------------|-----------------------|------------------------|
| | Total | Resident <u>1/</u> | | Resident marriages | Divorces, annulments <u>2/</u> | Nonresident <u>3/</u> | Inter-racial <u>4/</u> |
| 1970..... | 10,599 | 7,889 | 2,589 | 10.2 | 3.4 | 25.6 | 40.7 |
| 1971..... | 9,734 | 8,104 | 3,691 | 10.1 | 4.6 | 16.7 | 42.7 |
| 1972..... | 9,750 | 8,482 | 3,891 | 10.2 | 4.7 | 13.0 | 41.7 |
| 1973..... | 9,776 | 8,656 | 4,170 | 10.2 | 4.9 | 11.5 | 43.7 |
| 1974..... | 9,649 | 8,500 | 4,111 | 9.8 | 4.7 | 11.9 | 43.2 |
| 1975..... | 9,673 | 8,440 | 4,265 | 9.5 | 4.8 | 12.7 | 43.1 |
| 1976..... | 9,769 | 8,318 | 4,712 | 9.2 | 5.2 | 14.9 | 43.2 |
| 1977..... | 10,266 | 8,427 | 4,601 | 9.2 | 5.0 | 17.9 | 43.3 |
| 1978..... | 10,736 | 8,650 | 4,837 | 9.3 | 5.2 | 19.4 | 44.5 |
| 1979..... | 11,678 | 9,424 | 5,055 | 9.9 | 5.3 | 19.3 | 44.6 |
| 1980..... | 11,856 | 9,442 | 4,438 | 9.7 | 4.6 | 20.4 | 44.4 |
| 1981..... | 12,218 | 9,445 | 4,253 | 9.7 | 4.3 | 22.7 | 44.5 |
| 1982..... | 13,483 | 10,053 | 4,233 | 10.1 | 4.3 | 25.4 | 45.0 |
| 1983..... | 14,062 | 10,216 | 4,583 | 10.1 | 4.5 | 27.3 | 45.5 |
| 1984..... | 14,982 | 10,020 | 4,769 | 9.7 | 4.6 | 33.3 | 46.3 |
| 1985..... | 15,421 | 9,893 | 4,887 | 9.5 | 4.7 | 35.8 | 46.9 |
| 1986..... | 16,219 | 9,571 | 4,674 | 9.1 | 4.4 | 30.4 | 46.5 |
| 1987..... | 16,567 | 9,714 | 4,419 | 9.1 | 4.1 | 41.3 | 44.6 |
| 1988..... | 17,281 | 9,708 | 5,020 | 9.0 | 4.6 | 43.8 | 42.9 |
| 1989..... | 17,974 | 9,952 | 5,613 | 9.1 | 5.1 | 44.6 | 44.3 |
| 1990..... | 18,306 | 10,407 | 5,179 | 9.4 | 4.7 | 43.1 | 45.9 |
| 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 | 4,933 | 7.9 | 4.2 | 48.6 | (NA) |

NA Not available.

1/ One or both partners residents of Hawaii.

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

3/ Both partners nonresidents of Hawaii.

4/ Excludes nonresident marriages.

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

**Table 2.35-- MARRIAGE AND DIVORCE RATES BASED ON RISK
POPULATION: 1910 TO 1990**

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

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

2/ Annual averages for two-year periods centering on each census date. Place of occurrence basis. Marriage data for 1969-1970 and later years exclude nonresident marriages.

3/ Single, widowed or divorced.

4/ Includes separated persons.

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

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

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

**Table 2.36-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1990 TO 1993**

[Place of occurrence basis]

| Subject | 1990 | 1991 | 1992 | 1993 |
|--|--------|--------|--------|--------|
| MARRIAGES | | | | |
| Number | 18,306 | 17,764 | 17,725 | 17,252 |
| Percent on Oahu | 58.3 | 57.9 | 58.0 | 57.7 |
| Percent Hawaii residents: | | | | |
| Both bride and groom | 53.1 | 52.4 | 52.7 | 52.6 |
| One partner only | 3.7 | 4.2 | 4.0 | 3.9 |
| Neither bride nor groom | 43.1 | 43.4 | 43.3 | 43.5 |
| Median age (years): | | | | |
| Groom | 31 | 31 | 31 | 31 |
| Bride | 28 | 29 | 29 | 29 |
| Percent previously married: | | | | |
| Groom | 39.5 | 38.8 | 38.1 | 36.8 |
| Bride | 40.1 | 39.2 | 38.5 | 37.4 |
| DIVORCES AND ANNULMENTS | | | | |
| Number | 5,179 | 5,184 | 5,040 | 4,888 |
| Divorces | 5,163 | 5,161 | 5,024 | 4,878 |
| Annulments | 10 | 13 | 14 | 10 |
| Not reported | 6 | 10 | 2 | - |
| Percent occurring on Oahu | 77.5 | 76.7 | 74.2 | 72.2 |
| Percent Hawaii residents: | | | | |
| Both partners | 73.9 | 76.4 | 76.4 | 75.5 |
| One partner only | 26.0 | 23.3 | 23.4 | 24.3 |
| Neither partner | 0.2 | 0.2 | 0.2 | 0.2 |
| Median age (years): | | | | |
| Husband | 35 | 35 | 35 | 36 |
| Wife | 33 | 33 | 33 | 34 |
| Percent interracial ^{1/} | 40.3 | 40.0 | 39.9 | 41.8 |
| Percent with children under 18 years ... | 52.1 | 52.1 | 52.1 | 51.8 |
| Median years married | 6.3 | 6.3 | 6.3 | 6.4 |

^{1/} For these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

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

Table 2.37-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1993

| Race mixture and type of ceremony | Total | At least one partner Hawaii resident | Both partners nonresidents |
|---|--------|--------------------------------------|----------------------------|
| All marriages..... | 17,252 | 9,744 | 7,508 |
| Race of partners: | | | |
| Both partners same race ^{1/} | 12,122 | 5,445 | 6,677 |
| Different | 5,130 | 4,299 | 831 |
| Percent different | 29.7 | 44.1 | 11.1 |
| Type of ceremony: | | | |
| Civil ceremony..... | 4,495 | 3,728 | 767 |
| Religious ceremony | 12,757 | 6,016 | 6,741 |
| Unknown..... | - | - | - |

^{1/} Includes marriages with both partners of unknown race.

Source: Hawaii State Department of Health, special tabulations.

Table 2.38-- MARITAL DISSOLUTION: 1980 TO 1993

| Subject | 1980 | 1990 | 1993 | Percent | | |
|----------------------|---------|---------|---------|---------|-------|-------|
| | | | | 1980 | 1990 | 1993 |
| Married couples..... | 185,698 | 210,468 | 224,000 | 100.0 | 100.0 | 100.0 |
| Marriages ended..... | 6,782 | 8,292 | 8,281 | 3.7 | 3.9 | 3.7 |
| By divorce | 4,438 | 5,172 | 4,878 | 2.4 | 2.5 | 2.2 |
| By death | 2,344 | 3,120 | 3,403 | 1.3 | 1.5 | 1.5 |
| Husbands | 1,678 | 2,234 | 2,474 | 0.9 | 1.1 | 1.1 |
| Wives..... | 666 | 886 | 929 | 0.4 | 0.4 | 0.4 |

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; 1993 DBEDT estimate of married couples, based on 1990-93 percent increase in households.

Table 2.39-- PERSONAL HEALTH CARE EXPENDITURES, BY TYPE: 1993

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

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

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

Table 2.40-- HEALTH CARE EXPENDITURES: 1980 AND 1991

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

| Type | 1980 (million dollars) | 1991 (million dollars) | Average annual percent change, 1980-91 |
|--|------------------------------|------------------------------|--|
| Total | 655 | 2,144 | 11.4 |
| Hospital care | 360 | 1,287 | 12.3 |
| Physician services..... | 251 | 719 | 10.0 |
| Prescription drugs (retail purchases)..... | 44 | 137 | 10.9 |

Source: U.S. Health Care Financing Administration and Office of National Health Statistics, cited in *Statistical Abstract of the United States: 1994*, p. 111.

Section 3

EDUCATION

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

Enrollment in elementary, intermediate and high schools in 1994-1995 totaled 219,224, compared with the previous all-time high of 216,000 reached in 1971-1972. There were 242 public schools with 11,602 classroom teachers and 183,795 students (83.8 percent of the total). There were also 132 private schools with 2,443 teachers and 35,429 pupils. Students graduating from public and private high schools in 1993-1994 numbered 12,307. Some 64,000 students attended colleges and universities in the State in Fall 1994, including 20,000 on the Manoa Campus of the University of Hawaii, 700 at UH-West Oahu, 2,900 at UH-Hilo, 27,800 at seven community colleges, and 12,400 in three private colleges and universities. The expenditure per pupil in public schools rose from \$2,701 in 1981-1982 to \$5,740 in 1993-1994. In scholastic aptitude tests, Hawaii students scored close to the national norms in the math component but considerably below in the verbal component. Among adults, an estimated 19 percent were functionally illiterate in English as of 1988. As of March 1993, almost one-fourth of all residents 25 years of age or more have completed four or more years of college. The Hawaii State Library System, with 49 locations on six islands, had 3.1 million books, 8,500 periodical subscriptions, 21,800 video tapes, and 110,000 sound recordings in 1994, with an annual circulation of 7.3 million. The University of Hawaii libraries in 1994 counted 3.4 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii, and private colleges and universities. *Historical Statistics of Hawaii*, Section 9, contains Island data back to 1820. Section 4 of the *Statistical Abstract of the United States: 1995* 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 <u>1/</u> | 20.5 | 31.6 | 46.1 | 61.9 | 73.8 | 80.1 |
| Percent 4 years of college or more <u>2/</u> | 5.3 | 6.1 | 9.0 | 14.0 | 20.3 | 22.9 |

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

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

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 47; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 46; *1980 Census of Population*, PC80-1-C-13, table 61; *1990 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 | Hono-lulu | Kala-wao | Kauai | Maui |
|-------------------------------------|-------------|--------|-----------|----------|--------|--------|
| Population 25 years and over | 709,820 | 77,099 | 534,187 | 130 | 33,045 | 65,359 |
| Percent -- | | | | | | |
| High school graduate or higher | 80.1 | 77.7 | 81.2 | 51.5 | 73.1 | 77.0 |
| With bachelor's degree or higher . | 22.9 | 18.5 | 24.6 | 4.6 | 16.3 | 17.8 |

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

Table 3.05-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, FOR THE UNITED STATES AND HAWAII: MARCH 1993

[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.) <u>1/</u> | Percent | 1.6*(s.e.) <u>1/</u> |
| United States | 162,826 | 80.2 | 0.3 | 21.9 | 0.3 |
| Hawaii..... | 773 | 86.6 | 1.9 | 25.1 | 2.4 |
| Rank <u>2/</u> | 40 | 8 | ... | 9 | ... |

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 1993 and 1992," *Current Population Reports, Population Characteristics*, Series P-20-476, May 1994, pp. 1 and 83.

Table 3.06-- PRIVATE EDUCATIONAL SERVICES (SIC 82), BY TYPE OF SERVICE: 1993

| 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 | 273 | 67 | 9,384 | 204,087 |
| 821 | Elementary and secondary schools . | 97 | 48 | 5,219 | 136,441 |
| 822 | Colleges and universities | 21 | 7 | 3,101 | 53,130 |
| 823 | Libraries..... | 3 | 1 | 34 | 706 |
| 824 | Vocational schools | 23 | 2 | 168 | 3,370 |
| 829 | Schools and educ. services, n.e.c. .. | 126 | 9 | 862 | 10,440 |

Source: U.S. Bureau of the Census, *County Business Patterns 1993, Hawaii*, CBP-93-13 (August 1995), p. 12.

Table 3.07-- LITERACY IN ENGLISH: NOVEMBER 1988 - JANUARY 1989

[Based on results of a test given to a sample of 814 Hawaii residents 18 years and over]

| Characteristic | Estimated population 18 and over | Functional level <u>1</u> / (percent) | | |
|----------------------------|----------------------------------|--|----|----|
| | | 1 | 2 | 3 |
| State total | 796,001 | <u>2</u> / 19 | 28 | 53 |
| County of residence: | | | | |
| Honolulu | 623,524 | 15 | 26 | 59 |
| Hawaii | 75,783 | 37 | 34 | 29 |
| Maui | 63,240 | 36 | 34 | 30 |
| Kauai | 33,454 | 26 | 32 | 42 |
| Age: | | | | |
| 18 to 34 years | 326,232 | 13 | 26 | 61 |
| 35 to 49 years | 228,353 | 14 | 27 | 59 |
| 50 to 64 years | 119,628 | 25 | 30 | 45 |
| 65 years and over | 121,788 | 42 | 30 | 28 |
| Sex: | | | | |
| Male | 392,747 | 19 | 30 | 52 |
| Female | 403,254 | 20 | 26 | 54 |
| Years of school completed: | | | | |
| Less than 9 years | 54,924 | 77 | 21 | 2 |
| 9 to 11 years | 81,192 | 54 | 35 | 11 |
| 12 years or more | 659,885 | 6 | 21 | 73 |

1/ Level 1 refers to "adults who function with difficulty," that is, those who are "functionally illiterate." Level 2 refers to "functional adults." Level 3 includes adults classified as "competent" or "proficient."

2/ Estimated at 153,664.

Source: Omnitrack Research and Marketing Group, Inc., for the Governor's Office of Children and Youth, Governor's Council on Literacy, *Hawaii Statewide Literacy Assessment (HSLA), November 1988-January 1989*, (1989), tables 1, 1a, 2, and 6.

Table 3.08-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1984-1985 TO 1994-1995

| School year | Schools (September) | | | Teachers (September) | | |
|-------------------------|---------------------|--------|---------|----------------------|--------|---------|
| | Total | Public | Private | Total | Public | Private |
| 1984-85 | 372 | 231 | 141 | 10,453 | 8,060 | 2,393 |
| 1985-86 | 373 | 232 | 141 | 10,677 | 8,221 | 2,456 |
| 1986-87 | 377 | 232 | 145 | 10,788 | 8,244 | 2,544 |
| 1987-88 | 369 | 231 | 138 | 11,168 | 8,632 | 2,536 |
| 1988-89 | 376 | 235 | 141 | 11,485 | 8,973 | 2,512 |
| 1989-90 | 374 | 238 | 136 | 11,856 | 9,202 | 2,654 |
| 1990-91 | 372 | 238 | 134 | 13,206 | 10,721 | 2,485 |
| 1991-92 | 368 | 239 | 129 | 13,676 | 11,116 | 2,580 |
| 1992-93 | 368 | 238 | 130 | 13,658 | 11,326 | 2,332 |
| 1993-94 <u>1/</u> | 370 | 241 | 129 | 13,769 | 11,445 | 2,324 |
| 1994-95 <u>1/</u> | 374 | 242 | 132 | 14,045 | 11,602 | 2,443 |

| School year | Enrollment (September) | | | High school graduates | | |
|-------------------------|------------------------|---------|---------|-----------------------|--------|---------|
| | Total | Public | Private | Total | Public | Private |
| 1984-85 | 200,869 | 163,860 | 37,009 | 12,516 | 10,092 | 2,424 |
| 1985-86 | 200,952 | 164,169 | 36,783 | 12,468 | 9,958 | 2,510 |
| 1986-87 | 201,188 | 164,640 | 36,548 | 13,097 | 10,491 | 2,606 |
| 1987-88 | 202,419 | 166,240 | 36,179 | 13,448 | 10,800 | 2,648 |
| 1988-89 | 203,358 | 167,899 | 35,459 | 13,100 | 10,597 | 2,503 |
| 1989-90 | 205,591 | 169,904 | 35,687 | 11,717 | 9,335 | 2,382 |
| 1990-91 | 207,558 | 171,793 | 35,765 | 11,948 | 9,571 | 2,377 |
| 1991-92 | 210,271 | 175,114 | 35,157 | 12,009 | 9,649 | 2,360 |
| 1992-93 | 212,448 | 177,806 | 34,642 | 11,621 | 9,320 | 2,301 |
| 1993-94 <u>1/</u> | 215,708 | 180,428 | 35,280 | 12,307 | 9,870 | 2,437 |
| 1994-95 <u>1/</u> | 219,224 | 183,795 | 35,429 | (NA) | (NA) | (NA) |

NA Not available.

1/ Data exclude U.H. Lab School.

Source: Hawaii State Department of Education, records.

Table 3.09-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 1993, AND HIGH SCHOOL GRADUATES, 1992-1993, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

| Island | Number of schools, September 1993 | | | Number of teachers, September 1993 | | |
|------------------|--------------------------------------|------------------|---------|---|------------------|---------|
| | Total | Public <u>1/</u> | Private | Total | Public <u>1/</u> | Private |
| State total | 370 | 241 | 129 | 13,769 | 11,445 | 2,324 |
| Hawaii | 48 | 33 | 15 | (NA) | (NA) | 174 |
| Maui | 35 | 22 | 13 | (NA) | (NA) | 153 |
| Lanai | 1 | 1 | - | (NA) | (NA) | - |
| Molokai | 7 | 5 | 2 | (NA) | (NA) | 6 |
| Oahu | 258 | 166 | 92 | (NA) | (NA) | 1,936 |
| Kauai | 20 | 13 | 7 | (NA) | (NA) | 55 |
| Niihau | 1 | 1 | - | (NA) | (NA) | - |
| Island | Enrollment, September 1993 | | | High school graduates, 1992-1993 school year | | |
| | Total | Public <u>1/</u> | Private | Total | Public <u>1/</u> | Private |
| State total | 215,708 | 180,428 | 35,280 | 11,621 | 9,320 | 2,301 |
| Hawaii | 29,433 | 27,023 | 2,410 | 1,476 | 1,339 | 137 |
| Maui | 19,571 | 17,265 | 2,306 | 1,021 | 897 | 124 |
| Lanai | 568 | 568 | - | 34 | 34 | - |
| Molokai | 1,800 | 1,758 | 42 | 85 | 85 | - |
| Oahu | 152,688 | 122,970 | 29,718 | 8,427 | 6,393 | 2,034 |
| Kauai | 11,637 | 10,833 | 804 | 573 | 569 | 6 |
| Niihau | 11 | 11 | - | 3 | 3 | - |

NA Not available.

1/ Data exclude UH Lab School, Honolulu (26 teachers, 357 students, and 44 graduates).

Source: Hawaii State Department of Education, records.

Table 3.10-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 1994, AND HIGH SCHOOL GRADUATES, 1993-1994, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

| Island | Number of schools, September 1994 | | | Number of teachers, September 1994 | | |
|------------------|--------------------------------------|------------------|---------|---|------------------|---------|
| | Total | Public <u>1/</u> | Private | Total | Public <u>1/</u> | Private |
| State total | 374 | 242 | 132 | 14,045 | 11,602 | 2,443 |
| Hawaii | 49 | 34 | 15 | (NA) | (NA) | 196 |
| Maui | 38 | 22 | 16 | (NA) | (NA) | 172 |
| Lanai | 1 | 1 | - | (NA) | (NA) | - |
| Molokai | 7 | 5 | 2 | (NA) | (NA) | 5 |
| Oahu | 258 | 166 | 92 | (NA) | (NA) | 2,021 |
| Kauai | 20 | 13 | 7 | (NA) | (NA) | 49 |
| Niihau | 1 | 1 | - | (NA) | (NA) | - |
| Island | Enrollment, September 1994 | | | High school graduates, 1993-1994 school year | | |
| | Total | Public <u>1/</u> | Private | Total | Public <u>1/</u> | Private |
| State total | 219,224 | 183,795 | 35,429 | 12,307 | 9,870 | 2,437 |
| Hawaii | 30,164 | 27,788 | 2,376 | 1,682 | 1,501 | 181 |
| Maui | 20,313 | 17,877 | 2,436 | 1,051 | 911 | 140 |
| Lanai | 599 | 599 | - | 33 | 33 | - |
| Molokai | 1,847 | 1,788 | 59 | 104 | 104 | - |
| Oahu | 154,557 | 124,780 | 29,777 | 8,771 | 6,661 | 2,110 |
| Kauai | 11,719 | 10,938 | 781 | 665 | 659 | 6 |
| Niihau | 25 | 25 | - | 1 | 1 | - |

NA Not available.

1/ Data exclude UH Lab School, Honolulu (26 teachers, 348 students, and 49 graduates).

Source: Hawaii State Department of Education, records.

**Table 3.11-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES:
1993 AND 1994**

| Grade | September 1993 | | | September 1994 | | |
|--------------------------|----------------|------------------|---------|----------------|------------------|---------|
| | Total | Public <u>1/</u> | Private | Total | Public <u>1/</u> | Private |
| All grades..... | 215,708 | 180,428 | 35,280 | 219,224 | 183,795 | 35,429 |
| Nursery | 2,612 | 552 | 2,060 | 2,874 | 631 | 2,243 |
| Kindergarten..... | 17,510 | 14,822 | 2,688 | 17,891 | 15,251 | 2,640 |
| 1 | 17,115 | 14,758 | 2,357 | 17,618 | 15,251 | 2,367 |
| 2 | 16,678 | 14,453 | 2,225 | 16,833 | 14,634 | 2,199 |
| 3 | 16,013 | 13,822 | 2,191 | 16,234 | 14,165 | 2,069 |
| 4 | 15,904 | 13,728 | 2,176 | 15,588 | 13,480 | 2,108 |
| 5 | 15,723 | 13,542 | 2,181 | 15,715 | 13,615 | 2,100 |
| 6 | 15,620 | 13,265 | 2,355 | 15,597 | 13,258 | 2,339 |
| 7 | 15,665 | 12,540 | 3,125 | 15,749 | 12,589 | 3,160 |
| 8 | 15,138 | 12,196 | 2,942 | 15,585 | 12,538 | 3,047 |
| 9 | 15,923 | 13,037 | 2,886 | 17,181 | 14,305 | 2,876 |
| 10..... | 13,990 | 11,335 | 2,655 | 13,816 | 11,029 | 2,787 |
| 11..... | 13,689 | 11,167 | 2,522 | 13,662 | 11,112 | 2,550 |
| 12..... | 11,974 | 9,517 | 2,457 | 12,172 | 9,753 | 2,419 |
| Specials <u>2/</u> | 12,154 | 11,694 | 460 | 12,709 | 12,184 | 525 |

1/ Data exclude UH Lab School, (357 students in 1993, 348 in 1994).

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

Source: Hawaii State Department of Education, records.

**Table 3.12-- SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 1993**

[Combined totals for public and private systems]

| Grade | State total <u>1/</u> | Hawaii | Maui | Hono- lulu <u>1/</u> | Kauai |
|--------------------------|----------------------------------|---------------|---------------|---------------------------------|---------------|
| All grades..... | 216,065 | 29,433 | 21,945 | 153,039 | 11,648 |
| Nursery | 2,612 | 346 | 235 | 1,957 | 74 |
| Kindergarten..... | 17,518 | 2,229 | 1,752 | 12,622 | 915 |
| 1 | 17,124 | 2,184 | 1,738 | 12,288 | 914 |
| 2 | 16,686 | 2,147 | 1,756 | 11,897 | 886 |
| 3 | 16,022 | 2,153 | 1,744 | 11,301 | 824 |
| 4 | 15,914 | 2,109 | 1,696 | 11,293 | 816 |
| 5 | 15,730 | 2,158 | 1,686 | 11,022 | 864 |
| 6 | 15,643 | 2,228 | 1,621 | 10,940 | 854 |
| 7 | 15,690 | 2,165 | 1,595 | 11,064 | 866 |
| 8 | 15,194 | 2,181 | 1,512 | 10,679 | 822 |
| 9 | 15,976 | 2,219 | 1,541 | 11,366 | 850 |
| 10..... | 14,038 | 2,035 | 1,422 | 9,804 | 777 |
| 11..... | 13,741 | 1,932 | 1,371 | 9,736 | 702 |
| 12..... | 12,023 | 1,638 | 1,178 | 8,561 | 646 |
| Specials <u>2/</u> | 12,154 | 1,709 | 1,098 | 8,509 | 838 |

1/ Data include UH Lab School.

2/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records.

**Table 3.13-- SCHOOL ENROLLMENT BY GRADES, BY COUNTIES:
SEPTEMBER 1994**

[Combined totals for public and private systems]

| Grade | State total <u>1/</u> | Hawaii | Maui | Hono-lulu <u>1/</u> | Kauai |
|--------------------------|-----------------------|--------|--------|---------------------|--------|
| All grades..... | 219,224 | 30,164 | 22,759 | 154,557 | 11,744 |
| Nursery | 2,874 | 378 | 273 | 2,152 | 71 |
| Kindergarten..... | 17,891 | 2,216 | 1,838 | 12,943 | 894 |
| 1 | 17,618 | 2,304 | 1,819 | 12,560 | 935 |
| 2 | 16,833 | 2,179 | 1,766 | 11,982 | 906 |
| 3 | 16,234 | 2,131 | 1,753 | 11,505 | 845 |
| 4 | 15,588 | 2,149 | 1,731 | 10,923 | 785 |
| 5 | 15,715 | 2,149 | 1,690 | 11,082 | 794 |
| 6 | 15,597 | 2,188 | 1,740 | 10,824 | 845 |
| 7 | 15,749 | 2,280 | 1,637 | 10,975 | 857 |
| 8 | 15,585 | 2,199 | 1,604 | 10,915 | 867 |
| 9 | 17,181 | 2,443 | 1,687 | 12,147 | 904 |
| 10..... | 13,816 | 1,997 | 1,422 | 9,658 | 739 |
| 11..... | 13,662 | 2,008 | 1,369 | 9,521 | 764 |
| 12..... | 12,172 | 1,723 | 1,239 | 8,551 | 659 |
| Specials <u>2/</u> | 12,709 | 1,820 | 1,191 | 8,819 | 879 |

1/ Data exclude UH Lab School.

2/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, records.

**Table 3.14-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS:
FALL, 1991 TO 1994**

| Category | 1991 | 1992 | 1993 | 1994 |
|--------------------------------------|--------|--------|--------|--------|
| All federally-connected pupils | 35,736 | 35,318 | 33,650 | 33,340 |
| Percent of total enrollment | 20.5 | 20.0 | 18.7 | 18.1 |
| Military dependents | 19,838 | 19,832 | 18,725 | 18,513 |
| Others <u>1/</u> | 15,898 | 15,486 | 14,925 | 14,827 |

1/ Includes dependents of civilian employees of armed forces.

Source: Hawaii State Department of Education, records.

**Table 3.15-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT,
SEPTEMBER 1993 AND 1994, AND PRIVATE HIGH SCHOOL
GRADUATES, 1992-1993 AND 1993-1994, BY CHURCH AFFILIATION**

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

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

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

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

Source: Hawaii State Department of Education, records.

Table 3.16-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1981-1982 TO 1994-1995

| Fiscal year | Expenditures (dollars) | | Cost per pupil <u>1/</u> (dollars) | Average annual salary of teachers (dollars) | Number of days of school |
|-----------------|------------------------|----------------|------------------------------------|---|--------------------------|
| | Current operations | Capital outlay | | | |
| 1981-1982 | 432,228,402 | 17,237,000 | 2,701 | 22,473 | 177 |
| 1982-1983 | 497,763,951 | 23,304,890 | 3,098 | 21,504 | <u>2/</u> 174 |
| 1983-1984 | 509,710,506 | 11,941,000 | 3,256 | 25,380 | 176 |
| 1984-1985 | 526,741,742 | 13,652,707 | 3,351 | 25,648 | 174 |
| 1985-1986 | 585,533,781 | 27,812,430 | 3,795 | 26,595 | 176 |
| 1986-1987 | 589,592,735 | 23,445,100 | 3,748 | 27,546 | 176 |
| 1987-1988 | 622,638,850 | 32,211,000 | 3,950 | 28,353 | 177 |
| 1988-1989 | 661,605,931 | 37,505,200 | 4,172 | 29,835 | 174 |
| 1989-1990 | 727,501,992 | 50,569,700 | 4,605 | 32,252 | 175 |
| 1990-1991 | 863,592,130 | 50,464,700 | 5,016 | 34,448 | 175 |
| 1991-1992 | 914,792,363 | 100,194,691 | 5,246 | 35,684 | 177 |
| 1992-1993 | 978,441,540 | 52,250,890 | 5,533 | 35,684 | 176 |
| 1993-1994 | 1,040,108,578 | 81,995,840 | 5,740 | 35,844 | 176 |
| 1994-1995 | (NA) | (NA) | (NA) | 36,516 | 175 |

NA Not available.

1/ Based on average daily membership.

2/ One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, records.

**Table 3.17-- SCHOLASTIC APTITUDE TEST SCORE AVERAGES:
1974-1975 TO 1994-1995**

| Component | 1974-75 | 1980-81 | 1985-86 | 1989-90 | 1993-94 | 1994-95 <u>1/</u> |
|-------------------|---------|---------|---------|---------|---------|-------------------|
| Verbal | 414 | 390 | 403 | 404 | 401 | 407 |
| Mathematical..... | 478 | 464 | 477 | 481 | 480 | 482 |

1/ The U.S. averages in 1994-95 were 428 for verbal and 482 for math.

Source: U.S. Department of Education, National Center for Education Statistics, *Digest of Education Statistics 1993* (September 1993), p. 129; *Honolulu Advertiser*, August 19, 1993, pp. A1 and A2, August 25, 1994, pp. A1 and A2, and August 24, 1995, p. A3.

**Table 3.18-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC
SCHOOL GRADES 3, 6, 8, AND 10: 1995**

[Percent of students taking test]

| Subject and level | Norm | Grade 3 | Grade 6 | Grade 8 | Grade 10 |
|---------------------|------|---------|---------|---------|----------|
| Reading: | | | | | |
| Below average | 23 | 35 | 23 | 36 | 29 |
| Average | 54 | 54 | 58 | 48 | 50 |
| Above average..... | 23 | 11 | 19 | 16 | 21 |
| Math: | | | | | |
| Below average | 23 | 24 | 20 | 32 | 28 |
| Average | 54 | 51 | 54 | 48 | 50 |
| Above average..... | 23 | 25 | 26 | 21 | 21 |

Source: *Honolulu Star-Bulletin*, November 15, 1995, p. A-8.

**Table 3.19-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS:
FALL 1984 TO 1994**

[Fall headcount enrollment of regular students]

| Year | Total, all campuses | University of Hawaii at Manoa | | | | Univ. of Hawaii at Hilo <u>2/</u> | Univ. of Hawaii- West Oahu |
|--------|---------------------------|-------------------------------|--------------------|----------------|-----------------------------|---|-------------------------------------|
| | | Total | Classified | | Unclassi- fied <u>1/</u> | | |
| | | | Under graduates | Gradu- ates | | | |
| 1984.. | 43,809 | 19,965 | 14,234 | 4,255 | 1,476 | 1,506 | 435 |
| 1985.. | 43,246 | 19,606 | 13,565 | 4,283 | 1,758 | 1,447 | 443 |
| 1986.. | 42,682 | 18,918 | 12,762 | 4,438 | 1,718 | 1,594 | 480 |
| 1987.. | 42,747 | 18,382 | 12,254 | 4,400 | 1,728 | 1,711 | 482 |
| 1988.. | 42,525 | 18,424 | 12,121 | 4,382 | 1,921 | 1,769 | 492 |
| 1989.. | 43,644 | 18,546 | 12,021 | 4,601 | 1,924 | 1,927 | 601 |
| 1990.. | 45,742 | 18,810 | 12,073 | 4,809 | 1,928 | 2,553 | 652 |
| 1991.. | 47,527 | 19,316 | 12,530 | 5,005 | 1,781 | 2,670 | 667 |
| 1992.. | 49,412 | 19,810 | 12,838 | 5,207 | 1,765 | 2,790 | 692 |
| 1993.. | 50,229 | 20,037 | 12,991 | 5,343 | 1,703 | 2,953 | 676 |
| 1994.. | 51,380 | 19,983 | 12,903 | 5,518 | 1,562 | 2,870 | 744 |

| Year | Community Colleges <u>3/</u> | | | | | | | |
|--------|------------------------------|---------------|----------------|--------------|---------------|--------|-------|-------|
| | Total | Hono- lulu | Kapio- lani | Lee- ward | Wind- ward | Hawaii | Kauai | Maui |
| 1984.. | 21,903 | 4,549 | 5,264 | 5,753 | 1,363 | 1,728 | 1,159 | 2,087 |
| 1985.. | 21,750 | 4,535 | 5,054 | 5,645 | 1,540 | 1,747 | 1,174 | 2,055 |
| 1986.. | 21,690 | 4,270 | 5,207 | 5,683 | 1,635 | 1,695 | 1,237 | 1,963 |
| 1987.. | 22,172 | 4,523 | 5,372 | 5,723 | 1,645 | 1,830 | 1,164 | 1,915 |
| 1988.. | 21,840 | 4,292 | 5,467 | 5,439 | 1,555 | 1,861 | 1,231 | 1,995 |
| 1989.. | 22,570 | 4,193 | 5,717 | 5,646 | 1,604 | 2,037 | 1,299 | 2,074 |
| 1990.. | 23,727 | 4,379 | 6,275 | 5,805 | 1,622 | 1,896 | 1,413 | 2,337 |
| 1991.. | 24,874 | 4,462 | 6,526 | 6,343 | 1,611 | 1,847 | 1,496 | 2,589 |
| 1992.. | 26,120 | 4,767 | 7,116 | 6,098 | 1,782 | 2,106 | 1,563 | 2,688 |
| 1993.. | 26,563 | 4,740 | 7,356 | 6,449 | 1,635 | 2,348 | 1,457 | 2,578 |
| 1994.. | 27,783 | 4,817 | 7,639 | 6,486 | 1,763 | 2,762 | 1,507 | 2,809 |

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 3.20-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY
THE UNIVERSITY OF HAWAII: 1985 TO 1995**

| Year ended June 30 | University of Hawaii at Manoa | | | | | |
|--------------------------|-------------------------------|----------|--------|--------|-----------------------------------|-----------------|
| | Associate | Bachelor | Master | Doctor | First profes- sional <u>1/</u> | Other <u>2/</u> |
| 1985..... | 90 | 2,642 | 914 | 138 | 137 | 189 |
| 1986..... | 66 | 2,679 | 837 | 132 | 131 | 244 |
| 1987..... | 65 | 2,601 | 794 | 130 | 137 | 249 |
| 1988..... | 54 | 2,521 | 830 | 111 | 126 | 259 |
| 1989..... | 92 | 2,404 | 833 | 162 | 119 | 224 |
| 1990..... | 87 | 2,431 | 804 | 114 | 113 | 235 |
| 1991..... | 78 | 2,362 | 835 | 143 | 118 | 217 |
| 1992..... | 41 | 2,410 | 932 | 140 | 116 | 211 |
| 1993..... | - | 2,527 | 1,088 | 147 | 115 | 250 |
| 1994..... | - | 2,537 | 1,018 | 166 | 133 | 314 |
| 1995..... | - | 2,603 | 1,070 | 155 | 121 | 331 |

| Year ended June 30 | University of Hawaii at Hilo <u>3/</u> | | Univ. of Hawaii- West Oahu: Bachelor | Community Colleges <u>3/</u> | | |
|--------------------------|--|---------------------|--|------------------------------|---------------------------|------------|
| | Certificates <u>4/</u> | Bachelor degrees | | Certifi- cates <u>5/</u> | Associ- ate degrees | No data |
| 1985..... | - | 180 | 77 | 521 | 2,103 | 1 |
| 1986..... | - | 183 | 98 | 534 | 2,097 | 32 |
| 1987..... | - | 201 | 139 | 434 | 2,042 | 64 |
| 1988..... | - | 208 | 108 | 393 | 1,937 | 15 |
| 1989..... | 30 | 154 | 116 | 247 | 1,805 | 21 |
| 1990..... | 29 | 203 | 126 | 274 | 1,919 | 20 |
| 1991..... | 44 | 210 | 149 | 285 | 1,950 | - |
| 1992..... | 47 | 222 | 135 | 242 | 2,008 | 23 |
| 1993..... | 62 | 280 | 190 | 316 | 2,135 | 22 |
| 1994..... | 64 | 311 | 161 | 347 | 2,022 | 17 |
| 1995..... | 73 | 367 | 186 | 516 | 2,107 | 1 |

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 3.21-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES,
AND FACULTY AND STAFF: 1993 TO 1995**

| Subject | 1993 | 1994 | 1995 |
|--|---------|---------|---------|
| Curricula offered at Manoa Campus, Fall <u>1/</u> | 269 | 271 | 271 |
| Bachelor's degree programs | 87 | 88 | 88 |
| Master's degree programs..... | 87 | 87 | 87 |
| Doctoral programs (DrPH, EdD, PhD)..... | 53 | 53 | 53 |
| Other programs <u>1/</u> | 42 | 43 | 43 |
| Tuition per semester (full-time undergraduate, regular session) (dollars): | | | |
| Manoa Campus: Resident | 700 | 730 | 767 |
| Nonresident | 2,130 | 2,230 | 2,364 |
| Hilo (upper division): Resident | 635 | 655 | 688 |
| Nonresident | 1,935 | 2,010 | 2,131 |
| West Oahu: Resident | 430 | 435 | 457 |
| Nonresident | 1,400 | 1,460 | 1,548 |
| Community colleges: Resident | 230 | 240 | 252 |
| Nonresident | 1,400 | 1,460 | 1,548 |
| Finances, fiscal year ending June 30: | | | |
| Current fund revenues (\$1,000) | 604,889 | 638,560 | 661,137 |
| Current fund expenditures (\$1,000)..... | 605,180 | 618,762 | 657,624 |
| Faculty and staff, October | | | |
| Board of Regents appointees..... | 6,570 | 6,546 | 6,248 |
| Full-time | 4,322 | 4,315 | 4,122 |
| Part-time..... | 2,248 | 2,231 | 2,126 |
| Civil Service personnel..... | 1,719 | 1,847 | 1,705 |
| Full-time | 1,672 | 1,787 | 1,653 |
| Part-time..... | 47 | 60 | 52 |

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 3.22-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1992 TO 1995

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

| Year and institution <u>1/</u> | Fall enrollment <u>2/</u> | | | Earned degrees conferred <u>3/</u> | | |
|--------------------------------|---------------------------|-------------|-----------|------------------------------------|------------|----------|
| | Total | Under-grad. | Grad-uate | Associ-ate | Bachelor's | Master's |
| 1992, total | 11,310 | 10,124 | 1,186 | 523 | 1,018 | 233 |
| Brigham Young | 2,064 | 2,064 | - | 68 | 234 | - |
| Chaminade | 2,270 | 1,920 | 350 | 128 | 227 | 110 |
| Hawaii Pacific | 6,976 | 6,140 | 836 | 327 | 557 | 123 |
| 1993, total | 11,790 | 10,517 | 1,273 | 486 | 1,205 | 274 |
| Brigham Young | 1,980 | 1,980 | - | 72 | 269 | - |
| Chaminade | 2,284 | 1,923 | 361 | 95 | 167 | 99 |
| Hawaii Pacific | 7,526 | 6,614 | 912 | 319 | 769 | 175 |
| 1994, total | 12,435 | 11,108 | 1,327 | 490 | 1,305 | 335 |
| Brigham Young | 2,096 | 2,096 | - | 50 | 280 | - |
| Chaminade | 2,429 | 2,037 | 392 | 147 | 186 | 129 |
| Hawaii Pacific | 7,910 | 6,975 | 935 | 293 | 839 | 206 |
| 1995, total | 12,672 | 11,104 | 1,568 | 476 | 1,303 | 425 |
| Brigham Young | 2,241 | 2,241 | - | 39 | 253 | - |
| Chaminade | 2,395 | 1,889 | 506 | 178 | 200 | 147 |
| Hawaii Pacific | 8,036 | 6,974 | 1,062 | 259 | 850 | 278 |

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

2/ In regular credit programs.

3/ Year ended June 30.

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

Table 3.23-- RESIDENCE AND MIGRATION OF NEW UNDERGRADUATE STUDENTS IN INSTITUTIONS OF HIGHER EDUCATION AND FRESHMEN STUDENTS GRADUATING FROM HIGH SCHOOL IN THE PAST 12 MONTHS: FALL 1992

| Category | New undergraduate students <u>1/</u> | Freshmen students <u>2/</u> | |
|---|--------------------------------------|-----------------------------|--------------------|
| | | Total | In 4-year colleges |
| Students enrolled in State <u>3/</u> | 9,445 | 5,636 | 2,800 |
| Students residents of State <u>4/</u> | 9,644 | 6,428 | 3,490 |
| Students remaining in State <u>5/</u> | 7,874 | 4,871 | 2,060 |
| Migration of students: | | | |
| Out of State | 1,770 | 1,557 | 1,430 |
| Into State | 1,571 | 764 | 740 |
| Net migration | -199 | -793 | -690 |

1/ Includes 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 1994*, pp. 204-206.

**Table 3.24-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES:
1989 TO 1992**

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

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

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

**Table 3.25-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY
SYSTEM: 1989 TO 1994**

| Subject | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|--|--------|--------|--------|--------|--------|--------|
| Library locations, June 30 | 49 | 49 | 49 | 49 | 49 | 49 |
| Oahu | 23 | 23 | 23 | 23 | 23 | 23 |
| Other islands | 26 | 26 | 26 | 26 | 26 | 26 |
| Personnel, June 30 <u>1/</u> . | 543.05 | 557.05 | 581.55 | 597.05 | 623.55 | 614.05 |
| Librarians | 153.00 | 162.50 | 167.50 | 173.50 | 179.00 | 179.00 |
| All others | 390.05 | 394.55 | 414.05 | 423.55 | 444.55 | 435.05 |
| Hours open <u>2/</u> | 54 | 54 | 54 | 54 | 58 | 55 |
| Collections, June 30 <u>3/</u> (1,000) | 2,321 | 2,392 | 2,605 | 2,769 | 3,114 | 3,364 |
| Circulation, year ended June 30 (1,000) | 6,562 | 6,225 | 6,328 | 6,700 | 6,992 | 7,259 |

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

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

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

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

**Table 3.26-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM
BY DISTRICTS: 1993**

| District | Library locations, June 30 | Personnel, June 30 <u>1/</u> | Circulation, year ended June 30 | |
|--|----------------------------|------------------------------|---------------------------------|----------------------------|
| Total system | 49 | 623.55 | 6,992,224 | |
| Oahu | 23 | 336.00 | 4,760,505 | |
| Hawaii State Library..... | 1 | 105.00 | 675,971 | |
| East Oahu Library District..... | 12 | 132.00 | 2,350,375 | |
| West Oahu Library District..... | 9 | 99.00 | 1,734,159 | |
| Library for the Blind and Physically Handicapped | 1 | 15.50 | 8,876 | |
| Other islands | 26 | 149.05 | 2,222,843 | |
| Hawaii Library District..... | 13 | 67.05 | 1,125,114 | |
| Kauai Library District..... | 5 | 34.50 | 438,260 | |
| Maui Library District <u>2/</u> | 8 | 47.50 | 659,469 | |
| Administration/Centralized Processing Center | ... | 123.00 | ... | |
| Collections, June 30 | | | | |
| District | Books | Periodical subscriptions | Video tapes | Sound recordings <u>3/</u> |
| Total system | 2,848,236 | 8,569 | 17,244 | 99,512 |
| Oahu | 1,850,782 | 5,587 | 13,432 | 65,180 |
| Hawaii State Library..... | 467,254 | 2,183 | 1,611 | 18,726 |
| East Oahu Library District..... | 803,789 | 1,809 | 7,887 | 29,056 |
| West Oahu Library District..... | 579,739 | 1,595 | 3,934 | 17,398 |
| Other islands | 870,326 | 2,830 | 3,734 | 31,083 |
| Hawaii Library District..... | 389,179 | 1,512 | 982 | 9,240 |
| Kauai Library District..... | 204,421 | 928 | 1,585 | 10,333 |
| Maui Library District <u>2/</u> | 276,726 | 390 | 1,167 | 11,510 |
| Library for the Blind and Physically Handicapped | <u>4/</u> 127,128 | 152 | 78 | <u>5/</u> 3,249 |

1/ See previous table, footnote 1.

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

3/ Includes phonotapes and CDs.

4/ Includes print, braille, and recorded media.

5/ Includes music recordings only.

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

**Table 3.27-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM
BY DISTRICTS: 1994**

| District | Library locations, June 30 | Personnel, June 30 ^{1/} | Circulation, year ended June 30 | |
|--|----------------------------|----------------------------------|---------------------------------|--------------------------------|
| Total system | 49 | 614.50 | 7,258,941 | |
| Oahu | 23 | 326.50 | 4,891,223 | |
| Hawaii State Library..... | 1 | 105.00 | 770,949 | |
| East Oahu Library District | 12 | 125.50 | 2,335,064 | |
| West Oahu Library District | 9 | 96.00 | 1,785,210 | |
| Library for the Blind and Physically Handicapped | 1 | 15.50 | 8,623 | |
| Other islands | 26 | 149.05 | 2,359,095 | |
| Hawaii Library District | 13 | 67.05 | 1,222,924 | |
| Kauai Library District..... | 5 | 34.50 | 475,509 | |
| Maui Library District ^{2/} | 8 | 47.50 | 660,662 | |
| Administration/Centralized Processing Center | ... | 123.00 | ... | |
| Collections, June 30 | | | | |
| District | Books | Periodical subscriptions | Video tapes | Sound recordings ^{3/} |
| Total system | 3,094,457 | 8,474 | 21,821 | 110,250 |
| Oahu | 1,977,787 | 5,642 | 17,175 | 70,435 |
| Hawaii State Library..... | 492,041 | 2,198 | 2,418 | 19,834 |
| East Oahu Library District | 865,102 | 2,047 | 9,524 | 31,960 |
| West Oahu Library District | 620,644 | 1,397 | 5,233 | 18,641 |
| Other islands | 990,253 | 2,789 | 4,589 | 36,566 |
| Hawaii Library District | 479,902 | 1,469 | 2,208 | 12,939 |
| Kauai Library District..... | 212,846 | 928 | 2,381 | 10,843 |
| Maui Library District ^{2/} | 297,505 | 392 | ... | 12,784 |
| Library for the Blind and Physically Handicapped | ^{4/} 126,417 | 43 | 57 | ^{5/} 3,249 |

^{1/} See table 3.21, footnote 1.

^{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.

^{5/} Includes music recordings only.

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

Table 3.28-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1993 AND 1994

| Campus | Number of volumes, June 30 | | Circulation, year ended June 30 | |
|---|-------------------------------|-----------|------------------------------------|---------|
| | 1993 | 1994 | 1993 | 1994 |
| All campuses | 3,276,355 | 3,356,562 | 780,933 | 865,792 |
| University of Hawaii at Manoa <u>1/</u> | 2,718,618 | 2,786,852 | 530,768 | 632,489 |
| University of Hawaii-West Oahu | 25,693 | 25,027 | 5,789 | 5,943 |
| University of Hawaii at Hilo <u>2/</u> | 232,200 | 243,267 | 79,925 | 85,346 |
| Community colleges, total <u>2/</u> | 299,844 | 301,416 | 164,451 | 142,014 |
| Honolulu | 55,357 | 54,300 | 39,332 | 12,177 |
| Kapiolani | 53,682 | 60,611 | 29,434 | 32,056 |
| Leeward..... | 66,974 | 66,143 | 25,973 | 27,162 |
| Windward | 37,201 | 35,049 | 15,811 | 14,163 |
| Kauai..... | 45,239 | 43,922 | 20,926 | 18,077 |
| Maui | 41,391 | 41,391 | 32,975 | 38,379 |

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

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

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

Section 4

LAW ENFORCEMENT, COURTS, AND PRISONS

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

Major offenses reported to the police in 1994 numbered 79,200, compared with 73,900 in 1993 and 57,300 in 1984. The rate per 1,000 resident population rose from 53.2 in 1985 to 67.2 in 1994. Seventy-seven percent of the serious crimes in 1994 occurred on Oahu. For the State as a whole, major offenses known to police in 1994 included 50 murders, 359 rapes, 1,221 robberies, 1,461 aggravated assaults, 14,029 burglaries, 55,260 cases of larceny, and 6,383 auto thefts. The value of property reported stolen in 1994 amounted to \$56 million, exclusive of motor vehicles; only 6.0 percent was recovered. Authorities confiscated 560,000 marijuana plants, with a potential value of \$671 million, during 1994. Confirmed instances of child abuse and neglect numbered 2,334 in 1994. Fifteen percent of the major offenses known to police were cleared by arrest or otherwise during 1994. Thirty-six percent of the persons arrested for major crimes and 29 percent of those arrested for lesser offenses in 1994 were less than 18 years of age. The number of inmates in the 10 State correctional institutions averaged 3,039 during fiscal 1995; of this number, 1,537 were adults serving time for felonies. Cases concluded in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1994 numbered 663,000, including 537,000 traffic cases. Filings in the United States District Court for Hawaii in 1994 included 1,003 civil cases, 2,556 criminal cases, and 1,566 bankruptcy cases. The last legal execution in Hawaii took place in 1947. There were 5,514 attorneys licensed in Hawaii as of mid-1995, more than seven times the 1970 total. Criminal justice system expenditures amounted to \$407 million in fiscal 1992.

Statistics on law enforcement, courts, and prisons in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Department of Public Safety (formerly Corrections), and the Administrative Office of the United States Courts. The Department of the Attorney General issues quarterly and annual reports titled *Crime in Hawaii*. Figures on crime, the courts, and corrections in earlier years appear in *Historical Statistics of Hawaii*, Section 10. National data are summarized in the *Statistical Abstract of the United States: 1995*, Section 5.

Table 4.01-- CRIME VICTIMIZATION, BY TYPE OF OFFENSE, AGE, SEX, AND COUNTY: 1994

[Based on the 2,268 complete responses to a questionnaire mailed to 4,302 licensed drivers]

| County, sex, and age | Percent victimized <u>1/</u> | | | Selected offenses | Percent victimized <u>1/</u> | Percent of crimes reported to police |
|----------------------|------------------------------|----------------|---------------|------------------------------|------------------------------|--------------------------------------|
| | Any crime | Property crime | Violent crime | | | |
| Total | 44.5 | 40.6 | 12.5 | Robbery..... | 1.6 | 50.8 |
| County: | | | | Attempted robbery | 2.3 | 31.5 |
| Honolulu..... | 47.6 | 43.4 | 12.4 | Assault..... | 1.5 | 41.3 |
| Hawaii..... | 34.2 | 30.2 | 14.2 | Threatened assault | 6.2 | 23.4 |
| Maui..... | 40.6 | 37.3 | 12.4 | Rape..... | 1.1 | 15.6 |
| Kauai | 31.0 | 30.0 | 8.0 | Other sexual assault | 1.2 | 0.0 |
| Sex: | | | | Vehicle theft | 5.5 | 74.4 |
| Male..... | 45.9 | 41.6 | 15.2 | Theft from vehicle..... | 19.3 | 47.4 |
| Female..... | 43.8 | 40.2 | 10.2 | Attempted theft from vehicle | 16.0 | 37.1 |
| Age (years): | | | | Burglary | 14.2 | 53.7 |
| 16 to 18..... | 48.7 | 43.6 | 23.1 | Attempted burglary | 9.1 | 54.4 |
| 19 to 24..... | 60.7 | 47.4 | 29.5 | | | |
| 25 to 34..... | 56.1 | 50.4 | 18.4 | | | |
| 35 to 44..... | 49.8 | 47.2 | 11.5 | | | |
| 45 to 54..... | 42.3 | 39.7 | 10.1 | | | |
| 55 to 64..... | 37.3 | 35.7 | 6.7 | | | |
| 65 to 74..... | 27.9 | 26.0 | 4.6 | | | |
| 75 and over... | 23.2 | 21.2 | 6.1 | | | |

1/ One or more times in 1994.

Source: Hawaii State Department of the Attorney General, Crime Prevention Division, *Crime and Justice in Hawaii, 1995 Hawaii Household Survey Report* (September 1995).

Table 4.02-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTIES: 1984 TO 1994

[Part I offenses include murder, negligent manslaughter, forcible rape, robbery, aggravated assault, burglary, larceny-theft, motor vehicle theft, and arson. Actual offenses include reported or known offenses, less unfounded cases. Revised from *Data Book 1993-94*, table 4.1]

| Year | State total | | City and County of Honolulu | Hawaii County | Kauai County | Maui County |
|-----------|-------------|--------------------|-----------------------------|---------------|--------------|-------------|
| | Number | Rate ^{1/} | | | | |
| 1984..... | 57,340 | 55.8 | 44,918 | 4,737 | 2,157 | 5,528 |
| 1985..... | 55,355 | 53.2 | 42,455 | 5,147 | 2,146 | 5,607 |
| 1986..... | 60,652 | 57.7 | 46,779 | 5,370 | 2,428 | 6,075 |
| 1987..... | 63,530 | 59.5 | 49,372 | 4,956 | 2,555 | 6,647 |
| 1988..... | 65,665 | 60.8 | 49,589 | 5,938 | 2,548 | 7,590 |
| 1989..... | 69,601 | 63.6 | 52,709 | 6,860 | 2,781 | 7,251 |
| 1990..... | 67,957 | 61.1 | 51,175 | 7,518 | 2,605 | 6,659 |
| 1991..... | 68,116 | 60.1 | 51,294 | 7,279 | 2,385 | 7,158 |
| 1992..... | 71,258 | 61.8 | 53,826 | 6,940 | 2,502 | 7,990 |
| 1993..... | 73,935 | 63.4 | 56,681 | 6,919 | 2,355 | 7,980 |
| 1994..... | 79,190 | 67.2 | 61,158 | 7,162 | 2,383 | 8,487 |

^{1/} Annual rate per 1,000 resident population, July 1 (see table 1.03).

Source: Department of the Attorney General, Crime Prevention and Justice Assistance Division, from police department annual reports and records. Negligent manslaughter statistics revised to exclude traffic cases. The revised manslaughter statistics, the numbers of arsons reported in Honolulu in 1984-1987, and the number of forcible rapes reported in Honolulu in 1989 were compiled from reports to the Uniform Crime Reporting (UCR) Program.

Table 4.03-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1985 TO 1994

[Revised from *Data Book 1993-94*, table 4.2]

| Offense | 1985 | 1986 | 1987 | 1988 | 1989 |
|--|--------|--------|--------|--------|--------|
| All Part I offenses <u>1/</u> | 55,355 | 60,652 | 63,530 | 65,665 | 69,601 |
| Murder | 43 | 51 | 52 | 44 | 53 |
| Manslaughter (negligent) <u>1/</u> | - | - | - | 2 | 1 |
| Forcible rape <u>2/</u> | 312 | 325 | 396 | 353 | 353 |
| Robbery | 1,041 | 1,103 | 1,043 | 914 | 908 |
| Aggravated assault | 913 | 1,082 | 1,364 | 1,502 | 1,427 |
| Burglary | 12,159 | 14,184 | 12,500 | 13,665 | 14,879 |
| Larceny - theft..... | 37,345 | 39,935 | 43,669 | 44,859 | 47,204 |
| Motor vehicle theft | 2,981 | 3,486 | 3,986 | 3,927 | 4,385 |
| Arson <u>3/</u> | 561 | 486 | 520 | 399 | 391 |
| Offense | 1990 | 1991 | 1992 | 1993 | 1994 |
| All Part I offenses | 67,957 | 68,116 | 71,258 | 73,935 | 79,190 |
| Murder | 44 | 45 | 42 | 45 | 50 |
| Manslaughter (negligent) <u>1/</u> | 2 | 1 | - | 1 | 3 |
| Forcible rape <u>2/</u> | 352 | 375 | 440 | 394 | 359 |
| Robbery | 1,016 | 986 | 1,151 | 1,214 | 1,221 |
| Aggravated assault | 1,605 | 1,338 | 1,365 | 1,408 | 1,461 |
| Burglary | 13,577 | 14,011 | 13,006 | 13,310 | 14,029 |
| Larceny - theft..... | 46,699 | 47,195 | 50,544 | 51,912 | 55,260 |
| Motor vehicle theft | 4,224 | 3,814 | 4,351 | 5,283 | 6,383 |
| Arson <u>3/</u> | 438 | 351 | 359 | 368 | 424 |

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 statistics were used as the source of the 1985-1987 arson statistics 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:
1984 TO 1994**

[Revised]

| Year | Actual offenses known to police | | Number cleared by arrest or otherwise ^{1/} | | Clearances per 100 offenses ^{1/} | |
|-----------|---------------------------------|---------------------------------------|---|---------------------------------------|---|---------------------------------------|
| | Part I | Part II, except traffic ^{2/} | Part I | Part II, except traffic ^{2/} | Part I | Part II, except traffic ^{2/} |
| 1984..... | 57,340 | 93,849 | 10,103 | 61,294 | 17.6 | 65.3 |
| 1985..... | 55,355 | 97,170 | 10,870 | 63,187 | 19.6 | 65.0 |
| 1986..... | 60,652 | 100,283 | 11,175 | 62,556 | 18.4 | 62.4 |
| 1987..... | 63,530 | 107,259 | 12,245 | 66,416 | 19.3 | 61.9 |
| 1988..... | 65,665 | 113,073 | 11,846 | 72,026 | 18.0 | 63.7 |
| 1989..... | 69,601 | 120,461 | 9,592 | 63,279 | 13.8 | 52.5 |
| 1990..... | 67,957 | 119,366 | 12,534 | 68,645 | 18.4 | 57.5 |
| 1991..... | 68,116 | 116,746 | 14,253 | 74,608 | 20.9 | 63.9 |
| 1992..... | 71,258 | 120,345 | 13,270 | 79,096 | 18.6 | 65.7 |
| 1993..... | 73,935 | 115,494 | 11,274 | 74,477 | 15.2 | 64.5 |
| 1994..... | 79,190 | 118,939 | 12,183 | 75,841 | 15.4 | 63.8 |

^{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 1983-1988 and 1991. All traffic cases excluded for 1989, 1990, 1992 and 1993.

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: 1993 AND 1994**

| County | Actual offenses known to police | | Number cleared by arrest or otherwise | | Percent cleared | |
|-----------------|---------------------------------|-------------------|---------------------------------------|-------------------|------------------|-------------------|
| | Part I <u>1/</u> | Part II <u>2/</u> | Part I <u>1/</u> | Part II <u>2/</u> | Part I <u>1/</u> | Part II <u>2/</u> |
| 1993 total..... | 73,935 | 115,494 | 11,274 | 74,477 | 15.2 | 64.5 |
| Honolulu..... | 56,681 | 82,404 | 7,580 | 52,790 | 13.4 | 64.1 |
| Hawaii..... | 6,919 | 10,245 | 1,920 | 6,358 | 27.7 | 62.1 |
| Kauai..... | 2,355 | 5,139 | 485 | 2,255 | 20.6 | 43.9 |
| Maui..... | 7,980 | 17,706 | 1,289 | 13,074 | 16.2 | 73.8 |
| 1994 total..... | 79,190 | 118,939 | 12,183 | 75,841 | 15.4 | 63.8 |
| Honolulu..... | 61,158 | 82,269 | 7,991 | 51,553 | 13.1 | 62.7 |
| Hawaii..... | 7,162 | 11,444 | 2,116 | 6,361 | 29.5 | 55.6 |
| Kauai..... | 2,383 | 5,118 | 530 | 2,214 | 22.2 | 43.3 |
| Maui..... | 8,487 | 20,108 | 1,546 | 15,713 | 18.2 | 78.1 |

1/ Includes arson.

2/ Excludes traffic offenses.

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

**Table 4.06-- MARIJUANA CONFISCATED OR DESTROYED BY
AUTHORITIES, BY COUNTIES: 1994**

| Subject | State total | Hawaii | Maui | Honolulu | Kauai |
|--------------------------------------|-------------|---------|--------|----------|--------|
| Plants, total | 559,753 | 353,099 | 96,499 | 14,463 | 95,692 |
| By police depts. | 238,092 | 122,044 | 49,056 | 14,463 | 52,529 |
| By DLNR | 321,661 | 231,055 | 47,443 | - | 43,163 |
| Value, total <u>1/</u> (mil. dol.) . | 671 | 423 | 115 | 17 | 114 |
| By police depts. | 285 | 146 | 58 | 17 | 63 |
| By DLNR | 386 | 277 | 57 | - | 51 |

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

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

Table 4.07-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1993 AND 1994

| Type of offense | Actual offenses known to police | | Number cleared by arrest or otherwise <u>1/</u> | | Percent cleared | |
|--------------------------|---------------------------------|-----------|---|-----------|-----------------|-----------|
| | State total | Oahu only | State total | Oahu only | State total | Oahu only |
| 1993 | | | | | | |
| All Part I offenses | 73,935 | 56,681 | 11,274 | 7,580 | 15.2 | 13.4 |
| Murder..... | 45 | 31 | 33 | 20 | 73.3 | 64.5 |
| Manslaughter (neg.) ... | 1 | - | 1 | - | 100.0 | ... |
| Rape | 394 | 286 | 172 | 130 | 43.7 | 45.5 |
| Robbery | 1,214 | 1,085 | 281 | 227 | 23.1 | 20.9 |
| Aggravated assault..... | 1,408 | 1,099 | 606 | 422 | 43.0 | 38.4 |
| Burglary..... | 13,310 | 9,296 | 1,079 | 556 | 8.1 | 6.0 |
| Larceny | 51,912 | 40,148 | 8,291 | 5,666 | 16.0 | 14.1 |
| Motor vehicle theft..... | 5,283 | 4,460 | 769 | 535 | 14.6 | 12.0 |
| Arson..... | 368 | 276 | 42 | 24 | 11.4 | 8.7 |
| 1994 | | | | | | |
| All Part I offenses | 79,190 | 61,158 | 12,183 | 7,991 | 15.4 | 13.1 |
| Murder..... | 50 | 35 | 34 | 21 | 68.0 | 60.0 |
| Manslaughter (neg.) ... | 3 | 2 | 2 | 1 | 66.7 | 50.0 |
| Rape | 359 | 266 | 214 | 165 | 59.6 | 62.0 |
| Robbery | 1,221 | 1,058 | 291 | 226 | 23.8 | 21.4 |
| Aggravated assault..... | 1,461 | 1,169 | 720 | 548 | 49.3 | 46.9 |
| Burglary..... | 14,029 | 10,018 | 1,422 | 641 | 10.1 | 6.4 |
| Larceny | 55,260 | 42,552 | 8,624 | 5,719 | 15.6 | 13.4 |
| Motor vehicle theft..... | 6,383 | 5,727 | 826 | 639 | 12.9 | 11.2 |
| Arson..... | 424 | 331 | 50 | 31 | 11.8 | 9.4 |

1/ Includes offenses committed in prior years.

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

Table 4.08-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, 1993 AND 1994, AND BY COUNTIES, 1994

| Subject | 1993: State total | 1994, by counties | | | | |
|--|----------------------|-------------------|----------|--------|-------|-------|
| | | State total | Honolulu | Hawaii | Maui | Kauai |
| PART I OFFENSES | | | | | | |
| Total | 12,661 | 13,043 | 9,535 | 1,824 | 1,033 | 651 |
| Juveniles | 4,765 | 4,666 | 3,159 | 814 | 401 | 292 |
| Male..... | 3,344 | 3,098 | 2,107 | 534 | 256 | 201 |
| Female | 1,421 | 1,568 | 1,052 | 280 | 145 | 91 |
| Adults | 7,896 | 8,377 | 6,376 | 1,010 | 632 | 359 |
| Male..... | 5,997 | 6,404 | 4,894 | 737 | 503 | 270 |
| Female | 1,899 | 1,973 | 1,482 | 273 | 129 | 89 |
| PART II OFFENSES (EXCEPT TRAFFIC) | | | | | | |
| Total | 51,173 | 55,958 | 41,332 | 4,978 | 5,619 | 4,029 |
| Juveniles | 14,484 | 15,984 | 11,848 | 1,630 | 974 | 1,532 |
| Male..... | 8,421 | 9,373 | 6,914 | 963 | 576 | 920 |
| Female | 6,063 | 6,611 | 4,934 | 667 | 398 | 612 |
| Adults | 36,689 | 39,974 | 29,484 | 3,348 | 4,645 | 2,497 |
| Male..... | 30,030 | 32,879 | 24,254 | 2,748 | 3,904 | 1,973 |
| Female | 6,659 | 7,095 | 5,230 | 600 | 741 | 524 |

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

Table 4.09-- CHILD ABUSE AND NEGLECT REPORTS: 1986 TO 1994

| Subject | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Reports | 4,900 | 4,741 | 3,893 | 4,054 | 4,407 | 4,365 | 4,568 | 4,753 | 5,186 |
| Confirmed | 2,629 | 2,555 | 2,315 | 2,386 | 2,392 | 2,318 | 2,485 | 2,394 | 2,334 |

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

Table 4.10-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1984 TO 1994

| Year | Locally stolen motor vehicles | | | Other stolen property | | |
|------------|-------------------------------|-------------------------------|---------|------------------------|-------------------------------|---------|
| | Value stolen (\$1,000) | Value recovered ^{1/} | | Value stolen (\$1,000) | Value recovered ^{1/} | |
| | | Amount (\$1,000) | Percent | | Amount (\$1,000) | Percent |
| 1984 | 12,327.9 | 9,110.0 | 73.9 | 26,576.6 | 1,861.3 | 7.0 |
| 1985 | 10,376.8 | 7,683.9 | 74.0 | 24,114.3 | 2,003.5 | 8.3 |
| 1986 | 11,491.6 | 7,857.3 | 68.4 | 28,236.2 | 1,931.2 | 6.8 |
| 1987 | 13,222.5 | 10,021.0 | 75.8 | 32,071.0 | 3,089.0 | 9.6 |
| 1988 | 15,956.0 | 12,312.1 | 77.2 | 37,895.0 | 1,965.8 | 5.2 |
| 1989 | 11,067.8 | 7,397.7 | 76.2 | 45,311.0 | 2,310.9 | 5.1 |
| 1990 | 10,152.1 | 7,752.2 | 76.4 | 41,026.4 | 1,824.3 | 4.4 |
| 1991 | 8,231.7 | 6,584.4 | 80.0 | 57,399.0 | 2,650.3 | 4.6 |
| 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 |

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

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

Table 4.11-- VALUE OF PROPERTY STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, 1993 AND 1994, AND BY COUNTIES, 1994

| Subject | 1993: State total | 1994, by counties | | | | |
|---|----------------------|-------------------|----------|---------|---------|---------|
| | | State total | Honolulu | Hawaii | Maui | Kauai |
| Value of property stolen (\$1,000) | 63,128.2 | 68,372.2 | 54,727.5 | 3,846.0 | 7,736.3 | 2,062.4 |
| Motor vehicles | 10,604.6 | 12,130.1 | 9,057.0 | 613.4 | 1,957.8 | 501.9 |
| Other property..... | 52,523.6 | 56,242.1 | 45,670.5 | 3,232.7 | 5,778.5 | 1,560.5 |
| Value of stolen property recovered ^{1/} (\$1,000)..... | 10,661.5 | 12,638.6 | 9,335.3 | 718.6 | 2,292.2 | 292.5 |
| Motor vehicles | 7,703.6 | 9,283.5 | 6,836.6 | 483.4 | 1,707.6 | 256.0 |
| Other property..... | 2,957.9 | 3,355.1 | 2,498.7 | 235.2 | 584.6 | 36.5 |
| Percent of value recovered... | 16.9 | 18.5 | 17.1 | 18.7 | 29.6 | 14.2 |
| Motor vehicles | 72.6 | 76.5 | 75.5 | 78.8 | 87.2 | 51.0 |
| Other property..... | 5.6 | 6.0 | 5.5 | 7.3 | 10.1 | 2.3 |

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

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

Table 4.12-- CRIME RATES FOR THE UNITED STATES AND HAWAII: 1993 AND 1994

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

| Type of offense | U.S. rate | | Hawaii rate | | Hawaii rank ^{1/} | |
|-------------------------------------|-----------|---------|-------------|---------|---------------------------|------|
| | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 |
| All index offenses ^{2/} .. | 5,484.4 | 5,374.4 | 6,310.8 | 6,684.6 | 7 | 4 |
| Violent crime | 746.8 | 716.0 | 262.6 | 262.3 | 44 | 44 |
| Property crime | 4,737.6 | 4,658.3 | 6,048.3 | 6,422.2 | 4 | 4 |

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

^{2/} Excluding arson and negligent manslaughter.

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

**Table 4.13-- AUTHORIZED POLICE PERSONNEL, BY COUNTIES:
DECEMBER 1994**

| Year and status | State total | Honolulu | Hawaii | Kauai | Maui |
|----------------------|-------------|----------|--------|-------|------|
| Total | 3,440 | 2,376 | 467 | 183 | 414 |
| Sworn, active..... | 2,569 | 1,789 | 327 | 141 | 312 |
| Sworn, reserve | 133 | 100 | 20 | 13 | - |
| Not sworn | 738 | 487 | 120 | 29 | 102 |

Source: County police departments, records.

**Table 4.14-- STATE AND COUNTY GOVERNMENT EMPLOYMENT AND
EXPENDITURES FOR CRIMINAL JUSTICE ACTIVITIES, FOR THE UNITED
STATES AND HAWAII: 1992**

| Geographic area | Full-time equivalent employment, October | | | Expenditures, fiscal year <u>2/</u> | |
|----------------------|---|---------------------------------|------------|-------------------------------------|-----------------------------------|
| | Total <u>1/</u> | Per 10,000 population <u>3/</u> | | Total (million dollars) | Per capita <u>3/</u> (dollars) |
| | | Police protection | Correction | | |
| U.S..... | 1,248,277 | 28.0 | 20.9 | 79,502 | 312 |
| Hawaii | 5,462 | 29.7 | 17.5 | 407 | 352 |
| Rank <u>4/</u> | 38 | 8 | 26 | 34 | 9 |

1/ For police protection and correction.

2/ For police protection, correction, judicial, and legal functions.

3/ Based on estimated population, July 1.

4/ Among the 50 states.

Source: Data from U.S. Bureau of the Census, cited in *Statistical Abstract of the United States: 1995*, p. 210.

**Table 4.15-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS:
1993 TO 1995**

[As of June 30]

| Subject | 1993 | 1994 | 1995 |
|--|-------|-------|-------|
| Federal judges and magistrates: <u>1/</u> | | | |
| U.S. Bankruptcy Court | 1 | 1 | 1 |
| U.S. District Court | 11 | 12 | 11 |
| State justices and judges: <u>2/</u> | | | |
| Supreme Court | 5 | 5 | 5 |
| Intermediate Court of Appeals | 3 | 4 | 4 |
| Circuit Courts <u>3/</u> | 26 | 28 | 29 |
| Assigned to Family Court..... | 1 | 1 | 2 |
| District Courts <u>4/</u> | 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 <u>6/</u> | 5,239 | 5,350 | 5,514 |
| Active | ... | 3,964 | 4,026 |
| Inactive..... | ... | 1,386 | 1,488 |

1/ Full-time and part-time. Excludes visiting judges and magistrates. In addition, one judge of the U.S. Court of Appeals maintains an office in Honolulu.

2/ Authorized full-time positions.

3/ Includes 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/ Effective November 1, 1989, the number of licensed attorneys includes both active and inactive members of the Hawaii State Bar. Data for all years include judges. The 1994 data are as of August 4.

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

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

[Data for 1991, 1992 and 1993 are revised]

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

1/ Year ended June 30.

2/ Year ended September 30.

3/ Excludes transfers.

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

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

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

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

Table 4.17-- STATE JUDICIARY TERMINATIONS: 1989 TO 1994

[Years ended June 30]

| Court and type of case | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|-------------------------------|---------|---------|---------|---------|---------|---------|
| Supreme Court <u>1/</u> | 3,046 | 2,170 | 2,350 | 2,409 | 2,649 | 2,939 |
| Civil cases | 246 | 199 | 179 | 184 | 126 | 277 |
| Criminal cases | 427 | 266 | 333 | 233 | 95 | 87 |
| Other proceedings | 2,373 | 1,705 | 1,838 | 1,992 | 2,428 | 2,575 |
| Intermediate Court of | | | | | | |
| Appeals <u>2/</u> | 186 | 186 | 196 | 249 | 188 | 231 |
| Civil cases | 78 | 32 | 35 | 41 | 31 | 34 |
| Criminal cases | 59 | 56 | 54 | 97 | 89 | 75 |
| Other proceedings | 49 | 98 | 107 | 111 | 68 | 122 |
| Circuit Courts proper | 15,079 | 15,644 | 14,061 | 16,152 | 14,724 | 13,161 |
| Civil cases | 5,405 | 6,418 | 6,421 | 7,095 | 7,368 | 5,389 |
| Criminal cases | 2,951 | 3,567 | 2,936 | 3,610 | 3,665 | 4,164 |
| Part I offenses | 1,126 | 1,211 | 1,044 | 1,433 | 1,370 | 1,442 |
| Part II offenses | 1,825 | 2,356 | 1,892 | 2,177 | 2,295 | 2,722 |
| Other proceedings | 6,723 | 5,659 | 4,704 | 5,447 | 3,691 | 3,608 |
| Family Courts | 34,450 | 48,438 | 39,342 | 47,661 | 51,015 | 47,419 |
| Civil cases | 11,301 | 20,128 | 12,977 | 12,497 | 12,161 | 12,617 |
| Criminal cases | 2,395 | 3,027 | 3,373 | 5,274 | 4,269 | 2,926 |
| Other proceedings | 20,754 | 25,283 | 22,992 | 29,890 | 34,585 | 31,876 |
| District Courts | 892,480 | 897,864 | 974,031 | 869,581 | 666,042 | 599,046 |
| Civil cases | 24,179 | 21,968 | 17,872 | 29,314 | 24,103 | 22,202 |
| Traffic cases | 821,080 | 824,692 | 903,331 | 790,361 | 595,178 | 536,532 |
| Other violations | 10,565 | 10,984 | 11,811 | 11,349 | 7,728 | 5,659 |
| Criminal cases | 36,656 | 40,220 | 41,017 | 38,557 | 39,033 | 34,653 |
| Part I offenses | 5,186 | 5,778 | 5,770 | 5,849 | 5,894 | 5,139 |
| Part II offenses | 31,470 | 34,442 | 35,247 | 32,708 | 33,139 | 29,514 |

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 138 in 1989, 139 in 1990, 123 in 1991, 253 in 1992, 311 in 1993, and 294 in 1994.

2/ Data exclude cases transferred back to the Supreme Court: 2 in 1992.

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

**Table 4.18-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1992 TO 1994**

[Years ended June 30]

| Court and type of action | 1992 | 1993 | 1994 |
|--|--------|--------|--------|
| Supreme Court, total | 2,686 | 3,243 | 3,370 |
| Primary cases | 794 | 916 | 904 |
| Appeals..... | 730 | 838 | 822 |
| Original proceedings | 64 | 78 | 82 |
| Supplemental proceedings | 1,892 | 2,327 | 2,466 |
| Intermediate Court of Appeals, total | 338 | 370 | 405 |
| Primary cases | 257 | 311 | 295 |
| Appeals..... | 257 | 311 | 295 |
| Supplemental proceedings | 81 | 59 | 110 |
| Circuit Courts Proper, total | 16,794 | 16,692 | 15,105 |
| Primary proceedings | 16,794 | 16,692 | 15,105 |
| Civil actions | 6,530 | 7,359 | 6,401 |
| Probate proceedings | 1,561 | 1,602 | 1,175 |
| Guardianship proceedings..... | 507 | 486 | 466 |
| Miscellaneous proceedings | 1,707 | 1,682 | 2,475 |
| Criminal actions | 6,489 | 5,563 | 4,588 |
| Part I offenses..... | 1,963 | 1,601 | 1,719 |
| Part II offenses..... | 4,526 | 3,962 | 2,869 |
| Family Courts, total | 48,883 | 55,689 | 53,677 |
| Primary proceedings and referrals..... | 42,627 | 46,208 | 45,224 |
| Marital actions and proceedings | 6,441 | 6,461 | 6,216 |
| Uniform reciprocal enforcement of support... | --- | --- | 656 |
| Adoption proceedings..... | 687 | 567 | 458 |
| Parental proceedings | 1,580 | 1,897 | 2,329 |
| Miscellaneous proceedings | 4,204 | 4,907 | 4,477 |
| Criminal actions | 5,094 | 5,353 | 5,153 |
| Adults' referrals | 6,224 | 6,437 | 6,713 |
| Children's referrals | 17,851 | 19,848 | 19,222 |
| Supplemental proceedings | 6,256 | 9,481 | 8,453 |

Continued on next page.

**Table 4.18-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION:
1992 TO 1994 -- Con.**

| Court and type of action | 1992 | 1993 | 1994 |
|-----------------------------------|---------|---------|---------|
| District Court, total..... | 853,014 | 723,588 | 658,343 |
| Civil | 26,947 | 24,279 | 23,392 |
| Regular civil..... | 21,266 | 19,175 | 17,834 |
| Small claims | 5,681 | 5,104 | 5,558 |
| Traffic | 774,983 | 647,343 | 589,466 |
| Moving - arrest and citation..... | 195,842 | 142,700 | 129,563 |
| Non-moving | 128,209 | 120,979 | 111,609 |
| Parking | 450,932 | 383,664 | 348,294 |
| Other violations..... | 11,788 | 10,389 | 7,038 |
| Criminal actions | 39,296 | 41,577 | 38,447 |
| Part I offenses..... | 6,085 | 6,562 | 5,831 |
| Part II offenses..... | 33,211 | 35,015 | 32,616 |

Source: *The Judiciary, State of Hawaii, Annual Report, Statistical Supplement, 1992; The Judiciary, State of Hawaii, Annual Report, for 1993 and 1994.*

**Table 4.19-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES:
ANNUAL AVERAGES, 1985 TO 1995**

[Mean head count for fiscal years ended June 30]

| Year | Total <u>1/</u> | Adult facilities <u>1/</u> | | | | Juvenile facilities <u>2/</u> | |
|----------|-----------------|----------------------------|--------------------------|---------------|-------------------------------|-------------------------------|-------|
| | | Sentenced felons | Sentenced jail <u>3/</u> | Not sentenced | Technical violators <u>4/</u> | Boys | Girls |
| 1985.... | 1,898 | 1,223 | 204 | 392 | ... | 72 | 7 |
| 1986.... | 2,009 | 1,331 | 240 | 348 | ... | 78 | 12 |
| 1987.... | 2,094 | 1,429 | 202 | 374 | ... | 79 | 10 |
| 1988.... | 2,194 | 1,414 | 219 | 484 | ... | 63 | 14 |
| 1989.... | 2,193 | 1,428 | 206 | 494 | ... | 56 | 9 |
| 1990.... | 2,382 | 1,482 | 212 | 629 | ... | 53 | 6 |
| 1991.... | 2,430 | 1,462 | 239 | 667 | ... | 52 | 10 |
| 1992.... | 2,600 | 1,434 | 274 | 597 | 233 | 55 | 7 |
| 1993.... | <u>5/</u> 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 |

1/ As of 1995, includes nine facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers, Kulani Correctional Facility, Special Needs Facility, Halawa Correctional Facility, Women's Community Correctional Center, and Waiawa Correctional Facility.

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).

Source: Hawaii State Department of Public Safety, records; Hawaii Youth Correctional Facility, records.

Table 4.20-- MEDIAN AGES AND AVERAGE SENTENCES OF SENTENCED FELON POPULATION: 1985 TO 1995

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

| Year | Median age (years) <u>1/</u> | | Average sentences (months) | | |
|-----------|------------------------------|-------------------------|----------------------------|---------|------------------------------|
| | At admission | Currently as of June 30 | Felons admitted | | Felons released: time served |
| | | | Minimum | Maximum | |
| 1985..... | 29.3 | 28.2 | 47.5 | 145.7 | 42.7 |
| 1986..... | 30.4 | 29.4 | 33.3 | 148.9 | 41.5 |
| 1987..... | 27.0 | 31.0 | 45.9 | 115.6 | 40.3 |
| 1988..... | 29.0 | 29.0 | 46.9 | 115.9 | 39.4 |
| 1989..... | 30.1 | 28.7 | 43.9 | 132.6 | 43.9 |
| 1990..... | 30.2 | 30.7 | 45.1 | 122.6 | 42.8 |
| 1991..... | 32.1 | 33.6 | 44.6 | 140.5 | 40.9 |
| 1992..... | 31.9 | 34.6 | 41.6 | 128.5 | 38.7 |
| 1993..... | 32.3 | 34.1 | 40.2 | 119.5 | 36.7 |
| 1994..... | 31.4 | 34.0 | 45.2 | 129.3 | 41.2 |
| 1995..... | 32.3 | 34.4 | 46.1 | 110.0 | 38.9 |

1/ For sentenced felon population on June 30.

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

**Table 4.21-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY:
1990 TO 1993**

[Years ended June 30]

| Item | 1990 | 1991 | 1992 | 1993 |
|--|-------|-------|-------|-------|
| Number of parolees, June 30 <u>1/</u> | 1,416 | 1,479 | 1,334 | 1,649 |
| Parolees in Hawaii..... | 945 | 1,014 | 1,009 | 1,100 |
| Parolees outside Hawaii..... | 208 | 196 | 145 | 187 |
| In institution..... | 52 | 72 | 67 | 49 |
| Whereabouts unknown (cumulative)..... | 211 | 197 | 206 | 182 |
| Minimum imprisonment terms fixed..... | 1,611 | 1,425 | 1,683 | 1,819 |
| Number of persons for whom minimum terms fixed | 926 | 793 | 1,066 | 1,217 |
| Persons considered for parole..... | 805 | 888 | 791 | 1,059 |
| Paroles tentatively granted..... | 547 | 579 | 516 | 657 |
| Paroles denied/deferred..... | 318 | 309 | 275 | 402 |
| Parole violation hearings..... | 345 | 368 | 381 | 323 |
| Parole revocations..... | 230 | 247 | 252 | 232 |
| Continued on parole/deferred..... | 115 | 121 | 129 | 91 |
| Pardon investigations..... | 26 | 29 | 25 | 27 |
| Persons pardoned..... | 19 | 21 | 19 | 8 |
| Persons whose paroles were suspended because their whereabouts unknown..... | 108 | 98 | 121 | 105 |
| Discharges from parole..... | 160 | 144 | 224 | 175 |
| Full parole term before discharge..... | 114 | 95 | 82 | 61 |
| Early discharge approved..... | 43 | 47 | 133 | 99 |
| Deceased..... | 1 | 2 | 9 | 15 |
| Administrative discharge <u>2/</u> | 2 | - | - | - |

1/ In addition, provided courtesy supervision to 46 interstate cases as of June 30, 1990.

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

Source: Hawaii State Department of Public Safety, *Hawaii Paroling Authority, Annual Reports*.

Section 5

GEOGRAPHY AND ENVIRONMENT

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

The State consists of eight major islands and 124 minor islands with a total land area of 6,423 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Puu Wekiu on Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the most extensive lake or similar body is Kawainui Marsh, 1,000 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. The 165 major beaches and streams surveyed in 1994 were found to have enterococci levels per 100 ml. ranging from 1.0 to 298.9, and 82 percent were within EPA standards. More than 500 species, subspecies, and varieties of native fauna and flora have been proposed or accepted for inclusion on lists of endangered, threatened, or extinct organisms.

Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 95°F. Average precipitation ranges from less than nine inches at Kawaihae to 444 inches atop Waialeale. The volcanic eruption that began in 1983 had produced more than 1.6 billion cubic meters of lava by the end of 1994. Hawaii's worst recorded earthquake (1868) attained 7.5 on the Richter scale by retrospective estimate, the highest tsunami wave (1946) reached 56 feet, and the most destructive hurricane (Iniki, 1992) gusted to 143 miles per hour. Water withdrawn for use in 1990 averaged 1.4 billion gallons per day, compared with 2.9 billion in 1980 and 2.8 billion in 1975.

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water Resource Management of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in *Atlas of Hawaii*, 2nd edition, published by the University of Hawaii Press in 1983. National data are reported in *Statistical Abstract of the United States: 1995*, 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' |
| Laa Point..... | 21°06' | 157°19' |
| Cape Halawa..... | 21°10' | 156°43' |
| Oahu: | | |
| Honolulu: International Airport..... | 21°20' | 157°55' |
| Aloha Tower..... | 21°19' | 157°52' |
| Kaena Point..... | 21°35' | 158°17' |
| Kahuku Point..... | 21°43' | 157°59' |
| Makapuu Point..... | 21°19' | 157°39' |
| Diamond Head..... | 21°16' | 157°49' |
| Kauai: | | |
| Lihue (Kauai Airport)..... | 21°59' | 159°21' |
| Mana..... | 22°02' | 159°46' |
| Kilauea Point..... | 22°14' | 159°24' |
| Niihau: | | |
| Puuwai..... | 21°54' | 160°12' |
| Kure Atoll..... | 28°25' | 178°22' |

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

**Table 5.03-- TIME DIFFERENTIALS BETWEEN HONOLULU AND
SELECTED CITIES: 1995**

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

Source: GTE Hawaiian Telephone Company, *Oahu Telephone Book April 1995-1996*, p. 38; consulates; airlines.

Table 5.04-- WIDTHS AND DEPTHS OF CHANNELS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[See maps on pages 6 and 7]

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

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

2/ Within three miles of coast.

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

Table 5.08-- LAND AREA OF ISLANDS: 1990

| Island | Square miles <u>1/</u> | Square kilometers | Acres <u>1/</u> |
|---|------------------------|-------------------|-----------------|
| State total | 6,423.4 | 16,636.5 | 4,110,966 |
| Hawaii | 4,028.2 | 10,433.1 | 2,578,073 |
| Maui | 727.3 | 1,883.7 | 465,472 |
| Molokini..... | 0.036 | 0.093 | 23 |
| Kahoolawe | 44.6 | 115.5 | 28,543 |
| Lanai | 140.5 | 364.0 | 89,946 |
| Molokai | 260.0 | 673.5 | 166,425 |
| Oahu | 597.1 | 1,546.5 | 382,148 |
| Kauai..... | 552.3 | 1,430.5 | 353,484 |
| Niihau..... | 69.5 | 179.9 | 44,455 |
| Lehua | 0.444 | 1.149 | 284 |
| Kaula..... | 0.247 | 0.640 | 158 |
| Northwestern Hawaiian Islands <u>2/</u> | 3.108 | 8.049 | 1,989 |
| Nihoa..... | 0.271 | 0.701 | 173 |
| Necker Island..... | 0.071 | 0.183 | 45 |
| French Frigate Shoals..... | 0.096 | 0.249 | 62 |
| Gardner Pinnacles | 0.009 | 0.024 | 6 |
| Maro Reef..... | Awash | Awash | Awash |
| Laysan Island..... | 1.588 | 4.114 | 1,017 |
| Lisianski Island | 0.601 | 1.556 | 384 |
| Pearl and Hermes Atoll..... | 0.139 | 0.359 | 89 |
| Kure Atoll..... | 0.333 | 0.863 | 213 |
| OTHER ISLANDS <u>3/</u> | | | |
| 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 kilometer and independently rounded. 1 square mile = 640 acres = 2.58999 square kilometers.

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

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

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 <u>1/</u> | |
| All named islands..... | 137 | 12 | 6,427.0 |
| Major islands..... | 8 | 7 | 6,419.4 |
| Named minor islands <u>2/</u> | 129 | 5 | 7.6 |
| Offshore of major islands..... | 96 | 3 | 2.6 |
| Northwestern Hawaiian Islands <u>3/</u> | 33 | 2 | 4.9 |
| Part of State..... | 28 | 1 | 2.9 |
| Not part of State (Midway Islands) | 5 | 1 | 2.0 |

1/ For populations, see present volume, table 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 <u>1/</u> | 2,221 | 572 |
| Maui: | | |
| Haleakala Crater <u>2/</u> | 12,575 | 3,028 |
| Oahu: | | |
| Diamond Head Crater..... | 255 | 562 |
| Koko Crater..... | 133 | 968 |
| Punchbowl Crater..... | 62 | 140 |

1/ Data exclude North and South Pits.

2/ Data exclude Koolau and Kaupo Gaps.

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

Table 5.11-- ELEVATIONS OF MAJOR SUMMITS

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

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

Continued on next page.

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

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

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

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

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

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

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

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

Table 5.13-- MAJOR STREAMS, BY ISLANDS: 1994

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

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

2/ Most recent available year.

3/ Most of discharge is from nearby groundwater outflow.

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

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

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

NA Not available.

SL Sea level.

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

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

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

Table 5.15-- LENGTH AND WIDTH OF SELECTED BEACHES

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

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

NA Not available.

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

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

Table 5.16-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLAND

| Island | Extreme length (miles) | Extreme width (miles) | Miles of sea cliffs with heights 1,000 ft. or more ^{1/} | Miles from coast of most remote point | Percent of area within 5 miles of coast |
|-----------------|-----------------------------------|-----------------------|--|---------------------------------------|---|
| The State | ... | ... | 33 | 28.5 | 48.6 |
| Hawaii | 93 | 76 | 4 | 28.5 | 30.0 |
| Maui | 48 | 26 | - | 10.6 | 76.1 |
| Kahoolawe | 11 | 6 | - | 2.4 | 100.0 |
| Lanai | 18 | 13 | 1 | 5.2 | 100.0 |
| Molokai | 38 | 10 | 14 | 3.9 | 100.0 |
| Oahu | 44 | 30 | - | 10.6 | 79.0 |
| Kauai..... | 33 | 25 | 11 | 10.8 | 65.0 |
| Niihau..... | 8 | 6 | 3 | 2.4 | 100.0 |
| Island | Percent of area with elevation -- | | Approximate mean altitude (feet) | Percent of area with slope -- | |
| | Less than 500 feet | 2,000 feet or more | | Less than 10 percent | 20 percent or more |
| The State | 20.8 | 50.9 | 3,030 | 63.5 | 17.0 |
| Hawaii | 12.0 | 68.4 | 3,950 | 76.0 | 4.0 |
| Maui | 24.9 | 41.4 | 2,390 | 38.5 | 36.0 |
| Kahoolawe | 38.9 | 0 | 600 | 60.0 | 9.0 |
| Lanai | 24.8 | 6.3 | 1,140 | 61.0 | 16.0 |
| Molokai | 37.3 | 17.8 | 1,150 | 53.0 | 26.0 |
| Oahu | 45.3 | 4.6 | 860 | 42.5 | 45.5 |
| Kauai..... | 35.6 | 24.0 | 1,380 | 33.5 | 50.5 |
| Niihau..... | 78.2 | 0 | 530 | 68.0 | 12.5 |

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

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

Table 5.17-- VOLCANIC ERUPTIONS: 1969 TO 1994

[Complete through December 31, 1994. Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active in recent years and included in this table]

| Volcano and date of outbreak | Repose period since previous eruption (months) | Duration (days) | Location ^{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 | 867 | ER | 940 | 12.5 | 176.7 |
| 1971: Aug. 14 | - | <1 | C | 1,100-1,080 | 3.1 | 9.1 |
| Sept. 24 | - | 5 | C, SWR | 1,120-820 | 3.9 | 7.7 |
| 1972: Feb. 4 | 4.3 | 455 | ER | 940 | 35.1 | 119.6 |
| 1973: May 5 | - | <1 | ER | 1,000-980 | 0.3 | 1.2 |
| Nov. 10 | - | 30 | ER | 980-870 | 1.0 | 2.7 |
| Dec. 12 | 0.1 | 203 | ER | 940 | 8.1 | 28.7 |
| 1974: July 19 | - | 3 | C, ER | 1,080-980 | 3.1 | 6.6 |
| Sept. 19 | 2.0 | <1 | C | 1,100 | 1.0 | 10.2 |
| Dec. 31 | 3.4 | <1 | SWR | 1,080 | 7.5 | 14.3 |
| 1975: Nov. 29 | 11.0 | <1 | C | 1,080-1,060 | 0.3 | 0.2 |
| 1977: Sept. 13 | 21.5 | 18 | ER | 620-480 | 7.8 | 32.9 |
| 1979: Nov. 16 | 26.3 | 1 | ER | 980-960 | 0.3 | 0.6 |
| 1982: April 30 | 29.5 | <1 | C | 1,080 | 0.3 | 0.5 |
| Sept. 25 | 4.8 | <1 | C | 1,080 | <1.0 | 3.0 |
| 1983: Jan. 3 ^{2/} | 3.3 | 4,380 | ER | 780-650 | >90.0 | 1,643 |

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

^{2/} Still in progress, December 31, 1994. As of that time, there had been 53 separate episodes. These had destroyed 181 housing units and added over 500 acres to the area of the island.

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

**Table 5.18-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER:
1975 TO 1995**

[Complete to July 23, 1995]

| Date and time (HST) | Location | Magnitude (Richter scale) |
|-------------------------------|---------------------------------------|---------------------------------|
| 1975: Jan. 2, 3:27 AM | Near Pahala, Hawaii | 5.0 |
| Nov. 29, 3:35 AM | Puna, Hawaii..... | 5.7 |
| Nov. 29, 4:47 AM | Puna, Hawaii..... | 7.2 |
| 1976: Feb. 20, 7:51 PM..... | Between Maui and Hawaii..... | 5.1 |
| 1977: Jan. 22, 12:36 PM | 100 miles S. of Kauai..... | 5.1 |
| Apr. 20, 6:49 PM | Hamakua, Hawaii..... | 5.0 |
| June 5, 11:42 PM | Puna, Hawaii..... | 5.1 |
| 1979: Mar. 29, 11:06 PM..... | 40 miles S.W. of Oahu..... | 5.5 |
| Sept. 21, 9:59 PM..... | Puna, Hawaii..... | 5.5 |
| 1981: Mar. 5, 4:09 AM..... | Molokai area | 5.3 |
| Nov.10, 3:02 AM | Kilauea, Hawaii | 5.3 |
| 1982: Jan. 21, 11:52 AM | Mauna Loa, Hawaii | 5.5 |
| Jan. 21, 12:29 PM | Mauna Loa, Hawaii | 5.5 |
| May 14, 6:26 AM | Off Kawaihae, Hawaii..... | 5.0 |
| 1983: Mar. 20, 5:18 PM..... | Off Kalapana, Hawaii | 5.0 |
| Sept. 9, 6:30 AM..... | Off Kalapana, Hawaii | 5.4 |
| Nov. 16, 6:13 AM | S.E. flank of Mauna Loa..... | 6.7 |
| 1984: June 8, 5:34 PM | 80 miles S. of Honolulu | 5.3 |
| 1986: Apr. 26, 7:19 AM | 28 miles N.E. of Maui..... | 5.1 |
| 1987: Feb. 3, 4:22 PM..... | 26 miles S. of Kahoolawe..... | 5.0 |
| 1988: March 24, 2:30 PM | 30 miles S. of Kahoolawe..... | 5.0 |
| March 27, 5:33 PM | 30 miles S. of Kahoolawe..... | 5.5 |
| June 7, 12:49 AM | S. flank of Kilauea..... | 5.0 |
| July 3, 7:38 PM | Near Pahala..... | 5.3 |
| July 22, 10:29 AM..... | Near French Frigate Shoals | 5.0 |
| 1989: June 25, 5:27 PM | Kalapana area..... | 6.1 |
| Dec. 27, 11:13 PM..... | Kilauea East Rift Zone | 5.1 |
| 1990: Aug. 8, 4:06 PM..... | Kilauea East Rift Zone | 5.4 |
| 1991: May 7, 10:21 PM | 13 miles W. of Kailua-Kona..... | 5.3 |
| 1994: Feb. 1, 12:01 AM..... | Offshore, 12 miles S. of Kilauea..... | 5.2 |

Source: Hawaii Institute of Geophysics, records; Hawaiian Volcano Observatory Summaries; U.S. Geological Survey, National Earthquake Information Service. Data provided by Paul Okubo, Hawaiian Volcano Observatory, July 24, 1995.

Table 5.19-- EARTHQUAKES WITH HONOLULU INTENSITIES OF V OR GREATER: 1859 TO 1995

[Complete to July 23, 1995]

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

NA Not available.

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

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

V. Felt outdoors; direction estimated. Sleepers wakened. Liquids 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, as updated by Paul Okubo, Hawaiian Volcano Observatory, July 24, 1995.

**Table 5.20-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE:
1946 TO 1995**

[Complete to July 23, 1995]

| Date | Maximum height in Hawaii | | Deaths in Hawaii | Damage in Hawaii (dollars) |
|----------------------|--------------------------|------|------------------|----------------------------|
| | Meters | Feet | | |
| 1946: April 1 | 17.0 | 55.8 | 159 | 26,000,000 |
| 1952: Nov. 4 | 6.1 | 20.0 | - | 1,000,000 |
| 1957: March 9 | 16.0 | 52.5 | - | 5,000,000 |
| 1960: May 22 | 10.5 | 34.5 | 61 | 23,000,000 |
| 1964: March 27 | 4.8 | 15.7 | - | 67,590 |
| 1975: Nov. 29 | 14.6 | 48.0 | 2 | 1,500,000 |

Source: George Pararas-Carayannis, *Catalog of Tsunamis in the Hawaiian Islands* (U.S. Coast and Geodetic Survey, May 1969); Harold G. Loomis, *The Tsunami of November 29, 1975 in Hawaii* (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, *Local Tsunamis and Possible Local Tsunamis in Hawaii* (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977); Doak C. Cox, *Tsunami Casualties and Mortality in Hawaii* (University of Hawaii, Environmental Center, June 1987), p. 39; Hawaiian Volcano Observatory, information provided July 24, 1995.

Table 5.21-- MAJOR DAMS: 1994

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

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

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

[Million gallons per day]

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

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

Table 5.23-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1993 TO 1995

| Geographic area | Number of services, June 30 | | | Consumption (million gallons) <u>1/</u> | | |
|-------------------------------|--------------------------------|---------|---------|--|--------|--------|
| | 1993 | 1994 | 1995 | 1993 | 1994 | 1995 |
| State total..... | 219,596 | 222,569 | 226,998 | 73,338 | 73,732 | 74,992 |
| City and County of Honolulu.. | 145,626 | 147,368 | 150,247 | 51,033 | 50,407 | 51,006 |
| Honolulu <u>2/</u> | 60,691 | 60,850 | 61,025 | 26,357 | 25,653 | 14,585 |
| Rest of Oahu..... | 84,935 | 86,518 | 89,222 | 24,676 | 24,754 | 36,421 |
| Hawaii County..... | 31,982 | 32,381 | 32,828 | 7,937 | 7,999 | 8,378 |
| Kauai County..... | 15,466 | 15,799 | 16,463 | 4,056 | 4,149 | 4,114 |
| Maui County..... | 26,522 | 27,021 | 27,460 | 10,312 | 11,177 | 11,494 |
| Maui..... | 25,042 | 25,531 | 25,960 | 9,991 | 10,822 | 11,150 |
| Molokai..... | 1,480 | 1,490 | 1,500 | 321 | 355 | 344 |

1/ Year ended June 30.

2/ Maunaloa to Moanalua.

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

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

| Type of indicators | Number of indicators | Final scores | | Hawaii rank <u>1/</u> |
|----------------------------|----------------------|--------------|--------|-----------------------|
| | | Median state | Hawaii | |
| Economic health..... | 20 | 506 | 252 | 1 |
| Environmental health | 20 | 525 | 360 | 4 |

1/ Among the 50 States.

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

Table 5.25-- HAZARDOUS WASTE SITES ON THE NATIONAL PRIORITY LIST: 1991 TO 1994

[Includes both proposed and final sites]

| Subject | 1991 | 1992 | 1993 | 1994 |
|---------------------------------|------|------|------|--------------|
| Number of sites..... | 2 | 2 | 3 | <u>1</u> / 4 |
| Rank (among the 50 states)..... | 47 | 47 | 47 | 46 |

1/ The national total was 1,283 sites in 1994.

Source: EPA data cited in *Statistical Abstract of the United States* for 1992 (p. 215), 1993 (p. 228), 1994 (p. 235), and 1995 (p. 237).

Table 5.26-- POLLUTION ABATEMENT CAPITAL EXPENDITURES AND OPERATING COSTS: 1989 TO 1993

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

| Subject and year | Total, including nonmedia | Media | | | | Nonmedia and other |
|------------------------------|---------------------------|-------|------|-------|------------------------|--------------------|
| | | Total | Air | Water | Solid/ contained waste | |
| Capital expenditures: | | | | | | |
| 1989..... | (NA) | (D) | (D) | (D) | (D) | (NA) |
| 1990..... | (NA) | 23.2 | 12.6 | (D) | (D) | (NA) |
| 1991..... | (NA) | 4.0 | 1.8 | (D) | (D) | (NA) |
| 1992..... | 2.8 | 2.8 | .5 | 2.3 | - | (Z) |
| 1993..... | 37.3 | 37.2 | 1.8 | 35.3 | - | .2 |
| Operating costs: | | | | | | |
| 1989..... | (NA) | 7.0 | 3.2 | 2.5 | 1.3 | (NA) |
| 1990..... | (NA) | 12.0 | 3.5 | (D) | (D) | (NA) |
| 1991..... | (NA) | 15.8 | (D) | 9.0 | (D) | (NA) |
| 1992..... | 16.2 | 12.8 | 3.3 | 4.6 | 4.9 | 3.4 |
| 1993..... | 15.2 | 12.3 | (D) | 4.4 | (D) | 2.8 |

D Withheld to avoid disclosing operations of individual companies.

Z Less than half the unit shown.

NA Not available.

Source: U.S. Bureau of the Census, "Pollution Abatement Costs and Expenditures, 1993," *Current Industrial Reports*, MA200(93)-1, December 1994, table 2.

**Table 5.27-- WATER QUALITY AT PUBLIC BEACHES, BY ISLANDS:
1993 AND 1994**

| Island | Number of locations | Number of samples | Enterococci density <u>1/</u> | | | |
|---------------------|---------------------|-------------------|-------------------------------|-------------------|---------------|----------------|
| | | | Lowest <u>2/</u> | Highest <u>3/</u> | Number over 7 | Mean <u>4/</u> |
| 1993 | | | | | | |
| State total | 157 | 2,554 | 0.7 | 126.0 | 25 | 3.1 |
| Hawaii | 39 | 504 | 1.1 | 71.8 | 5 | 2.7 |
| Hilo Shoreline | 16 | 159 | 2.0 | 71.8 | 3 | 3.6 |
| Kona Shoreline .. | 23 | 358 | 1.1 | 17.8 | 2 | 2.3 |
| Maui | 31 | 349 | 1.0 | 14.7 | 2 | 2.1 |
| Lanai | 2 | 8 | 1.0 | 1.9 | - | 1.4 |
| Molokai | 2 | 4 | 21.9 | 50.8 | 2 | 33.4 |
| Oahu | 53 | 1,479 | 0.9 | 126.0 | 7 | 3.7 |
| Kauai..... | 30 | 197 | 0.7 | 101.8 | 4 | 2.4 |
| 1994 | | | | | | |
| State total | 165 | 2,575 | 1.0 | 298.9 | 30 | 3.9 |
| Hawaii | 43 | 390 | 1.0 | 168.2 | 8 | 3.4 |
| Hilo Shoreline | 20 | 197 | 1.4 | 168.2 | 7 | 5.2 |
| Kona Shoreline .. | 23 | 193 | 1.0 | 7.6 | 1 | 2.2 |
| Maui | 37 | 432 | 1.0 | 19.2 | 1 | 1.8 |
| Lanai | 2 | 4 | 1.4 | 16.7 | 1 | 4.9 |
| Molokai | 2 | 4 | 5.5 | 11.7 | 1 | 8.0 |
| Oahu | 53 | 1,437 | 1.0 | 298.9 | 12 | 5.1 |
| Kauai..... | 28 | 308 | 1.1 | 151.8 | 7 | 4.4 |

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 1994 was that reported at Kaneohe Bay-North (Oahu), Hukilau Hotel Shoreline and Wailuku Breakwater (Maui), and Mauna Kea Beach Hotel-Outfall and Mauna Kea Hotel Beach (Hawaii). In 1993, the lowest average value was that reported for Brennecke Beach on Kauai.

3/ The highest average value in both 1994 and 1993 was that reported for the Ala Wai Canal at the McCully Street Bridge on Oahu.

4/ Not weighted by number of samples.

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

**Table 5.28-- WATER QUALITY AT SELECTED PUBLIC BEACHES:
1993 AND 1994**

| Island and beach | Number of samples | | Enterococci density ^{1/} | |
|--------------------------------------|-------------------|------|-----------------------------------|------|
| | 1993 | 1994 | 1993 | 1994 |
| Hawaii: | | | | |
| Hapuna Beach | 13 | 7 | 1.6 | 1.1 |
| Kahaluu Beach | 23 | 13 | 1.6 | 2.9 |
| Kealakekua Bay (curio stand) | 10 | 3 | 2.2 | 2.2 |
| Hilo Bay (Mooheau Park) | - | - | ... | ... |
| Spencer Beach Park | 13 | 6 | 2.2 | 2.0 |
| Maui: | | | | |
| Kapalua (Fleming) Beach (north) ... | 11 | 12 | 2.5 | 2.1 |
| Kihei (north) | 12 | 12 | 1.1 | 1.1 |
| Makena Beach | 11 | 12 | 1.5 | 1.5 |
| Seven Pools | 10 | 11 | 1.0 | 1.1 |
| Sheraton Kaanapali (shoreline) | 11 | 12 | 1.1 | 1.3 |
| Lanai: | | | | |
| Hulopoe Bay | 4 | 2 | 1.0 | 1.4 |
| Molokai: | | | | |
| Kaunakakai Harbor | 2 | 2 | 50.8 | 5.5 |
| Oahu: | | | | |
| Ala Moana Park (center) | 24 | 21 | 2.0 | 2.1 |
| Ewa Beach Park | 40 | 38 | 2.5 | 2.3 |
| Haleiwa Beach | 23 | 23 | 2.5 | 4.6 |
| Hanauma Bay | 38 | 41 | 6.5 | 3.8 |
| Kailua Beach Park | 38 | 40 | 3.1 | 5.2 |
| Kuhio Beach | 39 | 40 | 9.4 | 12.2 |
| Makaha Beach | 40 | 38 | 1.7 | 1.7 |
| Waimea Beach | 39 | 36 | 3.3 | 6.9 |
| Kauai: | | | | |
| Anini Park Pavilion | 7 | 12 | 1.6 | 2.3 |
| Kalapaki Beach | 7 | 12 | 4.9 | 13.0 |
| Kekaha (Oomano Pt.) | 7 | 9 | 1.0 | 1.3 |
| Poipu Beach Pavilion | 7 | 9 | 3.1 | 1.1 |
| West of Lydgate Park (wading pool) | 7 | 12 | 1.0 | 5.1 |

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

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

**Table 5.29-- REFUSE AND SEWAGE STATISTICS FOR OAHU:
1984 TO 1994**

[Fiscal years]

| Year | Tons of municipal solid waste delivered <u>1/</u> | | | Sewage treated <u>2/</u> (millions of gallons) |
|-----------|---|------------------------------------|----------------|---|
| | Total | City and County refuse vehicles | Other vehicles | |
| 1984..... | 611,386 | 297,215 | 314,171 | 38,283 |
| 1985..... | 615,574 | 272,905 | 342,669 | 37,817 |
| 1986..... | 681,874 | 375,847 | 306,027 | 37,608 |
| 1987..... | 678,392 | 380,810 | 297,582 | 38,199 |
| 1988..... | 739,820 | 403,528 | 336,292 | 39,757 |
| 1989..... | 778,673 | 302,851 | 474,822 | 39,918 |
| 1990..... | 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 |

| Year | Sewage pumped <u>2/</u> (millions of gallons) | Miles of sewers <u>2/</u> | City and County pump stations | City and County treatment plants |
|-----------|--|------------------------------|-------------------------------------|-------------------------------------|
| 1984..... | 48,320 | 1,691 | 51 | 18 |
| 1985..... | 49,361 | 1,711 | 51 | 17 |
| 1986..... | 48,559 | 1,736 | 55 | 17 |
| 1987..... | 49,542 | 1,752 | 57 | 17 |
| 1988..... | 51,713 | 1,769 | 59 | 17 |
| 1989..... | 51,623 | 1,805 | 59 | 14 |
| 1990..... | 50,858 | 1,828 | 62 | 13 |
| 1991..... | 52,849 | 1,859 | 64 | 13 |
| 1992..... | 53,290 | 1,890 | 65 | 12 |
| 1993..... | 52,480 | 1,914 | 67 | 11 |
| 1994..... | 53,298 | 1,945 | 69 | 8 |

1/ Excludes small landfill controlled by armed forces.

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

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

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

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

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

Table 5.31-- AIR QUALITY IN DOWNTOWN HONOLULU: 1984 TO 1994

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

| Year | Particulates | Sulfur oxides | Year | Particulates | Sulfur oxides |
|------------|--------------|---------------|---------------------------|--------------|---------------|
| 1984 | 25 | <5 | 1991 | 30 | <5 |
| 1985 | 24 | <5 | 1992 | 28 | <5 |
| 1986 | 25 | <5 | 1993 | 21 | <5 |
| 1987 | 26 | <5 | 1994 | 21 | <5 |
| 1988 | 26 | <5 | Standards <u>1/</u> | 60 | 80 |
| 1989 | 30 | <5 | | | |
| 1990 | 30 | <5 | | | |

1/ Federal standards for total suspended particulates have been dropped and PM₁₀ standards have been adopted. Hawaii State standard for total suspended particulates is now being used for comparison.
Source: Hawaii State Department of Health, Clean Air Branch, data supplied May 1995.

Table 5.32-- AIR QUALITY AT SPECIFIED LOCATIONS: 1994

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

| Sampling station | PM 10 ^{1/} | | | Sulfur dioxide | | |
|----------------------|---------------------|---------|--------------------|----------------|---------|--------------------|
| | Annual range | | Arithmetic average | Annual range | | Arithmetic average |
| | Minimum | Maximum | | Minimum | Maximum | |
| Oahu: | | | | | | |
| Downtown Honolulu... | 12 | 34 | 21 | 0 | 17 | 2 |
| Liliha | 17 | 40 | 26 | ... | ... | ... |
| Pearl City | 3 | 28 | 15 | ... | ... | ... |
| Kapolei | 15 | 97 | 31 | 0 | 13 | 1 |
| Makaiwa | ... | ... | ... | 0 | 27 | 3 |
| West Beach..... | 9 | 42 | 17 | 0 | 11 | 1 |
| Waimanalo..... | 11 | 30 | 19 | ... | ... | ... |
| Maui: ^{2/} | | | | | | |
| Kihei..... | 4 | 25 | 14 | <5 | <5 | <5 |
| Lahaina | 3 | 23 | 14 | ... | ... | ... |
| Kauai: | | | | | | |
| Lihue | 14 | 32 | 21 | ... | ... | ... |

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

^{2/} 1993 data.

Source: Hawaii State Department of Health, Clean Air Branch, data supplied May 1995.

Table 5.33-- ATMOSPHERIC CARBON DIOXIDE MEASUREMENTS AT MAUNA LOA: ANNUAL MEAN VALUES, 1958 TO 1994

[Parts per million]

| Year | Annual average | Year | Annual average | Year | Annual average |
|-----------|------------------|-----------|------------------|-----------|----------------|
| 1958..... | <u>1/</u> 315.17 | 1971..... | 326.17 | 1984..... | 344.48 |
| 1959..... | 315.83 | 1972..... | 327.26 | 1985..... | 345.85 |
| 1960..... | 316.75 | 1973..... | 329.45 | 1986..... | 347.21 |
| 1961..... | 317.49 | 1974..... | <u>1/</u> 329.72 | 1987..... | 348.98 |
| 1962..... | 318.30 | 1975..... | <u>3/</u> 331.14 | 1988..... | 351.34 |
| 1963..... | 318.83 | 1976..... | 332.04 | 1989..... | 352.89 |
| 1964..... | <u>2/</u> 319.04 | 1977..... | 333.79 | 1990..... | 354.26 |
| 1965..... | 319.87 | 1978..... | 335.35 | 1991..... | 355.45 |
| 1966..... | 321.21 | 1979..... | 336.73 | 1992..... | 356.20 |
| 1967..... | 322.02 | 1980..... | 338.72 | 1993..... | 356.9 |
| 1968..... | 322.83 | 1981..... | 340.12 | 1994..... | 358.7 |
| 1969..... | 323.93 | 1982..... | 341.21 | | |
| 1970..... | 325.27 | 1983..... | 342.87 | | |

1/ Based on data for 8 months.

2/ Based on data for 9 months.

3/ Based on data for 11 months.

Source: National Oceanic and Atmospheric Administration, Geophysical Monitoring for Climatic Change, records; provided by Saul Price, National Weather Service, Pacific Region, Honolulu (for 1958-1991) and Mauna Loa Observatory (for 1992-1994).

Table 5.34-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

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

Continued on next page.

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

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

NA Not available.

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

^{2/} Temperature data are for Mahukona.

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

^{4/} Temperature data refer to Puunene Airport.

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

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

| Subject | Hilo | Kahului | Honolulu | Lihue |
|--|--------|---------|----------|-------|
| Normal temperatures (°F.): | | | | |
| Daily maximum..... | 81.5 | 83.9 | 84.4 | 81.2 |
| Daily minimum..... | 66.4 | 67.2 | 70.0 | 70.0 |
| Monthly: Coolest month..... | 71.7 | 71.7 | 72.9 | 71.6 |
| Warmest month | 76.3 | 79.3 | 81.4 | 79.5 |
| Annual | 74.0 | 75.6 | 77.2 | 75.6 |
| Extreme temperatures (°F.): | | | | |
| Record highest..... | 94 | 97 | 95 | 90 |
| Record lowest..... | 53 | 48 | 53 | 50 |
| Normal degree days, base 65°F.: | | | | |
| Heating..... | - | - | - | - |
| Cooling..... | 3,284 | 3,883 | 4,474 | 3,883 |
| Precipitation (inches): | | | | |
| Normal..... | 129.19 | 20.92 | 22.02 | 43.00 |
| Maximum monthly | 50.82 | 14.46 | 20.79 | 22.91 |
| Minimum monthly | 0.28 | 0.00 | T | T |
| Maximum in 24 hours | 22.30 | 7.01 | 17.07 | 11.54 |
| Relative humidity (percent): | | | | |
| 8 A.M..... | 80 | 75 | 72 | 78 |
| 2 P.M..... | 68 | 58 | 55 | 67 |
| Wind speed (m.p.h.): | | | | |
| Mean | 7.2 | 12.8 | 11.4 | 12.4 |
| Peak gust | 55 | 54 | 51 | 115 |
| Percent of possible sunshine | 40 | 67 | 70 | 57 |
| Mean number of days: | | | | |
| Clear..... | 35.2 | 130.7 | 90.5 | 55.8 |
| Partly cloudy..... | 131.2 | 144.5 | 180.0 | 183.2 |
| Cloudy..... | 198.9 | 90.1 | 94.6 | 126.3 |
| Precipitation .01 inch or more | 278.7 | 100.3 | 98.0 | 200.5 |
| Thunderstorms..... | 9.9 | 4.2 | 6.6 | 7.7 |
| Temperature maximum 90° and above..... | 0.8 | 25.6 | 33.5 | 0.1 |

T Trace amount.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1994* for Hilo, Kahului, Honolulu, and Lihue.

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

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

Continued on next page.

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

| Month | Relative humidity (percent) | | Wind (miles/hour) | | Percent of possible sunshine | Mean sky cover, sunrise to sunset <u>2/</u> | Mean number of days | | |
|----------------|--------------------------------|--------|----------------------|---------------------------|------------------------------------|--|---------------------|--------|--------------------------------|
| | 8 A.M. | 2 P.M. | Mean speed | Fastest obs. <u>1/</u> | | | Clear | Cloudy | Precip. .01 inch or more |
| January | 81 | 61 | 9.5 | 32 | 65 | 5.4 | 9.5 | 8.5 | 9.5 |
| February | 78 | 59 | 10.1 | 35 | 66 | 5.5 | 8.0 | 7.8 | 9.2 |
| March | 73 | 57 | 11.4 | 30 | 71 | 5.8 | 7.5 | 9.4 | 8.8 |
| April | 70 | 55 | 11.8 | 31 | 69 | 6.1 | 5.7 | 9.8 | 8.8 |
| May | 67 | 53 | 11.8 | 30 | 71 | 5.9 | 6.6 | 9.0 | 7.2 |
| June | 66 | 52 | 12.6 | 26 | 73 | 5.5 | 6.4 | 6.3 | 5.8 |
| July..... | 67 | 51 | 13.1 | 28 | 75 | 5.3 | 7.6 | 5.2 | 7.3 |
| August | 68 | 52 | 12.8 | 28 | 77 | 5.2 | 8.2 | 6.0 | 6.2 |
| September..... | 69 | 52 | 11.3 | 38 | 77 | 5.2 | 8.2 | 5.8 | 7.1 |
| October | 70 | 55 | 10.5 | 25 | 69 | 5.6 | 7.5 | 8.5 | 8.7 |
| November..... | 74 | 58 | 10.7 | 46 | 63 | 5.7 | 7.2 | 9.1 | 9.1 |
| December..... | 78 | 60 | 10.5 | 33 | 61 | 5.5 | 8.2 | 9.1 | 10.3 |
| Annual..... | 72 | 55 | 11.4 | 46 | 70 | 5.6 | 90.5 | 94.6 | 98.0 |

T Trace amount.

1/ Fastest observation, 1 minute, during period of record.

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

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1994.*

Table 5.37-- AVERAGE TEMPERATURE, PERCENT OF POSSIBLE SUNSHINE, AND PRECIPITATION, FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1950 TO 1994

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

NA Not available.

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

Source: National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual, 1950-1994).

**Table 5.38-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT:
ANNUALLY, 1984 TO 1994**

| Year | Average temperature (°F) | | | Extreme temp. (°F) | | Precipitation (inches) |
|-----------|--------------------------|----------------|---------------|--------------------|---------|------------------------|
| | Annual | Coollest month | Warmest month | Lowest | Highest | |
| 1984..... | 78.1 | 74.1 | 81.7 | 57 | 94 | 17.08 |
| 1985..... | 76.9 | 71.4 | 81.9 | 54 | 93 | 17.38 |
| 1986..... | 78.3 | 72.6 | 82.9 | 56 | 94 | 13.93 |
| 1987..... | 77.9 | 71.2 | 82.9 | 55 | 94 | 23.53 |
| 1988..... | 78.5 | 73.1 | 82.1 | 57 | 94 | 16.47 |
| 1989..... | 77.5 | 72.9 | 81.9 | 56 | 92 | 27.52 |
| 1990..... | 77.6 | 71.5 | 82.3 | 57 | 93 | 19.84 |
| 1991..... | 77.7 | 72.4 | 82.4 | 55 | 93 | 17.94 |
| 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 |

| 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 | | |
| 1984..... | 72 | 53 | 10.2 | 40 | 71 | 81 |
| 1985..... | 72 | 55 | 10.6 | 46 | 69 | 87 |
| 1986..... | 74 | 55 | 10.1 | 41 | 77 | 88 |
| 1987..... | 70 | 54 | 9.9 | 41 | 73 | 99 |
| 1988..... | 71 | 53 | 9.8 | 39 | 75 | 88 |
| 1989..... | 72 | 55 | 10.5 | 41 | 79 | 82 |
| 1990..... | 69 | 54 | 11.2 | 46 | 77 | 109 |
| 1991..... | 69 | 53 | 10.0 | 39 | 67 | 86 |
| 1992..... | 71 | 55 | 9.5 | 49 | (NA) | 98 |
| 1993..... | 70 | 53 | 10.9 | 46 | 88 | 76 |
| 1994..... | 72 | 55 | 11.9 | 51 | 89 | 80 |

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 5.39-- CLIMATIC DATA FOR THE PERIOD OF RECORD

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

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

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

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

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

**Table 5.40-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY,
1984 TO 1994**

[In inches]

| Year | Hawaii | | | | Maui | | |
|------------|--------------|----------------------|--------------|---------|-----------------|-------|---------|
| | Hilo Airport | Waimea ^{1/} | Kona Village | Naalehu | Kahului Airport | Kihei | Lahaina |
| 1984 | 100.08 | 8.87 | 8.15 | 39.51 | 8.56 | 5.64 | 6.30 |
| 1985 | 112.96 | 16.58 | 8.60 | 48.74 | 20.00 | 13.86 | 13.48 |
| 1986 | 171.03 | 34.67 | 12.41 | 64.55 | 18.39 | 7.25 | 7.38 |
| 1987 | 142.41 | 19.43 | 10.24 | 49.13 | 24.31 | 14.03 | 19.72 |
| 1988 | 140.19 | 12.52 | 11.70 | 38.21 | 26.79 | 17.03 | 14.91 |
| 1989 | 166.71 | (NA) | 13.32 | 74.79 | 40.63 | 27.00 | 26.95 |
| 1990 | 211.22 | 23.54 | 19.80 | 89.83 | 35.20 | 19.17 | 19.84 |
| 1991 | 153.04 | 15.73 | 8.88 | 44.45 | 16.09 | 6.62 | 11.11 |
| 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 |

| Year | Oahu | | | | Kauai | | |
|------------|---------|----------------------|---------------|----------------------------|-------|---------------|------------------|
| | Waikiki | University of Hawaii | Nuuanu Res. 4 | Kane- ohe ^{2/} | Koloa | Lihue Airport | Prince- ville |
| 1984 | 19.35 | 33.13 | 71.32 | (NA) | 48.82 | 30.12 | 71.58 |
| 1985 | 25.61 | 42.19 | 101.20 | (NA) | 48.70 | 28.91 | 55.22 |
| 1986 | 22.39 | 32.39 | 120.60 | 77.66 | 64.64 | 27.99 | 90.28 |
| 1987 | 27.56 | 46.52 | 134.29 | 77.79 | 72.53 | 42.95 | 94.61 |
| 1988 | 24.50 | (NA) | 124.42 | 81.10 | 63.23 | 43.06 | 77.10 |
| 1989 | (NA) | 39.53 | 129.50 | 88.20 | 87.81 | 56.77 | 116.65 |
| 1990 | 26.15 | 40.66 | 137.81 | 131.69 | 73.27 | 39.37 | 86.44 |
| 1991 | 26.10 | 42.83 | 115.02 | 90.59 | 71.30 | 41.63 | 82.01 |
| 1992 | (NA) | 35.10 | 118.58 | (NA) | 52.53 | 50.17 | (NA) |
| 1993 | 16.92 | 24.14 | 81.62 | 63.55 | 52.98 | 22.27 | 48.02 |
| 1994 | 20.16 | 33.68 | 125.48 | 77.34 | 60.73 | 32.99 | 72.15 |

NA Not available.

^{1/} Lalamilo Field Office.

^{2/} Hawaii State Hospital (Kaneohe Mauka). The August 1990 value is for a comparable station (Pali Golf Course).

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

Table 5.41-- MAJOR HURRICANES: 1950 TO 1995

[Complete to February 14, 1995]

| Hurricane name | Date ^{1/} | Islands most affected | Maximum recorded winds ashore (m.p.h.) | | Deaths | Property damage (mil. dol.) |
|----------------|--------------------|--------------------------|--|------------|--------|-----------------------------|
| | | | Sustained | Peak gusts | | |
| Hiki | Aug. 15-17, 1950 | Kauai | 68 | (NA) | 1 | 0.2 |
| Della | Sept. 4, 1957 | French Frig. Shoals | 82 | 109 | - | Minor |
| Nina | Dec. 1-2, 1957 | Kauai | (NA) | 92 | 1 | 0.1 |
| Dot | Aug. 6, 1959 | Kauai | 81 | 103 | - | 5.5+ |
| Fico | July 18-20, 1978 | Hawaii | (NA) | 58+ | - | 0.2 |
| Iwa | Nov. 23, 1982 | Kauai, Oahu | 65 | 117 | 1 | 234.0 |
| Estelle..... | July 22, 1986 | Maui, Hawaii | (NA) | 55 | - | 2.0 |
| Iniki..... | Sept. 11, 1992 | Kauai, Oahu | 92 | 143 | 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," *Honolulu Advertiser*, July 23, 1986, pp. A-1, A-2; "Hawaii Hurricanes," *Honolulu Star-Bulletin*, August 4, 1988, p. A-8; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data provided February 14, 1995.

Table 5.42-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

| Month | Trade wind frequency <u>1/</u> (percent) | Expected days of strong trade winds <u>2/</u> | Highest surf <u>3/</u> (average number of days) | | Water temperature <u>4/</u> (°F.) | |
|-------------|--|---|---|----------------|-----------------------------------|--------------|
| | | | Flat or 1 foot | 6 feet or more | Mean maximum | Mean minimum |
| Jan..... | 42 | 9 | 1 | 19 | 74.7 | 71.1 |
| Feb..... | 55 | 7 | 1 | 16 | 75.6 | 70.3 |
| March..... | 61 | 10 | 1 | 12 | 76.5 | 71.8 |
| April..... | 74 | 10 | 3 | 7 | 77.7 | 73.0 |
| May..... | 86 | 7 | 8 | 3 | 79.5 | 74.7 |
| June..... | 91 | 7 | 15 | - | 81.1 | 77.7 |
| July..... | 95 | 10 | 16 | - | 81.1 | 78.3 |
| Aug..... | 94 | 7 | 15 | - | 81.9 | 79.2 |
| Sept..... | 83 | 4 | 10 | 2 | 81.9 | 78.4 |
| Oct..... | 71 | 4 | 1 | 12 | 81.1 | 77.2 |
| Nov..... | 64 | 8 | - | 19 | 79.3 | 74.5 |
| Dec..... | 57 | 9 | - | 20 | 75.9 | 71.4 |
| 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), pages 14, 22, 56, and 74; Hawaii State Department of Land and Natural Resources, Commission on Water Resource Management, data provided February 14, 1995.

Table 5.43-- 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 5.44-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT SELECTED LOCATIONS, AT BEGINNING OF EACH SEASON

[Hawaiian Standard Time]

| Subject | Hilo | Kahului | Honolulu | Lihue | Barking Sands |
|---------------------------|-------|---------|----------|-------|---------------|
| Sunrise (A.M.): | | | | | |
| March 21 | 6:24 | 6:29 | 6:35 | 6:41 | 6:42 |
| June 21..... | 5:42 | 5:45 | 5:50 | 5:55 | 5:56 |
| Sept. 23..... | 6:09 | 6:15 | 6:21 | 6:26 | 6:28 |
| Dec. 22..... | 6:51 | 6:58 | 7:05 | 7:12 | 7:14 |
| Sunset (P.M.): | | | | | |
| March 21 | 6:32 | 6:37 | 6:43 | 6:49 | 6:51 |
| June 21..... | 7:02 | 7:10 | 7:16 | 7:23 | 7:25 |
| Sept. 23..... | 6:16 | 6:21 | 6:27 | 6:33 | 6:35 |
| Dec. 22..... | 5:47 | 5:50 | 5:55 | 6:00 | 6:01 |
| Hours of daylight: | | | | | |
| March 21 | 12:08 | 12:08 | 12:08 | 12:08 | 12:09 |
| June 21..... | 13:20 | 13:25 | 13:26 | 13:28 | 13:29 |
| Sept. 23..... | 12:07 | 12:06 | 12:06 | 12:07 | 12:07 |
| Dec. 22..... | 10:56 | 10:52 | 10:50 | 10:48 | 10:47 |

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084, and records. Data provided by Saul Price, Staff Meteorologist, National Weather Service, Pacific Region.

**Table 5.45-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE
HONOLULU AREA: 1991 TO 1994**

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

| Species | 1991 | 1992 | 1993 | 1994 |
|-------------------------------|--------|--------|--------|--------|
| All species: | | | | |
| Species..... | 46 | 48 | 45 | 49 |
| Individual birds..... | 17,864 | 18,779 | 22,598 | 20,112 |
| Endemic species: <u>1/</u> | | | | |
| 'Apapane | 158 | 57 | 145 | 153 |
| Hawaiian Coot | 15 | 10 | 81 | 64 |
| Hawaiian Stilt..... | 99 | 77 | 137 | 388 |
| Oahu 'Amakihi | 66 | 79 | 136 | 118 |
| Indigenous species: <u>2/</u> | | | | |
| Great Frigatebird | 30 | 50 | 126 | 33 |
| Red-footed Booby..... | 472 | 287 | 916 | 1,640 |
| Alien species: <u>3/</u> | | | | |
| Cattle Egret | 486 | 202 | 258 | 235 |
| Common Myna | 2,536 | 2,698 | 2,725 | 2,527 |
| Common Waxbill..... | 290 | 323 | 559 | 856 |
| House Sparrow | 954 | 776 | 672 | 392 |
| Japanese White-eye..... | 658 | 697 | 931 | 913 |
| Java Sparrow..... | 2,724 | 2,702 | 3,216 | 2,053 |
| Red-vented Bulbul..... | 1,125 | 1,309 | 1,487 | 2,302 |
| Rock Dove..... | 263 | 299 | 327 | 79 |
| Spotted Dove..... | 1,228 | 1,513 | 1,379 | 1,259 |
| Zebra (Barred) Dove..... | 3,592 | 4,112 | 5,627 | 3,506 |
| Visitor species: <u>4/</u> | | | | |
| Pacific Golden-Plover..... | 1,037 | 1,199 | 1,332 | 1,201 |
| Ruddy Turnstone | 147 | 245 | 357 | 422 |

1/ Birds peculiar to Hawaii, and found nowhere else.

2/ Native to Hawaii, but also found elsewhere.

3/ Formerly termed "introduced." Includes accidental escapes from captivity.

4/ Formerly termed "migratory." Includes stragglers and seasonal migrants.

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

Table 5.46-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA, BY TYPE OF SPECIES: 1993 AND 1994

[See headnote and footnotes to the preceding table]

| Type of species | Number of species | | Number of individuals | |
|-------------------|-------------------|---------------|-----------------------|---------------|
| | Dec. 19, 1993 | Dec. 18, 1994 | Dec. 19, 1993 | Dec. 18, 1994 |
| All species | 45 | 49 | 22,598 | 20,112 |
| Endemic..... | 6 | 7 | 513 | 801 |
| Indigenous..... | 8 | 7 | 1,143 | 1,721 |
| Alien..... | 22 | 29 | 19,114 | 15,936 |
| Visitor..... | 9 | 6 | 1,828 | 1,654 |

Source: Hawaii Audubon Society, records.

Table 5.47-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1990 TO 1994

[As of June 30]

| Location | 1990 | 1991 | 1992 | 1993 | 1994 |
|--|---------|---------|---------|---------|---------|
| Along City and County streets and highways ^{1/} | 124,650 | 125,236 | 127,056 | 130,458 | 132,887 |
| In City and County parks | 98,330 | 98,599 | 98,685 | 99,025 | 104,412 |

^{1/} Excludes Federal, State, and private thoroughfares.

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

Table 5.48-- ESTIMATED NUMBER OF SPECIES IN HAWAII: 1995

[Excludes viruses and bacteria]

| Category | Species |
|---|---------|
| Total in Hawaii and surrounding waters | 21,383 |
| Endemic to Hawaii..... | 8,759 |
| Nonindigenous protists, fungi, plants, and animals..... | 4,532 |
| Terrestrial..... | 15,000 |
| Found in fresh water..... | 300 |
| Marine-inhabiting..... | 5,500 |

Source: Lucius G. Eldredge and Scott E. Miller, "How many species are there in Hawaii?", *Bishop Museum Occasional Papers*, No. 41, March 1, 1995, pp. 3-18.

Table 5.49-- THREATENED AND ENDANGERED SPECIES, FOR THE UNITED STATES AND HAWAII: 1995

| Geographic area | Total | Bird | Mammal | Plant | Snail |
|--------------------|-------|------|--------|-------|-------|
| Hawaii | 273 | 31 | 2 | 199 | 41 |
| Niihau | 8 | 1 | 1 | 6 | - |
| Kauai | 83 | 13 | 2 | 68 | - |
| Oahu | 129 | 7 | 2 | 79 | 41 |
| Molokai..... | 59 | 6 | 1 | 52 | - |
| Lanai | 42 | 4 | 1 | 37 | - |
| Kahoolawe..... | 4 | - | - | 4 | - |
| Maui | 78 | 12 | 2 | 64 | - |
| Hawaii | 67 | 14 | 2 | 51 | - |
| United States..... | ... | 88 | ... | 526 | ... |

Source: *National Geographic*, September 1995, pp. 14-15.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in Section 7, military land in Section 10, agriculture in Section 19, forests in Section 20, and cane land in Section 22.

Out of the 4,093,000 acres of land in the State in 1992, 274,000 were in cropland and 1,013,000 in grazing land. Other major categories included forestland, with 1,482,000 acres, and urban and built-up, with 150,000. On Oahu, land in residential use increased from 22,600 acres in 1969 to 30,200 in 1992; during the same 23-year span, agricultural land declined from 88,900 to 70,000 acres. For the State as a whole, the Land Use Commission has zoned 189,000 acres as urban, 1,975,000 as conservation, 1,939,000 as agricultural, and 9,900 as rural.

The most recent data on land ownership indicate that the Federal government owns 8.4 percent of all land, the State and counties own 29.8 percent, and private owners (chiefly large estates) have 61.8 percent. Total Federal holdings reported by the General Services Administration in 1993 came to 650,000 acres, exclusive of leased land (8,000 acres); most of the Federal land was in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 187,000 acres, divided among 6,100 lessees. Total land parcels in the State as of 1995 numbered 460,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 338,000 acres to 650,000.

Tabulations by the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Business, Economic Development & Tourism, and Land Use Commission, Honolulu Department of Finance, and Honolulu Department of General Planning provided the data for this section. *Historical Statistics of Hawaii*, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 6, 7, and 23 of the *Statistical Abstract of the United States: 1995*.

Table 6.01-- LAND OWNERSHIP, COVER, OR USE: 1982 TO 1992

[In thousand of acres. Based on sample data and subject to sampling variation. Small differences between reported values accordingly may not be statistically significant]

| Land ownership, cover, or use | 1982 ^{1/} | 1987 ^{1/} | 1992 | |
|----------------------------------|--------------------|--------------------|-----------------|----------------------------------|
| | | | Estimated value | Sampling variation ^{2/} |
| Total surface area | 4,093.3 | 4,093.3 | 4,093.3 | 227.8 |
| LAND OWNERSHIP | | | | |
| Federal land ^{3/} | 350.8 | 430.4 | 431.9 | 131.1 |
| Nonfederal land | 3,701.5 | 3,621.8 | 3,620.8 | 236.2 |
| Developed | 123.4 | 128.5 | 149.8 | 29.2 |
| Rural..... | 3,578.1 | 3,493.3 | 3,471.0 | 237.7 |
| Water area | 41.0 | 41.1 | 40.6 | 22.9 |
| LAND COVER OR USE | | | | |
| Cropland | 303.1 | 294.1 | 274.3 | 43.1 |
| Cultivated | 268.2 | 252.2 | 228.6 | 39.3 |
| Noncultivated..... | 34.9 | 41.9 | 45.7 | 20.0 |
| Grazing land..... | 1,019.7 | 996.6 | 1,013.4 | 132.7 |
| Forest land | 1,575.3 | 1,538.4 | 1,482.5 | 199.4 |
| Minor land cover/uses | 656.8 | 643.0 | 680.4 | 189.0 |
| All other land cover/uses | 538.4 | 621.2 | 642.7 | 132.7 |

^{1/} Revised from *Data Book 1993-94*, table 6.1.

^{2/} 95-percent confidence interval, plus or minus.

^{3/} Includes ceded land; excludes leased land and submerged land.

Source: U.S. Department of Agriculture, Natural Resources Conservation Service (formerly the Soil Conservation Service), 1992 National Resources Inventory.

**Table 6.02-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU:
1989 AND 1994**

| Subject | June 1989: Oahu total | June 1994 | | |
|---|--------------------------|------------|-------------------|--------------|
| | | Oahu total | Honolulu district | Rest of Oahu |
| LAND USE (IN ACRES) | | | | |
| All existing uses..... | 375,455 | 375,146 | 54,124 | 321,022 |
| Residential | 29,219 | 31,098 | 9,798 | 21,300 |
| Industrial | 11,865 | 9,058 | 3,788 | 5,270 |
| Commercial..... | 4,404 | 4,205 | 1,523 | 2,683 |
| Hotel | 301 | 319 | 132 | 187 |
| Agriculture..... | 74,229 | 70,066 | 300 | 69,766 |
| Usable vacant | 38,218 | 38,587 | 2,532 | 36,056 |
| Other..... | 217,218 | 212,812 | 36,052 | 185,761 |
| STRUCTURES BY YEAR BUILT ^{1/} | | | | |
| All structures..... | 151,105 | 162,363 | 65,069 | 97,294 |
| Before 1930..... | 7,668 | 8,446 | 6,029 | 2,417 |
| 1930 to 1939 | 9,296 | 8,537 | 5,486 | 3,051 |
| 1940 to 1949 | 15,548 | 14,478 | 8,357 | 6,121 |
| 1950 to 1959 | 30,314 | 29,516 | 14,189 | 15,327 |
| 1960 to 1969 | 41,366 | 40,846 | 15,420 | 25,426 |
| 1970 to 1979 | 28,210 | 28,323 | 8,145 | 20,178 |
| 1980 to 1989 | 18,703 | 20,244 | 5,245 | 14,999 |
| 1990 and later | - | 11,973 | 2,198 | 9,775 |
| DWELLING UNITS BY TYPE ^{1/} | | | | |
| All dwelling units..... | 263,203 | 280,887 | 150,183 | 130,704 |
| Single family and duplex | 139,904 | 149,203 | 57,756 | 91,447 |
| Low density multi-family | 13,592 | 42,821 | 17,836 | 24,985 |
| High density multi-family | 109,707 | 88,863 | 74,591 | 14,272 |

^{1/} Data exclude structures on military bases.

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

**Table 6.03-- ESTIMATED ACREAGE OF LAND USE DISTRICTS:
1964 TO 1996**

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes, as amended. All data are approximate]

| Year and month | Total area <u>1/</u> | Classification by State Land Use Commission <u>2/</u> | | | |
|-----------------------------|----------------------|---|--------------|--------------|--------|
| | | Urban | Conservation | Agricultural | Rural |
| UNADJUSTED <u>3/</u> | | | | | |
| 1964: August | 4,111,500 | 117,800 | 1,862,600 | 2,124,400 | 6,700 |
| 1969: August | 4,111,500 | 140,163 | 2,009,087 | 1,955,875 | 6,375 |
| 1974: March | 4,111,500 | 147,472 | 1,986,429 | 1,968,727 | 8,872 |
| 1979: January..... | 4,111,500 | 151,929 | 1,976,106 | 1,974,230 | 9,235 |
| 1984: January..... | 4,112,388 | 156,568 | 1,975,473 | 1,970,146 | 10,201 |
| 1985: January..... | 4,112,388 | 158,620 | 1,969,351 | 1,974,236 | 10,181 |
| 1986: January..... | 4,112,388 | 163,211 | 1,968,804 | 1,970,189 | 10,184 |
| 1987: January..... | 4,112,388 | 165,165 | 1,967,638 | 1,969,401 | 10,184 |
| 1988: January..... | 4,112,388 | 166,507 | 1,967,168 | 1,968,524 | 10,189 |
| ADJUSTED <u>3/</u> | | | | | |
| 1988: January..... | 4,112,388 | 165,607 | 1,967,247 | 1,969,345 | 10,189 |
| 1989: January..... | 4,112,388 | 171,230 | 1,967,194 | 1,963,766 | 10,198 |
| 1990: January..... | 4,112,388 | 175,285 | 1,960,976 | 1,965,935 | 10,192 |
| 1991: January..... | 4,112,388 | 178,114 | 1,960,608 | 1,963,491 | 10,175 |
| 1992: January..... | 4,112,388 | 181,407 | 1,959,621 | 1,961,294 | 10,066 |
| 1993: January..... | 4,112,388 | 180,912 | 1,960,615 | 1,960,795 | 10,066 |
| 1994: January..... | 4,112,388 | 187,697 | 1,958,897 | 1,955,704 | 10,090 |
| 1995: January..... | 4,112,388 | 189,418 | 1,974,549 | 1,938,505 | 9,916 |
| 1996: January..... | 4,112,388 | 190,257 | 1,976,016 | 1,936,197 | 9,918 |

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: JANUARY 1995

[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 <u>1/</u> | Classification by State Land Use Commission <u>2/</u> | | | |
|-------------------------------|----------------------|---|--------------|--------------|-------|
| | | Urban | Conservation | Agricultural | Rural |
| State total | 4,112,388 | 189,418 | 1,974,549 | 1,938,505 | 9,916 |
| Hawaii | 2,573,400 | 51,754 | 1,306,520 | 1,214,485 | 641 |
| Maui | 465,800 | 20,640 | 193,631 | 247,770 | 3,759 |
| Kahoolawe | 28,800 | - | 28,800 | - | - |
| Lanai | 90,500 | 3,228 | 38,197 | 46,678 | 2,397 |
| Molokai | 165,800 | 2,509 | 49,768 | 111,657 | 1,866 |
| Oahu | 386,188 | 98,140 | 156,618 | 131,430 | - |
| Kauai..... | 353,900 | 13,147 | 198,715 | 140,785 | 1,253 |
| Niihau..... | 45,700 | - | - | 45,700 | - |
| Kaula and Lehua | 400 | - | 400 | - | - |
| Other islands <u>3/</u> | 1,900 | - | 1,900 | - | - |

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5.

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

3/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

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

Table 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 and Economic Development.

Table 6.06-- LAND PARCELS, BY COUNTIES: 1990 TO 1995

[As of January 1]

| Year | State total | City and County of Honolulu | County of Maui | County of Hawaii | County of Kauai |
|-----------|-------------|-----------------------------|----------------|------------------|-----------------|
| 1990..... | 424,111 | 224,339 | 50,966 | 124,902 | 23,904 |
| 1991..... | 431,271 | 227,449 | 52,362 | 126,497 | 24,963 |
| 1992..... | 438,388 | 231,893 | 53,414 | 127,444 | 25,637 |
| 1993..... | 446,276 | 236,138 | 55,379 | 128,543 | 26,216 |
| 1994..... | 452,568 | 240,652 | 56,108 | 128,954 | 26,854 |
| 1995..... | 459,646 | 245,257 | 57,044 | 129,708 | 27,637 |

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

Table 6.07-- CEMETERIES, CHURCHES, HOSPITALS, AND SCHOOLS, BY COUNTIES: 1995

[Privately-owned parcels exempt from real property taxes]

| Category | State total | Honolulu | Maui | Hawaii | Kauai |
|-----------------|-------------|----------|------|--------|-------|
| Cemeteries..... | 110 | 48 | 3 | 50 | 9 |
| Churches..... | 1,431 | 799 | 218 | 282 | 132 |
| Hospitals..... | 81 | 66 | 10 | 1 | 4 |
| Schools..... | 145 | 98 | 6 | 39 | 2 |

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1995-1996 Tax Year, State of Hawaii* (July 1995).

**Table 6.08-- LAND OWNED IN FEE SIMPLE BY SELECTED LARGE
LANDOWNERS: 1965 TO 1994**

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

| Landowner | 1964-1965 | 1992 | 1993 | 1994 |
|--|-------------------|---------|------------------|------------------|
| Seven large landowners | 1,203,487 | 978,163 | 974,606 | 966,541 |
| Percent of total land area <u>1/</u> ... | 29.3 | 23.8 | 23.7 | 23.5 |
| Bernice P. Bishop Estate <u>2/</u> | 369,700 | 336,525 | 336,372 | 336,270 |
| Richard S. Smart (Parker Ranch) | 185,610 | 138,000 | 140,000 | 140,000 |
| Dole Food Company, Inc. | <u>3/</u> 154,759 | 128,032 | 122,435 | 121,982 |
| Samuel M. Damon Estate | 143,842 | 121,608 | 121,608 | 121,608 |
| Alexander and Baldwin, Inc. | 122,788 | 93,000 | 94,300 | 92,900 |
| C. Brewer and Company, Ltd. | 145,147 | 87,465 | <u>4/</u> 86,891 | <u>5/</u> 81,997 |
| James Campbell Estate | 81,641 | 73,533 | 73,000 | 71,784 |

1/ Based on area of 4,110,966 acres.

2/ As of June 30.

3/ Figure for 1964-1965 refers to Castle & Cooke, Inc., including Dole Company (88,792 acres), Castle & Cooke (45,422), and Kohala Sugar Company (20,546).

4/ As of June 27, 1993.

5/ Excludes 4,126 acres transferred to C. Brewer Homes, Inc.

Source: Robert H. Horwitz and Judith B. Finn, *Public Land Policy in Hawaii: Major Landowners* (Legislative Reference Bureau, Report No. 3, 1967), pp. 17-18; Department of Business, Economic Development & Tourism annual survey of major landowners.

Table 6.09-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1991 TO 1993

| Subject | Sept. 30, 1991 | Sept. 30, 1992 | Sept. 30, 1993 |
|---|-------------------|-------------------|-------------------|
| OWNED | | | |
| Number of installations..... | 312 | 310 | 310 |
| Land area, total (acres)..... | 634,488.6 | 640,179.0 | 650,185.9 |
| Percent of State area..... | 15.5 | 15.6 | 1/ 15.8 |
| Urban..... | 114,883.4 | 14,401.8 | 23,679.7 |
| Rural..... | 519,605.2 | 625,777.2 | 626,506.2 |
| Number of buildings..... | 16,247 | 16,190 | 16,131 |
| Floor area of bldgs. (1,000 sq. ft.)..... | 77,623 | 76,868 | 76,294 |
| Cost, total (\$1,000) 2/..... | 2,723,730 | 2,972,378 | 3,226,317 |
| Land..... | 93,220 | 96,527 | 117,709 |
| Buildings..... | 1,753,237 | 1,948,140 | 2,061,209 |
| Structures and facilities..... | 877,273 | 927,711 | 1,047,399 |
| Predominant usage of land (acres): | | | |
| Agriculture and grazing..... | - | - | - |
| Forest and wildlife..... | 271,237.0 | 271,237.0 | 271,237.0 |
| Parks and historic sites..... | 245,343.6 | 245,343.6 | 245,343.6 |
| Power development and distribution..... | - | - | - |
| Military, excluding airfields..... | 104,319.0 | 108,791.0 | 112,056.8 |
| Airfields..... | 5,051.3 | 6,423.3 | 9,166.0 |
| Harbor and port facilities..... | 0.8 | 0.8 | 2.9 |
| Reclamation and irrigation..... | - | - | - |
| Office building locations..... | 62.9 | 64.2 | 62.4 |
| Flood control and navigation..... | 7,674.0 | 7,674.0 | 1,907.2 |
| Vacant..... | 1.5 | 1.5 | 1.5 |
| Institutional..... | - | - | - |
| Housing..... | 87.4 | 87.4 | 87.4 |
| Storage..... | 6.8 | 6.8 | 778.2 |
| Industrial..... | 42.9 | 42.9 | 9,037.4 |
| Research and development..... | 183.0 | 30.3 | 30.3 |
| Other land..... | 478.4 | 476.2 | 475.2 |
| LEASED | | | |
| Number of leases..... | 262 | 266 | 240 |
| Land area, total (acres)..... | 8,759.2 | 8,765.9 | 8,016.3 |
| Urban..... | 511.0 | 505.3 | 102.6 |
| Rural..... | 8,248.2 | 8,260.6 | 7,913.7 |
| Number of building locations..... | 218 | 222 | 213 |
| Floor area of buildings (sq. ft.)..... | 714,267 | 737,559 | 726,154 |
| Annual rental (\$1,000)..... | 7,322 | 7,752 | 8,920 |

Footnote and source on next page.

Table 6.09-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1991 TO 1993 -- Con.

1/ The U.S. percentage was 28.6. The Hawaii percentage ranked 14th among the 50 States and D.C.

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

Source: U.S. General Services Administration, *Summary Report of Real Property Owned by the United States Throughout the World* (annual) and *Summary Report of Real Property Leased by the United States Throughout the World* (annual).

Table 6.10-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1994

[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 <u>1/</u> | 186,995 | 107,490 | 28,995 | 25,366 | 6,586 | 18,558 |
| In homestead use | 40,397 | 27,237 | 447 | 11,005 | 905 | 803 |
| Homestead leases <u>2/</u> | 6,059 | 1,760 | 567 | 805 | 2,484 | 443 |
| Residential..... | 4,739 | 1,028 | 503 | 387 | 2,426 | 395 |
| Agricultural | 1,023 | 463 | 64 | 392 | 58 | 46 |
| Pastoral | 297 | 269 | - | 26 | - | 2 |
| Applicant waiting list <u>2/</u> . | 26,023 | 10,061 | 5,148 | 1,519 | 6,144 | 3,151 |
| Residential..... | 14,578 | 4,521 | 2,558 | 683 | 5,340 | 1,476 |
| Agricultural | 10,019 | 4,586 | 2,393 | 716 | 804 | 1,520 |
| Pastoral | 1,426 | 954 | 197 | 120 | - | 155 |

1/ Data based on latest figures from the trust resolution project. Oahu total includes 14.4 acres of Kalawahine land provided under Act 150, SLH 1990.

2/ Residence, agriculture, or pasture. Since applicants may apply for two types of leases, duplications occur. The Department estimates the unduplicated Statewide total number of applicants at about 16,000. Data are subject to audit.

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

**Table 6.11-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY, BY
COUNTIES: JANUARY 10, 1995**

[In thousands of acres]

| Type of document | State total | City and County of Honolulu | County of Hawaii | County of Kauai | County of Maui |
|--|-------------|-----------------------------------|---------------------|--------------------|-------------------|
| All types | 1,409.8 | 72.3 | 980.2 | 155.4 | 201.9 |
| Public lands..... | 431.1 | 19.5 | 327.5 | 38.1 | 46.0 |
| General lease <u>1/</u> | 358.1 | 10.4 | 295.5 | 39.5 | 12.7 |
| Revocable permit <u>2/</u> | 163.7 | 3.9 | 70.1 | 37.4 | 52.3 |
| Unencumbered lands <u>3/</u> . | 94.0 | 13.2 | 67.1 | 3.2 | 10.5 |
| Lands set aside to other government agencies..... | 768.4 | 42.6 | 536.5 | 96.6 | 92.7 |
| Executive order..... | 269.3 | 17.7 | 200.1 | 26.1 | 20.4 |
| Governor's proclamation | 517.2 | 29.2 | 340.3 | 72.7 | 75.0 |
| Dept. of Hawaiian Home Lands..... | 191.6 | 4.8 | 107.8 | 19.0 | 60.0 |
| University of Hawaii..... | 1.7 | 0.7 | 0.5 | 0.4 | 0.1 |
| Hawaii Housing Authority... | 1.5 | 1.2 | 0.1 | 0.05 | 0.1 |
| Highways and roads | 15.2 | 3.4 | 7.7 | 1.2 | 2.9 |

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

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

3/ Parcels with no documents and not in use.

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

Section 7

RECREATION AND TRAVEL

Statistics on tourism, recreation, sports, museums, parks, pets, and the performing arts appear in this section. Additional information on recreational and resort land use is given in Section 6; on transportation, in Section 18; and on hotels and hotel workers, in Sections 12, 13, 15 and 23.

Approximately 6,634,000 visitors stayed overnight or longer in Hawaii during 1995, compared with 4,884,000 in 1985 and only 2,829,000 in 1975. The average number present at any given time during 1995 was 158,400. Total visitor expenditures (exclusive of trans-Pacific fares) in 1994 were estimated by the Hawaii Visitors Bureau at \$10.6 billion, compared with \$4.6 billion a decade earlier. The 1994 visitor total included 3.59 million from other States, 304,000 from Canada, and 1.76 million from Japan. Expenditures per visitor day in 1994 averaged \$134 for westbound visitors and \$341 for the Japanese. Visitor-related spending in 1994 resulted in state and county tax revenues of \$1.19 billion and generated 245,000 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has seven national parks and similar areas, 69 State parks, 624 county parks, 72 golf courses, 290 public tennis courts, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational, scenic and cultural facilities reporting more than 1.5 million annual visits each in 1994 included Waikiki Beach, Hawaii Volcanoes National Park, Hanauma Bay, Haleakala National Park, and the Arizona Memorial. Total visits to 76 museums, State monuments, zoos, and similar attractions in 1994 numbered 12.2 million. About 804,000 Hawaii residents traveled to the Mainland or abroad in 1995. Nine theatrical groups on Oahu reported 1,173 performances of 155 productions for the 1993-1994 season, with a combined audience of 701,000. During the 1994-1995 season, the Hawaii Symphony Orchestra gave 115 concerts, with a total attendance of 120,000. During the 1994-1995 school year, attendance at UH-Manoa varsity baseball, basketball, football and volleyball home games was 675,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (particularly in its annual research reports), the State Parks Division of the Department of Land and Natural Resources, the Hawaii State Department of Business, Economic Development & Tourism, U.S. National Park Service, County park and recreation departments, and other organizations. Long-term trends are summarized in *Historical Statistics of Hawaii*, Section 11. National statistics are given in Section 7 of *Statistical Abstract of the United States: 1995*.

**Table 7.01-- PASSENGERS ARRIVING, BY DIRECTION OF TRAVEL AND
TRANSIT STATUS: 1985 TO 1994**

| Direction and status | 1985 | 1986 | 1987 | 1988 | 1989 |
|-----------------------------|-------------|-------------|-------------|-------------|-------------|
| All directions . | 6,314,290 | 7,063,710 | 7,324,280 | 7,894,680 | 8,236,250 |
| Landing..... | 5,338,170 | 6,068,990 | 6,248,550 | 6,715,600 | 7,149,700 |
| Intransit..... | 976,120 | 994,720 | 1,075,730 | 1,179,080 | 1,086,550 |
| Westbound <u>1</u> / | 4,675,690 | 5,245,690 | 5,214,520 | 5,443,980 | 5,734,910 |
| Landing..... | 4,137,830 | 4,689,480 | 4,617,230 | 4,793,580 | 5,115,410 |
| Intransit | 537,860 | 556,210 | 597,290 | 650,400 | 619,500 |
| Eastbound <u>2</u> / | 1,638,600 | 1,818,020 | 2,109,760 | 2,450,700 | 2,501,340 |
| Landing..... | 1,200,340 | 1,379,510 | 1,631,320 | 1,922,020 | 2,034,290 |
| Intransit | 438,260 | 438,510 | 478,440 | 528,680 | 467,050 |
| Direction 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 |
| Westbound <u>1</u> / | 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 |
| Eastbound <u>2</u> / | 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 |

1/ Arriving from North America.

2/ Arriving from Asia or Oceania.

Source: Hawaii Visitors Bureau, records.

**Table 7.02-- PASSENGER STATUS OF PARTIES AND PASSENGERS
ARRIVING IN HAWAII, BY DIRECTION OF TRAVEL: 1992 TO 1994**

| Year and direction of travel | All types | Visitors destined to Hawaii | Visitors destined beyond Hawaii | | Returning residents | Intended residents |
|-------------------------------|-----------|-----------------------------|---------------------------------|------------|---------------------|--------------------|
| | | | Over-night or longer | In transit | | |
| PARTIES ^{1/} | | | | | | |
| 1992, total..... | 4,401,170 | 3,415,940 | 501,080 | (NA) | 455,220 | 28,930 |
| Westbound..... | 2,523,020 | 1,888,450 | 205,040 | (NA) | 404,050 | 25,480 |
| Eastbound ^{2/} | 1,878,150 | 1,527,490 | 296,040 | (NA) | 51,170 | 3,450 |
| 1993, total..... | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Westbound..... | (NA) | (NA) | (NA) | (NA) | 453,230 | 25,040 |
| Eastbound ^{2/} | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| 1994, total..... | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| Westbound..... | (NA) | (NA) | (NA) | (NA) | 467,430 | 21,960 |
| Eastbound ^{2/} | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| PASSENGERS | | | | | | |
| 1992, total..... | 8,405,740 | 5,699,600 | 814,280 | 1,139,390 | 706,370 | 46,070 |
| Westbound..... | 5,295,770 | 3,606,940 | 373,180 | 631,420 | 642,410 | 41,790 |
| Eastbound ^{2/} | 3,109,970 | 2,092,860 | 441,100 | 507,970 | 63,960 | 4,280 |
| 1993, total..... | 7,878,950 | 5,456,550 | 667,680 | 933,320 | 779,350 | 42,050 |
| Westbound..... | 5,039,640 | 3,461,650 | 302,870 | 519,210 | 716,100 | 39,810 |
| Eastbound ^{2/} | 2,839,310 | 1,994,900 | 364,810 | 414,110 | 63,250 | 2,240 |
| 1994, total..... | 7,909,250 | 5,732,600 | 697,700 | 645,430 | 792,450 | 41,070 |
| Westbound..... | 5,197,640 | 3,740,380 | 257,440 | 425,260 | 738,540 | 36,020 |
| Eastbound ^{2/} | 2,711,610 | 1,992,220 | 440,260 | 220,170 | 53,910 | 5,050 |

NA Not available.

^{1/} Not surveyed for in-transit passengers.

^{2/} Including northbound.

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

**Table 7.03-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS:
1964 TO 1995**

[For earlier years, 1921-1963, see *Data Book 1987*, table 210]

| Year | Visitors staying overnight or longer | | | Average number of visitors present | | |
|----------------------|--------------------------------------|----------------------|-----------|------------------------------------|----------------------|--------|
| | Total | West-bound <u>1/</u> | Other | Total | West-bound <u>1/</u> | Other |
| 1964 | 563,925 | 460,290 | 103,635 | 16,037 | 14,901 | 1,136 |
| 1965 | 686,928 | 567,218 | 119,710 | 17,369 | 16,057 | 1,312 |
| 1966 | 835,456 | 686,886 | 148,570 | 20,918 | 19,271 | 1,647 |
| 1967 | 1,124,818 | 893,103 | 231,715 | 27,630 | 24,898 | 2,732 |
| 1968 | 1,314,571 | 1,015,844 | 298,727 | 32,335 | 28,784 | 3,551 |
| 1969 | 1,527,012 | 1,181,029 | 345,983 | 37,198 | 33,088 | 4,110 |
| 1970 | 1,746,970 | 1,326,135 | 420,835 | 36,943 | 32,028 | 4,915 |
| 1971 | 1,818,944 | 1,430,325 | 388,619 | 40,889 | 36,504 | 4,385 |
| 1972 | 2,244,377 | 1,782,737 | 461,640 | 50,143 | 45,098 | 5,045 |
| 1973 | 2,630,952 | 2,067,861 | 563,091 | 59,578 | 53,407 | 6,171 |
| 1974 | 2,786,489 | 2,184,620 | 601,869 | 63,535 | 56,939 | 6,596 |
| 1975 | 2,829,105 | 2,207,417 | 621,688 | 66,308 | 59,495 | 6,813 |
| 1976 | 3,220,151 | 2,551,601 | 668,550 | 75,532 | 68,225 | 7,307 |
| 1977 | 3,433,667 | 2,763,312 | 670,355 | 83,030 | 75,684 | 7,346 |
| 1978 | 3,670,309 | 3,030,999 | 639,310 | 92,034 | 85,028 | 7,006 |
| 1979 | 3,960,531 | 3,139,455 | 821,076 | 98,676 | 89,678 | 8,998 |
| 1980 | 3,934,504 | 3,046,132 | 888,372 | 96,497 | 86,788 | 9,709 |
| 1981 | 3,934,623 | 2,974,791 | 959,832 | 95,968 | 85,449 | 10,519 |
| 1982 | 4,242,925 | 3,278,525 | 964,400 | 105,310 | 94,740 | 10,570 |
| 1983 | 4,367,880 | 3,395,880 | 972,000 | 108,040 | 97,390 | 10,650 |
| 1984 | 4,855,580 | 3,721,380 | 1,134,200 | 118,660 | 106,260 | 12,400 |
| 1985 | 4,884,110 | 3,708,610 | 1,175,500 | 116,700 | 103,820 | 12,880 |
| 1986 | 5,606,980 | 4,256,390 | 1,350,590 | 132,910 | 118,110 | 14,800 |
| 1987 | 5,799,830 | 4,204,010 | 1,595,820 | 134,270 | 116,780 | 17,490 |
| 1988 | 6,142,420 | 4,264,730 | 1,877,690 | 141,410 | 115,760 | 25,650 |
| 1989 | 6,641,820 | 4,705,320 | 1,936,500 | 169,670 | 135,480 | 34,190 |
| 1990 | 6,971,180 | 4,719,730 | 2,251,450 | 162,070 | 125,590 | 36,480 |
| 1991 | 6,873,890 | 4,584,460 | 2,289,430 | 157,590 | 121,330 | 36,260 |
| 1992 | 6,513,880 | 3,980,120 | 2,533,760 | 153,390 | 113,860 | 39,530 |
| 1993 | 6,124,230 | 3,764,520 | 2,359,710 | 148,750 | 108,090 | 40,660 |
| 1994 | 6,430,300 | 3,997,820 | 2,432,480 | 159,200 | 115,220 | 43,980 |
| 1995 <u>2/</u> | 6,633,840 | 3,977,820 | 2,656,020 | 158,410 | 114,210 | 44,200 |

1/ Arriving from the Mainland United States or Canada.

2/ Preliminary.

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

**Table 7.04-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO
HAWAII: 1993 AND 1994**

| Country of residence | 1993 | | | 1994 | | |
|-------------------------------|-----------|------------|-----------------|-----------|------------|-----------------|
| | Total | West-bound | Other <u>1/</u> | Total | West-bound | Other <u>1/</u> |
| All visitors | 6,124,230 | 3,764,520 | 2,359,710 | 6,430,300 | 3,997,820 | 2,432,480 |
| United States <u>2/</u> | 3,391,600 | 2,986,110 | 405,490 | 3,588,300 | 3,269,480 | 318,820 |
| Canada | 311,900 | 260,560 | 51,340 | 304,120 | 252,030 | 52,090 |
| Asia..... | 1,875,320 | 157,640 | 1,717,680 | 2,059,060 | 156,560 | 1,902,500 |
| Japan | 1,591,920 | 81,300 | 1,510,620 | 1,756,100 | 71,830 | 1,684,270 |
| Taiwan..... | 75,780 | 7,910 | 67,870 | 73,960 | 8,630 | 65,330 |
| Korea..... | 92,990 | 20,450 | 72,540 | 112,450 | 25,630 | 86,820 |
| Hong Kong..... | 23,220 | 6,520 | 16,700 | 22,820 | 6,510 | 16,310 |
| China..... | 20,760 | 6,270 | 14,490 | 19,380 | 8,300 | 11,080 |
| Philippines..... | 26,770 | 21,180 | 5,590 | 22,380 | 17,480 | 4,900 |
| Singapore..... | 12,340 | 2,800 | 9,540 | 13,410 | 2,340 | 11,070 |
| Indonesia..... | 12,560 | 5,040 | 7,520 | 16,280 | 8,210 | 8,070 |
| Other Asia | 18,980 | 6,170 | 12,810 | 22,280 | 7,630 | 14,650 |
| Oceania..... | 218,230 | 114,640 | 103,590 | 153,190 | 70,820 | 82,370 |
| Australia | 156,560 | 87,780 | 68,780 | 104,940 | 52,310 | 52,630 |
| New Zealand | 47,350 | 23,300 | 24,050 | 34,450 | 14,830 | 19,620 |
| Other Oceania | 14,320 | 3,560 | 10,760 | 13,800 | 3,680 | 10,120 |
| Europe | 281,720 | 212,980 | 68,740 | 279,000 | 212,220 | 66,780 |
| United Kingdom | 87,200 | 57,030 | 30,170 | 81,850 | 55,590 | 26,260 |
| Germany | 91,120 | 72,820 | 18,300 | 93,680 | 72,920 | 20,760 |
| Other Europe | 103,400 | 83,130 | 20,270 | 103,470 | 83,710 | 19,760 |
| Other foreign countries | 45,440 | 32,590 | 12,850 | 46,630 | 36,710 | 9,920 |

1/ Eastbound and northbound.

2/ Excludes Hawaii. Includes remaining 49 states, D.C., and U.S. territories and possessions.

Source: Hawaii Visitors Bureau, *1994 Annual Research Report*, p. 5.

**Table 7.05-- VISITOR DAYS, BY DIRECTION OF TRAVEL:
1990 TO 1994**

| Year | Total | Westbound | Eastbound and northbound |
|-----------|------------|------------|--------------------------|
| 1990..... | 59,155,920 | 45,840,750 | 13,315,170 |
| 1991..... | 57,518,790 | 44,285,880 | 13,232,910 |
| 1992..... | 56,139,630 | 41,671,860 | 14,467,770 |
| 1993..... | 54,294,750 | 39,452,170 | 14,842,580 |
| 1994..... | 58,111,440 | 42,057,070 | 16,054,370 |

Source: Hawaii Visitors Bureau, *1994 Annual Research Report*, p. 5.

**Table 7.06-- AVERAGE VISITOR CENSUS, BY COUNTIES AND ISLANDS:
1993 AND 1994**

[Based largely on intended island visits and length of stay, as reported on arrival in Hawaii.
Beginning in 1994, eastbound data reflect actual visits]

| County or island | 1993 | | | 1994 | | |
|---------------------|---------|------------|--------|---------|------------|--------|
| | Total | West-bound | Other | Total | West-bound | Other |
| State total | 148,750 | 108,090 | 40,660 | 159,200 | 115,220 | 43,980 |
| Oahu | 79,070 | 46,560 | 32,510 | 83,400 | 46,820 | 36,580 |
| Hawaii County | 19,110 | 16,800 | 2,310 | 19,310 | 17,030 | 2,280 |
| Kauai County..... | 8,290 | 7,400 | 890 | 13,420 | 12,350 | 1,070 |
| Maui County..... | 42,280 | 37,330 | 4,950 | 43,070 | 39,020 | 4,050 |
| Lanai | 990 | 940 | 50 | 1,160 | 1,120 | 40 |
| Maui | 39,900 | 35,080 | 4,820 | 40,740 | 36,770 | 3,970 |
| Molokai..... | 1,390 | 1,310 | 80 | 1,170 | 1,130 | 40 |

Source: Hawaii Visitors Bureau, *Annual Research 1993 (1994)*, p. 6, and *1994 Annual Research Report (1996)*, p. 7.

Table 7.07-- VISITOR ARRIVALS, WESTBOUND AND OTHER, BY AREAS VISITED: 1993 AND 1994

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

| Areas visited <u>1/</u> | 1993 | | | 1994 | | |
|-------------------------------|-----------|------------|-----------------|-----------|------------|-----------------|
| | Total | West-bound | Other <u>2/</u> | Total | West-bound | Other <u>2/</u> |
| State total <u>3/</u> | 6,124,230 | 3,764,520 | 2,359,710 | 6,430,300 | 3,997,820 | 2,432,480 |
| Oahu | 4,504,900 | 2,379,510 | 2,125,390 | 4,693,220 | 2,393,120 | 2,300,100 |
| Kauai..... | 571,760 | 444,690 | 127,670 | 873,870 | 729,800 | 144,070 |
| Maui County <u>3/</u> | 2,260,940 | 1,790,480 | 470,460 | 2,354,580 | 1,900,330 | 454,250 |
| Maui..... | 2,209,980 | 1,746,200 | 463,780 | 2,302,690 | 1,852,710 | 449,980 |
| Molokai..... | 94,570 | 83,310 | 11,260 | 79,450 | 72,580 | 6,870 |
| Lanai..... | 72,170 | 64,100 | 8,070 | 80,200 | 73,950 | 6,250 |
| Hawaii County <u>3/</u> | 1,120,040 | 875,690 | 244,350 | 1,079,630 | 866,300 | 213,330 |
| Hilo side..... | 350,240 | 279,630 | 70,610 | 342,690 | 275,960 | 66,730 |
| Kona side..... | 978,440 | 771,250 | 207,190 | 933,700 | 764,530 | 169,170 |
| One island only..... | 4,387,150 | 2,538,210 | 1,848,940 | 4,502,610 | 2,657,840 | 1,844,770 |
| Oahu only..... | 2,976,190 | 1,335,950 | 1,640,240 | 3,025,480 | 1,293,530 | 1,731,950 |

1/ Based largely on intended visits, as reported upon arrival in State. Beginning in 1994, eastbound data reflect actual visits.

2/ Eastbound or northbound.

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

Source: Hawaii Visitors Bureau, *1994 Annual Research Report*, p. 7.

Table 7.08-- SUMMARY CHARACTERISTICS OF OVERNIGHT AND LONGER VISITORS, BY DIRECTION OF TRAVEL: 1993 AND 1994

| Subject | Total | Westbound | Eastbound and northbound |
|--|-------|-----------|--------------------------|
| 1993 | | | |
| Residence (percent): | | | |
| United States..... | 55.2 | 79.3 | 17.2 |
| Pacific and Mountain States..... | 31.5 | 47.1 | 6.6 |
| California..... | 20.7 | 30.9 | 4.5 |
| Males per 100 females..... | (NA) | (NA) | (NA) |
| Median age (years)..... | (NA) | (NA) | (NA) |
| High-status occupations <u>1/</u> (percent)..... | 36.9 | 42.9 | 28.1 |
| Persons per party..... | 1.81 | 1.86 | 1.74 |
| Arriving June-August (percent)..... | 26.6 | 25.9 | 27.7 |
| Repeat visitors <u>2/</u> (percent)..... | 55.5 | 62.0 | 45.9 |
| Pleasure trip (percent)..... | 96.1 | 76.3 | 74.6 |
| In hotel only..... | 54.5 | 52.5 | 69.2 |
| Destined beyond Hawaii (percent)..... | 10.9 | 8.0 | 15.5 |
| 1994 | | | |
| Residence (percent): | | | |
| United States..... | 55.8 | 81.8 | 13.1 |
| Pacific and Mountain States..... | 32.2 | 48.4 | 5.6 |
| California..... | 21.4 | 32.1 | 3.9 |
| Males per 100 females..... | (NA) | 111.9 | (NA) |
| Median age (years)..... | (NA) | 40.4 | (NA) |
| High-status occupations <u>1/</u> (percent)..... | (NA) | (NA) | (NA) |
| Persons per party..... | 1.84 | 1.90 | 1.75 |
| Arriving June-August (percent)..... | 27.1 | 26.9 | 27.4 |
| Repeat visitors <u>2/</u> (percent)..... | 55.8 | 62.3 | 45.2 |
| Pleasure trip (percent)..... | 82.7 | 78.3 | 89.9 |
| In hotel only..... | 65.8 | 56.0 | 81.9 |
| Destined beyond Hawaii (percent)..... | 10.9 | 6.4 | 18.1 |

NA Not available.

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

2/ Party heads.

Source: Hawaii Visitors Bureau, records.

**Table 7.09-- DEMOGRAPHIC CHARACTERISTICS OF VISITORS, BY
DIRECTION OF TRAVEL: 1993 AND 1994**

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

| Subject | Total | | Westbound | | Eastbound and northbound | |
|--------------------------|-----------|-----------|-----------|-----------|--------------------------|-----------|
| | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 |
| All visitors | 6,124,230 | 6,430,300 | 3,764,520 | 3,997,820 | 2,359,710 | 2,432,480 |
| Age: | | | | | | |
| Under 10 years | (NA) | (NA) | (NA) | 191,900 | (NA) | (NA) |
| 10 to 19 years | (NA) | (NA) | (NA) | 295,840 | (NA) | (NA) |
| 20 to 29 years | (NA) | (NA) | (NA) | 635,650 | (NA) | (NA) |
| 30 to 39 years | (NA) | (NA) | (NA) | 839,540 | (NA) | (NA) |
| 40 to 49 years | (NA) | (NA) | (NA) | 871,520 | (NA) | (NA) |
| 50 to 59 years | (NA) | (NA) | (NA) | 587,680 | (NA) | (NA) |
| 60 years and over | (NA) | (NA) | (NA) | 575,690 | (NA) | (NA) |
| Median (years) | (NA) | (NA) | (NA) | 40.38 | (NA) | (NA) |
| Sex: | | | | | | |
| Male | (NA) | (NA) | (NA) | 2,110,850 | (NA) | (NA) |
| Female | (NA) | (NA) | (NA) | 1,886,970 | (NA) | (NA) |
| Males per 100 females... | (NA) | (NA) | (NA) | 111.9 | (NA) | (NA) |
| Residence: | | | | | | |
| Pacific | 1,651,030 | 1,770,520 | 1,528,300 | 1,656,930 | 122,730 | 113,590 |
| Alaska | 31,000 | 38,140 | 28,510 | 34,960 | 2,490 | 3,180 |
| California | 1,269,640 | 1,376,410 | 1,164,070 | 1,282,600 | 105,570 | 93,810 |
| Oregon | 98,340 | 103,600 | 94,270 | 98,950 | 4,070 | 4,650 |
| Washington | 252,050 | 252,370 | 241,450 | 240,420 | 10,600 | 11,950 |
| Mountain | 278,970 | 300,990 | 245,960 | 277,700 | 33,010 | 23,290 |
| West North Central | 171,390 | 177,290 | 147,090 | 167,440 | 24,300 | 9,850 |
| West South Central | 190,720 | 193,180 | 163,750 | 175,400 | 26,970 | 17,780 |
| East North Central | 343,390 | 371,170 | 296,920 | 339,040 | 46,470 | 32,130 |
| East South Central | 74,080 | 73,790 | 62,220 | 68,470 | 11,860 | 5,320 |
| New England | 107,220 | 107,240 | 86,810 | 91,540 | 20,410 | 15,700 |
| Middle Atlantic | 264,620 | 259,190 | 210,390 | 220,860 | 54,230 | 38,230 |
| South Atlantic | 297,190 | 303,250 | 237,300 | 264,150 | 59,890 | 39,100 |
| U.S. territories | 12,980 | 31,680 | 7,370 | 7,850 | 5,610 | 23,830 |
| Canada | 311,900 | 304,120 | 260,560 | 252,030 | 51,340 | 52,090 |
| Japan | 1,591,920 | 1,756,100 | 81,300 | 71,830 | 1,510,620 | 1,684,270 |
| Other foreign | 828,810 | 781,780 | 436,550 | 404,480 | 392,260 | 377,300 |

NA Not available.

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

Table 7.10-- TRIP CHARACTERISTICS OF VISITORS, BY DIRECTION OF TRAVEL: 1993 AND 1994

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

| Subject | Westbound | | Eastbound and other | |
|---|-----------|-----------|---------------------|-----------|
| | 1993 | 1994 | 1993 | 1994 |
| All visitors <u>1/</u> | 3,764,520 | 3,997,820 | 2,359,710 | 2,432,480 |
| Purpose of visit: <u>1/</u> | | | | |
| Pleasure | 2,944,620 | 3,130,940 | 2,081,940 | 2,187,690 |
| Honeymoon | ... | 258,290 | ... | 310,680 |
| Meetings, conventions, incentive <u>1/</u> .. | 309,200 | 346,440 | 82,760 | 75,190 |
| Convention | 197,990 | 227,870 | 37,030 | 31,990 |
| Corporate meeting | 62,470 | 63,340 | 14,530 | 18,380 |
| Incentive | 54,930 | 62,000 | 32,010 | 25,300 |
| Other business..... | 178,960 | 178,730 | 49,640 | 45,190 |
| Visit friends or relatives | 333,040 | 343,510 | 71,270 | 68,660 |
| Government or military | 55,040 | 54,690 | 22,700 | 25,280 |
| Attend school..... | 10,600 | 10,050 | 8,240 | 12,690 |
| Other | 99,060 | 107,990 | 71,280 | 46,810 |
| Traveler method: | | | | |
| Tour group..... | 389,110 | 416,710 | 1,472,990 | 1,549,940 |
| Non-group..... | 3,375,410 | 3,571,110 | 886,720 | 882,540 |
| Package | 1,363,180 | 1,534,020 | 1,688,440 | 1,773,720 |
| Non-package | 2,401,340 | 2,463,800 | 671,270 | 658,760 |
| True independent..... | 2,325,170 | 2,383,750 | 625,580 | 615,950 |
| Accommodations: | | | | |
| Hotel..... | 2,348,650 | 2,512,570 | 1,928,440 | 2,018,250 |
| Hotel only..... | 2,085,130 | 2,237,960 | 1,888,100 | 1,991,830 |
| Condo..... | 984,060 | 1,007,040 | 233,960 | 198,420 |
| Condo only..... | 765,970 | 824,970 | 209,660 | 183,960 |
| Friends, relatives | 447,140 | 457,800 | 97,980 | 97,300 |
| Cruise ship..... | 84,910 | 73,390 | 2,930 | 1,450 |
| Other accommodations..... | 57,920 | 66,060 | 25,640 | 19,750 |

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

Source: Hawaii Visitors Bureau, records.

**Table 7.11-- CHARACTERISTICS OF VISITOR PARTY HEADS,
BY DIRECTION OF TRAVEL: 1993**

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

| Subject | Total | Westbound | Eastbound and northbound |
|--------------------------------|-----------|-----------|--------------------------------|
| All visitor party heads..... | 3,380,100 | 2,023,940 | 1,356,160 |
| Occupation: | | | |
| Senior management, executive | 348,600 | 232,820 | 115,780 |
| Middle management | 325,590 | 206,830 | 118,760 |
| Sales, marketing | 311,700 | 192,840 | 118,860 |
| Clerical, administration | 291,290 | 98,030 | 193,260 |
| Professional..... | 573,610 | 427,720 | 145,890 |
| Technical, trade | 213,340 | 121,800 | 91,540 |
| Labor | 125,220 | 25,820 | 99,400 |
| Farming/Fishing..... | 17,060 | 11,610 | 5,450 |
| Homemaker..... | 150,060 | 53,540 | 96,520 |
| Military service | 39,870 | 23,670 | 16,200 |
| Military dependent | 5,360 | 2,890 | 2,470 |
| Student..... | 222,280 | 102,480 | 119,800 |
| Self-employed | 229,980 | 146,580 | 83,400 |
| Retired..... | 295,030 | 259,280 | 35,750 |
| Other non-employed | 47,790 | 18,960 | 28,830 |
| Other employed | 183,270 | 99,050 | 84,220 |
| Trips to Hawaii: | | | |
| First trip | 1,502,780 | 769,100 | 733,680 |
| Second trip | 655,150 | 374,430 | 280,720 |
| Third trip..... | 320,380 | 202,390 | 117,990 |
| Fourth trip and over | 901,790 | 678,020 | 223,770 |
| Persons in party: | | | |
| 1 person | 1,239,500 | 808,510 | 430,990 |
| 2 persons..... | 1,406,100 | 930,960 | 475,140 |
| 3 persons..... | 256,390 | 120,860 | 135,530 |
| 4 persons..... | 262,960 | 105,120 | 157,840 |
| 5 persons or more..... | 215,150 | 58,490 | 156,660 |

Source: Hawaii Visitors Bureau, records.

Table 7.12-- LENGTH OF STAY OF VISITORS STAYING OVERNIGHT OR LONGER, BY DIRECTION OF TRAVEL: 1993 AND 1994

| Length of stay | 1993 | | | 1994 | | |
|-------------------|-----------|------------|--------------------------|-----------|------------|--------------------------|
| | Total | West-bound | Eastbound and northbound | Total | West-bound | Eastbound and northbound |
| All visitors.... | 6,124,230 | 3,764,520 | 2,359,710 | 6,430,300 | 3,997,820 | 2,432,480 |
| 1 to 6 days..... | 2,752,590 | 998,930 | 1,753,660 | 2,747,350 | 959,480 | 1,787,870 |
| 7 to 12 days..... | 2,454,920 | 1,943,800 | 511,120 | 2,694,670 | 2,166,820 | 527,850 |
| 13 to 30 days.... | 810,990 | 734,030 | 76,960 | 880,870 | 783,570 | 97,300 |
| 31 to 365 days.. | 105,740 | 87,770 | 17,970 | 107,410 | 87,950 | 19,460 |
| Median (days)... | 6.95 | 7.94 | 5.37 | 7.04 | 8.01 | 5.44 |
| Mean (days) | 8.87 | 10.48 | 6.29 | 9.04 | 10.52 | 6.60 |

Source: Hawaii Visitors Bureau, records.

Table 7.13-- JAPANESE VISITOR ARRIVALS AND EXPENDITURES: 1989 TO 1994

| Subject | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|-------------------------------|-------|-------|-------|-------|-------|-------|
| Arrivals (1,000)..... | 1,319 | 1,440 | 1,385 | 1,637 | 1,592 | 1,756 |
| Average stay (days)..... | 6.0 | 5.9 | 5.9 | 5.7 | 6.1 | 6.1 |
| Expenditures (mil. dol.)..... | 2,514 | 2,500 | 2,797 | 3,237 | 3,026 | 3,657 |

Source: Hawaii Visitors Bureau, records.

Table 7.14-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1989 TO 1992

| Subject | 1989 | 1990 | 1991 | 1992 |
|--|--------|--------|--------|--------|
| Number of respondents in sample | 6,983 | 6,001 | 5,651 | 1,443 |
| Family income before taxes (percent). | 100.0 | 100.0 | 100.0 | 100.0 |
| Under \$15,000 | 1.5 | 0.9 | 0.7 | } 16 |
| \$15,000 to \$24,999 | 5.5 | 4.1 | 2.0 | |
| \$25,000 to \$34,999 | 11.6 | 9.9 | 6.2 | |
| \$35,000 to \$49,999 | 20.0 | 23.0 | 16.4 | } *65 |
| \$50,000 to \$74,999 | 29.3 | 27.9 | 27.6 | |
| \$75,000 and over | 32.1 | 34.2 | 47.1 | |
| Median income (dollars)..... | 59,700 | 56,100 | 72,300 | 64,500 |
| Mean income (dollars) | 63,600 | 72,800 | 84,700 | 77,800 |
| Education: college graduates (percent) | 64.6 | 59.5 | 61.0 | (1/) |
| Using travel agent (percent) | 80.7 | 79.8 | 74.0 | (NA) |
| Islands visited (percent): | | | | |
| Oahu | 67.1 | 64.0 | 63.6 | (NA) |
| Kauai | 36.8 | 39.9 | 38.7 | (NA) |
| Maui | 52.3 | 48.3 | 47.0 | (NA) |
| Hawaii | 26.0 | 30.1 | 32.3 | (NA) |
| Overall satisfaction: | | | | |
| Excellent..... | 57 | 54 | 60 | 56 |
| Above average | 34 | 35 | 32 | 34 |
| Average or below average | 9 | 11 | 8 | 10 |

* \$50,000 to \$99,999, 43 percent; \$100,000 to \$199,999, 17 percent; \$200,000 and over, 5 percent.

NA Not available.

1/ Associate degree, 7 percent; bachelor's or higher, 59 percent.

Source: Hawaii Visitors Bureau, *1990 Visitor Satisfaction Report* (1991), *1992 Westbound Visitor Satisfaction Report* (1993), and unpublished data.

Table 7.15-- MEETINGS AND CONVENTIONS: 1989 TO 1994

| Year | No. of meetings held | Estimated attendance | Estimated guest rooms | Estimated revenue (\$1,000) |
|-----------|----------------------|----------------------|-----------------------|-----------------------------|
| 1989..... | 754 | 259,399 | 121,533 | 343,965 |
| 1990..... | 743 | 201,534 | 100,717 | 295,952 |
| 1991..... | 548 | 177,036 | 86,597 | 220,410 |
| 1992..... | 389 | 169,980 | 84,990 | 223,810 |
| 1993..... | 372 | 135,938 | 62,790 | 169,453 |
| 1994..... | 344 | 133,356 | 61,590 | 166,234 |

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 7.16-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1993 AND 1994

| Island | Number of meetings held | | Estimated attendance | |
|-------------------|-------------------------|------|----------------------|---------|
| | 1993 | 1994 | 1993 | 1994 |
| State total | 372 | 344 | 135,938 | 133,356 |
| Hawaii: | | | | |
| Hilo..... | 1 | 2 | 130 | 335 |
| Kona..... | 62 | 63 | 19,854 | 20,772 |
| Maui | 153 | 144 | 37,389 | 39,114 |
| Lanai | 12 | 12 | 40 | 2,820 |
| Molokai | 0 | 0 | 0 | 0 |
| Oahu | 141 | 109 | 75,820 | 61,090 |
| Kauai | 14 | 14 | 2,705 | 9,225 |

Source: Hawaii Visitors Bureau, Meetings, Conventions & Incentives Department.

Table 7.17-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1994

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

| Year | Main-landers | Japanese | Year | Main-landers | Japanese |
|-------------------------|--------------|----------|-----------|--------------|----------|
| 1931-32 <u>1/</u> | 17.50 | (NA) | 1987..... | 102.49 | 324 |
| 1951..... | 28.00 | (NA) | 1988..... | 121.44 | 350 |
| 1960-61..... | 32.00 | (NA) | 1989..... | 126.57 | 322 |
| 1965-66 <u>1/</u> | 37.23 | (NA) | 1990..... | 136.30 | 294 |
| 1974..... | 46.20 | 123 | 1991..... | 140.54 | 344 |
| 1977..... | 54.62 | 147 | 1992..... | 117.14 | 345 |
| 1980..... | 71.24 | 185 | 1993..... | 116.15 | 307 |
| 1983..... | 85.88 | 227 | 1994..... | 133.79 | 341 |
| 1986..... | 95.40 | 299 | | | |

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; records.

Table 7.18-- AVERAGE EXPENDITURE PER VISITOR DAY IN CONSTANT DOLLARS, FOR VISITORS FROM THE MAINLAND: 1931 TO 1994

| Year | U.S. CPI (1982-84 = 100) | Average expend. per vis. day <u>1/</u> | Year | U.S. CPI (1982-84 = 100) | Average expend. per vis. day <u>1/</u> |
|-----------------------|--------------------------|--|-----------|--------------------------|--|
| 1931-32 <u>2/</u> ... | 14.4 | 122 | 1986..... | 109.6 | 87 |
| 1951..... | 26.0 | 108 | 1989..... | 124.0 | 102 |
| 1960-61..... | 29.8 | 107 | 1990..... | 130.7 | 104 |
| 1965-66 <u>2/</u> ... | 32.0 | 116 | 1991..... | 136.2 | 103 |
| 1974..... | 49.3 | 94 | 1992..... | 140.3 | 83 |
| 1977..... | 60.6 | 90 | 1993..... | 144.5 | 80 |
| 1980..... | 82.4 | 86 | 1994..... | 148.2 | 90 |
| 1983..... | 99.6 | 86 | | | |

1/ In constant (1982-84) dollars.

2/ Oahu only.

Source: Preceding table; U.S. Bureau of Labor Statistics, *CPI Detailed Report, January 1995*, pp.76-77.

Table 7.19-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM THE MAINLAND AND JAPAN, BY EXPENDITURE TYPE: 1993 AND 1994

[In dollars. Excludes transpacific travel costs]

| Expenditure type | Visitors from Mainland | | Visitors from Japan | |
|-------------------------------|------------------------|--------|---------------------|--------|
| | 1993 | 1994 | 1993 | 1994 |
| All items..... | 116.15 | 133.79 | 306.54 | 340.88 |
| Food and beverage..... | 26.96 | 30.96 | 44.92 | 43.78 |
| Restaurants..... | 18.08 | 21.74 | 24.25 | 23.92 |
| Dinner shows..... | 2.76 | 2.94 | 4.84 | 4.54 |
| Dinner or lunch cruise | 0.99 | 1.02 | 8.14 | 7.55 |
| Nightclubs, bars | 1.67 | 1.88 | 1.17 | 0.93 |
| Groceries | 3.46 | 3.38 | 6.52 | 6.84 |
| Entertainment | 6.82 | 6.59 | 18.52 | 13.13 |
| Attractions..... | 2.66 | 2.54 | 9.59 | 5.06 |
| Sports, recreation..... | 3.62 | 3.55 | 8.55 | 7.66 |
| Other entertainment | 0.54 | 0.50 | 0.38 | 0.41 |
| Transportation..... | 14.76 | 18.36 | 20.29 | 16.81 |
| Ground transportation..... | 0.57 | 0.69 | 1.97 | 1.65 |
| Rental vehicles..... | 6.67 | 8.74 | 2.04 | 2.56 |
| Interisland travel..... | 3.21 | 4.36 | 8.66 | 6.13 |
| Gasoline..... | 0.98 | 0.91 | 0.32 | 0.24 |
| Parking..... | 0.71 | 0.56 | 0.37 | 0.30 |
| Sightseeing tours..... | 2.62 | 3.10 | 6.93 | 5.92 |
| Clothing | 7.58 | 8.43 | 24.26 | 34.44 |
| Other fashion <u>1/</u> | 6.21 | 7.49 | 69.78 | 78.81 |
| Agriculture | 1.72 | 1.64 | 4.65 | 5.60 |
| Communication..... | 0.68 | 0.74 | 1.28 | 1.08 |
| Personal service | 1.22 | 1.44 | 1.57 | 3.11 |
| Lodging..... | 42.32 | 49.89 | 72.12 | 84.45 |
| Souvenirs | 3.98 | 3.83 | 19.63 | 19.30 |
| All other | 2.08 | 2.76 | 25.19 | 8.02 |
| Duty-free..... | 0.01 | - | - | 39.18 |
| Adjustment <u>2/</u> | 1.82 | 1.68 | 4.34 | 32.35 |

1/ Jewelry, cosmetics, leather goods, etc.

2/ Visitors estimate of amount excluded from listed categories and unaccounted expenditures.

Source: Hawaii Visitors Bureau, *1994 Annual Research Report* (1996), pp. 44-45.

Table 7.20-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS: 1993 AND 1994

[Dollars]

| Visitor or trip characteristics | Visitors from Mainland | | Visitors from Japan | |
|-----------------------------------|------------------------|---------|---------------------|---------|
| | 1993 | 1994 | 1993 | 1994 |
| All visitors | 116.15 | 133.79 | 306.54 | 340.88 |
| Islands: | | | | |
| Oahu | 106.90 | 120.52 | 309.27 | 342.27 |
| Neighbor Islands..... | 127.36 | 146.25 | 276.26 | 318.82 |
| Group tour status: | | | | |
| Organized group tour..... | 150.18 | 133.27 | 314.17 | 350.84 |
| Individually arranged | 114.70 | 132.27 | 288.59 | 277.06 |
| Arrived on package tour: | | | | |
| Yes | 125.58 | 128.84 | 317.60 | 350.26 |
| No | 111.75 | 135.56 | 254.23 | 219.35 |
| Accommodations: | | | | |
| Hotel only | 123.09 | 138.21 | 318.32 | 348.37 |
| Condo only | 98.41 | 106.85 | 256.79 | 218.08 |
| Guests of friends and relatives.. | 107.22 | *115.30 | (NA) | (NA) |
| Other | 121.36 | 112.90 | (NA) | (NA) |
| Length of stay: | | | | |
| 1 to 6 days..... | 120.14 | 150.17 | 336.79 | 371.05 |
| 7 to 12 days..... | 118.43 | 134.37 | 288.14 | 291.82 |
| 13 days or longer..... | 101.14 | 119.20 | 187.44 | *202.35 |
| Previous visits: | | | | |
| First trip | 127.83 | 131.78 | 337.86 | 385.02 |
| Repeat visitors..... | 111.23 | 132.56 | 273.69 | 306.17 |

Continued on next page.

Table 7.20-- EXPENDITURES PER VISITOR DAY BY VISITORS FROM MAINLAND AND JAPAN, BY VISITOR OR TRIP CHARACTERISTICS: 1993 AND 1994 - Con.

| Visitor or trip characteristics | Visitors from Mainland | | Visitors from Japan | |
|---|------------------------|---------|---------------------|---------|
| | 1993 | 1994 | 1993 | 1994 |
| Party size: | | | | |
| 1 person | 137.00 | 141.40 | 365.81 | 341.76 |
| 2 persons | 131.32 | 140.98 | 350.36 | 393.50 |
| 3 persons | 98.33 | 113.03 | 289.48 | 248.80 |
| 4 persons or more | 89.50 | 97.09 | 244.62 | 257.74 |
| Purpose of trip: | | | | |
| Pleasure | 116.35 | 132.26 | 293.60 | 336.65 |
| Business: Meetings, conventions, incentive | 181.40 | 157.33 | *553.88 | *483.40 |
| Other business | 121.59 | *177.62 | *291.03 | *476.13 |
| Time of year: | | | | |
| First quarter | 115.13 | 129.18 | 336.89 | 293.82 |
| Second quarter | 115.04 | 128.02 | 289.45 | 339.14 |
| Third quarter | 114.22 | 126.38 | 304.10 | 331.50 |
| Fourth quarter | 120.39 | 146.73 | 288.34 | 377.67 |
| Children in party: | | | | |
| Yes | 85.15 | 99.16 | 209.98 | 231.84 |
| No | 132.48 | 141.63 | 338.24 | 363.36 |
| On honeymoon: | | | | |
| Yes | 159.75 | 156.83 | *564.26 | 462.22 |
| No | 113.50 | 130.43 | 299.13 | 316.42 |

* Sample under 25; subject to considerable sampling variation.

NA Not available.

Source: Hawaii Visitors Bureau, *Visitor Expenditures, 1993 (1994)*, and records.

Table 7.21-- ESTIMATED VISITOR EXPENDITURES: 1951 TO 1994

[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. <u>1/</u> |
|-----------|-----------------------|-----------|-----------------------|-----------|-----------------------|---------------------------------------|
| 1951..... | 24 | 1967..... | 380 | 1983..... | 3,974 | ... |
| 1952..... | 33 | 1968..... | 440 | 1984..... | 4,582 | ... |
| 1953..... | 43 | 1969..... | 550 | 1985..... | 4,942 | 301.6 |
| 1954..... | 49 | 1970..... | 595 | 1986..... | 5,753 | 351.1 |
| 1955..... | 55 | 1971..... | 705 | 1987..... | 6,473 | 395.1 |
| 1956..... | 65 | 1972..... | 840 | 1988..... | 8,038 | 490.6 |
| 1957..... | 78 | 1973..... | 1,020 | 1989..... | 8,748 | 533.9 |
| 1958..... | 83 | 1974..... | 1,225 | 1990..... | 9,363 | 375.4 |
| 1959..... | 109 | 1975..... | 1,360 | 1991..... | 9,820 | 813.5 |
| 1960..... | 131 | 1976..... | 1,640 | 1992..... | 8,862 | 697.3 |
| 1961..... | 137 | 1977..... | 1,845 | 1993..... | 8,014 | 664.0 |
| 1962..... | 154 | 1978..... | 2,146 | 1994..... | 9,893 | 709.9 |
| 1963..... | 186 | 1979..... | 2,537 | | | |
| 1964..... | 205 | 1980..... | 2,875 | | | |
| 1965..... | 225 | 1981..... | 3,200 | | | |
| 1966..... | 280 | 1982..... | 3,700 | | | |

1/ By MCI (meetings, conventions, and incentive) visitors. For discussion, see Hawaii Visitors Bureau, *The 1990 Visitor Expenditure Report* (1991), pp. 35-40. Not available before 1985.

Source: Hawaii Visitors Bureau, *1986 Annual Research Report*, p. 1; *1994 Annual Research Report*, p.47; and records.

**Table 7.22-- VISITOR EXPENDITURES, BY COUNTRY OF RESIDENCE:
1985 TO 1994**

[In thousands of dollars]

| Year | Total expenditures | Personal (diary) expenditures | | | | Additional business (MCI) expenditures |
|-----------|--------------------|-------------------------------|---------------|-----------|-----------------|--|
| | | All countries | United States | Japan | Other countries | |
| 1985..... | 5,243,645 | 4,942,011 | 3,403,234 | 983,312 | 555,465 | 301,634 |
| 1986..... | 6,103,776 | 5,752,663 | 3,826,699 | 1,295,783 | 630,181 | 351,113 |
| 1987..... | 6,867,631 | 6,472,578 | 4,034,545 | 1,702,125 | 735,908 | 395,053 |
| 1988..... | 8,528,070 | 8,037,503 | 4,659,896 | 2,553,464 | 824,143 | 490,567 |
| 1989..... | 9,281,843 | 8,747,916 | 5,197,905 | 2,513,723 | 1,036,288 | 533,927 |
| 1990..... | 9,738,602 | 9,363,244 | 5,661,847 | 2,500,138 | 1,201,259 | 375,358 |
| 1991..... | 10,633,836 | 9,820,302 | 5,751,981 | 2,796,973 | 1,271,348 | 813,534 |
| 1992..... | 9,558,880 | 8,861,601 | 4,230,817 | 3,236,739 | 1,394,045 | 697,279 |
| 1993..... | 8,677,585 | 8,013,625 | 3,909,751 | 3,025,880 | 1,077,994 | 663,960 |
| 1994..... | 10,603,172 | 9,893,275 | 4,810,573 | 3,657,124 | 1,425,578 | 709,897 |

Source: Hawaii Visitors Bureau, "Revised Historical Visitor Expenditures Estimate," table, June 7, 1993; *Visitor Expenditures 1993* (1994), p. 59; *1994 Annual Research Report* (1996), p.47; and records.

Table 7.23-- VISITOR EXPENDITURES, BY DIRECTION OF TRAVEL AND ISLANDS: 1990 TO 1994

[In thousands of dollars]

| Direction of travel and island | 1990 <u>1/</u> | 1991 <u>1/</u> | 1992 | 1993 | 1994 |
|--------------------------------|----------------|----------------|-----------|-----------|------------|
| Total..... | 9,409,772 | 9,920,902 | 9,558,880 | 8,677,585 | 10,603,172 |
| Direction of travel: | | | | | |
| Westbound | 6,224,829 | 6,403,885 | 5,577,260 | 5,120,468 | 6,253,033 |
| Other | 3,184,943 | 3,517,017 | 3,981,620 | 3,557,117 | 4,350,139 |
| Island: | | | | | |
| Oahu | 5,441,149 | 5,353,171 | 5,525,217 | 4,870,071 | (NA) |
| Maui | 2,023,032 | 2,225,228 | 2,221,593 | 2,126,709 | (NA) |
| Kauai | 945,777 | 1,104,896 | 573,500 | 547,702 | (NA) |
| Hawaii | 925,664 | 1,090,603 | 1,102,131 | 1,012,636 | (NA) |
| Molokai | 58,985 | 89,838 | 78,917 | 68,227 | (NA) |
| Lanai | 15,165 | 57,166 | 57,522 | 52,240 | (NA) |

NA Not available.

1/ Unrevised estimates. The State totals were later revised (to \$9,738 millions for 1990 and \$10,634 millions for 1991) but estimates by islands were not corrected.

Source: Hawaii Visitors Bureau, *1990 Island Supplement* (1991), p. 37; *1991 Island Supplement* (1992); p. 20; *1992 Island Supplement* (1993), p. 21; *Visitor Expenditures 1993* (1994), p. 59; *1994 Annual Research Report* (1996), p. 43; and records.

**Table 7.24-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES:
1970 TO 1994**

[Revised. In millions of dollars]

| Year | Total | Visitors <u>1/</u> | Overseas airlines <u>2/</u> |
|-----------|----------|--------------------|-----------------------------|
| 1970..... | 698.9 | 595.0 | 103.9 |
| 1971..... | 819.3 | 705.0 | 114.3 |
| 1972..... | 963.9 | 840.0 | 123.9 |
| 1973..... | 1,163.4 | 1,020.0 | 143.4 |
| 1974..... | 1,382.6 | 1,225.0 | 157.6 |
| 1975..... | 1,522.7 | 1,360.0 | 162.7 |
| 1976..... | 1,818.0 | 1,640.0 | 178.0 |
| 1977..... | 2,026.7 | 1,845.0 | 181.7 |
| 1978..... | 2,357.5 | 2,146.0 | 211.5 |
| 1979..... | 2,792.4 | 2,537.0 | 255.4 |
| 1980..... | 3,174.7 | 2,875.0 | 299.7 |
| 1981..... | 3,499.6 | 3,200.0 | 299.6 |
| 1982..... | 3,975.2 | 3,700.0 | 275.2 |
| 1983..... | 4,197.3 | 3,974.0 | 223.3 |
| 1984..... | 4,792.3 | 4,582.0 | 210.3 |
| 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 |

1/ Includes airline and ship crews' expenditures. Estimated by the Hawaii Visitors Bureau.

2/ Includes payroll, fuel taxes, and landing fees.

Source: Hawaii State Department of Business, Economic Development and Tourism, unpublished study.

Table 7.25-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1994

| Year | Visitor-related expenditures <u>1/</u> (million dollars) | Total sales or output <u>2/</u> (million dollars) | Household income (million dollars) | State and county tax revenues (million dollars) | Jobs <u>2/</u> (1,000) |
|-----------|--|---|------------------------------------|---|------------------------|
| 1970..... | 698.9 | 1,262.4 | 449.6 | 64.3 | 74.9 |
| 1971..... | 819.3 | 1,477.2 | 527.9 | 75.5 | 85.6 |
| 1972..... | 963.9 | 1,733.3 | 621.8 | 87.3 | 94.4 |
| 1973..... | 1,163.4 | 2,089.3 | 751.8 | 104.1 | 104.0 |
| 1974..... | 1,382.6 | 2,475.7 | 893.9 | 121.7 | 110.7 |
| 1975..... | 1,522.7 | 2,687.0 | 972.5 | 142.5 | 110.8 |
| 1976..... | 1,818.0 | 3,137.4 | 1,138.4 | 177.1 | 118.4 |
| 1977..... | 2,026.7 | 3,526.2 | 1,282.4 | 202.5 | 123.2 |
| 1978..... | 2,357.5 | 4,116.7 | 1,499.8 | 231.7 | 128.6 |
| 1979..... | 2,792.4 | 4,741.3 | 1,730.6 | 265.4 | 135.8 |
| 1980..... | 3,174.7 | 5,330.8 | 1,948.9 | 295.2 | 139.8 |
| 1981..... | 3,499.6 | 5,808.1 | 2,126.7 | 339.5 | 143.1 |
| 1982..... | 3,975.2 | 6,722.8 | 2,465.9 | 388.3 | 155.3 |
| 1983..... | 4,197.3 | 7,104.4 | 2,611.2 | 394.9 | 155.6 |
| 1984..... | 4,792.3 | 8,071.9 | 2,970.7 | 458.0 | 168.5 |
| 1985..... | 5,436.6 | 9,032.4 | 3,324.5 | 517.2 | 182.9 |
| 1986..... | 6,296.1 | 10,157.4 | 3,743.3 | 582.4 | 200.1 |
| 1987..... | 7,128.9 | 12,642.4 | 4,246.7 | <u>3/</u> 703.5 | 211.0 |
| 1988..... | 8,813.8 | 15,630.4 | 5,267.7 | 877.3 | 221.4 |
| 1989..... | 9,613.4 | 17,048.4 | 5,745.6 | 963.3 | 235.4 |
| 1990..... | 10,109.2 | 17,927.7 | 6,041.9 | 1,011.6 | 246.1 |
| 1991..... | 11,039.5 | 19,577.5 | 6,597.9 | 1,137.3 | 254.2 |
| 1992..... | 10,020.1 | 17,769.7 | 5,988.6 | 1,040.6 | 255.8 |
| 1993..... | 9,125.1 | 16,182.5 | 5,453.7 | 950.1 | 248.0 |
| 1994..... | 11,035.7 | 19,570.7 | 6,595.6 | 1,193.4 | 245.4 |

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

2/ Direct, indirect, and induced.

3/ Partly reflects visitor accommodations tax enacted in 1986 and effective January 1, 1987.

Source: Hawaii State Department of Business, Economic Development and Tourism, unpublished study.

Table 7.26-- VISITOR INDUSTRY PRICES, PRICE DEFLATOR, AND PRICE INDEXES: 1980 TO 1995

| Year | Implicit price deflator <u>1/</u> (1982=100) | Average daily room rate <u>2/</u> (dollars) | 1-way air fares (dollars) | | Honolulu consumer price index <u>5/</u> (1982-84=100) | | |
|------------|--|---|----------------------------------|----------------------------|---|-----------------|-----------|
| | | | San Francisco-Honolulu <u>3/</u> | Honolulu-Kahului <u>4/</u> | Eating out | Apparel, upkeep | All items |
| 1980 | 88.9 | 47.28 | 211.08 | 41.00 | 81.0 | 89.8 | 83.0 |
| 1981 | 95.8 | 49.73 | 296.09 | 51.00 | 88.5 | 94.5 | 91.7 |
| 1982 | 100.0 | 51.78 | 328.10 | 48.00 | 95.5 | 98.4 | 97.2 |
| 1983 | 104.4 | 54.78 | 353.14 | 49.95 | 100.1 | 101.4 | 99.3 |
| 1984 | 108.9 | 59.25 | 353.14 | 49.95 | 104.5 | 100.2 | 103.5 |
| 1985 | 115.9 | 68.84 | 364.00 | 44.95 | 108.6 | 99.6 | 106.8 |
| 1986 | 120.8 | 73.20 | 364.00 | 46.95 | 111.4 | 99.8 | 109.4 |
| 1987 | 127.1 | 80.09 | 486.00 | 48.95 | 115.6 | 102.5 | 114.9 |
| 1988 | 135.4 | 87.94 | 494.00 | 48.95 | 121.0 | 106.8 | 121.7 |
| 1989 | 145.2 | 95.83 | 524.00 | 44.95 | 122.2 | 104.3 | 128.7 |
| 1990 | 155.9 | 102.10 | 560.00 | 54.95 | 128.0 | 107.0 | 138.1 |
| 1991 | 158.9 | 101.89 | 642.00 | 65.95 | 133.6 | 110.5 | 148.0 |
| 1992 | 161.2 | 105.59 | 400.00 | 69.95 | 137.8 | 114.2 | 155.1 |
| 1993 | 163.8 | 103.26 | 566.00 | 74.00 | 141.9 | 116.5 | 160.1 |
| 1994 | 165.5 | 105.46 | 566.00 | 74.00 | 146.4 | 118.7 | 164.5 |
| 1995 | (NA) | 110.27 | 596.00 | 74.00 | 149.2 | 117.5 | 168.1 |

NA Not available.

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

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

3/ Unrestricted Coach or Economy weekday fare, including taxes as of July 1, by United Airlines. From chronology in *Data Book, 1980-1995*.

4/ Regular fare, including taxes, as of July 1, by Hawaiian Airlines. From chronology in *Data Book, 1984-1995*.

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

Source: See above footnotes.

**Table 7.27-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES:
1989 TO 1994**

[In dollars. Years ended June 30]

| Year | Income | | | | Expenditures |
|-----------|------------|-------------------------------------|--------------------------|-----------------|--------------|
| | Total | State appro- priations <u>1/</u> | Private subscriptions | Other <u>2/</u> | |
| 1989..... | 14,898,387 | 13,042,708 | 1,475,965 | 379,714 | 14,103,399 |
| 1990..... | 17,666,926 | 15,888,527 | 1,566,861 | 211,538 | 18,534,888 |
| 1991..... | 23,314,843 | 21,187,561 | 1,891,791 | 235,491 | 23,111,254 |
| 1992..... | 18,397,713 | 16,381,210 | 1,848,301 | 168,202 | 18,369,166 |
| 1993..... | 18,236,219 | 16,231,593 | 1,896,613 | 108,013 | 18,115,618 |
| 1994..... | 24,795,443 | 22,638,211 | 2,056,916 | 100,316 | 24,848,553 |

1/ Net after refunds (if any) to the State.

2/ May include income from Federal grants, mainland promotional programs, literature sales, convention servicing, and interest.

Source: KPMG Peat Marwick, *Hawaii Visitors Bureau, Financial Statements and Schedules* (annual).

**Table 7.28-- RETURNING RESIDENTS AND AVERAGE NUMBER ABSENT,
BY DIRECTION OF TRAVEL: 1989 TO 1995**

| Year | Number returning | | | Average number absent | | |
|----------------------|------------------|-----------|--------|-----------------------|-----------|-------|
| | Total | Westbound | Other | Total | Westbound | Other |
| 1989..... | 478,560 | 394,080 | 84,480 | 18,735 | 13,712 | 5,023 |
| 1990..... | 444,200 | 378,640 | 65,560 | 17,970 | 14,400 | 3,570 |
| 1991..... | 387,560 | 311,760 | 75,800 | 16,590 | 12,520 | 4,070 |
| 1992..... | 706,400 | 642,440 | 63,960 | 37,080 | 32,960 | 4,120 |
| 1993..... | 779,350 | 716,100 | 63,250 | 49,117 | 44,890 | 4,227 |
| 1994..... | 792,450 | 738,540 | 53,910 | 50,190 | 46,150 | 4,040 |
| 1995 <u>1/</u> | 803,770 | 764,190 | 39,580 | (NA) | (NA) | (NA) |

NA Not available.

1/ Preliminary.

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

**Table 7.29-- CHARACTERISTICS OF HAWAII RESIDENTS RETURNING
FROM OUT-OF-STATE TRIPS, BY DIRECTION OF TRAVEL: 1992**

| Subject | Total | Westbound | Eastbound and northbound |
|--|---------|-----------|--------------------------------|
| All returning residents | 706,400 | 642,440 | 63,960 |
| Purpose of trip: | | | |
| Pleasure | (NA) | 302,000 | (NA) |
| Meetings, conventions, incentive | (NA) | 73,350 | (NA) |
| Other business..... | (NA) | 52,580 | (NA) |
| Visit friends or relatives | (NA) | 171,150 | (NA) |
| Government or military | (NA) | 42,740 | (NA) |
| Attend school..... | (NA) | 17,230 | (NA) |
| Age: | | | |
| Under 10 years | (NA) | 49,270 | (NA) |
| 10 to 19 years..... | (NA) | 46,890 | (NA) |
| 20 to 29 years..... | (NA) | 110,340 | (NA) |
| 30 to 39 years..... | (NA) | 133,830 | (NA) |
| 40 to 49 years..... | (NA) | 132,190 | (NA) |
| 50 to 59 years..... | (NA) | 78,110 | (NA) |
| 60 years and over..... | (NA) | 91,810 | (NA) |
| Median (years)..... | (NA) | 38.6 | (NA) |
| Sex: | | | |
| Males..... | 364,500 | 325,530 | 38,970 |
| Females | 341,900 | 316,910 | 24,990 |
| Males per 100 females..... | 106.6 | 102.7 | 155.9 |
| Persons per party | 1.56 | 1.59 | 1.25 |
| Days absent: | | | |
| Median | 10.5 | 10.1 | 15.0 |
| Mean | 19.2 | 18.8 | 23.6 |
| Average number absent | 37,080 | 32,960 | 4,120 |

NA Not available.

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

Table 7.30-- PASSPORTS ISSUED BY THE HONOLULU PASSPORT AGENCY: 1991 TO 1994

[Calendar year data. The area served by the Honolulu Passport Agency includes Hawaii, American Samoa, Guam, the Northern Mariana Islands, Palau, the Federated States of Micronesia, and the Republic of the Marshall Islands]

| Mailing address | 1991 | 1992 | 1993 | 1994 |
|----------------------------------|--------|--------|--------|--------|
| Issued by Honolulu Office ... | 47,416 | 43,709 | 55,696 | 58,527 |
| Mailed to Hawaii addresses | 31,561 | 30,975 | 38,870 | 40,047 |
| Mailed outside the State | 15,855 | 12,734 | 16,826 | 18,480 |

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

Table 7.31-- PERFORMING ARTS, FOR OAHU: 1993-1994 SEASON

| Name of organization and type of performance | Productions | Performances | Attendance |
|--|-------------|--------------|------------|
| All reporting groups | 155 | 1,173 | 701,111 |
| Brigham Young University - Hawaii Campus | 6 | 18 | 5,900 |
| Chaminade University of Honolulu ^{1/} | - | - | - |
| Diamond Head Theatre | 13 | 155 | 53,591 |
| Hawaii Pacific University (Hawaii Loa Campus)..... | 2 | 22 | 1,538 |
| Honolulu Department of Auditoriums, total | 43 | 187 | 387,646 |
| Ballets | 9 | 21 | 29,460 |
| Concerts | 19 | 24 | 71,515 |
| Operas..... | 3 | 12 | 20,261 |
| Rock shows | 8 | 10 | 50,926 |
| Other dramatic and musical productions | 4 | 120 | 215,484 |
| Honolulu Theatre for Youth..... | 9 | 398 | 135,700 |
| Leeward Community College..... | 53 | 118 | 49,852 |
| Manoa Valley Theatre | 6 | 109 | 14,444 |
| U.S. Army Community Theatre..... | 4 | 36 | 22,025 |
| University of Hawaii at Manoa | 19 | 130 | 30,415 |

^{1/} During the 1992-1993 season, Chaminade presented one production and three performances, attended by 420 persons. No performances were given at Charminade during the 1993-1994 season.

Source: DBEDT mail and telephone survey.

**Table 7.32-- SYMPHONY ORCHESTRA ACTIVITIES: 1984-1985 TO
1994-1995**

| Season | Average number of orchestra personnel | Number of performances | Total attendance | Operating expenses (dollars) |
|--|--|---------------------------|---------------------|------------------------------------|
| HONOLULU SYMPHONY ORCHESTRA | | | | |
| 1984-1985 | 80 | 120 | 167,500 | 2,966,700 |
| 1985-1986 | 80 | 137 | 208,370 | 3,053,257 |
| 1986-1987 <u>1/</u> | 80 | 85 | 139,703 | 2,394,804 |
| 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 <u>2/</u> | - | - | - | 1,380,547 |
| HAWAII SYMPHONY ORCHESTRA | | | | |
| 1994-1995 <u>3/</u> | 62 | 115 | 120,000 | 4,700,000 |

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.

Source: Honolulu Symphony Society, records; Hawaii Symphony Orchestra, records.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRactions: 1992 TO 1994**

[Calendar year data unless otherwise specified]

| Island and cultural attraction | 1992 | 1993 | 1994 |
|---|------------------|------------------|------------------|
| OAHU | | | |
| Bernice P. Bishop Museum <u>1/</u> | 509,627 | 541,771 | 517,947 |
| Byodo-In Temple | 113,321 | 116,985 | 119,638 |
| The Contemporary Museum | 41,050 | 45,363 | 34,165 |
| Damien Museum and Archives | 13,221 | 12,000 | 13,096 |
| Diamond Head State Monument <u>1/</u> | 75,000 | 60,000 | 66,000 |
| Dole Cannery Square | 562,000 | 485,000 | (NA) |
| Foster Botanical Garden | 69,226 | 65,000 | 66,500 |
| Fred Ohrt Water Museum <u>1/</u> | 5,666 | 7,043 | 6,673 |
| Halawa Shaft <u>1/</u> | 6,538 | 6,097 | 9,032 |
| Halawa Xeriscape Garden <u>1/</u> | 8,053 | 10,563 | 13,425 |
| Harold L. Lyon Arboretum | 28,450 | 29,000 | 29,000 |
| Hawaii Children's Museum <u>2/</u> | 55,352 | 50,000 | 16,362 |
| Hawaii Maritime Center | 74,487 | 79,824 | 74,106 |
| Hawaii Nature Center | 49,521 | <u>1/</u> 48,000 | <u>1/</u> 39,000 |
| Honolulu Academy of Arts <u>3/</u> | 259,278 | 235,260 | 260,162 |
| The Honolulu Advertiser Gallery | 29,000 | 29,300 | 28,000 |
| Honolulu Zoo | 704,424 | 742,000 | 755,860 |
| Ho'omaluhia Botanical Garden | 63,300 | 70,000 | 73,934 |
| Iolani Palace State Monument <u>1/</u> | 72,000 | 71,000 | 74,000 |
| Judiciary History Center | 24,271 | 32,395 | 36,541 |
| Mission Houses Museum | 30,536 | 30,090 | 28,364 |
| Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center) | 159,180 | 137,479 | 144,667 |
| National Memorial Cemetery of the Pacific <u>4/</u> | (NA) | (NA) | (NA) |
| Pacific Aerospace Museum | 46,535 | 51,154 | 52,238 |
| Paradise Park <u>5/</u> | 109,452 | 180,319 | - |
| Polynesian Cultural Center | 838,000 | 871,645 | 942,459 |
| Puu o Mahuka Heiau State Monument <u>1/</u> | 4,000 | 2,000 | 2,000 |
| Queen Emma Summer Palace | <u>6/</u> 15,155 | 29,790 | 27,836 |
| Royal Mausoleum State Monument <u>1/</u> | 70,000 | 91,000 | 115,000 |
| Sea Life Park Hawaii | 638,973 | 635,880 | 596,675 |
| Senator Fong's Plantation and Gardens | 95,450 | 92,524 | 99,518 |
| Tropic Lightning Museum | 13,848 | 8,531 | 9,208 |
| Ulu Po Heiau State Monument <u>1/</u> | 3,000 | 3,000 | 2,000 |
| U.S. Army Museum, Ft. DeRussy | 125,576 | 115,540 | 88,816 |
| U.S.S. Arizona Memorial | 1,635,591 | (NA) | 1,534,649 |
| Visiting either Memorial or Visitor Center | 1,546,827 | 1,460,149 | 1,462,391 |
| Aboard non-landing tour boats | 88,764 | (NA) | 72,258 |
| U.S.S. Bowfin Submarine Museum | 205,525 | 185,380 | 174,503 |
| University of Hawaii Art Gallery | 50,000 | 55,000 | 50,000 |

Continued on next page.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1992 TO 1994 - Con.**

| Island and cultural attraction | 1992 | 1993 | 1994 |
|---|------------------|-----------|-----------|
| OAHU - con. | | | |
| Wahiawa Botanical Garden | 22,501 | 30,000 | 31,599 |
| Waikiki Aquarium <u>7/</u> | 317,962 | 123,791 | 120,885 |
| Waimea Falls Park | 458,131 | 470,215 | 433,497 |
| Waipahu Cultural Garden Park | 34,150 | 17,270 | 92,000 |
| HAWAII | | | |
| Astronaut Ellison S. Onizuka Space Center | (NA) | (NA) | 20,775 |
| Hawaii Tropical Botanical Garden | 53,500 | 56,646 | 56,038 |
| Greenwell Store Museum | 5,000 | 5,000 | 6,000 |
| Hulihee Palace | <u>6/</u> 24,669 | 26,064 | 22,927 |
| Jagger Museum <u>8/</u> | 2,493,364 | 2,494,908 | 2,498,785 |
| Kealahou Bay State Historical Park <u>1/</u> | 191,000 | 221,000 | 218,000 |
| Kilauea Visitor Center <u>8/</u> | 2,493,364 | 2,494,908 | 2,498,785 |
| Lapakahi State Historical Park <u>1/</u> | 108,000 | 155,000 | 336,000 |
| Lava Tree State Monument <u>1/</u> | 166,000 | 143,000 | 143,000 |
| Lyman House Memorial Museum | 19,007 | 19,463 | 16,076 |
| Panaewa Rainforest Zoo | 84,234 | 80,390 | 71,606 |
| Parker Ranch Historic Homes | 13,023 | 15,255 | 16,117 |
| Parker Ranch Visitor Center | 17,725 | 17,226 | 17,121 |
| Volcano Art Center | 72,500 | 100,100 | 90,000 |
| Wailoa Center <u>1/</u> | 22,000 | 23,000 | 21,000 |
| MAUI | | | |
| Alexander & Baldwin Sugar Museum | 29,679 | 30,879 | 30,830 |
| Halekii -Pihana Heiaus State Monument <u>1/</u> | 7,000 | 8,000 | 7,000 |
| Hana Cultural Center | 8,191 | 9,640 | 11,100 |
| Hawaii Nature Center | 8,022 | (NA) | 10,000 |
| Iao Valley State Monument <u>1/</u> | 589,000 | 573,000 | 449,000 |
| Kula Botanical Gardens | 19,790 | 19,940 | 22,500 |
| Lahaina Restoration Foundation | 179,196 | 201,120 | 225,570 |
| Baldwin Missionary Home Museum | 43,540 | 50,420 | 57,020 |
| Brig <i>Carthaginian</i> | 45,256 | 59,800 | 72,400 |
| Hale Pa'ahao (Old Lahaina Prison) | 31,000 | 32,000 | 33,500 |
| Hale Pa'i Printing House | 5,100 | 4,900 | 5,050 |
| Wo Hing Temple Museum | 54,300 | 54,000 | 57,600 |
| Maui Historical Society Bailey House Museum | (NA) | (NA) | 10,594 |
| Maui Tropical Plantation | 369,887 | 373,600 | 322,786 |
| Maui Zoological & Botanical Gardens | 46,000 | 56,000 | 62,000 |
| Whale Center of the Pacific | 233,581 | 409,086 | 400,000 |

Continued on next page.

**Table 7.33-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL
ATTRACTIONS: 1992 TO 1994 - Con.**

| Island and cultural attraction | 1992 | 1993 | 1994 |
|--|---------|---------|---------|
| KAUAI | | | |
| Grove Farm Homestead <u>9/</u> | 2,959 | - | 2,709 |
| Ho'opulupula Haraguchi Rice Mill <u>10/</u> | 1,252 | - | - |
| Kauai Museum | 29,665 | 15,696 | 27,255 |
| Kilauea National Wildlife Refuge <u>11/</u> | 248,616 | - | 80,000 |
| Kokee Natural History Museum <u>12/</u> | 68,582 | 86,950 | 105,813 |
| National Tropical Botanical Garden | 30,420 | (NA) | - |
| Russian Fort Elizabeth State Historical Park <u>13/</u> | 310,000 | 155,000 | 75,000 |
| Waioli Mission House <u>14/</u> | 1,595 | 150 | 1,112 |
| MOLOKAI | | | |
| Kalaupapa Settlement | 8,982 | 6,486 | 4,047 |
| Molokai Ranch Wildlife Conservation Park | 3,894 | 2,155 | 1,903 |
| Molokai Museum & Cultural Center (R. W. Meyer Sugar Mill) | 2,646 | 3,905 | 4,060 |

NA Not available.

1/ Years ended June 30.

2/ Closed May 1994.

3/ Includes Academy Theater (43,244 in 1992, 46,838 in 1993, and 52,014 in 1994).

4/ No longer available from Cemetery officials after 1991, when 5,522,948 visits were reported. An independent estimate based on survey information compiled by the Hawaii Visitors Bureau indicates that 1,543,000 non-residents of Hawaii visited the Cemetery in 1991.

5/ Closed January 1, 1994.

6/ Year ended September 30.

7/ Years ended June 30. Closed for major renovation, October 19, 1992 to May 1, 1994.

8/ Kilauea Visitor Center and Jagger Museum data refer to total attendance at Hawaii Volcanoes National Park.

9/ Closed September 11, 1992 to January 1994.

10/ Closed September 11, 1992 to early 1996.

11/ Closed September 11, 1992 to May 12, 1994.

12/ Closed September 11 - November 2, 1992.

13/ Years ended June 30. Attendance estimates reflect heavy use of restrooms by tour bus passengers.

14/ Closed September 11, 1992 to September 1993.

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

Table 7.34-- NATIONAL PARKS: 1985 TO 1995

| Year and area | Acreage, Dec. 31 ^{1/} | | | Visits |
|--|--------------------------------|---------|-------------|-----------|
| | Total | Federal | Non-federal | |
| 1985..... | 247,349 | 235,243 | 12,106 | 4,029,929 |
| 1986..... | 247,349 | 235,565 | 11,784 | 4,736,281 |
| 1987..... | 247,349 | 235,565 | 11,784 | 5,225,641 |
| 1988..... | 247,349 | 235,624 | 11,725 | 5,198,428 |
| 1989..... | 247,349 | 235,624 | 11,725 | 5,558,227 |
| 1990..... | 247,349 | 235,885 | 11,464 | 5,607,148 |
| 1991..... | 247,349 | 235,885 | 11,464 | 5,853,497 |
| 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 |
| AREAS: 1994 | | | | |
| Hawaii Volcanoes National Park..... | 207,643 | 207,643 | - | 2,476,710 |
| Haleakala National Park..... | 27,350 | 27,350 | - | 1,623,684 |
| Pu'uuhonua o Honaunau National Historical Park..... | 181 | 181 | - | 436,654 |
| Kaloko-Honokohau National Historical Park..... | 1,161 | 616 | 545 | 49,634 |
| Pu'ukohola Heiau National Historic Site..... | 100 | 60 | 40 | 236,051 |
| U.S.S. Arizona Memorial ^{2/} | 12 | 12 | - | 1,391,191 |
| Kalaupapa National Historical Park.. | 10,902 | 23 | 10,879 | (NA) |

NA Not available.

^{1/} Data exclude the Oloa Forest Tract. This 9,654-acre tract is entirely in Federal ownership, is managed by the National Park Service, and has been designated as part of the wilderness system by the Congress, but it is not within the legally authorized boundary of Hawaii Volcanoes National Park.

^{2/} The U.S.S. Arizona Memorial is wholly within the Pearl Harbor Naval Base. The acreage figure is the approximate extent of the total area over which the National Park Service has been granted use rights by the U.S. Navy.

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

Table 7.35-- STATE PARKS AND HISTORIC SITES: 1984 TO 1994

| Year and island | Number of areas, June 30 | Acreage, June 30 | | Recreation visits, year ended June 30 (1,000) |
|-----------------------------|--------------------------|------------------|-----------|---|
| | | Total | Developed | |
| 1984 | 74 | 24,751 | 979.1 | 19,406 |
| 1985 | 74 | 24,799 | 882.1 | 19,908 |
| 1986 | 74 | 24,865 | 882.1 | 19,680 |
| 1987 | 76 | 24,909 | 883.6 | 20,068 |
| 1988 | 76 | 24,853 | 884.9 | 18,488 |
| 1989 | 77 | 24,877 | 887.6 | 17,270 |
| 1990 | 77 | 24,857 | 887.3 | 19,727 |
| 1991 | 77 | 24,896 | 897.3 | 19,023 |
| 1992 | 80 | 25,056 | 921.7 | 19,255 |
| 1993 ^{1/} | 70 | 24,779 | 772.7 | 15,112 |
| 1994 | 69 | 24,790 | 772.2 | 14,260 |
| ISLANDS: 1993 ^{1/} | | | | |
| Hawaii | 18 | 1,373.5 | 275.2 | 7,160 |
| Maui | 9 | 330.8 | 37.9 | 2,284 |
| Molokai | 1 | 233.7 | 10.0 | 34 |
| Oahu | 31 | 9,090.8 | 318.5 | 2,094 |
| Kauai | 11 | 13,750.3 | 131.1 | 3,540 |
| ISLANDS: 1994 | | | | |
| Hawaii | 18 | 1,375.3 | 275.2 | 7,271 |
| Maui | 9 | 330.8 | 37.9 | 1,931 |
| Molokai | 1 | 233.7 | 10.0 | 36 |
| Oahu | 31 | 9,090.8 | 318.5 | 2,103 |
| Kauai | 10 | 13,759.8 | 130.6 | 2,919 |

^{1/} Declines since 1992 reflect transfer of 9 areas to the counties, and also closure of all Kauai state parks from Sept. 11, 1992 to March 20, 1993 because of damage caused by Hurricane Iniki.

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

Table 7.36-- MAJOR STATE PARKS: 1993 AND 1994

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

| Park | Acreage, June 30 | | Recreation visits, year ended June 30 (1,000) |
|--|------------------|-----------|---|
| | Total | Developed | |
| 1993 ^{1/} | | | |
| Old Kona Airport State Rec. Area | 103.7 | 20.4 | 1,418 |
| Hapuna Beach State Rec. Area | 61.8 | 21.5 | 1,362 |
| Wailua River State Park | 1,087.1 | 37.4 | 1,349 |
| Wailuku River State Park | 16.3 | 3.5 | 1,119 |
| Akaka Falls State Park | 65.4 | 6.0 | 890 |
| Haena State Park | 65.7 | 2.0 | 750 |
| Waimea Canyon State Park | 1,866.4 | 10.0 | 483 |
| Kokee State Park | 4,345.0 | 55.0 | 421 |
| Kahana Valley State Park | 5,256.5 | 26.0 | 84 |
| Sacred Falls State Park | 1,373.9 | 10.0 | 55 |
| Na Pali Coast State Park | 6,175.0 | 4.0 | 47 |
| 1994 | | | |
| Hapuna Beach State Recreation Area | 63.6 | 21.5 | 1,399 |
| Old Kona Airport State Recreation Area ... | 103.7 | 20.4 | 1,397 |
| Wailua River State Park | 1,096.6 | 37.4 | 1,144 |
| Wailuku River State Park | 16.3 | 3.5 | 1,077 |
| Akaka Falls State Park | 65.4 | 6.0 | 832 |
| Wailoa River State Recreation Area | 131.9 | 97.7 | 736 |
| Waimea Canyon State Park | 1,866.4 | 10.0 | 345 |
| Kokee State Park | 4,345.0 | 55.0 | 304 |
| Kahana Valley State Park | 5,256.5 | 26.0 | 88 |
| Na Pali Coast State Park | 6,175.0 | 4.0 | 80 |
| Sacred Falls State Park | 1,373.9 | 10.0 | 56 |

^{1/} Declines since 1992 reflect transfer of 9 areas to the counties, and also closure of all Kauai state parks from Sept. 11, 1992 to March 20, 1993 because of damage caused by Hurricane Iniki.

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

Table 7.37-- ZOOS: 1992 TO 1994

| Subject and zoo | 1992 | 1993 | 1994 |
|---|---------|---------|---------|
| Species: <u>1/</u> | | | |
| Honolulu Zoo..... | 265 | 264 | 276 |
| Maui Zoological & Botanical Gardens..... | 23 | 30 | 32 |
| Molokai Ranch Wildlife Conservation Park..... | 11 | 11 | 9 |
| Panaewa Rainforest Zoo (Hilo)..... | 57 | 52 | 54 |
| Individuals: <u>1/</u> | | | |
| Honolulu Zoo..... | 1,171 | 1,252 | 1,369 |
| Maui Zoological & Botanical Gardens..... | 88 | 109 | 114 |
| Molokai Ranch Wildlife Conservation Park..... | 632 | 680 | 682 |
| Panaewa Rainforest Zoo (Hilo)..... | 169 | 144 | 156 |
| Attendance: | | | |
| Honolulu Zoo..... | 704,424 | 742,000 | 755,860 |
| Maui Zoological & Botanical Gardens..... | 46,000 | 56,000 | 62,000 |
| Molokai Ranch Wildlife Conservation Park <u>2/</u> .. | 3,894 | 2,155 | 1,903 |
| Panaewa Rainforest Zoo (Hilo)..... | 84,234 | 80,390 | 71,606 |

1/ Animal and bird inventory, December 31.

2/ Closed at end of August for renovation.

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

Table 7.38-- AQUATIC COLLECTIONS: 1994

[For annual attendance, 1991-1994, see table 7.34]

| Phylum or class | Sea Life Park, Dec. 31 | | Waikiki Aquarium, June 30 | |
|---------------------|------------------------|--------------|---------------------------|-------------|
| | Species | Individuals | Species | Individuals |
| Total | 252 | 7,112 | 315 | (NA) |
| Fishes | 5 | 3,000 | 194 | 688 |
| Reptiles | 3 | 27 | 1 | 1 |
| Mammals | <u>1/</u> 7 | <u>1/</u> 68 | 1 | 3 |
| Invertebrates | 95 | 4,000 | 119 | (NA) |
| Birds | 2 | 17 | - | - |

NA Not available.

1/ Plus 2 hybrid dolphin/whales.

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

**Table 7.39-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS:
DECEMBER 31, 1994**

| Island | Total sites <u>1/</u> | Listed Hawaii Register only | Listed National Register only | Listed both Hawaii and National Register | Eligible for Nat'l Register <u>1/</u> |
|-----------------|-----------------------|-----------------------------|-------------------------------|--|---------------------------------------|
| State total .. | 580 | 232 | 109 | 206 | 35 |
| Hawaii | 116 | 52 | 23 | 36 | 5 |
| Maui | 58 | 36 | 4 | 17 | 1 |
| Kahoolawe | 1 | - | 1 | - | - |
| Lanai | 2 | - | - | 2 | - |
| Molokai | 92 | 41 | 10 | 40 | 2 |
| Oahu | 232 | 67 | 67 | 77 | 22 |
| Kauai | 79 | 36 | 4 | 34 | 5 |

1/ Sites declared eligible for National Register listing by the National Board.

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

Table 7.40-- COUNTY PARKS, BY ISLANDS: 1989 TO 1994

[As of December 31]

| Subject | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|----------------------|-------|-------|-------|-------|-------|-------|
| Number, total | 575 | 582 | 586 | 587 | 605 | 624 |
| Hawaii | 142 | 142 | 142 | 141 | 142 | 143 |
| Maui | 86 | 90 | 92 | 92 | 100 | 118 |
| Lanai | 4 | 4 | 4 | 4 | 4 | 4 |
| Molokai | 13 | 13 | 13 | 13 | 13 | 13 |
| Oahu | 271 | 274 | 275 | 277 | 286 | 286 |
| Kauai | 59 | 59 | 60 | 60 | 60 | 60 |
| Acreage, total | 8,506 | 8,593 | 8,778 | 9,039 | 9,212 | 9,220 |
| Hawaii | 1,430 | 1,430 | 1,430 | 1,427 | 1,430 | 1,453 |
| Maui | 928 | 942 | 1,028 | 1,028 | 1,105 | 1,122 |
| Lanai | 15 | 15 | 15 | 15 | 15 | 15 |
| Molokai | 73 | 73 | 73 | 73 | 73 | 73 |
| Oahu | 5,524 | 5,599 | 5,696 | 5,960 | 6,053 | 6,021 |
| Kauai | 536 | 534 | 536 | 536 | 536 | 536 |

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

Table 7.41-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1994

| Beach park | Estimated attendance <u>1/</u> | Activity (percent) | | | Rescues | Drownings | Surfing accidents |
|-----------------|--------------------------------|--------------------|------|------|---------|-----------|-------------------|
| | | Sun | Swim | Surf | | | |
| All parks..... | 16,843,727 | 71 | 20 | 9 | 1,040 | 5 | 233 |
| Ala Moana | 1,453,605 | 59 | 33 | 8 | 77 | - | 11 |
| Waikiki | 7,075,251 | 75 | 16 | 8 | 97 | 1 | 47 |
| Hanauma | 1,933,915 | 75 | 25 | 0 | 231 | 1 | 1 |
| Sandy..... | 531,967 | 57 | 11 | 32 | 237 | - | 57 |
| Makapuu | 266,966 | 53 | 18 | 29 | 112 | 1 | 14 |
| Bellows..... | 140,855 | 63 | 20 | 17 | 19 | - | 2 |
| Kailua..... | 778,216 | 81 | 15 | 4 | 5 | - | 1 |
| Kualoa..... | 155,484 | 85 | 14 | 1 | 2 | - | - |
| Waimanalo..... | 254,922 | 55 | 22 | 23 | 7 | 1 | 2 |
| Sunset..... | 480,202 | 72 | 16 | 13 | 16 | - | 6 |
| Ehukai..... | 290,799 | 61 | 10 | 30 | 34 | - | 27 |
| Ke Waena | 169,635 | 61 | 11 | 28 | 11 | - | 4 |
| Waimea | 642,332 | 81 | 18 | 1 | 80 | 1 | 19 |
| Alii..... | 252,708 | 69 | 18 | 13 | 21 | - | 5 |
| Nanakuli..... | 597,968 | 70 | 27 | 3 | 38 | - | 7 |
| Maili | 408,308 | 65 | 26 | 9 | 19 | - | 6 |
| Pokai Bay..... | 632,286 | 66 | 32 | 2 | 8 | - | 1 |
| Makaha | 473,371 | 60 | 24 | 15 | 16 | - | 13 |
| Keauwaula | 304,937 | 52 | 16 | 6 | 10 | - | 10 |

1/ Based on headcounts taken at approximately two-hour intervals by Water Safety Officers over an 8-hour work day.

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

Table 7.42-- SWIMMING AND SURFING SITES, BY ISLANDS

| Subject | Six islands | Hawaii | Maui | Lanai | Molokai | Oahu | Kauai |
|--|-------------|--------|------|-------|---------|------|-------|
| Miles of sandy shoreline <u>1/</u> | 184.9 | 19.4 | 32.6 | 18.2 | 23.2 | 50.3 | 41.2 |
| Primary <u>2/</u> ... | 24.4 | 1.2 | 7.9 | - | - | 12.5 | 2.8 |
| Other | 160.5 | 18.2 | 24.7 | 18.2 | 23.2 | 37.8 | 38.4 |
| Number of surfing sites <u>3/</u> | 1,600 | 185 | 212 | 99 | 180 | 594 | 330 |

1/ Surveyed in 1962.

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 7.43-- COUNTY TENNIS FACILITIES: 1993 AND 1994

[As of December 31]

| Subject | State total | Hawaii | Maui | Lanai | Molokai | Oahu | Kauai |
|------------|-------------|--------|------|-------|---------|---------------|-------|
| Locations: | | | | | | | |
| 1993 | 88 | 20 | 11 | 1 | 1 | 46 | 9 |
| 1994 | 89 | 20 | 11 | 1 | 1 | 47 | 9 |
| Courts: | | | | | | | |
| 1993 | 284 | 44 | 35 | 2 | 2 | 179 | 22 |
| 1994 | 290 | 44 | 39 | 2 | 2 | <u>1/</u> 181 | 22 |

1/ 122 lighted.

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

Table 7.44-- GOLF COURSES, BY NUMBER OF HOLES, OWNERSHIP, AND ISLANDS: MARCH 1995

| Status, island, and ownership | Number of golf courses | | | | | | Number of holes |
|-------------------------------|------------------------|--------|---------|---------|---------|---------|-----------------|
| | Total | 9-hole | 18-hole | 27-hole | 36-hole | 54-hole | |
| State total | 72 | 11 | 53 | 1 | 5 | 2 | 1,368 |
| Hawaii | 16 | 2 | 12 | - | 2 | - | 306 |
| Municipal..... | 1 | - | 1 | - | - | - | 18 |
| Private | 15 | 2 | 11 | - | 2 | - | 288 |
| Maui | 9 | 1 | 3 | - | 3 | 2 | 279 |
| Municipal..... | 1 | - | 1 | - | - | - | 18 |
| Private | 8 | 1 | 2 | - | 3 | 2 | 261 |
| Lanai | 3 | 1 | 2 | - | - | - | 45 |
| Private | 3 | 1 | 2 | - | - | - | 45 |
| Molokai..... | 2 | 1 | 1 | - | - | - | 27 |
| Private | 2 | 1 | 1 | - | - | - | 27 |
| Oahu | 34 | 5 | 29 | - | - | - | 567 |
| Military | 9 | 3 | 6 | - | - | - | 135 |
| Municipal..... | 5 | 1 | 4 | - | - | - | 81 |
| Private | 20 | 1 | 19 | - | - | - | 351 |
| Kauai..... | 8 | 1 | 6 | 1 | - | - | 144 |
| Municipal..... | 1 | - | 1 | - | - | - | 18 |
| Private | 7 | 1 | 5 | 1 | - | - | 126 |

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

Table 7.45-- GOLF ROUNDS AND EXPENDITURES BY RESIDENTS AND VISITORS: 1994

| Subject | All golfers | Residents | Visitors |
|--------------------------------------|-------------|-----------|----------|
| Rounds played (millions) | 4.8 | 3.7 | 1.1 |
| Expenditures (million dollars) | 327 | 205 | 122 |

Source: Coopers & Lybrand survey cited in *Honolulu Advertiser*, March 27, 1995, pp. C1, C2.

Table 7.46-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1989 TO 1994

| Calendar year | Public golf courses | | | Camping permits issued <u>1/</u> |
|---------------|---------------------|-------|---------------|----------------------------------|
| | Courses | Holes | Rounds played | |
| 1989..... | 5 | 81 | 555,671 | 7,773 |
| 1990..... | 5 | 81 | 519,563 | 9,865 |
| 1991..... | 5 | 81 | 580,888 | 9,633 |
| 1992..... | 5 | 81 | 654,726 | 9,938 |
| 1993..... | 5 | 81 | 638,972 | 10,251 |
| 1994..... | 5 | 81 | 580,120 | 8,778 |

1/ By the City and County of Honolulu.

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

Table 7.47-- HAWAIIAN OPEN SCORES AND PURSES: 1991 TO 1996

[The Hawaiian Open is held at the Waiialae Country Club golf course.
Distance is 6,975 yards; par is 72/288]

| Year | Holes | Winning score | | Purse (dollars) | |
|-----------|-------|---------------|-----------|-----------------|---------|
| | | Total | Below par | Total | Winner |
| 1991..... | 72 | 270 | 18 | 1,100,000 | 198,000 |
| 1992..... | 72 | 265 | 23 | 1,200,000 | 216,000 |
| 1993..... | 72 | 269 | 19 | 1,200,000 | 216,000 |
| 1994..... | 72 | 269 | 19 | 1,200,000 | 216,000 |
| 1995..... | 72 | 269 | 19 | 1,200,000 | 216,000 |
| 1996..... | 72 | 277 | 11 | 1,200,000 | 216,000 |

Source: *Honolulu Advertiser*, February 11, 1996, p. C11, and February 19, 1996, p. D1.

Table 7.48-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: JUNE 30, 1995

| Island | Public hunting areas | | National Wildlife Refuges ^{1/} | | Other wildlife sanctuaries and refuges | |
|--------------------|----------------------|-------------|---|-------------|--|-------------|
| | Number | 1,000 acres | Number | 1,000 acres | Number | 1,000 acres |
| State total | 59 | 1,001.1 | 7 | 271.0 | 12 | 83.9 |
| Hawaii..... | 27 | 727.9 | 1 | 15.0 | 5 | 82.8 |
| Maui | 7 | 93.7 | - | - | 2 | 0.1 |
| Lanai | 1 | 35.6 | - | - | - | - |
| Molokai | 1 | 18.6 | 1 | 0.0 | - | - |
| Oahu | 12 | 18.6 | 2 | 0.2 | 5 | 0.7 |
| Kauai | 11 | 106.7 | 3 | 1.2 | - | - |
| Other islands..... | - | - | 1 | 254.6 | (2/) | 0.3 |

^{1/} U.S. Fish and Wildlife Service.

^{2/} The Hawaii State Seabird Sanctuary is comprised of 36 islets offshore all major islands, including Kure Atoll in the Northwestern Hawaiian Islands. This sanctuary is administered out of the Oahu District office.

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

Table 7.49-- FISHING AND HUNTING LICENSES ISSUED: 1989 TO 1994

[Years ended June 30]

| Type of license | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|--------------------------|--------|--------|--------|--------|--------|--------|
| Freshwater fishing | 9,565 | 10,010 | 9,250 | 12,588 | 11,072 | 9,612 |
| Hunting..... | 12,714 | 13,805 | 10,529 | 10,685 | 10,683 | 11,274 |

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

Table 7.50-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1990 TO 1995

| Year | Number of registrants | Number of finishers | Winning time (hr., min., sec.) | |
|-----------|-----------------------|---------------------|--------------------------------|---------|
| | | | Men | Women |
| 1990..... | 13,268 | 11,866 | 2:17:29 | 2:33:34 |
| 1991..... | 14,605 | 13,038 | 2:18:24 | 2:40:11 |
| 1992..... | 30,905 | 23,598 | 2:14:19 | 2:32:13 |
| 1993..... | 29,514 | 23,640 | 2:13:16 | 2:32:20 |
| 1994..... | 32,804 | 25,801 | 2:15:04 | 2:37:06 |
| 1995..... | 34,420 | 27,048 | 2:16:08 | 2:37:29 |

Source: Honolulu Marathon Association, records; *Honolulu Star-Bulletin*, December 8, 1994, p. B-4, and December 13, 1994, p. D-3; *Honolulu Advertiser*, December 12, 1994, pp. C1, C2, C3; *Honolulu Star-Bulletin*, December 11, 1995, p. C-1.

**Table 7.51-- IRONMAN TRIATHLON WORLD CHAMPIONSHIP
PARTICIPANTS, FINISHERS, AND WINNING TIMES: 1989 TO 1994**

| Year | Number of participants | Number of finishers | Winning time (hr., min., sec.) | |
|-----------|------------------------|---------------------|--------------------------------|---------|
| | | | Men | Women |
| 1989..... | 1,286 | 1,231 | 8:09:15 | 9:00:56 |
| 1990..... | 1,386 | 1,235 | 8:28:17 | 9:13:43 |
| 1991..... | 1,379 | 1,312 | 8:18:32 | 9:07:52 |
| 1992..... | 1,379 | 1,298 | 8:09:08 | 8:55:29 |
| 1993..... | 1,438 | 1,353 | 8:07:45 | 8:58:23 |
| 1994..... | 1,405 | 1,290 | 8:20:27 | 9:20:14 |

Source: Ironman Triathlon World Championship, records.

**Table 7.52-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES
AND WINNING TIMES: 1985 TO 1995**

[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 |

Source: *Honolulu Advertiser*, July 4, 1985, July 19, 1985, and July 10, 1989; *Honolulu Star-Bulletin*, July 13, 1993; Transpac Honolulu Committee, records; DBEDT Business Development and Marketing Division, records; DBEDT Tourism Division, records.

Table 7.53-- WATER EVENTS AND PARTICIPATION, BY COUNTIES: 1994

| County | Events | Event days | Participants | Participating craft |
|-------------------|--------|------------|--------------|---------------------|
| State total | 484 | 819 | 112,106 | 8,415 |
| Hawaii | 76 | 138 | 23,269 | 1,572 |
| Maui | 72 | 120 | 13,931 | 739 |
| Honolulu | 302 | 514 | 67,477 | 5,566 |
| Kauai | 34 | 47 | 7,429 | 538 |

Source: Hawaii State Dept. of Land and Natural Resources, Division of Boating and Ocean Recreation, "Marine/Ocean Water Events Summary Report, January 1, 1994 to December 31, 1994."

**Table 7.54-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES:
1989-1990 TO 1994-1995 SEASONS**

| Bowl | 1989-1990 | 1990-1991 | 1991-1992 | 1992-1993 | 1993-1994 | 1994-1995 |
|------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Aloha Bowl | 39,267 | 14,185 | 19,245 | 21,709 | 23,645 | 20,092 |
| Hula Bowl | 20,274 | 17,789 | 18,383 | 19,952 | 25,726 | 17,074 |
| Pro Bowl | 45,135 | 45,097 | 46,471 | 48,237 | 47,560 | 45,828 |

Source: Aloha Stadium, records.

Table 7.55-- VARSITY SPORTS SUMMARY FOR THE UNIVERSITY OF HAWAII AT MANOA: 1992-1993 TO 1994-1995

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

| Sports | Games played <u>1/</u> | | | | Home games | |
|----------------------------|------------------------|-----|------|------|------------|------------|
| | Total | Won | Lost | Tied | Home dates | Attendance |
| 1992-1993: | | | | | | |
| Baseball..... | 59 | 34 | 25 | - | 43 | 200,525 |
| Basketball (men's) | 28 | 12 | 16 | - | 17 | 87,516 |
| Basketball (women's) | 32 | 28 | 4 | - | 16 | 13,420 |
| Football | 13 | 11 | 2 | - | 7 | 311,022 |
| Volleyball (men's) | 28 | 18 | 10 | - | 11 | 10,401 |
| Volleyball (women's) | 27 | 15 | 12 | - | 17 | 23,291 |
| 1993-1994: | | | | | | |
| Baseball..... | 56 | 28 | 28 | - | 43 | 188,710 |
| Basketball (men's) | 33 | 18 | 15 | - | 16 | 92,166 |
| Basketball (women's) | 30 | 25 | 5 | - | 19 | 15,598 |
| Football | 12 | 6 | 6 | - | 8 | 326,454 |
| Volleyball (men's) | 28 | 14 | 14 | - | 12 | 8,305 |
| Volleyball (women's) | 30 | 19 | 11 | - | 19 | 30,506 |
| 1994-1995: | | | | | | |
| Baseball..... | 54 | 30 | 24 | - | 38 | 92,047 |
| Basketball (men's) | 29 | 16 | 13 | - | 17 | 143,763 |
| Basketball (women's) | 26 | 6 | 20 | - | 16 | 13,747 |
| Football | 12 | 3 | 8 | 1 | 8 | 306,989 |
| Volleyball (men's) | 23 | 18 | 5 | - | 23 | 45,916 |
| Volleyball (women's) | 30 | 25 | 5 | - | 18 | 72,652 |

1/ Volleyball data refer to matches.

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

**Table 7.56-- PUBLIC HIGH SCHOOL INTERSCHOLASTIC SPORTS:
1993-1994 AND 1994-1995 SEASONS**

| Sport | Players | Games <u>1/</u> | Attendance | Expenditure <u>2/</u> (dollars) |
|-------------------|----------------------|------------------------|-------------------|--|
| 1993-1994: | | | | |
| Baseball | Boys | 424 | 73,500 | 383,500 |
| Basketball | Boys and girls | 1,056 | 141,000 | 628,000 |
| Football..... | Boys | 308 | 446,000 | 1,120,000 |
| 1994-1995: | | | | |
| Baseball | Boys | 456 | 76,500 | 400,500 |
| Basketball | Boys and girls | 1,116 | 144,500 | 635,000 |
| Football..... | Boys | 308 | 452,000 | 1,150,000 |

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.

Source: Hawaii State Department of Education, Office of Instructional Services, records.

Table 7.57-- PROFESSIONAL BOXING: 1989 TO 1994

| Year | Number of promoters | Number of shows | Paid attendance | Gross receipts (dollars) |
|----------------------|----------------------------|------------------------|------------------------|---------------------------------|
| 1989 | 3 | 10 | 14,869 | 218,810 |
| 1990 | 3 | 8 | 9,246 | 172,900 |
| 1991 | 4 | 8 | 6,431 | 179,987 |
| 1992 <u>1/</u> | 2 | 1 | 300 | 4,500 |
| 1993 | 1 | 1 | 472 | 12,385 |
| 1994 | 3 | 6 | 8,022 | 191,150 |

1/ Attendance and receipts are estimates.

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

Table 7.58-- DOG LICENSES ISSUED, BY ISLANDS: 1989 TO 1994

[Dogs are licensed on a biennial basis]

| Year | State total | Hawaii | Maui | Lanai | Molokai | Oahu | Kauai |
|-------------|--------------------|---------------|-------------|--------------|----------------|-------------|--------------|
| 1989..... | 27,147 | 3,759 | 2,321 | 14 | 105 | 19,500 | 1,448 |
| 1990..... | 26,620 | 3,081 | 2,688 | 7 | 148 | 20,000 | 696 |
| 1991..... | 26,325 | 3,992 | 2,370 | 17 | 60 | 19,000 | 886 |
| 1992..... | 25,145 | 3,794 | 3,262 | 10 | 89 | 17,479 | 511 |
| 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 |

Source: Compiled by the Hawaii State Department of Business, Economic Development & Tourism from the County Departments of Finance.

Section 8

ELECTIONS

This section presents data on election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative activity.

Almost 489,000 persons were registered to vote in the general election of November 8, 1994, and about 377,000 actually voted. The number voting amounted to less than 50 percent of the 760,000 Hawaii residents eligible to vote at that time. The latter figure excluded around 140,000 aliens, inmates of mental and penal institutions, and non-resident members of the armed forces and their dependents of voting age, groups that are ineligible or unlikely to vote in Island elections. Among registered voters, females outnumbered males by 6.9 percent and Democrats were far more numerous than Republicans. Campaign expenditures for the 1992 primary, general, and supplemental elections (other than for federal offices) came to \$10.6 million.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 18 Council districts. It also contains 16 soil and water conservation districts, 30 active Neighborhood Board districts, and 325 election precincts.

Elected officials in Hawaii include the President and Vice President, two U.S. Senators, two U.S. Representatives, the Governor and Lieutenant Governor, 25 State Senators, 51 State Representatives, and various county officials. Persons of Hawaiian blood also vote for the Board of Trustees of the Office of Hawaiian Affairs. The minimum voting age is 18 years.

The 1995 State Legislature, with 76 members, included 67 Democrats and nine Republicans.

In its 1995 regular and special sessions, the State Legislature considered 4,342 bills; 362 were passed and 277 became law. The Legislature also offered 1,262 resolutions, of which 367 were adopted.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various county clerks. Earlier figures for Hawaii appear in *Historical Statistics of Hawaii*, Section 24. National statistics appear in the *Statistical Abstract of the United States: 1995*, Section 8.

Table 8.01-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS: NOVEMBER 1992 AND 1994

| Office | Election districts | | Officials to be elected <u>1/</u> | | Total elected officials, including holdover | |
|---|--------------------|------|-----------------------------------|------|---|------|
| | 1992 | 1994 | 1992 | 1994 | 1992 | 1994 |
| Federal offices: | | | | | | |
| President and Vice President | ... | ... | 2 | - | 2 | 2 |
| U.S. Senate..... | ... | ... | 1 | 1 | 2 | 2 |
| U.S. House of Representatives | 2 | 2 | 2 | 2 | 2 | 2 |
| State offices: | | | | | | |
| Governor and Lt. Governor | ... | ... | - | 2 | 2 | 2 |
| State Senate | 25 | 25 | 13 | 12 | 25 | 25 |
| State House of Representatives ... | 51 | 51 | 51 | 51 | 51 | 51 |
| Board of Education..... | 2 | 2 | 7 | 6 | 13 | 13 |
| Office of Hawaiian Affairs..... | ... | ... | 4 | 5 | 9 | 9 |
| Soil and water conservation dist. <u>2/</u> | 16 | 16 | ... | ... | 48 | 48 |
| County offices: | | | | | | |
| Mayor..... | ... | ... | 2 | 2 | 4 | 4 |
| Council: | | | | | | |
| Hawaii | 9 | 9 | 9 | 9 | 9 | 9 |
| Maui | ... | ... | 9 | 9 | 9 | 9 |
| Honolulu..... | 9 | 9 | - | 9 | 9 | 9 |
| Kauai..... | ... | ... | 7 | 7 | 7 | 7 |
| Prosecuting Attorney | ... | ... | 3 | - | 3 | 3 |
| Neighborhood Boards <u>3/</u> | 30 | 30 | - | - | 438 | 438 |
| Precincts | 317 | 325 | - | - | - | - |

1/ Including vacancies to be filled.

2/ Three seats are elected and two are appointed for each district. Elections are an ongoing process.

3/ Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, records; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 8.02-- 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 <u>1/</u> | Rate <u>2/</u> | | |
| 1967 | 184 | 50 | 2.5 | 89 | 95 |
| 1977 | 172 | 50 | 1.9 | 87 | 85 |
| 1987 | 160 | 50 | 1.5 | 91 | 69 |
| 1992 | 183 | 50 | 1.6 | 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*, GC92-2(P), *Popularly Elected Officials in 1992* (Oct. 1994), table 1.

Table 8.03-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1980 TO 1994

| Subject | 1980 | 1982 | 1984 | 1986 | 1988 | 1990 | 1992 | 1994 |
|---|------|------|------|------|------|------|------|------|
| Persons of voting age <u>1/</u> (1,000) | 697 | 728 | 751 | 776 | 804 | 841 | 866 | 900 |
| Percent casting votes for-- | | | | | | | | |
| Presidential electors | 43.5 | (X) | 44.7 | (X) | 44.0 | (X) | 43.1 | (X) |
| U.S. Representatives..... | 40.2 | 40.9 | 36.7 | 42.7 | 42.3 | 40.5 | 41.4 | 39.3 |

X Not applicable.

1/ Resident population 18 years and over, including armed forces stationed in Hawaii. November estimates.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age, for States: November 1988," *Current Population Reports*, Series P-25, No. 1019, January 1988, "Projections of the Voting-Age Population, for States: November 1990," *Current Population Reports*, Series P-25, No. 1059, April 1990, and "Projections of the Voting-Age Population, Population for States: November 1992," *Current Population Reports*, Series P-25, No. 1085, April 1992, pp. 6 and 12; *Statistical Abstract of the United States: 1993*, p. 285; U.S. Bureau of the Census, "Projections of the Voting-Age Population, for States: November 1994," *Current Population Reports*, P25-1117, May 1994, pp. 9 and 18; *Statistical Abstract of the United States: 1995*, p. 291.

**Table 8.04-- REPORTED VOTING AND REGISTRATION, BY SEX:
NOVEMBER 1994**

[Civilian noninstitutional population of voting age]

| Sex | All persons (1,000) | Total registered | | | Total voted | | |
|------------------|---------------------|------------------|----------------|----------------|----------------|----------------|----------------|
| | | Number (1,000) | Percent | Standard error | Number (1,000) | Percent | Standard error |
| Both sexes | 833 | 429 | <u>1/</u> 51.5 | 1.78 | 383 | <u>2/</u> 46.0 | 1.78 |
| Male | 383 | 197 | 51.5 | 2.63 | 181 | 47.3 | 2.62 |
| Female | 450 | 232 | 51.5 | 2.42 | 202 | 44.8 | 2.41 |

1/ The U.S. percentage was 62.0. Hawaii ranked 49th among the 50 States.

2/ The U.S. percentage was 44.6. Hawaii ranked 26th among the 50 States.

Source: U.S. Bureau of the Census, reported voting and registration, November 1994 detailed work tables, table 4 (unpublished).

Table 8.05-- POPULATION OF VOTING AGE, ELIGIBLE VOTERS, REGISTERED VOTERS, AND VOTES CAST: NOVEMBER 1994

| Subject | Number |
|--|--------|
| Population 18 years and over (1,000) | 900 |
| Less: Nonresident armed forces and dependents (1,000)..... | 74 |
| Aliens and other ineligible adult civilians (1,000)..... | 66 |
| Eligible to vote (1,000)..... | 760 |
| Registered voters (1,000) | 489 |
| Percent of persons eligible | 64.3 |
| Votes cast (1,000)..... | 377 |
| Percent of persons eligible | 49.6 |

Source: U.S. Bureau of the Census estimate of population 18 and over; DBEDT Statistics Branch estimates of ineligible adult civilians; Office of the Lieutenant Governor, 1994 election results.

Table 8.06-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS: 1974 TO 1994

| Type and date of election | Registered voters | | | Votes cast | |
|------------------------------------|-------------------|---------|---------|------------|------------------------|
| | Both sexes | Male | Female | Number | Percent of reg. voters |
| Primary elections: | | | | | |
| 1974: Oct. 5 | 333,527 | (NA) | (NA) | 235,982 | 70.8 |
| 1976: Oct. 2 | 353,249 | 175,276 | 177,973 | 251,457 | 71.2 |
| 1978: Oct. 7 | 387,673 | 190,796 | 196,877 | 289,029 | 74.6 |
| 1980: Sept. 20..... | 384,858 | 186,982 | 197,876 | 264,041 | 68.6 |
| 1982: Sept. 18..... | 385,307 | 185,763 | 199,544 | 272,691 | 70.8 |
| 1984: Sept. 22..... | 398,858 | 190,525 | 208,333 | 221,957 | 55.6 |
| 1986: Sept. 20..... | 398,197 | 189,655 | 208,542 | 281,352 | 70.7 |
| 1988: Sept. 17 ^{1/} | 419,441 | 199,643 | 220,225 | 275,673 | 65.7 |
| 1990: Sept. 22..... | 436,323 | 207,897 | 228,426 | 276,407 | 63.3 |
| 1992: Sept. 19..... | 432,723 | 206,642 | 226,081 | 251,582 | 58.1 |
| 1994: Sept. 17..... | 468,739 | 225,986 | 242,753 | 309,700 | 66.1 |
| General elections: | | | | | |
| 1974: Nov. 5 | 343,404 | 171,072 | 172,332 | 272,545 | 79.4 |
| 1976: Nov. 2 | 363,045 | 180,265 | 182,780 | 309,025 | 85.1 |
| 1978: Nov. 7 | 395,262 | 194,412 | 200,850 | 292,690 | 74.0 |
| 1980: Nov. 4 | 402,795 | 195,804 | 206,991 | 318,026 | 79.0 |
| 1982: Nov. 2 | 405,005 | 195,259 | 209,746 | 325,459 | 80.4 |
| 1984: Nov. 6 | 418,904 | 200,424 | 218,480 | 349,253 | 83.4 |
| 1986: Nov. 4 | 419,794 | 200,233 | 219,561 | 344,416 | 82.0 |
| 1988: Nov. 8 | 443,742 | 211,539 | 232,203 | 368,567 | 83.0 |
| 1990: Nov. 6 | 453,389 | 216,433 | 236,956 | 354,144 | 78.1 |
| 1992: Nov. 3 | 464,495 | 222,721 | 241,774 | 382,882 | 82.4 |
| 1994: Nov. 8 | 488,889 | 236,251 | 252,638 | 377,011 | 77.1 |

NA Not available.

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

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

Table 8.07-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1994

[Excludes persons registered for only the Office of Hawaiian Affairs election but not for the regular primary or general elections]

| Election and county | Registered voters | | | Votes cast | |
|-------------------------|-------------------|---------|---------|------------|------------------------|
| | Both sexes | Male | Female | Number | Percent of reg. voters |
| PRIMARY ELECTION | | | | | |
| State total | 468,739 | 225,986 | 242,753 | 309,700 | 66.1 |
| Hawaii | 61,224 | 29,428 | 31,796 | 36,377 | 59.4 |
| Maui | 46,111 | 22,256 | 23,855 | 27,560 | 59.8 |
| Honolulu | 335,173 | 161,565 | 173,608 | 225,406 | 67.3 |
| Kauai..... | 26,231 | 12,737 | 13,494 | 20,357 | 77.6 |
| Overseas..... | - | - | - | 3 | - |
| GENERAL ELECTION | | | | | |
| State total | 488,889 | 236,251 | 252,638 | 377,011 | 77.1 |
| Hawaii | 63,677 | 30,666 | 33,011 | 48,907 | 76.8 |
| Maui | 48,036 | 23,194 | 24,842 | 36,589 | 76.2 |
| Honolulu | 349,457 | 168,900 | 180,557 | 269,121 | 77.0 |
| Kauai..... | 27,719 | 13,491 | 14,228 | 22,394 | 80.8 |
| Overseas..... | - | - | - | 3 | - |

Source: Office of the Lieutenant Governor, records.

**Table 8.08-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, SEPTEMBER 17, 1994**

| Office, party, and candidate | Votes | Office, party, and candidates | Votes |
|------------------------------|---------|-------------------------------|---------|
| U.S. SENATE | | U.S. HOUSE, DIST. 2 -- Con. | |
| Democrat: | | Republican: | |
| Akaka, D. | 168,877 | Garner, R. | 9,014 |
| | | Monsef, S. | 4,720 |
| Libertarian: | | Sink, W. | 4,289 |
| Rowland, R. | 143 | | |
| | | GOVERNOR | |
| Republican: | | Best: | |
| Hustace, M. | 16,647 | Fasi, F. | 30,879 |
| Ho, R. | 9,069 | Woods, W. | 492 |
| Bellinger, F. | 7,869 | Craven, J. | 341 |
| Manner, P. | 2,640 | Combs, M. | 266 |
| Harker, B. | 2,454 | | |
| Deluze, J. | 2,046 | Democrat: | |
| | | Cayetano, B. | 110,782 |
| U.S. HOUSE, DIST. 1 | | Lewin, J. | 76,666 |
| Best: | | La'ia, B. | 5,761 |
| Kaan, A. | 7,491 | Nitta, G. | 3,505 |
| | | Hodges, A. | 2,854 |
| Democrat: | | Canopin, A. | 1,111 |
| Abercrombie, N. | 65,145 | Marshall, E. | 607 |
| Nakasato, D. | 32,851 | | |
| Libertarian: | | Green: | |
| Taylor, R. | 158 | Dudley, K. | 753 |
| | | Wong, E. | 637 |
| Republican: | | Goodwin, G. | 391 |
| Swindle, O. | 14,398 | Libertarian: | |
| Perry, Y. | 7,024 | Peabody, G. | 312 |
| | | | |
| U.S. HOUSE, DIST. 2 | | Republican: | |
| Democrat: | | Saiki, P. | 49,953 |
| Mink, P. | 79,351 | Gregory, S. | 2,278 |
| Bourgoin, D. | 14,221 | Hirayasu, C. | 1,079 |
| | | Measel, R. | 765 |
| Libertarian: | | Non-partisan: | |
| Bartley, L. | 159 | Kealoha, K. | 500 |
| | | Murabayashi, H. | 392 |

Continued on next page.

**Table 8.08-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES:
PRIMARY ELECTION, SEPTEMBER 17, 1994 -- Con.**

| Office, party, and candidate | Votes | Office, party, and candidates | Votes |
|------------------------------|---------|--|--------|
| GOVERNOR -- Con. | | MAUI COUNTY MAYOR - Con. | |
| Non-partisan: | | Libertarian: | |
| Shiratori, M. | 233 | Jordan, J. | 25 |
| Hauanio, L. | 183 | | |
| Reghi, M. | 108 | Republican: | |
| | | Crockett Lingle, L. | 4,129 |
| LT. GOVERNOR | | Downing, M. | 708 |
| Best: | | CITY & COUNTY OF HONOLULU MAYOR <u>1/</u> | |
| Kaleikini, D. | 24,932 | Non-partisan: | |
| Lindsey, S. | 3,985 | Harris, J. | 67,670 |
| Democrat: | | Morgado, A. | 58,018 |
| Hirono, M. | 126,933 | Kobayashi, A. | 43,367 |
| Young, J. | 51,150 | Gill, G. | 34,522 |
| Ragasa, P. | 6,667 | Ablan, M. | 4,136 |
| Ing, S. | 4,366 | Anderson, W. | 1,234 |
| Martin, L. | 3,651 | Sutton, W. | 1,193 |
| Wyttenbach, S. | 1,792 | O'Connor, D. | 995 |
| Green: | | Naluai, S. | 613 |
| Morse, J. | 1,413 | Hong, L. | 580 |
| Republican: | | Deocampo, D. | 522 |
| Hemmings, F. | 28,376 | Medeiros, R. | 275 |
| Koki, S. | 22,960 | Guess, F. | 261 |
| Sutton, R. | 2,249 | Camara, P. | 230 |
| Jim, H. | 756 | | |
| | | KAUAI COUNTY MAYOR | |
| Non-partisan: | | Democrat: | |
| Pillos, J. | 1,184 | Tehada, J. | 10,111 |
| | | Yukimura, J. | 7,171 |
| MAUI COUNTY MAYOR | | Republican: | |
| Democrat: | | Kusaka, M. | 1,000 |
| Hokama, G. | 11,329 | Nimkie, D. | 221 |
| Hodges, M. | 7,146 | | |

1/ Special election to fill unexpired term of Mayor Fasi. All 14 candidates ran on a nonpartisan, winner-take-all basis.

Source: Office of the Lieutenant Governor, *1994 Primary Summary Report*.

**Table 8.09-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS:
1984 TO 1994**

| Primary election | Total votes cast | Democratic | Republican | Best | Other parties | Non-partisan | Invalid or blank |
|------------------|------------------|------------|------------|--------|---------------|--------------|------------------|
| 1984 | 221,957 | 177,102 | 43,306 | - | 695 | 455 | 399 |
| 1986 | 281,352 | 235,559 | 44,304 | - | - | 1,023 | 466 |
| 1988 | 275,653 | 221,349 | 50,923 | - | 563 | 1,340 | 1,478 |
| 1990 | 275,333 | 221,829 | 48,570 | - | 974 | 3,858 | 1,203 |
| 1992 | 251,576 | 194,945 | 49,379 | - | 4,290 | 1,815 | 1,147 |
| 1994 | 309,700 | 212,270 | 58,316 | 32,395 | 2,960 | 2,045 | 1,714 |

Source: Office of the Lieutenant Governor, *Results of Votes Cast, Primary Election, 1982-1992*, and records.

**Table 8.10-- PARTY OF VOTES IN PRIMARY ELECTION, BY COUNTIES:
SEPTEMBER 17, 1994**

| Party | State total | Hawaii County | Maui County | City and County of Honolulu | Kauai County |
|------------------------|-------------|---------------|-------------|-----------------------------|--------------|
| Total votes cast | 309,700 | 36,377 | 27,560 | 225,406 | 20,357 |
| Best | 32,395 | 3,395 | 1,082 | 27,475 | 443 |
| Democratic | 212,270 | 23,714 | 20,442 | 149,948 | 18,166 |
| Hawaii Green | 2,466 | 433 | 269 | 1,695 | 69 |
| Libertarian | 494 | 70 | 43 | 365 | 16 |
| Republican | 2,045 | 271 | 214 | 1,499 | 61 |
| Non-partisan | 58,316 | 8,394 | 5,358 | 43,138 | 1,426 |
| Invalid | 1,714 | 100 | 152 | 1,286 | 176 |

Source: Office of the Lieutenant Governor, records.

Table 8.11-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES CAST, BY ISLANDS: NOVEMBER 8, 1994

| Island | Number of precincts | Registered voters | Votes cast | Percent voting |
|--------------------------------|---------------------|-------------------|------------|----------------|
| State total | 325 | 488,889 | 377,011 | 77.1 |
| Hawaii | 54 | 63,677 | 48,907 | 76.8 |
| Maui | 36 | 43,850 | 33,832 | 77.2 |
| Lanai | 1 | 1,196 | 892 | 74.6 |
| Molokai: Molokai District..... | 4 | 2,899 | 1,783 | 62.0 |
| Kalawao District | 1 | 91 | 82 | 90.1 |
| Oahu <u>1/</u> | 211 | 349,457 | 269,121 | 77.0 |
| Kauai | 17 | 27,601 | 22,286 | 80.7 |
| Niihau | 1 | 118 | 108 | 91.5 |

1/ Including the Northwestern Hawaiian Islands, part of the 6th Precinct of the 51st Representative District, in Waimanalo, Oahu.

Source: Office of the Lieutenant Governor, records.

Table 8.12-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 8, 1994

| Age | Both sexes | Male | Female |
|------------------------|------------|---------|---------|
| All ages | 488,889 | 236,251 | 252,638 |
| 18 or 19 years | 10,668 | 4,903 | 5,765 |
| 20 to 29 years..... | 73,160 | 34,370 | 38,790 |
| 30 to 39 years..... | 101,640 | 48,309 | 53,331 |
| 40 to 49 years..... | 108,748 | 52,916 | 55,832 |
| 50 to 64 years..... | 100,770 | 48,892 | 51,878 |
| 65 years and over..... | 93,892 | 46,861 | 47,031 |
| Not reported | 11 | - | 11 |

Source: Office of the Lieutenant Governor, records.

**Table 8.13-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS,
1984 TO 1994**

| Office and election year | Total votes cast | Democrat | | Republican | | Other parties: votes |
|---|------------------|---------------|---------|---------------|---------|----------------------|
| | | Candidate | Votes | Candidate | Votes | |
| PRESIDENT | | | | | | |
| 1984 | 335,846 | Mondale... | 147,154 | Reagan..... | 185,050 | 3,642 |
| 1988 | 354,461 | Dukakis.... | 192,364 | Bush..... | 158,625 | 3,472 |
| 1992 | 372,842 | Clinton | 179,310 | Bush..... | 136,822 | 56,710 |
| U.S. SENATOR | | | | | | |
| 1986 | 328,797 | Inouye, D. | 241,887 | Hutchinson | 86,910 | - |
| 1988 | 323,876 | Matsunaga | 247,941 | Hustace | 66,987 | 8,948 |
| 1990 | 349,666 | Akaka | 188,901 | Saiki | 155,978 | 4,787 |
| 1992 | 363,662 | Inouye..... | 208,266 | Reed | 97,928 | 57,468 |
| 1994 | 376,768 | Akaka | 256,189 | Hustace | 86,320 | 14,393 |
| REPRESENTATIVE TO CONGRESS, DISTRICT 1 | | | | | | |
| 1984 | 138,865 | Heftel | 114,884 | Beard | 20,608 | 3,373 |
| 1986 <u>1</u> / | 168,377 | Hannemann | 63,061 | Saiki | 99,683 | 5,633 |
| 1988 | 177,020 | Bitterman . | 76,394 | Saiki | 96,848 | 3,778 |
| 1990 | 162,711 | Abercrombie | 97,622 | Liu | 62,982 | 2,107 |
| 1992 | 177,476 | Abercrombie | 129,332 | Sutton..... | 41,575 | 6,569 |
| 1994 | 176,706 | Abercrombie | 94,754 | Swindle | 76,623 | 5,329 |
| REPRESENTATIVE TO CONGRESS, DISTRICT 2 | | | | | | |
| 1984 | 136,741 | Akaka | 112,377 | Shipley | 20,000 | 4,364 |
| 1986 | 162,819 | Akaka | 123,830 | Hustace | 35,371 | 3,618 |
| 1988 | 162,808 | Akaka | 144,802 | None | - | 18,006 |
| 1990 | 178,288 | Mink..... | 118,155 | Poepoe..... | 54,625 | 5,508 |
| 1992 | 180,955 | Mink..... | 131,454 | Price..... | 40,070 | 9,431 |
| 1994 | 177,396 | Mink..... | 124,431 | Garner..... | 42,891 | 10,074 |

Continued on next page.

Table 8.13-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1984 TO 1994 -- Con.

| Office and election year | Total votes cast | Democrat | | Republican | | Other parties: votes |
|-----------------------------|------------------|---------------|---------|--------------|---------|----------------------|
| | | Candidate | Votes | Candidate | Votes | |
| GOVERNOR | | | | | | |
| 1986..... | 334,115 | Waihee | 173,655 | Anderson, D. | 160,460 | - |
| 1990..... | 340,132 | Waihee | 203,491 | Hemmings. | 131,310 | 5,331 |
| 1994..... | 369,013 | Cayetano ... | 134,978 | Saiki | 107,908 | (2/) |
| MAYOR OF HONOLULU 3/ | | | | | | |
| 1984..... | 253,853 | Anderson, E. | 117,841 | Fasi | 132,875 | 3,137 |
| 1988..... | 263,882 | Bornhorst ... | 117,479 | Fasi | 146,403 | - |
| 1992..... | 263,328 | O'Connor ... | 124,719 | Fasi | 127,939 | 10,670 |

1/ For special election to fill unexpired term of Rep. Hefel, Sept. 20, 1986, see *Data Book 1987*, table 280.

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

3/ 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 non-partisan, winner-take-all basis. A total of 213,616 votes was cast, including 67,670 for Harris, the winner; see table 8.08 for the full results.

Source: Office of the Lieutenant Governor, *Results of Votes Cast, General Election, State of Hawaii* for 1984-1992, and records.

**Table 8.14-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, NOVEMBER 8, 1994**

| Office, candidate and party 1/ | State total | County of Hawaii | County of Maui | City and County of Honolulu | County of Kauai |
|-----------------------------------|----------------|---------------------|-------------------|-----------------------------------|--------------------|
| U.S. SENATOR | | | | | |
| Akaka, D. (D)..... | 256,189 | 33,021 | 25,201 | 181,570 | 16,397 |
| Hustace, M. (R) | 86,320 | 10,777 | 7,712 | 64,356 | 3,475 |
| Rowland, R. (L) | 14,393 | 2,434 | 1,504 | 9,830 | 625 |
| U.S. HOUSE, DIST. 1 | | | | | |
| Abercrombie, N. (D) | 94,754 | - | - | 94,754 | - |
| Swindle, O. (R)..... | 76,623 | - | - | 76,623 | - |
| Kaan, A. (B) | 2,815 | - | - | 2,815 | - |
| Taylor, R. (L)..... | 2,514 | - | - | 2,514 | - |
| U.S. HOUSE, DIST. 2 | | | | | |
| Mink, P. (D)..... | 124,431 | 31,341 | 24,416 | 53,240 | 15,434 |
| Garner, R. (R) | 42,891 | 11,029 | 7,629 | 20,724 | 3,509 |
| Bartley, L. (L) | 10,074 | 2,714 | 1,627 | 4,948 | 784 |
| GOVERNOR/ LT. GOVERNOR | | | | | |
| Cayetano, B./Hirono, M. (D) | 134,978 | 17,436 | 15,333 | 92,535 | 9,674 |
| Fasi, F./Kaleikini, D. (B) | 113,158 | 14,557 | 10,118 | 81,191 | 7,292 |
| Saiki, P./Hemmings, F. (R). | 107,908 | 13,277 | 8,845 | 81,545 | 4,241 |
| Dudley, K./Morse, J. (G)..... | 12,969 | 2,507 | 1,148 | 8,874 | 440 |
| MAUI COUNTY MAYOR | | | | | |
| Crockett Lingle, L (R) | 18,188 | - | 18,188 | - | - |
| Hokama, G. (D)..... | 15,304 | - | 15,304 | - | - |
| Furcini, F. (N)..... | 1,433 | - | 1,433 | - | - |
| Jordan, J. (L)..... | 448 | - | 448 | - | - |

Continued on next page.

**Table 8.14-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES:
GENERAL ELECTION, NOVEMBER 8, 1994 -- Con.**

| Office, candidate and party ^{1/} | State total | County of Hawaii | County of Maui | City and County of Honolulu | County of Kauai |
|---|-------------|------------------|----------------|-----------------------------|-----------------|
| KAUAI COUNTY MAYOR | | | | | |
| Kusaka, M. (R) | 11,321 | - | - | - | 11,321 |
| Tehada, J. (D) | 9,988 | - | - | - | 9,988 |

^{1/} B, Best; D, Democrat; G, Hawaii Green; L, Libertarian; N, Nonpartisan; R, Republican.
Source: Office of the Lieutenant Governor, *1994 General Summary Reports*.

**Table 8.15-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD
OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES:
NOVEMBER 8, 1994**

| County | Registered voters | | | Votes cast | |
|-------------------|-------------------|--------|--------|------------|------------------------|
| | Both sexes | Male | Female | Number | Percent of reg. voters |
| State total | 75,766 | 34,462 | 41,304 | 55,424 | 73.2 |
| Hawaii | 11,799 | 5,284 | 6,515 | 8,738 | 74.1 |
| Maui | 7,852 | 3,526 | 4,326 | 5,942 | 75.7 |
| Honolulu | 51,765 | 23,591 | 28,174 | 37,368 | 72.2 |
| Kauai | 4,350 | 2,061 | 2,289 | 3,376 | 77.6 |

Source: Office of the Lieutenant Governor, records.

Table 8.16-- CAMPAIGN EXPENDITURES: 1992 ELECTIONS

[Dollars. Table excludes national races. No report covering the 1994 elections is to be published]

| Election and office | All candidates | Democrats | Republicans | All others |
|------------------------------|----------------|-----------|-------------|------------|
| Total..... | 10,621,835 | 7,121,201 | 3,258,744 | 241,890 |
| Election: | | | | |
| Primary..... | 5,541,266 | 4,452,337 | 1,027,952 | 60,978 |
| General..... | 4,357,777 | 2,065,221 | 2,126,734 | 165,821 |
| Supplemental..... | 722,792 | 603,643 | 104,058 | 15,091 |
| Office: | | | | |
| State Senator..... | 1,695,057 | 1,371,720 | 307,166 | 16,171 |
| State Representative..... | 2,704,456 | 2,219,566 | 459,120 | 25,770 |
| Mayor..... | 4,600,915 | 2,286,098 | 2,281,408 | 33,408 |
| Council member..... | 1,477,081 | 1,243,817 | 211,050 | 22,214 |
| Board of Education..... | 43,935 | - | - | 43,935 |
| Office of Haw'n Affairs..... | 100,392 | - | - | 100,392 |

Source: Hawaii State Campaign Spending Commission, *Commission's Report of Campaign Receipts and Expenditures for the 1992 Elections*, p. 3.

**Table 8.17-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU:
1983 TO 1995**

| Year | Number of boards | | Board seats elected | Ballots mailed | Voters (ballots cast) |
|-----------|-----------------------|-------------------|---------------------|----------------|-----------------------|
| | In operation, Dec. 31 | Holding elections | | | |
| 1983..... | 28 | 28 | 416 | 231,622 | 61,425 |
| 1985..... | 30 | 30 | 438 | 255,045 | 74,583 |
| 1987..... | 30 | 30 | 438 | 260,155 | 83,072 |
| 1989..... | 30 | 30 | 438 | 273,954 | 91,285 |
| 1991..... | 30 | 30 | 438 | 260,923 | 85,457 |
| 1993..... | 30 | 30 | 444 | 279,392 | 97,476 |
| 1995..... | 31 | 31 | 447 | 281,437 | 85,597 |

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

**Table 8.18-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE:
1985 TO 1995**

| Regular session | House of Representatives | | | | Senate | | | |
|-----------------|--------------------------|-----------|-------------|-------|--------|-----------|-------------|-------|
| | Total | Democrats | Republicans | Other | Total | Democrats | Republicans | Other |
| 1985..... | 51 | 40 | 11 | - | 25 | 21 | 4 | - |
| 1987..... | 51 | 40 | 11 | - | 25 | 20 | 5 | - |
| 1989..... | 51 | 45 | 6 | - | 25 | 22 | 3 | - |
| 1991..... | 51 | 45 | 6 | - | 25 | 22 | 3 | - |
| 1993..... | 51 | 47 | 4 | - | 25 | 22 | 3 | - |
| 1995..... | 51 | 44 | 7 | - | 25 | 23 | 2 | - |

Source: Office of the Lieutenant Governor, records.

Table 8.19-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1993 AND 1995

[As of January]

| County | Total seats | Democrats | | Republicans | | Hawaii Green | | Nonpartisan | |
|---------------|-------------|-----------|------|-------------|------|--------------|------|-------------|------|
| | | 1993 | 1995 | 1993 | 1995 | 1993 | 1995 | 1993 | 1995 |
| All counties | 34 | 30 | 17 | 3 | 7 | 1 | 1 | - | 9 |
| Hawaii..... | 9 | 6 | 4 | 2 | 4 | 1 | 1 | - | - |
| Maui..... | 9 | 9 | 7 | - | 2 | - | - | - | - |
| Honolulu..... | 9 | 8 | - | 1 | - | - | - | - | 9 |
| Kauai..... | 7 | 7 | 6 | - | 1 | - | - | - | - |

Source: Office of the Lieutenant Governor, records.

**Table 8.20-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION:
1993 TO 1995**

| Action | 1993 | | 1994: Regular | 1995 | |
|---------------------------------------|---------|---------|------------------|---------|---------|
| | Regular | Special | | Regular | Special |
| House bills: | | | | | |
| Carried over from previous year ... | - | - | 1,908 | - | - |
| Introduced | 2,158 | 10 | 1,592 | 2,354 | 22 |
| Passed <u>1/</u> | 250 | 7 | 211 | 175 | 20 |
| Vetoed..... | 10 | - | 7 | 39 | - |
| Became law | 240 | 7 | 204 | 136 | 20 |
| Senate bills: | | | | | |
| Carried over from previous year ... | - | - | 1,795 | - | - |
| Introduced | 1,928 | 5 | 1,330 | 1,951 | 15 |
| Passed <u>1/</u> | 133 | 1 | 92 | 152 | 15 |
| Vetoed..... | 8 | - | 9 | 44 | 1 |
| Became law | 125 | 1 | 79 | 107 | 14 |
| House resolutions: | | | | | |
| Offered..... | 461 | 8 | 426 | 340 | 2 |
| Adopted..... | 122 | 7 | 144 | 138 | 2 |
| House concurrent resolutions: | | | | | |
| Offered | 489 | 1 | 490 | 342 | - |
| Adopted..... | 62 | - | 59 | 54 | - |
| Senate resolutions: | | | | | |
| Offered..... | 246 | 5 | 245 | 266 | 3 |
| Adopted..... | 117 | 3 | 116 | 118 | 3 |
| Senate concurrent resolutions: | | | | | |
| Offered..... | 260 | 1 | 290 | 309 | - |
| Adopted..... | 17 | - | 38 | 52 | - |

1/ Includes bills for constitution amendments: H.B. 2692, H.B. 3657, S.B. 2182, S.B. 2294, S.B. 2513, and S.B. 2515 in 1994.

Source: Legislative Reference Bureau, records.

Table 8.21-- LENGTH OF LEGISLATIVE SESSIONS: 1990 TO 1995

| Year | Regular sessions | | Special sessions | |
|-----------|------------------|------------------|------------------|------------------|
| | Date convened | Length <u>1/</u> | Date convened | Length <u>1/</u> |
| 1990..... | Jan. 17 | 108 | None | - |
| 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 | June 5 | 5 |

1/ Calendar days, including Saturdays, Sundays, holidays, and mandatory five-day recess required by Art. III, sec. 10, of the Hawaii Constitution.

Source: Legislative Reference Bureau, records.

Section 9

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and county governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and county governments in fiscal 1993 reached \$8.0 billion. The 1993 total included \$4.5 billion in U.S. taxes, \$2.8 billion in State taxes, and \$715 million in county taxes, licenses and fees. Individual income taxes accounted for 89 percent of Federal collections and 33 percent of State collections in Hawaii in 1993. State revenue receipts totaled \$4.9 billion, chiefly from the general excise and use tax (\$1.3 billion), individual income tax (\$923 million) and Federal grants-in-aid (\$906 million). The largest expenditure item in the State accounts for 1993 was education, with \$1.4 billion (out of \$5.4 billion) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax and departmental earnings for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed gross valuation of the State doubled between 1988 and 1995, reaching \$136 billion by the end of the period; the 1995 total excludes \$21 billion in government property but includes \$18 billion in private property exempt from taxation. Public bonded debt outstanding at the end of 1993 stood at \$6.9 billion.

Total government employment in 1994 averaged 112,000, about 26 percent over the 1980 average. The 1994 total included 31,000 Federal workers, 65,000 persons employed by the State, and 16,000 persons on county payrolls. State civil service employees as of mid-1994 numbered 27,000.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, *Government in Hawaii: A Handbook of Financial Statistics*. Data extending back to the middle of the 19th century are summarized in *Historical Statistics of Hawaii*, Section 25. Comparable Mainland statistics appear in the *Statistical Abstract of the United States: 1995*, Sections 9 and 10.

**Table 9.01-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS:
1980 TO 1993**

[Thousands of dollars]

| Year | All levels | Federal <u>1/</u> | State and counties <u>2/</u> | | |
|-----------|------------|-------------------|------------------------------|-----------|----------|
| | | | 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..... | 7,976,111 | 4,542,943 | 3,432,983 | 2,772,322 | 660,662 |
| 1993..... | 8,032,687 | 4,489,142 | 3,543,545 | 2,829,044 | 714,501 |

1/ Fiscal years ended September 30.

2/ Fiscal years ended June 30. Totals include taxes collected from visitors and other nonresidents.

Source: Tax Foundation of Hawaii, *Government in Hawaii: A Handbook of Financial Statistics* (annual), and preliminary release of 1993 data.

Table 9.02-- TAX COLLECTIONS RELATIVE TO POPULATION AND PERSONAL INCOME, BY LEVEL OF GOVERNMENT: 1980 TO 1993

[Data include taxes collected in Hawaii from visitors and other nonresidents. Revised from *Data Book 1992*, table 275]

| Year | Per capita collections <u>1/</u> (dollars) | | | Collections as a percent of personal income <u>2/</u> | | |
|------------|---|-------------------|---------------------------------|--|-------------------|---------------------------------|
| | All levels | Federal <u>3/</u> | State and counties <u>4/</u> | All levels | Federal <u>3/</u> | State and counties <u>4/</u> |
| 1980 | 3,063 | 1,725 | 1,338 | 28.4 | 16.0 | 12.4 |
| 1985 | 3,773 | 2,036 | 1,737 | 26.2 | 14.1 | 12.1 |
| 1990 | 6,481 | 3,832 | 2,650 | 31.7 | 18.7 | 13.0 |
| 1993 | 6,892 | 3,852 | 3,040 | 29.2 | 16.3 | 12.9 |

1/ Based on estimated resident population, July 1.

2/ Based on income estimates for calendar years.

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

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

Source: Calculated from collections data in preceding table, population estimates in table 1.03, and income estimates in table 13.04.

Table 9.03-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1983, 1992, AND 1993

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

| Source | 1983 | 1992 | 1993 |
|---|-----------|-----------|-----------|
| Total, all levels | 3,451,664 | 7,975,926 | 8,032,687 |
| Federal collections | 1,897,858 | 4,542,943 | 4,489,142 |
| Indiv. income and employment <u>1/</u> | 1,681,194 | 3,980,629 | 3,988,549 |
| Corp. income and excess profits | 154,871 | 412,280 | 339,372 |
| Excise | 24,456 | 64,171 | 63,151 |
| Estate..... | 22,830 | 61,095 | 71,433 |
| Gift..... | 1,320 | 2,283 | 5,517 |
| Unemployment insurance..... | 13,181 | 22,485 | 21,120 |
| State collections | 1,225,010 | 2,772,322 | 2,829,044 |
| General excise and use..... | 601,486 | 1,295,431 | 1,303,584 |
| Transient accommodations <u>2/</u> | - | 79,982 | 80,317 |
| Fuel..... | 53,636 | 128,275 | 130,450 |
| Liquor..... | 9,299 | 41,492 | 39,349 |
| Tobacco | 17,609 | 27,384 | 32,239 |
| Insurance | 26,356 | 60,382 | 66,869 |
| Public service companies..... | 66,395 | 82,255 | 86,229 |
| Corporate income <u>3/</u> | 24,467 | 43,781 | 29,344 |
| Indiv. income, net income <u>4/</u> | 347,016 | 906,982 | 922,912 |
| Inheritance and estate | 6,416 | 16,416 | 11,771 |
| Rental vehicle surcharge | - | 6,482 | 20,248 |
| Unemployment compensation | 67,625 | 44,719 | 65,633 |
| Other sources..... | 4,707 | 38,740 | 40,101 |
| County collections | 328,796 | 660,662 | 714,501 |
| Real property | 274,920 | 556,460 | 603,821 |
| Utility franchise | 18,444 | 20,938 | 21,194 |
| Motor vehicle weight <u>5/</u> | 24,835 | 63,637 | 63,046 |
| Other sources..... | 10,597 | 19,627 | 26,439 |

1/ Includes withholding, FICA, and individual income taxes.

2/ Effective January 1, 1987.

3/ Includes payments of estimated taxes less refunds.

4/ Includes withheld and estimated taxes less refunds.

5/ Includes State motor vehicle weight tax.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1993*, tables 13 and 29, and preliminary release of 1983-1993 data.

Table 9.04-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1972, 1990 AND 1992

[In dollars. For underlying assumptions, see source]

| Subject | 1972 | 1990 | 1992 |
|---------------------------------|--------|--------|--------|
| Total tax burden | 5,862 | 25,817 | 30,156 |
| Federal income | 2,441 | 10,425 | 12,167 |
| State income | 837 | 4,073 | 5,097 |
| Social Security | 774 | 4,433 | 5,170 |
| General excise | 329 | 1,494 | 1,692 |
| Real property | 421 | 979 | 1,259 |
| Employment <u>1/</u> | 670 | 3,764 | 4,033 |
| Specific excise <u>2/</u> | 103 | 204 | 221 |
| Automobile | 287 | 445 | 517 |
| Gross family income..... | 18,952 | 73,888 | 84,760 |
| After taxes..... | 13,090 | 48,071 | 54,604 |

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

2/ Alcohol, tobacco, telephone, and bicycle.

Source: Tax Foundation of Hawaii, *The Tax Burden of the Arnie Aloha Family* (November 1973, September 1991, and March 1994).

Table 9.05-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF FOUR, BY INCOME LEVEL, FOR HONOLULU AND 51 MAJOR CITIES: 1992

| Gross family income level | Honolulu | | 51-city median <u>1/</u> | |
|---------------------------|-----------------|-------------------|--------------------------|-------------------|
| | Taxes (dollars) | Percent of income | Taxes (dollars) | Percent of income |
| \$25,000 | 1,853 | 7.4 | 1,970 | 7.9 |
| \$50,000 | 4,306 | 8.6 | 4,306 | 8.6 |
| \$75,000 | 7,272 | 9.7 | 7,253 | 9.7 |
| \$100,000 | 9,921 | 9.9 | 9,921 | 9.9 |

1/ Largest city in each state, including D.C.

Source: Data from D.C. Department of Finance and Revenue, cited in *Statistical Abstract of the United States: 1995*, p. 313.

Table 9.06-- STATE REVENUE RECEIPTS: 1992 AND 1993

[In thousands of dollars. Years ended June 30]

| Source of revenues | 1992: all funds | 1993 | | |
|--|-----------------|-----------|---------------|---------------|
| | | All funds | General funds | Special funds |
| Total <u>1/</u> | 4,599,989 | 4,943,597 | 2,787,216 | 2,156,381 |
| Tax revenues | 2,635,951 | 2,727,431 | 2,529,000 | 198,431 |
| General excise | 1,287,225 | 1,298,134 | 1,298,134 | - |
| Specific excises <u>2/</u> | 318,049 | 355,960 | 225,691 | 130,269 |
| Individual income | 889,532 | 923,372 | 923,372 | - |
| Corporate income..... | 37,514 | 27,201 | 27,201 | - |
| Transient accommodations | 4,205 | 4,192 | 4,192 | - |
| Unemployment compensation ... | 43,661 | 62,687 | - | 62,687 |
| Other taxes, licenses, permits <u>3/</u> | 55,765 | 55,885 | 50,410 | 5,475 |
| Fines, forfeits, and escheats..... | 22,911 | 18,556 | 16,717 | 1,839 |
| Federal grants-in-aid | 775,253 | 906,283 | 5,749 | 900,534 |
| Revenues from other agencies..... | 20,871 | 23,676 | 5,250 | 18,426 |
| Rents, royalties, land income <u>4/</u> | 83,459 | 93,644 | 4,956 | 88,688 |
| Earnings: general departments..... | 362,428 | 447,078 | 118,855 | 328,223 |
| Earnings: auxiliary enter..... | 45,127 | 48,354 | - | 48,354 |
| Earnings: public service enter..... | 324,777 | 394,990 | - | 394,990 |
| Interest earned | 253,404 | 182,828 | 70,083 | 112,745 |
| Miscellaneous..... | 75,808 | 100,757 | 36,606 | 64,151 |

1/ Excludes transfers and repayments except as shown.

2/ Includes public service companies, tobacco, liquor, insurance, vehicle registration and weight, and fuel taxes.

3/ Includes franchise, inheritance and estate, and conveyance taxes.

4/ Includes investment and unallocable interest income.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1994*, table 12 (preliminary).

**Table 9.07-- STATE OPERATING EXPENDITURES, BY FUNCTION:
1983, 1992, AND 1993**

[In thousands of dollars. For years ended June 30. Data include general, special, and proprietary fund expenditures; unemployment trust fund treated as a special fund. Interfund transfers eliminated to avoid duplication]

| Functions | 1983 | 1992 | 1993 |
|---|-----------|-----------|-----------|
| Total | 2,190,629 | 5,258,658 | 5,354,055 |
| General government: Control | 42,160 | 106,266 | 112,319 |
| Staff..... | 73,693 | 331,926 | 335,287 |
| Public safety: Police and fire | 2,340 | 7,222 | 7,818 |
| Other protection..... | 69,710 | 151,290 | 169,237 |
| Highways..... | 57,207 | 114,516 | 109,089 |
| Natural resources | 28,404 | 40,363 | 43,042 |
| Health and sanitation..... | 72,270 | 171,209 | 193,085 |
| Hospitals and institutions | 96,335 | 271,018 | 282,110 |
| Public welfare..... | 328,323 | 657,728 | 777,641 |
| Education: Higher..... | 261,097 | 514,353 | 543,873 |
| Public education..... | 406,370 | 770,671 | 804,471 |
| Libraries and other | 22,753 | 48,894 | 51,098 |
| Recreation..... | 13,885 | 40,118 | 42,256 |
| Utilities and other enterprises | 76,856 | 265,340 | 312,462 |
| Debt service <u>1/</u> | 199,213 | 427,656 | 436,795 |
| Retirement and pension..... | 123,423 | 163,137 | 219,055 |
| Employees' health and hosp. insurance <u>2/</u> ... | 21,117 | 1,076 | 744 |
| Unemployment compensation | 90,207 | 134,692 | 236,598 |
| Grants-in-aid to counties..... | 18,173 | 825 | 1,725 |
| Urban redevelopment and housing | 151,535 | 416,931 | 108,174 |
| Miscellaneous..... | 23,696 | 94,915 | 117,342 |
| Cash capital improvements | 11,861 | 528,513 | 449,834 |

1/ Debt service on revenue bonds reimbursable from highway funds included under Highways; from airport and harbor funds under Utilities; from Sand Island receipts, land revolving trust, and Veterans' home loan funds under Miscellaneous.

2/ Reclassified into general government in fiscal 1984.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1993*, table 35, and preliminary release for 1993.

Table 9.08-- COUNTY OPERATING REVENUES, BY SOURCE, AND COUNTY OPERATING EXPENDITURES, BY OBJECT, FOR ALL COUNTIES COMBINED: 1983, 1992, AND 1993

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

| Subject | 1983 | 1992 | 1993 |
|---|---------|-----------|-----------|
| OPERATING REVENUES <u>1/</u> | | | |
| Total..... | 540,965 | 1,103,919 | 1,216,295 |
| Real property taxes | 274,920 | 556,460 | 603,821 |
| Other taxes | 54,230 | 106,525 | 104,619 |
| Licenses, fees, and fines | 13,574 | 26,871 | 31,132 |
| Departmental earnings <u>2/</u> | 65,177 | 172,784 | 169,609 |
| State grants..... | 28,135 | 101,015 | 98,300 |
| Federal grants | 82,631 | 66,921 | 125,040 |
| Other sources..... | 22,299 | 73,342 | 83,773 |
| OPERATING EXPENDITURES <u>3/</u> | | | |
| Total..... | 512,146 | 1,028,104 | 1,197,883 |
| General government: Control | 8,162 | 12,397 | 14,542 |
| Staff..... | 52,993 | 110,141 | 151,532 |
| Public safety: Police and fire..... | 117,501 | 222,224 | 236,371 |
| Other protection | 19,789 | 37,730 | 37,907 |
| Highways..... | 29,229 | 42,074 | 43,458 |
| Health and sanitation..... | 44,051 | 109,416 | 131,851 |
| Public welfare..... | 5,680 | 25,794 | 35,907 |
| Public schools | 575 | 592 | 572 |
| Recreation..... | 38,055 | 70,248 | 76,602 |
| Interest..... | 21,682 | 77,397 | 79,641 |
| Bond redemption | 17,961 | 40,934 | 51,390 |
| Pension and retirement | 45,544 | 49,242 | 82,566 |
| Salary adjustment..... | - | 48 | 47 |
| Economic and urban development | 17,680 | 19,721 | 25,358 |
| Mass transit..... | 41,252 | 72,375 | 83,290 |
| Miscellaneous..... | 27,994 | 82,074 | 88,819 |
| Cash capital improvements | 23,999 | 55,697 | 58,029 |

Footnote and source follow next table.

Table 9.09-- COUNTY OPERATING REVENUES, BY SOURCE, AND COUNTY OPERATING EXPENDITURES, BY OBJECT, BY COUNTIES: 1993

[In thousands of dollars. For year ended June 30, 1993]

| Subject | City and Co. of Honolulu | County of Maui | County of Hawaii | County of Kauai |
|--|--------------------------|----------------|------------------|-----------------|
| OPERATING REVENUES <u>1/</u> | | | | |
| Total..... | 830,781 | 134,988 | 138,782 | 111,744 |
| Real property taxes..... | 419,092 | 72,546 | 79,000 | 33,183 |
| Other taxes..... | 79,256 | 9,901 | 10,275 | 5,188 |
| Licenses, fees, and fines..... | 22,266 | 3,744 | 4,088 | 1,034 |
| Departmental earnings <u>2/</u> | 138,668 | 18,293 | 6,333 | 6,315 |
| State grants..... | 37,898 | 21,626 | 25,117 | 13,659 |
| Federal grants..... | 58,039 | 5,583 | 10,234 | 51,183 |
| Other sources..... | 75,562 | 3,293 | 3,735 | 1,182 |
| OPERATING EXPENDITURES <u>3/</u> | | | | |
| Total..... | 809,659 | 139,995 | 136,372 | 111,857 |
| General government: Control..... | 8,219 | 2,216 | 2,257 | 1,850 |
| Staff..... | 83,099 | 9,139 | 13,739 | 45,554 |
| Public safety: Police and fire..... | 160,029 | 26,355 | 38,681 | 11,307 |
| Other protection..... | 21,009 | 4,654 | 10,069 | 2,175 |
| Highways..... | 26,498 | 9,467 | 4,942 | 2,551 |
| Health and sanitation..... | 107,080 | 14,346 | 6,898 | 3,526 |
| Public welfare..... | - | 14,713 | 11,706 | 9,489 |
| Public schools..... | - | 197 | 280 | 95 |
| Recreation..... | 54,310 | 8,435 | 10,285 | 3,573 |
| Interest..... | 63,297 | 6,839 | 5,936 | 3,568 |
| Bond redemption..... | 42,016 | 2,446 | 3,992 | 2,935 |
| Pension and retirement..... | 57,693 | 9,102 | 11,306 | 4,466 |
| Salary adjustment..... | - | - | - | 47 |
| Economic and urban development <u>4/</u> | 25,358 | - | - | - |
| Mass transit <u>5/</u> | 79,640 | - | 3,650 | - |
| Miscellaneous..... | 57,741 | 9,691 | 11,227 | 10,160 |
| Cash capital improvements..... | 23,670 | 22,394 | 1,404 | 10,560 |

1/ Excludes loan, bond, revolving, trust funds, and Board of Water Supply revenues.

2/ Includes rentals, interest, and other earnings.

3/ All funds expended by the county with the exception of certain bond, revolving, loan, and enterprise funds.

4/ Includes expenditures from redevelopment grants.

5/ Includes transfers to the bus transportation fund which are not reported as part of operating expenditures.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1993*, tables 24-27 and 36-39.

Table 9.10-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1980 TO 1993

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

1/ Exemptions for age or blindness excluded through 1981 and included thereafter.

Source: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income. Individual Income Tax Returns* (annual); *SOI Bulletin*, Summer 1985, p. 93, Winter 1985-86, p. 97, Winter 1986-87, p. 83, Fall 1990, pp. 11-57, Winter 1990-91, p. 58, Spring 1992, p. 90, Spring 1993, p. 148, Fall 1994, p. 148, Spring 1995, p. 132, and records.

Table 9.11-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1992 AND 1993

| Tax year ^{1/} and size of adjusted gross income | Number of returns | Adjusted gross income less deficit (\$1,000) | Total income tax liability | | |
|--|-------------------|--|----------------------------|------------------|-------------------|
| | | | Number of returns | Amount (\$1,000) | Average (dollars) |
| 1992 | | | | | |
| All returns..... | 569,334 | 18,398,690 | 483,020 | 2,471,607 | 5,117 |
| Under \$15,000 ^{2/} | 200,387 | 1,010,132 | 118,577 | 72,491 | 611 |
| \$15,000 under \$30,000.... | 153,208 | 3,344,521 | 149,489 | 297,950 | 1,993 |
| \$30,000 under \$50,000.... | 106,659 | 4,163,518 | 106,077 | 465,223 | 4,386 |
| \$50,000 under \$75,000.... | 65,433 | 3,968,807 | 65,276 | 499,288 | 7,649 |
| \$75,000 under \$100,000.. | 24,732 | 2,108,212 | 24,707 | 314,028 | 12,710 |
| \$100,000 under \$200,000 | 14,712 | 1,910,698 | 14,697 | 357,333 | 24,313 |
| \$200,000 or more..... | 4,203 | 1,892,802 | 4,197 | 465,295 | 110,864 |
| Median income..... | 23,252 | ... | ... | ... | ... |
| 1993 | | | | | |
| All returns..... | 556,041 | 18,519,252 | 479,444 | 2,506,998 | 5,229 |
| Under \$15,000 ^{2/} | 184,798 | 948,179 | 113,021 | 69,046 | 616 |
| \$15,000 under \$30,000.... | 152,040 | 3,322,243 | 147,951 | 289,107 | 1,954 |
| \$30,000 under \$50,000.... | 107,290 | 4,189,701 | 106,698 | 460,957 | 4,320 |
| \$50,000 under \$75,000.... | 66,296 | 4,025,136 | 66,192 | 498,066 | 7,525 |
| \$75,000 under \$100,000.. | 25,859 | 2,204,034 | 25,842 | 321,993 | 12,460 |
| \$100,000 under \$200,000 | 15,679 | 2,027,984 | 15,664 | 375,179 | 23,952 |
| \$200,000 or more..... | 4,079 | 1,801,975 | 4,076 | 492,650 | 120,866 |
| Median income..... | 24,197 | ... | ... | ... | ... |

^{1/} Filed in following year.

^{2/} Includes returns with adjusted gross deficit.

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin*, Fall 1994, p. 148, and Spring 1995, p. 132.

Table 9.12-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1992 AND 1993

| Subject | Number of returns | | Amount (\$1,000) | |
|--|-------------------|---------|------------------|------------|
| | 1992 | 1993 | 1992 | 1993 |
| All returns and adjusted gross income (AGI) .. | 569,334 | 556,041 | 18,398,690 | 18,519,252 |
| Salaries and wages..... | 477,557 | 474,647 | 14,174,357 | 14,397,486 |
| Interest income..... | 400,625 | 385,896 | 755,517 | 579,216 |
| Dividends | 119,955 | 124,184 | 325,698 | 335,762 |
| Net capital gain (less loss) | 57,262 | 60,976 | 547,399 | 629,945 |
| Taxable pensions and annuities..... | 89,556 | 87,875 | 1,186,795 | 1,217,301 |
| Unemployment compensation..... | 35,275 | 39,622 | 113,268 | 152,246 |
| Itemized deductions..... | 173,584 | 175,575 | 3,000,693 | 2,963,834 |
| Taxable income..... | 474,145 | 469,695 | 12,121,549 | 12,126,956 |
| Tax liability | 483,020 | 479,444 | 2,471,607 | 2,506,996 |
| Earned income credit..... | 37,486 | 39,586 | 31,185 | 35,792 |

Source: U.S. Treasury Department, Internal Revenue Service, *SOI Bulletin*, Fall 1994, p. 148, and Spring 1995, p. 132.

Table 9.13-- INTERNAL REVENUE SERVICE OPERATIONS: 1991 TO 1993

| Subject | 1991 | 1992 | 1993 |
|---|-----------|-----------|-----------|
| Internal revenue collections (\$1,000) | 4,570,534 | 4,542,943 | 4,489,142 |
| Individual income and employment taxes..... | 3,972,434 | 4,003,114 | 4,009,669 |
| Total returns filed..... | 988,225 | 1,000,625 | 1,018,633 |
| Individual income tax..... | 550,180 | 563,865 | 658,089 |
| Returns examined | 3,027 | 3,627 | 3,930 |
| Individual..... | 1,980 | 2,283 | 2,667 |
| Additional tax and penalties recommended after examination (\$1,000)..... | 56,294 | 59,773 | 88,674 |
| Individual..... | 11,310 | 19,975 | 17,938 |
| Costs incurred (\$1,000)..... | 13,392 | 14,079 | 14,758 |

Source: Internal Revenue Service, *Annual Report*, 1991, 1992, and 1993.

**Table 9.14-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS:
TAX YEARS 1982 TO 1992**

| Year income was received | Number of resident returns | Adjusted gross income ^{1/} (\$1,000) | Net taxable income (\$1,000) | Tax liability (\$1,000) |
|--------------------------|----------------------------|---|------------------------------|-------------------------|
| 1982..... | 422,535 | 6,912,014 | 4,469,031 | 339,108 |
| 1983..... | 424,194 | 7,088,769 | 4,695,499 | 360,551 |
| 1984..... | 422,245 | 7,604,199 | 4,980,484 | 387,300 |
| 1985..... | 427,572 | 8,060,406 | 5,284,942 | 415,544 |
| 1986..... | 426,532 | 8,370,257 | 5,493,138 | 437,263 |
| 1987..... | 468,363 | 10,147,149 | 7,170,035 | 556,135 |
| 1988..... | 483,913 | 11,504,190 | 8,387,106 | 658,879 |
| 1989..... | 510,512 | 13,091,785 | 9,540,367 | 729,649 |
| 1990..... | 520,785 | 13,958,079 | 10,260,825 | 794,478 |
| 1991..... | 527,993 | 14,648,266 | 10,745,622 | 840,485 |
| 1992..... | 531,758 | 15,284,606 | 11,117,647 | 877,623 |

^{1/} Exclusive of losses.

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

Table 9.15-- STATE INCOME TAX RATIOS: 1982, 1987, 1991, AND 1992

| Ratio | 1982 | 1987 | 1991 | 1992 |
|--|--------|--------|--------|--------|
| Adjusted gross income per return (dollars) | 16,358 | 21,665 | 27,743 | 28,744 |
| Tax liability per return (dollars) | 803 | 1,187 | 1,592 | 1,650 |
| Tax liability as percent of AGI..... | 4.9 | 5.5 | 5.7 | 5.7 |

Source: Preceding table.

Table 9.16-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1992, BY ADJUSTED GROSS INCOME CLASS

| Adjusted gross income class | Number of returns | Adjusted gross income ^{1/} (dollars) | Net taxable income (dollars) | Tax liability (dollars) |
|----------------------------------|-------------------|---|------------------------------|-------------------------|
| All resident returns | 531,758 | 15,284,606,447 | 11,117,646,987 | 877,622,942 |
| Taxable resident returns | 431,782 | 15,061,889,842 | 11,117,646,987 | 877,622,942 |
| Under \$5,000..... | 37,932 | 117,700,298 | 45,765,338 | 1,182,981 |
| \$5,000, under \$10,000..... | 52,704 | 391,548,835 | 218,452,788 | 9,655,149 |
| \$10,000, under \$20,000..... | 95,319 | 1,439,831,654 | 1,023,410,562 | 64,053,156 |
| \$20,000, under \$30,000..... | 72,486 | 1,774,715,697 | 1,341,209,914 | 96,078,135 |
| \$30,000, under \$40,000..... | 46,998 | 1,637,514,222 | 1,228,710,118 | 92,848,540 |
| \$40,000, under \$50,000..... | 35,889 | 1,607,907,718 | 1,167,013,612 | 90,575,921 |
| \$50,000, under \$75,000..... | 54,360 | 3,304,777,399 | 2,370,477,082 | 191,017,193 |
| \$75,000, under \$100,000..... | 20,020 | 1,727,100,073 | 1,271,961,017 | 108,571,455 |
| \$100,000, under \$150,000..... | 9,915 | 1,163,438,992 | 881,608,060 | 78,065,463 |
| \$150,000, under \$200,000..... | 2,675 | 459,833,752 | 357,286,695 | 32,327,787 |
| \$200,000 and over..... | 3,484 | 1,437,521,202 | 1,211,751,801 | 113,247,162 |
| Nontaxable resident returns..... | 99,976 | 222,716,605 | ... | ... |
| Loss | 3,555 | (89,365,994) | ... | ... |
| Under \$5,000..... | 83,843 | 87,111,436 | ... | ... |
| \$5,000, under \$10,000..... | 8,053 | 54,130,460 | ... | ... |
| \$10,000 and over | 4,525 | 81,474,709 | ... | ... |

^{1/} Total and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Individuals, 1992* (forthcoming), table 1.

Table 9.17-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN, 1982 TO 1992, AND BY COUNTIES, 1992

[In dollars]

| Year income was received | Taxable and nontaxable returns | | | Taxable returns only | | |
|--------------------------|--------------------------------|--------|-----------------|----------------------|--------|-----------------|
| | All returns | Joint | Other <u>1/</u> | All returns | Joint | Other <u>1/</u> |
| 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 |
| COUNTIES: 1992 | | | | | | |
| Honolulu..... | 18,499 | 41,077 | 12,300 | 23,957 | 48,067 | 16,570 |
| Maui..... | 20,653 | 39,415 | 14,182 | 24,526 | 42,601 | 17,603 |
| Hawaii..... | 14,643 | 29,185 | 8,566 | 21,206 | 37,490 | 15,295 |
| Kauai..... | 15,717 | 29,498 | 11,362 | 20,173 | 37,015 | 13,993 |

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

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

**Table 9.18-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS:
1994 AND 1995**

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

| Source of revenue | Tax base | | Tax collections | |
|--|----------------|------------|-----------------|-----------|
| | 1994 <u>1/</u> | 1995 | 1994 <u>1/</u> | 1995 |
| All sources | 44,519,753 | 45,577,029 | 1,347,945 | 1,386,684 |
| Sources taxed at 4 percent | 31,067,603 | 31,614,089 | 1,242,704 | 1,264,564 |
| Retailing | 14,569,798 | 15,050,113 | 582,792 | 602,005 |
| Services | 5,270,844 | 5,351,079 | 210,834 | 214,043 |
| Contracting | 3,322,339 | 3,133,510 | 132,894 | 125,340 |
| Theater, amusement, radio | 238,195 | 233,843 | 9,528 | 9,354 |
| Interest | 186,230 | 209,127 | 7,449 | 8,365 |
| Commissions | 614,751 | 587,611 | 24,590 | 23,504 |
| Hotel rentals | 1,666,406 | 1,776,527 | 66,656 | 71,061 |
| All other rentals..... | 3,692,181 | 3,776,265 | 147,687 | 151,051 |
| Use (4 percent) | 484,236 | 461,210 | 19,369 | 18,448 |
| All others (4 percent) | 1,022,623 | 1,034,804 | 40,905 | 41,392 |
| Sources taxed at other rates <u>2/</u> ... | 13,452,150 | 13,962,940 | 64,762 | 67,331 |
| Insurance solicitors | 713,818 | 709,607 | 1,071 | 1,064 |
| Sugar processing | 29,543 | 32,868 | 148 | 164 |
| Pineapple canning | 8,345 | 6,603 | 42 | 33 |
| Producing | 467,174 | 457,538 | 2,336 | 2,288 |
| Manufacturing..... | 618,238 | 614,771 | 3,091 | 3,074 |
| Wholesaling..... | 7,622,366 | 7,808,103 | 38,112 | 39,041 |
| Services (intermediary)..... | 265,755 | 264,193 | 1,329 | 1,321 |
| Use (1/2 percent) | 3,726,912 | 4,069,256 | 18,635 | 20,346 |
| Unallocated net collections | - | - | 40,478 | 54,789 |

1/ Revised.

2/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

Source: Hawaii State Department of Taxation, *General Excise and Use Tax Base and General Excise and Use Tax Collections* (calendar year summary tables).

**Table 9.19-- TOBACCO TAX BASE, RATE, AND COLLECTIONS:
1994 AND 1995**

| Subject | 1994 | 1995 |
|--|---------------|---------------|
| Cigarettes: | | |
| Tax base (number sold) | 1,114,165,900 | 1,156,122,400 |
| Per capita (number sold) <u>1/</u> | 1,110 | (NA) |
| Tax rate (cents per cigarette) <u>2/</u> | 3.00 | 3.00 |
| Tax collections (dollars) | 33,424,978 | 34,683,672 |
| Other tobacco products: | | |
| Tax base (wholesale value, in dollars) | 7,007,482 | 6,912,930 |
| Per capita (wholesale value, in dollars) <u>1/</u> | 6.98 | (NA) |
| Tax rate (percent of wholesale value) <u>2/</u> | 40 | 40 |
| Tax collections (dollars) | 2,802,993 | 2,765,172 |

NA Not available.

1/ Based on DBEDT estimate of de facto population 16 years and over (1,003,600 in 1994).

2/ As set by Act 220, SLH 1993, effective July 1, 1993. Before that date, all tobacco products were taxed at 40 percent of wholesale value; see HRS, 1985 Replacement, section 245-3.

Source: Hawaii State Department of Taxation, "Tobacco Tax Collections and Licenses" (annual release).

**Table 9.20-- LIQUOR TAX COLLECTIONS, TOTAL AND PER CAPITA:
1989 TO 1995**

| Year | Total (\$1,000) | Per capita <u>1/</u> (dollars) | Year | Total (\$1,000) | Per capita <u>1/</u> (dollars) |
|-----------|--------------------|-----------------------------------|-----------|--------------------|-----------------------------------|
| 1989..... | 41,501 | 33.32 | 1993..... | 38,286 | 30.26 |
| 1990..... | 42,094 | 33.49 | 1994..... | 38,753 | 30.12 |
| 1991..... | 40,125 | 31.48 | 1995..... | 37,486 | (NA) |
| 1992..... | 40,983 | 32.29 | | | |

NA Not available.

1/ Based on de facto population.

Source: Hawaii State Department of Taxation, "Liquor Tax Collections and Permits" (semi-annual release).

**Table 9.21-- REAL PROPERTY TAX VALUATIONS: ANNUALLY,
1985 TO 1995**

[Thousands of dollars. As of January 1. Government parcels assessed at \$1, 1985-1987,
and at 100 percent thereafter]

| Year | Assessment ratio <u>1/</u> | Assessor's gross valuation | | | Valuation for tax rate purposes |
|----------------------|----------------------------|----------------------------|------------|-------------|---------------------------------|
| | | Total | Land | Improvement | |
| 1985..... | 100 | 51,231,020 | 25,507,708 | 25,723,312 | 43,581,421 |
| 1986..... | 100 | 52,814,463 | 26,442,872 | 26,371,591 | 45,222,885 |
| 1987..... | 100 | 54,655,038 | 27,396,477 | 27,258,561 | 46,629,959 |
| 1988..... | 100 | 67,628,063 | 36,730,370 | 30,897,693 | 50,219,249 |
| 1989..... | 100 | 76,926,745 | 42,778,927 | 34,147,818 | 57,526,564 |
| 1990..... | 100 | 99,942,540 | 61,554,968 | 38,387,572 | 71,080,524 |
| 1991..... | 100 | 132,952,299 | 88,359,248 | 44,593,051 | 95,943,417 |
| 1992 <u>2/</u> | 100 | 130,733,131 | 84,299,686 | 46,433,445 | 111,593,106 |
| 1993 <u>2/</u> | 100 | 136,239,310 | 87,785,946 | 48,453,364 | 115,954,097 |
| 1994 <u>2/</u> | 100 | 137,202,083 | 86,552,575 | 50,649,508 | 116,389,670 |
| 1995 <u>2/</u> | 100 | 136,153,769 | 84,102,966 | 52,050,803 | 115,115,001 |

1/ Percent of fair market value.

2/ Values shown for gross valuation exclude nontaxable properties (\$38,021,091,000 in 1992).

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

**Table 9.22-- REAL PROPERTY TAX VALUATIONS FOR THE STATE,
1992 TO 1995, AND BY COUNTIES, 1995**

[In thousands of dollars]

| Subject | 1992 | 1993 | 1994 | 1995 |
|---|-------------|-------------|-------------|-------------|
| Assessor's gross valuation <u>1/</u> | 130,733,131 | 136,239,310 | 137,202,083 | 136,153,769 |
| Land | 84,299,686 | 87,785,946 | 86,552,575 | 84,102,916 |
| Improvement | 46,433,445 | 48,453,364 | 50,649,508 | 52,050,803 |
| Exemptions <u>1/</u> | 16,627,450 | 17,065,762 | 18,028,152 | 18,089,945 |
| Assessor's net taxable valuation | 114,105,681 | 119,173,548 | 119,173,931 | 118,063,824 |
| Half of valuation on appeal | 2,512,575 | 3,219,451 | 2,784,261 | 2,948,823 |
| Number of appeals | 5,550 | 6,073 | 7,753 | 8,658 |
| Valuation for tax rate purposes | 111,593,106 | 115,954,097 | 116,389,670 | 115,115,001 |
| Land | 75,739,774 | 78,643,050 | 77,591,215 | 75,496,496 |
| Improvement | 35,853,332 | 37,311,047 | 38,798,455 | 39,618,505 |
| Amount to be raised by taxation <u>2/</u> ... | 609,266 | 632,442 | 620,751 | 605,004 |
| Subject | Honolulu | Maui | Hawaii | Kauai |
| Assessor's gross valuation <u>1/</u> | 102,089,909 | 15,270,859 | 12,730,478 | 6,062,523 |
| Land | 65,275,021 | 8,078,438 | 7,139,094 | 3,610,413 |
| Improvement | 36,814,888 | 7,192,421 | 5,591,384 | 2,452,110 |
| Exemptions <u>1/</u> | 14,012,412 | 1,380,737 | 1,881,278 | 815,518 |
| Assessor's net taxable valuation | 88,077,497 | 13,890,122 | 10,849,200 | 5,247,005 |
| Half of valuation on appeal | 2,324,230 | 283,165 | 237,610 | 103,818 |
| Number of appeals | 6,235 | 632 | 1,230 | 561 |
| Valuation for tax rate purposes | 85,753,267 | 13,606,957 | 10,611,590 | 5,143,187 |
| Land | 58,238,935 | 7,521,042 | 6,490,550 | 3,245,969 |
| Improvement | 27,514,332 | 6,085,915 | 4,121,040 | 1,897,218 |
| Amount to be raised by taxation <u>2/</u> ... | 411,893 | 73,747 | 89,293 | 30,071 |

1/ Data exclude nontaxable properties.

2/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1995-1996 Tax Year, State of Hawaii* (July 1995), and earlier reports.

Table 9.23-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 1995

| Type of exemption | Number | Amount <u>1/</u> (\$1,000) |
|--|---------|----------------------------|
| All exemptions | 216,067 | 39,776,382 |
| Federal government | 458 | 4,630,299 |
| State government | 7,307 | 11,597,953 |
| County government | 3,153 | 4,386,444 |
| Hawaiian Homes <u>2/</u> | 4,942 | 818,592 |
| Homes-fee (basic and multiple) | 166,953 | 11,092,548 |
| Homes-lease (basic and multiple) | 14,037 | 901,974 |
| Charitable organizations | 846 | 959,078 |
| Churches | 1,431 | 1,375,304 |
| Hospitals | 81 | 504,873 |
| Low-moderate income housing | 1,100 | 870,165 |
| Public utilities | 794 | 816,240 |
| Schools | 145 | 779,979 |
| All others | 14,820 | 1,042,933 |

1/ Includes government parcels at actual value and exemptions on federal leases, if any.

2/ Hawaiian Homes Commission and Hawaiian Homes Land (basic, multiple, total land, 7-year, and vacant land).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates & Exemptions, 1995-1996 Tax Year, State of Hawaii* (July 1995).

**Table 9.24-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES:
1995**

[In thousands of dollars]

| Land use class | Gross valuation, January 1, 1995 ^{1/} | | | Amounts to be raised by taxation, fiscal 1995-96 |
|--------------------------------------|--|------------|-------------|--|
| | Total | Land | Improvement | |
| All classes..... | 136,153,769 | 84,102,966 | 52,050,803 | 605,004 |
| Improved residential ^{2/} . | 54,889,810 | 40,325,284 | 14,564,526 | 163,897 |
| Apartment | 27,164,768 | 10,197,249 | 16,967,519 | 95,702 |
| Commercial..... | 15,718,652 | 9,840,050 | 5,878,602 | 110,134 |
| Industrial | 7,590,947 | 5,422,004 | 2,168,943 | 59,446 |
| Agricultural | 5,493,241 | 4,024,130 | 1,469,111 | 41,385 |
| Conservation | 1,243,223 | 1,099,526 | 143,697 | 9,023 |
| Hotel/resort..... | 10,642,488 | 4,954,980 | 5,687,508 | 85,180 |
| Unimproved residential ^{2/} | 2,596,657 | 2,339,647 | 257,010 | 9,501 |
| Homeowner ^{3/} | 7,421,459 | 3,760,782 | 3,660,677 | 19,185 |
| Single family ^{4/} | 1,705,761 | 1,190,371 | 515,390 | 7,360 |
| Homestead ^{4/} | 1,686,763 | 948,943 | 737,820 | 4,191 |

^{1/} Excludes nontaxable properties.

^{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, 1995-1996 Tax Year, State of Hawaii* (July 1995).

Table 9.25-- MAJOR REAL PROPERTY TAXPAYERS, FOR THE CITY AND COUNTY OF HONOLULU: 1994

| Taxpayer | Original debit <u>1/</u> (\$1,000) | Land area (acres) | Gross assessed value <u>2/</u> (\$1,000) |
|---------------------------------------|---------------------------------------|----------------------|--|
| Top 20 real property taxpayers | 101,540 | 68,285 | 15,741,002 |
| Bishop Estate | 22,954 | 24,696 | 5,480,905 |
| Queen's Medical Center et al..... | 9,918 | 2,205 | 1,327,597 |
| Kyo-Ya Co., Ltd..... | 6,729 | 14 | 700,137 |
| Hilton Hawaiian Village Jt. Vent..... | 6,662 | 19 | 691,108 |
| James Campbell Trust Estate..... | 5,879 | 17,435 | 869,498 |
| Samuel M. Damon Trust Estate..... | 5,862 | 3,973 | 707,074 |
| Liliuokalani Trust | 5,615 | 36 | 832,064 |
| Dole Food Co. | 3,529 | 17,106 | 548,987 |

1/ As of July 1, 1994.

2/ Land and improvements. As of January 1, 1994.

Source: City and County of Honolulu, Real Property Assessment Division, Administration/Technical Branch, records.

Table 9.26-- RESIDENTIAL PROPERTY TAX RATES IN HONOLULU AND 51 MAJOR CITIES: 1991 AND 1992

| Subject | Effective tax rate per \$100 <u>1/</u> | |
|-----------------------------|--|------|
| | 1991 | 1992 |
| Median city <u>2/</u> | 1.47 | 1.49 |
| Honolulu..... | 0.37 | 0.30 |
| Rank..... | 51 | 51 |

1/ Adjusted to 100-percent assessment level. The Honolulu level in 1992 was 84.3 percent.

2/ Largest city in each state, including D.C.

Source: Data from D.C. Department of Finance and Revenue cited in *Statistical Abstract of the United States* for 1993 (p. 316) and 1995 (p. 313).

**Table 9.27-- REAL PROPERTY TAX RATES, BY COUNTIES:
FISCAL YEAR 1995-1996**

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

| Land use class | Honolulu | Maui | Hawaii | Kauai |
|------------------------------|----------|------|--------|----------------|
| Land: | | | | |
| Improved residential | 3.12 | 4.75 | 8.50 | <u>1/</u> 4.93 |
| Unimproved residential | 3.92 | 4.75 | 10.00 | ... |
| Apartment | 3.52 | 4.75 | 10.00 | 7.99 |
| Hotel/resort | 9.64 | 8.00 | 10.00 | 7.99 |
| Commercial | 8.51 | 6.50 | 10.00 | 7.99 |
| Industrial | 8.51 | 6.50 | 10.00 | 7.99 |
| Agricultural | 9.00 | 4.75 | 10.00 | 7.39 |
| Conservation | 9.00 | 4.75 | 10.00 | 7.89 |
| Homeowner | ... | 3.50 | 4.45 | ... |
| Homestead | ... | ... | ... | 4.04 |
| Improvement: | | | | |
| Improved residential | 3.92 | 4.75 | 8.50 | <u>1/</u> 3.94 |
| Unimproved residential | 3.92 | 4.75 | 8.50 | ... |
| Apartment | 3.52 | 4.75 | 8.50 | 7.59 |
| Hotel/resort | 9.64 | 8.00 | 8.50 | 7.59 |
| Commercial | 8.51 | 6.50 | 8.50 | 7.59 |
| Industrial | 8.51 | 6.50 | 8.50 | 7.59 |
| Agricultural | 9.00 | 4.75 | 8.50 | 3.94 |
| Conservation | 9.00 | 4.75 | 8.50 | 3.94 |
| Homeowner | ... | 3.50 | 4.45 | ... |
| Homestead | ... | ... | ... | 3.18 |

1/ Single family residential.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1995-1996 Tax Year, State of Hawaii* (July 1995).

Table 9.28-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1994

[Millions of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter]

| Fiscal year | Amount | Fiscal year | Amount | Fiscal year | Amount |
|-------------|--------|-------------|--------|-------------|--------|
| 1968..... | 848 | 1977..... | 2,066 | 1986..... | 4,643 |
| 1969..... | 988 | 1978..... | 2,507 | 1987..... | 4,759 |
| 1970..... | 964 | 1979..... | 2,659 | 1988..... | 4,957 |
| 1971..... | 1,075 | 1980..... | 3,151 | 1989..... | 5,422 |
| 1972..... | 1,173 | 1981..... | 3,811 | 1990..... | 5,461 |
| 1973..... | 1,435 | 1982..... | 3,505 | 1991..... | 6,162 |
| 1974..... | 1,644 | 1983..... | 4,054 | 1992..... | 6,497 |
| 1975..... | 2,060 | 1984..... | 4,232 | 1993..... | 7,052 |
| 1976..... | 2,162 | 1985..... | 4,568 | 1994..... | 7,603 |

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), *Federal Outlays in Hawaii* (annual report, 1968-1976) and *Geographic Distribution of Federal Funds in Hawaii* (annual report, 1977-1980); U.S. Bureau of the Census, *Federal Expenditures by State* (annual report, 1981-1994).

**Table 9.29-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES:
FISCAL YEARS 1989 TO 1994**

[Millions of dollars]

| Type of expenditure | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|---|-------|-------|-------|-------|-------|-------|
| All categories..... | 5,422 | 5,461 | 6,162 | 6,497 | 7,052 | 7,603 |
| Grants to State and local governments | 528 | 598 | 739 | 839 | 984 | 1,088 |
| Salaries and wages | 2,285 | 2,166 | 2,318 | 2,369 | 2,385 | 2,498 |
| Direct payments for individuals.... | 1,884 | 2,034 | 2,216 | 2,456 | 2,732 | 2,898 |
| Procurement..... | 624 | 547 | 761 | 695 | 743 | 905 |
| Other direct expenditure | 100 | 115 | 128 | 138 | 208 | 213 |
| Department of Defense | 2,821 | 2,604 | 2,936 | 2,893 | 2,928 | 3,196 |
| Other federal agencies | 2,601 | 2,857 | 3,226 | 3,604 | 4,123 | 4,407 |

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1994* (March 1995), tables 10 and 11 as corrected, corresponding data in earlier reports, and records.

Table 9.30-- PER CAPITA FEDERAL EXPENDITURES IN THE UNITED STATES AND HAWAII, BY TYPES: FISCAL YEAR 1994

| Category | Per capita federal expend. (dollars) | | Hawaii as percent of U.S. | Hawaii rank <u>1/</u> |
|--|--------------------------------------|--------|---------------------------|-----------------------|
| | United States | Hawaii | | |
| All categories | 4,996 | 6,449 | 129.1 | 5 |
| Grants to State and local governments..... | 811 | 923 | 113.8 | 16 |
| Salaries and wages | 639 | 2,119 | 331.6 | 2 |
| Direct payments for individuals..... | 2,618 | 2,458 | 93.9 | 35 |
| Procurement..... | 749 | 768 | 102.5 | 14 |
| Other direct expenditure | 179 | 181 | 101.1 | 20 |
| Department of Defense | 861 | 2,711 | 314.9 | 2 |
| All other Federal agencies..... | 4,135 | 3,738 | 90.4 | 40 |

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

Source: U.S. Bureau of the Census, *Federal Expenditures by State for Fiscal Year 1994* (March 1995), tables 8, 10, and 12.

Table 9.31-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTIES: FISCAL YEAR 1994

[Thousands of dollars]

| County | All agencies | Department of Defense | All other agencies |
|----------------------------------|--------------|-----------------------|--------------------|
| State total <u>1/</u> | 7,706,875 | 3,212,214 | 4,494,661 |
| City and County of Honolulu..... | 6,270,006 | 3,083,546 | 3,186,460 |
| Hawaii County | 477,170 | 49,145 | 428,026 |
| Kauai County..... | 225,375 | 42,436 | 182,939 |
| Maui County..... | 321,216 | 36,363 | 284,853 |
| State undistributed | 413,108 | 724 | 412,384 |

1/ Figures differ somewhat from those in tables 9.28 and 9.29, because of treatment of Federal grants to State and local governments. In those tables, figure represented actual expenditures; in this table, Federal grants generally represent obligations and include payments to State and local governments, and grants to nongovernmental recipients (see source, pp. vii and viii).

Source: U.S. Bureau of the Census, *Consolidated Federal Funds Report, Fiscal Year 1994: County Areas* (March 1995), pp. 14-15.

Table 9.32-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1983 TO 1993

[In millions of dollars. As of December 31]

| Year | Total bonded debt ^{1/} | State debt | County debt | | | |
|-----------|---------------------------------|------------|-------------|-------|--------|-------|
| | | | Honolulu | Maui | Hawaii | Kauai |
| 1983..... | 2,545.4 | 2,235.8 | 219.5 | 19.0 | 52.1 | 19.0 |
| 1984..... | 2,715.7 | 2,391.5 | 221.0 | 33.5 | 50.9 | 18.8 |
| 1985..... | 3,131.5 | 2,621.2 | 404.0 | 30.8 | 56.7 | 18.8 |
| 1986..... | 3,311.8 | 2,720.4 | 456.8 | 47.2 | 69.3 | 18.0 |
| 1987..... | 3,298.4 | 2,700.7 | 448.7 | 48.8 | 67.3 | 32.9 |
| 1988..... | 3,382.3 | 2,728.8 | 513.6 | 43.1 | 65.1 | 31.6 |
| 1989..... | 3,710.4 | 2,969.9 | 559.5 | 73.6 | 72.4 | 35.0 |
| 1990..... | 4,484.5 | 3,394.4 | 846.3 | 110.5 | 100.0 | 33.2 |
| 1991..... | 5,298.1 | 4,214.0 | 831.2 | 108.5 | 96.9 | 47.4 |
| 1992..... | 6,170.0 | 4,842.4 | 1,044.0 | 140.2 | 93.5 | 49.9 |
| 1993..... | 6,924.7 | 5,219.7 | 1,362.6 | 170.4 | 124.5 | 47.6 |

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

Source: Tax Foundation of Hawaii, *Government in Hawaii* (annual, 1983-1993), and preliminary release for 1993.

Table 9.33-- STATE GENERAL OBLIGATION BOND DEBT: 1990 TO 1995

[In dollars. As of June 30]

| Year | Debt | Year | Debt |
|-----------|---------------|-----------|---------------|
| 1990..... | 2,026,100,383 | 1993..... | 2,767,691,114 |
| 1991..... | 2,274,846,114 | 1994..... | 2,872,487,644 |
| 1992..... | 2,328,546,114 | 1995..... | 2,934,964,789 |

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

Table 9.34-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1940 TO 1994

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

| Year | Government jobs (annual averages) | | | | State civil service workers <u>1/</u> | State retirement system members <u>2/</u> |
|-----------|-----------------------------------|---------|----------------|--------|---------------------------------------|---|
| | All levels | Federal | Terr. or State | County | | |
| 1940..... | 22,136 | 11,139 | 6,245 | 4,752 | 2,616 | 8,352 |
| 1945..... | 78,846 | 66,248 | 7,231 | 5,367 | 3,772 | 12,662 |
| 1950..... | 33,140 | 18,891 | 7,955 | 6,294 | 5,280 | 16,120 |
| 1960..... | 49,510 | 27,010 | 14,620 | 7,880 | 6,790 | 24,092 |
| 1970..... | 73,640 | 33,380 | 30,600 | 9,660 | 10,166 | 38,912 |
| 1980..... | 89,050 | 30,000 | 45,150 | 13,900 | 17,327 | 48,868 |
| 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..... | 111,950 | 31,350 | 65,000 | 15,600 | 26,731 | 61,082 |

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

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

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1978), pp. 616-617; *The State of Hawaii Data Book 1978*, p. 158; Hawaii State Department of Labor and Industrial Relations; *Labor Force Data Book* (annual); Hawaii State Department of Human Resources Development, records; Employees' Retirement System of the State of Hawaii, *58th Annual Report, June 30, 1984*, p. 17, and records.

Table 9.35-- STATE CIVIL SERVICE: 1992 TO 1994

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

| Subject | 1992 | 1993 | 1994 |
|--|--------|--------|--------|
| Civil service employees, June 30 | 22,920 | 24,267 | 26,731 |
| Department of Education..... | 5,495 | 5,767 | 6,460 |
| Department of Health | 5,353 | 5,357 | 6,560 |
| Department of Human Services | 1,911 | 2,037 | 2,284 |
| Department of Transportation..... | 2,201 | 2,335 | 2,408 |
| University of Hawaii | 1,662 | 1,826 | 1,859 |
| All others..... | 6,298 | 6,945 | 7,160 |
| Separations | 2,074 | 1,975 | 1,819 |
| Promotions..... | 902 | 1,015 | 1,148 |
| Transfers, demotions, and returns after promotions | 958 | 979 | 848 |
| Classification and related actions <u>1/</u> | 13,828 | 12,278 | 10,579 |
| Applications received <u>2/</u> | 35,364 | 30,112 | 29,654 |
| Applicants screened <u>2/</u> | 35,491 | 29,655 | 26,365 |
| Applicants placed on eligible list <u>2/</u> | 12,982 | 11,007 | 9,046 |
| Vacancies filled by competitive and noncompetitive actions..... | 3,589 | 2,639 | 2,446 |
| Grievances filed | 321 | 221 | 280 |

1/ Starting in 1994, excludes certain delegated actions.

2/ Beginning in 1993, certain classes were totally delegated to the department.

Source: Hawaii State Department of Human Resources Development, records.

**Table 9.36-- STATE AND LOCAL EMPLOYMENT AND PAYROLLS:
1982 TO 1992**

[October data]

| Subject | 1982 | 1987 | 1991 | 1992 |
|---|--------|---------|---------|---------|
| Full-time and part-time employment | 59,164 | 63,102 | 74,821 | 76,982 |
| State | 46,574 | 49,945 | 60,311 | 61,786 |
| Local | 12,590 | 13,157 | 14,510 | 15,196 |
| Full-time equivalent employment..... | 49,457 | 54,506 | 64,390 | 64,539 |
| State | 37,742 | 41,185 | 50,758 | 50,657 |
| Local | 11,715 | 12,321 | 13,632 | 13,882 |
| Full-time equivalent employment per 10,000 population..... | 498 | 503 | 567 | 556 |
| Percent of U.S. rate | 106.4 | 101.2 | 108.4 | 106.1 |
| State | 380 | 390 | 447 | 437 |
| Local | 118 | 114 | 120 | 120 |
| Payrolls (\$1,000) | 82,544 | 103,886 | 159,078 | 172,235 |
| State | 62,490 | 77,939 | 122,319 | 130,808 |
| Local | 20,054 | 25,947 | 36,758 | 41,427 |
| Average earnings of full-time employees (dollars)..... | 1,662 | 1,955 | 2,533 | 2,661 |
| Percent of U.S. rate | 104.7 | 93.6 | 102.2 | 102.1 |
| State | 1,645 | 1,897 | 2,474 | 2,554 |
| Local | 1,716 | 2,139 | 2,734 | 3,031 |

Source: U.S. Bureau of the Census, *Public Employment* (annual report).

**Table 9.37-- EMPLOYMENT, BY TYPE, IN THE HAWAII STATE EXECUTIVE
BRANCH: MARCH 31, 1995**

| Type of employment | Total | Department of Education | Other departments |
|--|--------|-------------------------|-------------------|
| Civil service and exempt <u>1/</u> | 47,052 | 19,125 | 27,927 |
| Full time | 42,894 | 17,041 | 25,853 |
| Part time | 4,158 | 2,084 | 2,074 |
| Full-time equivalent..... | 44,145 | 18,106 | 26,039 |
| Paid casual employees <u>2/</u> | 19,588 | 13,889 | 5,699 |

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.

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 is currently on the payroll.

Source: "Governor's Taskforce on the State Workforce" reports: #PABJ101L-R1 and #PABJ111L-R4, DHRD/AAD (quarterly).

**Table 9.38-- STATE SALARY SCHEDULES FOR SELECTED LEVELS:
1992 TO 1994**

[In dollars per month. Data refer to lowest and highest rates among bargaining units 3, 4, 9 and 13]

| Salary range | Lowest | | | Highest | | |
|--------------|-----------|-----------|-----------------|-----------|-----------|-----------------|
| | July 1992 | July 1993 | July 1994 | July 1992 | July 1993 | July 1994 |
| SR-4..... | 1,263 | 1,263 | 1,263 | 1,866 | 1,866 | 1,866 |
| SR-11..... | 1,660 | 1,660 | 1,660 | 2,457 | 2,457 | 2,457 |
| SR-21..... | 2,412 | 2,507 | <u>1/</u> 2,555 | 3,824 | 3,824 | <u>1/</u> 4,306 |
| SR-31..... | 3,863 | 4,016 | 4,178 | 5,497 | 5,497 | 5,718 |

1/ SR-22 instead of SR-21.

Source: Hawaii State Department of Human Resources Development, salary schedules.

**Table 9.39-- SALARIES OF SELECTED GOVERNMENT OFFICIALS:
1976, 1990, 1994, AND 1995**

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

| Government official | 1976 | 1990 | 1994 | 1995 |
|--------------------------------------|--------|--------|---------|---------|
| Governor..... | 50,000 | 94,780 | 94,780 | 94,780 |
| Lieutenant Governor..... | 45,000 | 90,041 | 90,041 | 90,041 |
| Mayor, Honolulu..... | 44,903 | 84,725 | 100,000 | 100,000 |
| Mayor, Hawaii..... | 43,644 | 63,792 | 76,848 | 76,848 |
| Mayor, Maui..... | 36,070 | 80,000 | 87,098 | 87,098 |
| Mayor, Kauai..... | 34,000 | 58,500 | 69,969 | 73,118 |
| Chief Justice, Supreme Court..... | 47,500 | 94,780 | 94,780 | 94,780 |
| Associate Justice, Supreme Court... | 45,000 | 78,500 | 93,780 | 93,780 |
| President, University of Hawaii..... | 45,000 | 95,000 | 150,000 | 153,000 |

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; DBEDT telephone surveys; newspaper articles.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, land controlled by the Department of Defense, military housing, and expenditures by the armed forces. Further information appears in sections 1, 2, 12, and 23.

There were approximately 44,000 officers and enlisted men (including 1,400 aboard ships homeported in Hawaii) and 54,000 military dependents in the Islands as of July 1, 1994. These numbers have declined significantly in recent years. At the height of World War II more than 400,000 uniformed personnel were present. The Army accounts for almost half of the current total. About 5,100 Hawaii residents were in the armed forces worldwide in 1994. The importance of national defense in Hawaii can be further measured by total expenditures (\$3.2 billion), military prime contract awards (\$631 million), civilian employment (16,900), veterans in civil life (117,000), military personnel receiving retired pay (12,100, receiving \$18 million monthly), military-connected pupils in public schools (19,800), military housing (21,000 units), and land owned or controlled by the armed forces (239,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Business, Economic Development & Tourism has compiled periodic reports on military personnel and dependents since 1959. Other published sources include reports of the U.S. Department of Defense, U.S. Bureau of the Census, Administrator of Veterans Affairs, and the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1988, for example, the number of armed forces in Hawaii was reported as 45,843 by DOD, 56,815 by the Bureau of the Census, and 64,053 by the local commanding officers reporting to DBEDT. *Historical Statistics of Hawaii*, Section 26, includes series on the armed forces dating back to 1795. Section 11 of the *Statistical Abstract of the United States: 1995* presents data on national defense and veterans affairs for other states and the entire nation.

Table 10.01-- HAWAII RESIDENTS ON ACTIVE DUTY WITH THE U.S. ARMED FORCES WORLDWIDE: 1950 TO 1994

[As of June 30, unless otherwise specified. 1950-1979 based on preservice residence; 1980-1994, on home of record]

| Year | Number | Year | Number | Year | Number |
|----------------------|--------|----------------------|--------|----------------------|--------|
| 1950..... | 7,699 | 1965..... | 15,109 | 1980..... | 11,851 |
| 1951..... | 10,958 | 1966..... | 15,875 | 1981..... | 11,927 |
| 1952..... | 16,594 | 1967..... | 18,048 | 1982..... | 11,926 |
| 1953..... | 16,217 | 1968..... | 22,433 | 1983..... | 11,641 |
| 1954..... | 16,189 | 1969..... | 15,856 | 1984..... | 11,466 |
| 1955..... | 15,175 | | | 1985..... | 10,827 |
| 1956..... | 15,243 | 1970..... | 15,331 | 1986..... | 10,882 |
| 1957..... | 14,687 | 1971..... | 13,600 | 1987..... | 10,896 |
| 1958..... | 13,310 | 1972..... | 11,600 | 1988..... | 10,548 |
| 1959..... | 12,596 | 1973..... | 10,200 | 1989 <u>2/</u> | 10,501 |
| | | 1974..... | 10,810 | | |
| 1960 <u>1/</u> | 12,662 | 1975..... | 10,640 | 1990..... | 10,052 |
| 1961..... | 11,340 | 1976..... | 10,600 | 1991..... | 10,076 |
| 1962..... | 13,464 | 1977..... | 10,640 | 1992..... | 8,432 |
| 1963..... | 14,944 | 1978..... | 10,715 | 1993..... | 7,621 |
| 1964..... | 15,000 | 1979 <u>1/</u> | 11,069 | 1994..... | 5,098 |

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).

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; 1970-1994 from U.S. Department of Defense, Defense Manpower Data Center, records, in Hawaii State Department of Business, Economic Development & Tourism, *The State of Hawaii Data Book* (annual).

**Table 10.02-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES:
1980 TO 1994**

[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]

| Date | Personnel and dependents | Military personnel <u>1/</u> | | | Dependents in Hawaii | Military families |
|---------------------|--------------------------|------------------------------|--------|-------------|----------------------|-------------------|
| | | Total | Ashore | Aboard ship | | |
| 1980: April 1 | 125,042 | 61,019 | 48,813 | 12,206 | 64,023 | 26,129 |
| 1981: July 1 | 125,865 | 61,521 | 46,255 | 15,266 | 64,344 | 25,893 |
| 1982: July 1 | 127,816 | 61,107 | 54,184 | 6,923 | 66,709 | 26,009 |
| 1983: July 1 | 125,273 | 59,021 | 53,755 | 5,266 | 66,252 | 26,791 |
| 1984: July 1 | 127,887 | 60,804 | 56,321 | 4,483 | 67,083 | 31,415 |
| 1985: July 1 | 122,286 | 58,005 | 53,848 | 4,157 | 64,281 | 29,997 |
| 1986: July 1 | 124,794 | 58,584 | 53,616 | 4,968 | 66,210 | 29,481 |
| 1987: July 1 | 125,127 | 60,277 | 56,322 | 3,955 | 64,850 | 32,038 |
| 1988: July 1 | 133,958 | 64,053 | 60,621 | 3,432 | 69,905 | 34,535 |
| 1989: July 1 | 116,644 | 56,370 | 53,263 | 3,107 | 60,274 | 31,652 |
| 1990: April 1 | 113,833 | 53,898 | 50,681 | 3,217 | 59,935 | 30,934 |
| 1991: July 1 | 117,141 | 53,813 | 51,197 | 2,616 | 63,328 | 28,655 |
| 1992: July 1 | 109,959 | 52,965 | 50,206 | 2,759 | 56,994 | 23,751 |
| 1993: July 1 | 107,603 | 45,437 | 44,152 | 1,285 | 62,166 | 25,952 |
| 1994: July 1 | 98,531 | 44,193 | 42,790 | 1,403 | 54,338 | 27,478 |

1/ Ship crews living ashore are included with the ashore total.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers. Air Force and Marine Corps data for 1993 partly estimated.

**Table 10.03-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES,
BY SERVICE AND ISLAND: JULY 1, 1994**

[See headnote to preceding table]

| 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 | | | |
| State total | 98,531 | 44,193 | 24,765 | 18,025 | 1,403 | 54,338 | 27,478 |
| By island: | | | | | | | |
| Oahu..... | 98,073 | 43,997 | 24,609 | 17,985 | 1,403 | 54,076 | 27,340 |
| Hawaii..... | 138 | 60 | 60 | - | - | 78 | 47 |
| Maui..... | 34 | 13 | 13 | - | - | 21 | 15 |
| Kauai..... | 286 | 123 | 83 | 40 | - | 163 | 76 |
| Kure Atoll 1/... | - | - | - | - | - | - | - |
| By service: | | | | | | | |
| Air Force..... | 11,435 | 5,254 | 4,784 | 470 | - | 6,181 | 3,733 |
| Army..... | 43,769 | 19,365 | 11,954 | 7,411 | - | 24,404 | 11,661 |
| Coast Guard .. | 3,060 | 1,500 | 1,324 | 100 | 76 | 1,560 | 700 |
| Marine Corps | 12,479 | 6,864 | 2,258 | 4,606 | - | 5,615 | 2,507 |
| Navy..... | 27,788 | 11,210 | 4,445 | 5,438 | 1,327 | 16,578 | 8,877 |

1/ Disestablished effective July 2, 1992.

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 1994**

[As of September 30. Excludes Coast Guard]

| Year | Active-duty shore-based military personnel <u>1/</u> | Dependents of active-duty military personnel <u>2/</u> | Direct-hire civilian personnel <u>3/</u> |
|-----------|--|--|--|
| 1989..... | 45,935 | 54,724 | 20,246 |
| 1990..... | 41,887 | 51,727 | 19,857 |
| 1991..... | 44,092 | 50,006 | 18,978 |
| 1992..... | 44,864 | 47,671 | 17,893 |
| 1993..... | 42,958 | 45,612 | 17,341 |
| 1994..... | 42,161 | 39,989 | 16,784 |

1/ Excludes Navy personnel afloat or temporary shore-based.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Includes Army personnel performing civil functions.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, *Department of Defense Selected Manpower Statistics* (annual).

**Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND
DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1994**

| Category | All services | Army | Navy | Air Force | Marine Corps |
|------------------------------------|--------------|--------|--------|-----------|--------------|
| Total..... | 82,150 | 32,698 | 25,835 | 11,429 | 12,188 |
| Military personnel <u>1/</u> | 42,161 | 19,485 | 11,510 | 4,682 | 6,484 |
| Dependents <u>2/</u> | 39,989 | 13,213 | 14,325 | 6,747 | 5,704 |

1/ Active duty. Data exclude personnel afloat or temporary shore-based.

2/ Dependents of active-duty military personnel.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, letter dated July 14, 1995.

**Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND
CIVILIAN, BY LOCATION: SEPTEMBER 30, 1993**

| Installation or geographic area | Total DOD | Military personnel <u>1/</u> | Civilian personnel <u>2/</u> |
|----------------------------------|--------------|---------------------------------|---------------------------------|
| State total | 60,299 | 42,958 | 17,341 |
| Aiea..... | 851 | 610 | 241 |
| Barbers Point NAS | 2,571 | 2,176 | 395 |
| Camp H. M. Smith..... | 723 | 718 | 5 |
| Ford Island | 497 | 459 | 38 |
| Fort Shafter | 3,083 | 1,222 | 1,861 |
| Hickam AFB | 4,841 | 3,525 | 1,316 |
| Honolulu..... | 590 | 333 | 257 |
| Kaneohe..... | 8,281 | 7,758 | 523 |
| Kauai..... | 260 | 120 | 140 |
| Kunia..... | 477 | 428 | 49 |
| Lualualei..... | 452 | 185 | 267 |
| Pearl Harbor..... | 16,098 | 7,147 | 8,951 |
| Schofield Barracks | 16,064 | 15,057 | 1,007 |
| Tripler Army Medical Center..... | 3,072 | 1,900 | 1,172 |
| Wahiawa | 601 | 466 | 135 |
| Wheeler AFB..... | 1,093 | 692 | 401 |
| Other..... | 745 | 162 | 583 |

1/ Active duty. Navy figure includes Marine Corps and excludes personnel afloat or temporary shore-based.

2/ Direct hire. Army data include civil function personnel.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1993*, pp. 8 and 31.

Table 10.07-- NATIONAL GUARD STRENGTH: 1990 TO 1995

[Actual strength as of late June]

| Service | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|--------------------------|-------|-------|-------|-------|-------|-------|
| Total | 5,711 | 5,632 | 5,628 | 5,632 | 5,611 | 5,668 |
| Air National Guard..... | 2,124 | 2,078 | 2,128 | 2,241 | 2,131 | 2,310 |
| Army National Guard..... | 3,587 | 3,554 | 3,500 | 3,391 | 3,480 | 3,358 |

Source: Hawaii State Department of Defense, records.

Table 10.08-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1989 TO 1994

| Service | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|----------------|--------|--------|--------|--------|--------|--------|
| Total | 20,100 | 19,350 | 18,850 | 18,000 | 17,450 | 16,900 |
| Air Force..... | 2,350 | 2,300 | 2,250 | 2,200 | 2,150 | 2,000 |
| Army..... | 5,550 | 5,600 | 5,400 | 4,800 | 4,600 | 4,700 |
| Navy..... | 12,200 | 11,450 | 11,200 | 11,000 | 10,700 | 10,200 |

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual).

**Table 10.09-- NATIONAL DEFENSE EXPENDITURES AS ESTIMATED BY
ALTERNATE SOURCES: 1990 TO 1994**

[Millions of dollars]

| Source | 1990 | 1991 | 1992 | 1993 | 1994 |
|--|-------|-------|-------|-------|-------|
| Bureau of the Census <u>1/</u> | 2,604 | 2,936 | 2,893 | 2,928 | 3,196 |
| Bureau of Economic Analysis <u>2/</u> | 2,058 | 2,253 | 2,423 | ... | ... |
| DBEDT <u>3/</u> | 3,336 | 3,650 | 3,834 | 3,717 | 3,671 |

1/ Department of Defense expenditures in Hawaii for years ended September 30. Data from present report, table 9.29.

2/ Calendar year estimates of gross state product for Hawaii attributable to federal military. Data from Bureau of Economic Analysis diskettes tabulated by DBEDT.

3/ Calendar year estimates of defense expenditures in Hawaii, prepared by DBEDT. From present report, table 13.01.

Source: See footnotes.

**Table 10.10-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM:
1991 TO 1993**

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

| Procurement program | 1991 | 1992 | 1993 |
|--|---------|---------|---------|
| Total | 697,127 | 622,729 | 631,020 |
| Ships | 6,771 | 14,621 | 11,615 |
| Electronics and communication equipment..... | 20,751 | 35,863 | 24,888 |
| Petroleum..... | 57,295 | 60,981 | 56,939 |
| Subsistence..... | 12,494 | 19,380 | 15,322 |
| Construction | 312,601 | 282,607 | 272,165 |
| Services | 254,257 | 177,612 | 220,423 |
| All other procurement programs | 32,958 | 31,666 | 29,668 |

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.

Table 10.11-- ACREAGE OWNED OR CONTROLLED BY THE U.S. DEPARTMENT OF DEFENSE, BY BRANCH OF SERVICE AND BY ISLANDS: 1992

| Branch of service and island | Total acreage | Owned in fee or ceded | Leased land |
|---|---------------|-----------------------|-------------|
| All branches | 238,937 | 167,248 | 71,689 |
| Branch of service: | | | |
| Air Force..... | 5,867 | 5,286 | 581 |
| Army..... | 151,927 | 105,633 | 46,294 |
| Marines..... | 27,950 | 3,643 | 24,307 |
| Navy..... | 53,193 | 52,686 | 507 |
| Island: | | | |
| Hawaii | 101,882 | 84,822 | 17,060 |
| Maui | 8 | 5 | 3 |
| Kahoolawe..... | 28,777 | 28,777 | - |
| Lanai | - | - | - |
| Molokai..... | 6,319 | 12 | 6,307 |
| Oahu | 81,459 | 51,602 | 29,857 |
| Kauai | 20,384 | 1,922 | 18,462 |
| Niihau..... | - | - | - |
| Kaula..... | 108 | 108 | - |
| Northwestern Hawaiian Islands, exc. Midway..... | - | - | - |

Source: *Honolulu Advertiser*, November 16, 1992, p. A2.

Table 10.12-- HOUSING UNITS OWNED BY THE ARMED FORCES, BY SERVICE AND GEOGRAPHIC AREA: APRIL 1, 1995

| Geographic area | All services | Air Force | Army | Coast Guard | Marine Corps | Navy |
|---------------------|--------------|-----------|-------|-------------|--------------|-------|
| State total | 21,060 | 3,189 | 8,389 | 326 | 2,095 | 7,061 |
| Oahu | 20,971 | 3,189 | 8,386 | 309 | 2,095 | 6,992 |
| Other islands | 89 | - | 3 | 17 | - | 69 |

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (in preparation).

**Table 10.13-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:
1970 TO 1994**

| Veteran status | Civilian males | | All civilians <u>1/</u> | | |
|------------------------------|----------------|---------|-------------------------|---------|---------|
| | 1970 | 1980 | 1980 | 1990 | 1994 |
| Civilians 16 and over ... | 223,573 | 316,651 | 665,036 | 801,517 | (NA) |
| Veterans..... | 89,098 | 98,633 | 103,774 | 119,256 | 116,000 |
| War veterans <u>2/</u> | 75,026 | 82,230 | 85,322 | 87,301 | 86,000 |
| Persian Gulf War | - | - | - | - | 5,000 |
| Vietnam era | 20,548 | 36,441 | 38,136 | 41,860 | 42,000 |
| Korean conflict..... | 20,006 | 21,860 | 22,351 | 22,362 | 21,000 |
| World War II | 34,486 | 31,170 | 32,156 | 32,551 | 28,000 |
| World War I | 2,501 | 824 | 854 | 132 | (Z) |
| Peacetime veterans only .. | 14,072 | 16,403 | 18,452 | 31,955 | 30,000 |
| Nonveterans..... | 134,475 | 218,018 | 561,262 | 682,261 | (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; and 1990 Census of Population tapes tabulated by Hawaii State Data Center; *Statistical Abstract of the United States: 1995*, p. 368.

**Table 10.14-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1994**

| Service | Number of personnel | | Monthly payment <u>2/</u> (\$1,000) | Payment per person paid <u>2/</u> (dollars) |
|-----------------------------|---------------------|-------------|--|--|
| | Retired <u>1/</u> | Paid by DOD | | |
| Department of Defense | 13,408 | 12,144 | 17,981 | 1,481 |
| Army | 5,426 | 4,846 | 6,522 | 1,346 |
| Navy | 3,747 | 3,407 | 5,286 | 1,552 |
| Marine Corps..... | 910 | 817 | 1,391 | 1,703 |
| Air Force | 3,325 | 3,074 | 4,781 | 1,555 |
| Coast Guard <u>3/</u> | 245 | 232 | 417 | 1,797 |

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/ Payments made by the U.S. Department of Transportation, shown for informational purposes only, and not included in the DOD totals.

Source: U.S. Department of Defense, Office of the Actuary, *FY 1994 DOD Statistical Report on the Military Retirement System* (1995), p. 20.

Section 11

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on disability, United Way campaigns, foundations, and the quality of life. Related data are cited in Sections 9 and 13.

Total social welfare costs reached \$731 million in fiscal 1994, compared with \$336 million a decade earlier. About 59 percent of the 1994 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1994 was 75,000, or 6.3 percent of the resident population of the State. Fifty-six percent of all public assistance payments and 43 percent of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was \$507, or 55 percent more than in 1984. Participation in the food stamp program included 48,000 households and 111,000 persons. Among workers receiving unemployment compensation in 1994, weekly benefits averaged \$259. Out of 673,000 persons 16 to 64 years of age, 27,000 reported a mobility or self-care limitation in 1990. About 162,000 Hawaii residents were receiving Social Security benefits in December 1994, and about 145,000 were enrolled for Medicare. There were also over 22,900 State and county government pensioners in 1994, with annual benefits of \$331 million. Child adoptions in 1994 numbered 500. The United Way reported revenues of \$18.9 million and agency allocations of \$13.8 million in 1994. A recent comparative study of the "quality of life" in 300 American metropolitan areas ranked Honolulu in the top third.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Human Services, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the United Way. *Historical Statistics of Hawaii*, Section 8, contains data for earlier years. Section 12 of the *Statistical Abstract of the United States: 1995* presents comparable Mainland data.

Table 11.01-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES: 1984 TO 1994, MONTHLY AVERAGES

[Years ended June 30]

| Year | Financial assistance programs <u>1/</u> | | Average financial assistance payments <u>2/</u> (dollars) | | Service cases <u>3/</u> | Medical payments: individuals <u>4/</u> |
|-------------------|---|-------------|---|----------------|-------------------------|---|
| | Cases | Individuals | Per case | Per individual | | |
| 1984 | 23,378 | 62,430 | 369.92 | 138.72 | 6,586 | 12,939 |
| 1985 | 22,212 | 59,561 | 368.17 | 137.50 | 6,832 | 12,519 |
| 1986 | 21,119 | 56,140 | 368.25 | 138.67 | 7,186 | 12,710 |
| 1987 | 19,531 | 50,954 | 367.00 | 140.86 | 7,402 | 13,858 |
| 1988 | 18,394 | 48,108 | 414.00 | 158.00 | 7,217 | 13,731 |
| 1989 | 18,851 | 49,389 | 473.00 | 181.00 | 6,108 | 16,829 |
| 1990 | 19,891 | 51,696 | 505.00 | 195.00 | 5,846 | 18,773 |
| 1991 | 20,772 | 53,327 | 524.00 | 204.00 | (NA) | 18,744 |
| 1992 | 23,217 | 59,206 | 542.00 | 213.00 | (NA) | 20,532 |
| 1993 | 26,295 | 66,263 | 557.00 | 221.00 | 10,218 | 22,680 |
| 1994 | 30,236 | 74,711 | 566.00 | 229.00 | 14,509 | 25,518 |
| COUNTIES: 1993 | | | | | | |
| Hawaii | 5,669 | 14,578 | 572.00 | 222.00 | 1,761 | 3,498 |
| Maui | 1,797 | 4,783 | 563.00 | 212.00 | 1,312 | 1,762 |
| Honolulu | 17,837 | 44,369 | 550.00 | 221.00 | 6,262 | 16,027 |
| Kauai | 992 | 2,533 | 488.00 | 191.00 | 883 | 1,393 |
| COUNTIES: 1994 | | | | | | |
| Hawaii | 6,463 | 16,344 | 583.00 | 230.00 | 2,257 | 3,882 |
| Maui | 2,147 | 5,513 | 569.00 | 221.00 | 1,792 | 2,018 |
| Honolulu | 20,504 | 49,983 | 560.00 | 230.00 | 9,601 | 18,066 |
| Kauai | 1,122 | 2,871 | 578.00 | 226.00 | 859 | 1,552 |

NA Not available.

1/ Old age assistance, aid to the blind, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, and general assistance, excluding SSI recipients.

2/ Gross obligation basis.

3/ Social services include adoption, alcohol and drug, chore, daycare, employment, family planning, foster care, health, homemaker, family adjustment, protection, and residential rehabilitation type of services.

4/ Ineligible for money assistance, receiving medical assistance only.

Source: Hawaii State Department of Human Services, DHS Obligations FY Report, HMSA MR65 report; and Social Services printout.

Table 11.02-- PERCENT OF RESIDENT POPULATION SERVED BY FINANCIAL ASSISTANCE PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF HUMAN SERVICES, BY COUNTIES: 1993 AND 1994

[Based on fiscal year program data and July 1 population estimates]

| Year | State | Hawaii | Maui | Honolulu | Kauai |
|-----------|-------|--------|------|----------|-------|
| 1993..... | 5.7 | 11.0 | 4.3 | 5.1 | 4.6 |
| 1994..... | 6.3 | 12.1 | 4.9 | 5.7 | 5.2 |

Source: Hawaii State Department of Human Services, records; present volume, table 1.6.

Table 11.03-- SELECTED SOCIAL WELFARE EXPENDITURES: 1984 TO 1994

[Thousands of dollars. Years ended June 30. Covers expenditures by the Hawaii State Department of Human Services in selected categories]

| Year | Total cost | By source of funds | | By expenditure category | | | |
|-----------|------------|--------------------|---------|-------------------------|-----------------------------------|-------------------|----------------------------|
| | | Federal | State | Admin- istration | Medical payments ^{1/} | Money payments | Social service costs |
| 1984..... | 335,986 | 148,902 | 187,084 | 35,482 | 185,730 | 107,508 | 7,266 |
| 1985..... | 294,406 | 127,052 | 167,354 | 33,604 | 145,559 | 103,611 | 11,632 |
| 1986..... | 328,804 | 147,865 | 180,939 | 41,637 | 175,887 | 98,738 | 12,541 |
| 1987..... | 314,025 | 141,185 | 172,840 | 37,899 | 172,966 | 91,909 | 11,251 |
| 1988..... | 341,573 | 150,412 | 191,161 | 35,445 | 196,270 | 98,294 | 11,564 |
| 1989..... | 375,992 | 169,142 | 206,850 | 39,315 | 207,059 | 114,620 | 14,998 |
| 1990..... | 433,862 | 198,515 | 235,347 | 49,350 | 235,901 | 134,350 | 14,261 |
| 1991..... | 485,240 | 210,593 | 274,647 | 52,813 | 267,295 | 145,199 | 19,933 |
| 1992..... | 573,466 | 259,382 | 314,084 | 36,121 | 353,089 | 162,316 | 21,940 |
| 1993..... | 822,778 | 300,983 | 521,795 | 42,330 | 547,539 | 183,785 | 49,124 |
| 1994..... | 731,006 | 298,946 | 432,060 | 41,040 | 427,528 | 211,705 | 50,733 |

^{1/} These amounts are for benefits provided to both the Medicaid only recipients and financial assistance recipients under the major programs. Effective 1990, medical payments' administrative costs are included in total administration costs.

Source: Hawaii State Department of Human Services, DHS Fiscal Accounting records.

**Table 11.04-- FINANCIAL ASSISTANCE PAYMENTS AND CASES:
1993 AND 1994**

[Years ended June 30]

| Program | Total payments (\$1,000) | | Cases (monthly average) | | Average monthly payment (dollars) | |
|--|-----------------------------|---------|----------------------------|--------|--------------------------------------|------|
| | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 |
| All programs | 247,059 | 280,837 | 41,266 | 46,133 | 499 | 507 |
| Old age assistance <u>1/</u> | 22,600 | 25,404 | 6,315 | 6,967 | 298 | 309 |
| Aid to the blind <u>1/</u> | 742 | 721 | 171 | 161 | 362 | 371 |
| Aid to disabled <u>1/</u> | 46,106 | 48,903 | 9,222 | 9,966 | 417 | 412 |
| Aid to families with dependent children <u>2/</u> | 138,515 | 158,373 | 17,875 | 19,921 | 646 | 662 |
| Child welfare foster care | 5,255 | 5,551 | 887 | 941 | 494 | 492 |
| General assistance | 33,841 | 41,885 | 6,796 | 8,177 | 415 | 427 |

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent.

Source: Hawaii State Department of Human Services, Obligations FY report; Social Security Bulletin, tables 2.A8 and 2.A9; DHS Foster Care and PW5 Service for Kids report.

Table 11.05-- FOOD STAMP PROGRAM: 1992 TO 1994

[Years ended June 30]

| Subject | 1992 | 1993 | 1994 |
|--|---------|---------|---------|
| Households, total participating (monthly averages) | 37,294 | 42,175 | 48,140 |
| Receiving food stamps and financial assistance | 20,791 | 23,581 | 27,137 |
| Receiving only food stamps | 16,503 | 18,594 | 21,003 |
| Persons, total participating (monthly averages) | 89,465 | 99,571 | 111,410 |
| Receiving food stamps and financial assistance | 59,047 | 66,073 | 74,512 |
| Receiving only food stamps | 30,418 | 33,498 | 36,898 |
| Value of food stamps given to recipients (\$1,000) | 112,330 | 126,789 | 147,149 |

Source: Hawaii State Department of Human Services, Food Stamps and IM printout.

**Table 11.06-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE
(OASDI) BENEFICIARIES IN CURRENT-PAYMENT STATUS, BY AGE,
RACE, AND SEX: 1993 AND 1994**

[December data. Based on 10-percent samples]

| Age, race, and sex | 1993 | 1994 |
|------------------------------------|---------|---------|
| Total | 158,370 | 161,840 |
| Age: | | |
| 17 years or under..... | 9,750 | 9,870 |
| 18 to 64 years..... | 26,940 | 27,290 |
| 65 to 69 years..... | 37,910 | 37,730 |
| 70 to 74 years..... | 35,300 | 36,480 |
| 75 years or older..... | 48,470 | 50,470 |
| Race: | | |
| White..... | 41,150 | 41,790 |
| Black..... | 2,190 | 2,290 |
| Other..... | 113,400 | 116,490 |
| Beneficiaries other than children: | | |
| Men..... | 66,090 | 67,210 |
| Women..... | 80,120 | 82,380 |

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1994 and 1995, table 5.J5 in each.

Table 11.07-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT: 1993 AND 1994

[December data. Based on 10-percent samples]

| Type of benefit | Number of OASDI beneficiaries | | Amount of monthly benefits (\$1,000) | |
|----------------------------------|-------------------------------|---------|--------------------------------------|----------------------|
| | 1993 | 1994 | 1993 | 1994 |
| Total..... | 158,370 | 161,840 | 95,812 | 101,506 |
| Retirement program: | | | | |
| Retired workers..... | 110,730 | 113,240 | 73,461 | ^{1/} 77,737 |
| Spouses..... | 11,050 | 10,730 | 3,485 | 3,534 |
| Children..... | 3,030 | 2,980 | 858 | 866 |
| Survivor program: | | | | |
| Widows, widowers, and parents .. | 14,950 | 15,610 | 8,879 | 9,608 |
| Children..... | 6,170 | 6,110 | 2,853 | 2,921 |
| Disability program: | | | | |
| Disabled workers..... | 8,820 | 9,380 | 5,647 | 6,186 |
| Spouses..... | 660 | 630 | 109 | 107 |
| Children..... | 2,960 | 3,160 | 520 | 547 |
| Age 65 and over..... | 121,680 | 124,680 | 77,700 | 82,558 |
| Men..... | 54,820 | 55,490 | 40,300 | 42,183 |
| Women..... | 66,860 | 69,190 | 37,400 | 40,375 |

^{1/} Average monthly benefit was \$686.50; median was \$687.50.

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement* for 1994 and 1995, tables 5.J2, 5.J3, 5.J4, 5.J6.

Table 11.08-- RETIREMENT, SURVIVORS AND DISABILITY INSURANCE (OASDI) BENEFICIARIES AND BENEFITS IN CURRENT-PAYMENT STATUS, BY COUNTIES: DECEMBER 1993

| County | Number of OASDI beneficiaries | | Amount of monthly benefits (\$1,000) | |
|--------------------------------|-------------------------------|-----------------|--------------------------------------|-----------------|
| | Total | Age 65 and over | Total | Age 65 and over |
| State total ^{1/} | 158,773 | 121,621 | 95,954 | 77,956 |
| Hawaii | 22,195 | 15,995 | 13,287 | 10,372 |
| Honolulu..... | 112,385 | 87,490 | 67,840 | 55,714 |
| Kalawao | 115 | 105 | 66 | 61 |
| Kauai..... | 8,580 | 6,625 | 5,205 | 4,270 |
| Maui..... | 15,295 | 11,270 | 9,424 | 7,450 |
| Unknown | 205 | 135 | 112 | 82 |

^{1/} Because of special rounding procedures, county detail may not add exactly to State totals, and State totals may differ somewhat from corresponding values in other OASDI tables in this section.

Source: U.S. Department of Health and Human Services, *OASDI Beneficiaries by State and County, December 1993* (October 1994), tables 4 and 5.

Table 11.09-- SOCIAL SECURITY BENEFICIARIES AND BENEFITS PAID: 1989 TO 1994

| Year | Number of beneficiaries, December | Monthly benefits, December (\$1,000) | Annual benefits paid (million dollars) |
|-----------|-----------------------------------|--------------------------------------|--|
| 1989..... | 145,178 | 73,297 | 830 |
| 1990..... | 148,522 | 79,859 | 893 |
| 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 |

Source: U.S. Department of Health and Human Services, Social Security Administration, *Social Security Bulletin, Annual Statistical Supplement, 1995*, tables 5.J1, 5.J2, and 5.J4, and corresponding data in earlier reports.

Table 11.10-- MEDICARE BENEFICIARIES ENROLLED AND BENEFIT PAYMENTS: 1993 AND 1994

| Coverage | All persons enrolled, July 1 | | Persons 65 and over enrolled, July 1 | | Estimated benefit payments ^{1/} (\$1,000) | |
|---|------------------------------|---------|--------------------------------------|---------|--|---------|
| | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 |
| Hospital and/or medical insurance | 140,787 | 145,429 | 130,730 | 134,840 | 472,706 | 531,779 |
| Hospital insurance | 138,172 | 143,882 | 128,115 | 133,293 | - | - |
| Supplementary medical insurance | 132,038 | 136,123 | 123,090 | 126,679 | - | - |
| Hospital and medical insurance (both) | 129,423 | 134,576 | 120,475 | 125,132 | - | - |

^{1/} Fiscal years.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, records.

Table 11.11-- DISABILITY OF CIVILIAN NONINSTITUTIONALIZED PERSONS, FOR THE STATE AND OAHU: 1990

| Disability status | State total | Oahu only |
|---|-------------|-----------|
| Persons 16 to 64 years | 672,828 | 503,514 |
| With a mobility or self-care limitation | 27,080 | 20,873 |
| With a mobility limitation | 11,029 | 8,176 |
| With a self-care limitation | 21,245 | 16,573 |
| With a work disability | 44,370 | 31,079 |
| In labor force | 19,765 | 13,938 |
| Prevented from working | 20,330 | 14,013 |
| Persons 65 years and over | 120,972 | 88,604 |
| With a mobility or self-care limitation | 21,251 | 15,973 |
| With a mobility limitation | 15,280 | 11,205 |
| With a self-care limitation | 13,477 | 10,333 |

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (Sept. 1993), table 34.

**Table 11.12-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM:
1989 TO 1994**

| Year | Member- ship, <u>1/</u> March 31 | Pensioners and beneficiaries, March 31 | Assets, <u>2/</u> June 30 (\$1,000) | Total benefits paid <u>3/</u> (\$1,000) | Average monthly pension <u>3/</u> (dollars) | Adminis- tration expenses <u>3/</u> (dollars) |
|-----------|--|---|---|--|--|--|
| 1989..... | 52,655 | 19,840 | 3,681,938 | 217,878 | 795 | 1,871,595 |
| 1990..... | 53,509 | 20,495 | 3,854,809 | 244,568 | 826 | 2,067,028 |
| 1991..... | 55,604 | 21,199 | 4,127,366 | 274,849 | 875 | 2,297,960 |
| 1992..... | 57,401 | 21,787 | 4,551,348 | 284,194 | 933 | 2,446,107 |
| 1993..... | 59,518 | 22,387 | 4,987,341 | 309,245 | 987 | 2,274,981 |
| 1994..... | 61,082 | 22,905 | 5,416,206 | 331,393 | 1,039 | 2,875,676 |

1/ State and county employees. Includes former employees who have not withdrawn their contributions but excludes all pensioners.

2/ Book value. Revised from *Data Book 1993-94*, table 11.12.

3/ Year ended June 30. Data on total benefits paid exclude the employers' share of social security contributions.

Source: Employees' Retirement System of the State of Hawaii, *Comprehensive Annual Financial Report*, and records.

Table 11.13-- CHILD ADOPTIONS: 1989 TO 1994

| Type of adoption | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|--------------------------------|------|------|------|------|------|------|
| Total | 830 | 678 | 592 | 557 | 404 | 500 |
| By relatives | 577 | 479 | 408 | 375 | 287 | 345 |
| By nonrelative | 253 | 190 | 176 | 182 | 117 | 155 |
| Placed by social agencies | 207 | 174 | 153 | 172 | 95 | 120 |

Source: Hawaii State Department of Human Services, tabulations from SRS-NCSS-280 Adoption Cards.

Table 11.14-- FOUNDATIONS: SEPTEMBER 1992

| Subject | Limited to Hawaii | Not limited to Hawaii | Unclassified |
|-----------------------------|-------------------|-----------------------|--------------|
| Number of foundations | 106 | 1 | 44 |
| Assets: | | | |
| Number reporting | 105 | 1 | 43 |
| Amount (\$1,000) | 496,060 | 1,312 | 12,559 |
| Total giving: | | | |
| Number reporting | 105 | 1 | 43 |
| Amount (\$1,000) | 24,786 | 50 | 812 |

Source: The Foundation Center, Foundations Directory, September 1992.

Table 11.15-- UNEMPLOYMENT INSURANCE: 1985 TO 1995

| Calendar year | Covered employment | Insured unemployment | | Average weekly total wages (dollars) | Benefit payments (\$1,000) | Average weekly benefits (dollars) | Average benefit duration (weeks) |
|---------------|--------------------|----------------------|------------------|--------------------------------------|----------------------------|-----------------------------------|----------------------------------|
| | | Weekly average | Percent coverage | | | | |
| 1985..... | 434,637 | 10,091 | 37 | 332.90 | 62,123 | 134.03 | 14.6 |
| 1986..... | 447,667 | 8,900 | 37 | 347.06 | 56,391 | 140.16 | 14.3 |
| 1987..... | 470,179 | 7,329 | 37 | 364.79 | 49,900 | 149.50 | 13.4 |
| 1988..... | 485,707 | 6,708 | 42 | 392.73 | 50,659 | 162.51 | 13.5 |
| 1989..... | 508,673 | 5,238 | 40 | 415.75 | 40,833 | 170.03 | 12.0 |
| 1990..... | 533,229 | 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 | 46 | 492.94 | 144,741 | 235.48 | 14.8 |
| 1993..... | 542,333 | 13,227 | 55 | 503.02 | 165,877 | 246.31 | 17.6 |
| 1994..... | 540,015 | 15,228 | 44 | 514.13 | 193,878 | 258.72 | 17.4 |
| 1995..... | (NA) | 15,219 | 48 | (NA) | 208,316 | 262.21 | 16.0 |

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book, 1996*, and records.

Table 11.16-- CHILD DAY CARE SERVICES (SIC 835) WITH PAYROLL, BY FEDERAL INCOME TAX STATUS AND BROAD GEOGRAPHIC AREA: 1987 AND 1992

[Child day care services without payroll subject to Federal income tax, not included in this table, numbered 1,235 establishments in 1992 with receipts of \$9,069,000]

| Geographic area | Number of establishments | | Receipts or revenue (\$1,000) | | Paid employees, March 12 | |
|-----------------------|--------------------------|------------|-------------------------------|------------|--------------------------|------------|
| | Subject to tax | Tax exempt | Subject to tax | Tax exempt | Subject to tax | Tax exempt |
| 1987 | | | | | | |
| State total | 32 | 89 | 3,049 | 15,748 | 225 | 999 |
| Oahu | 22 | 69 | 2,379 | 14,470 | 183 | 902 |
| Neighbor Islands..... | 10 | 20 | 670 | 1,278 | 42 | 97 |
| 1992 | | | | | | |
| State total | 42 | 120 | 5,105 | 27,580 | 234 | 1,353 |
| Oahu | 24 | 91 | 3,274 | 22,416 | 162 | 1,129 |
| Neighbor Islands..... | 18 | 29 | 1,831 | 5,164 | 72 | 224 |

Source: U.S. Bureau of the Census, *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), tables 1a, 1b, 8a, and 8b; *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a, 1b, 7a, 7b, 8a, and 8b; *1992 Census of Service Industries, Nonemployer Statistics Series, Summary*, SC92-N-1 (March 1995), table 3.

**Table 11.17-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS:
1993 AND 1994**

[Thousands of dollars]

| Year and island | Total revenues | Contributions | Total outlays | Agency allocation |
|--|----------------|---------------|---------------|-------------------|
| 1993 | | | | |
| Total reported | 19,167 | 17,837 | 18,634 | 14,655 |
| Aloha United Way (Oahu)..... | 15,989 | 14,686 | 15,400 | 12,208 |
| Hawaii Island United Way..... | 1,248 | 1,229 | 1,228 | 900 |
| United Way of Kauai. | 800 | 796 | 702 | 542 |
| Maui United Way..... | 1,086 | 1,082 | 1,259 | 971 |
| Friendly Isle United Way (Molokai) | 44 | 44 | 45 | 34 |
| 1994 | | | | |
| Total reported | 18,899 | 17,290 | 17,695 | 13,787 |
| Aloha United Way (Oahu)..... | 15,662 | 14,106 | 14,452 | 11,450 |
| Hawaii Island United Way..... | 1,275 | 1,250 | 1,219 | 900 |
| United Way of Kauai | 625 | 614 | 696 | 521 |
| Maui United Way..... | 1,282 | 1,273 | 1,288 | 888 |
| Friendly Isle United Way (Molokai) | 55 | 47 | 40 | 28 |

Source: Aloha United Way, *Annual Reports*; Hawaii Island United Way, Inc., *Financial Statements* and records; Friendly Isle United Way, records; United Way of Kauai, records; Maui United Way, records.

Table 11.18-- QUALITY OF LIFE GENERAL INDEX RANKINGS, FOR THE STATE AND HONOLULU METROPOLITAN STATISTICAL AREA: 1990 TO 1995

| Area, authority, and year of publication | Number of areas ranked | Hawaii or Honolulu rank |
|---|------------------------|-------------------------|
| State: | | |
| Morgan Quitno, 1991 <u>1/</u> | 50 | 7 |
| Morgan Quitno, 1992 <u>1/</u> | 50 | 6 |
| Morgan Quitno, 1993 <u>1/</u> | 50 | 9 |
| Morgan Quitno, 1994 <u>2/</u> | 50 | 20 |
| Thomas, 1995 <u>3/</u> | 50 | 2 |
| Morgan Quitno, 1995 <u>4/</u> | 50 | 24 |
| Honolulu MSA: | | |
| Eisenberg and Smith, 1990 <u>5/</u> | 300 | 27 |
| Smith and Englander, 1991 <u>6/</u> | 300 | 27 |
| Smith and Englander, 1992 <u>7/</u> | 300 | 7 |
| Smith and Nance-Nash, 1993 <u>8/</u> | 300 | 124 |
| Smith and Nance-Nash, 1994 <u>9/</u> | 300 | 155 |
| Smith and Nance-Nash, 1995 <u>10/</u> | 300 | 102 |

1/ Morgan Quitno (publisher), *State Rankings* (annual), cited in *Honolulu Advertiser*, October 8, 1991, p. D5, March 10, 1992, p. A10, and April 14, 1993, p. A5.

2/ Morgan Quitno (publisher), *State Rankings 1994* (May 1994).

3/ G. Scott Thomas, *The Rating Guide to Life in America's Fifty States*, cited in *American Demographics*, February 1995, pp. 13-14.

4/ Morgan Quitno (publisher), *State Rankings 1995* (June 1995).

5/ Richard Eisenberg and Marguerite T. Smith, "The Best Places to Live Now," *Money*, September 1990, pp. 78-95.

6/ Marguerite T. Smith and Debra Wishik Englander, "The Best Places to Live Now," *Money*, September 1991, pp. 130-146.

7/ Marguerite T. Smith and Debra Wishik Englander, "The Best Places to Live in America," *Money*, September 1992, pp. 110-124.

8/ Marguerite T. Smith and Sheryl Nance-Nash, "The Best Places to Live Now," *Money*, September 1993, pp. 124-142.

9/ Marguerite T. Smith and Sheryl Nance-Nash, "The Best Places to Live in America," *Money*, September 1994, pp. 126-138.

10/ Marguerite T. Smith and Sheryl Nance-Nash, "The Best Places to Live Today," *Money*, September 1995, pp. 126-146.

Section 12

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by occupation, industry, and class of worker, payrolls, wage rates, hours, industrial safety, unionization, and strikes. Related series appear in Sections 3, 9, 10, and 19 through 23.

The civilian labor force averaged 579,800 in 1995; of this total, 545,800 persons were employed and 34,000 were unemployed and seeking work. The civilian jobcount rose from 473,150 in 1985 to 576,200 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders--"moonlighters"--only once. Eight percent of all persons currently employed in the summer of 1988 held two or more jobs.) Areas with large concentrations of workers in 1980 included downtown Honolulu (46,000), Waikiki (30,000), and Pearl Harbor-Hickam (15,000); data for 1990 are still unavailable. The unemployment rate averaged 5.9 percent in 1995, with individual island levels ranging from 4.6 to 11.4 percent. By occupation, almost three out of ten civilian workers are classified as professional or managerial. Activities with especially large numbers of employees include services (165,000 in 1995), retail trade (114,000), and government (also 111,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached \$26,700 in 1994, or 0.7 percent more than the 1984 average after adjustment for inflation. Average weekly hours in 1995 by industry ranged from 25.6 (for eating and drinking places) to 42.0 (for communication and utilities). Labor union membership was estimated at 166,000 in 1994. Work stoppages in 1994 involved more than 12,000 workers.

Principal sources for the data on labor force, employment, place of work, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's Current Population Survey, reports by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. *Historical Statistics of Hawaii*, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 13 of the *Statistical Abstract of the United States: 1995*.

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 | 424,203 |
| Labor force..... | 186,507 | 222,221 | 290,420 | 335,651 |
| Percent in labor force..... | 84.8 | 81.5 | 78.3 | 77.3 |
| Armed forces..... | 46,626 | 48,860 | 54,032 | 47,441 |
| Civilian labor force..... | 139,881 | 173,361 | 236,388 | 288,210 |
| Employed..... | 135,481 | 168,940 | 225,331 | 277,735 |
| Unemployed..... | 4,400 | 4,421 | 11,057 | 10,475 |
| Percent of civ. labor force | 3.1 | 2.6 | 4.7 | 3.6 |
| Not in labor force..... | 33,315 | 50,505 | 80,263 | 98,552 |
| FEMALE | | | | |
| Persons 16 years and over..... | 183,115 | 249,292 | 352,796 | 421,315 |
| Labor force..... | 76,943 | 122,048 | 203,803 | 266,697 |
| Percent in labor force..... | 42.0 | 49.0 | 57.8 | 63.3 |
| Armed forces..... | 629 | 925 | 4,411 | 6,560 |
| Civilian labor force..... | 76,314 | 121,123 | 199,392 | 260,137 |
| Employed..... | 71,975 | 116,616 | 189,850 | 251,324 |
| Unemployed..... | 4,339 | 4,507 | 9,542 | 8,813 |
| Percent of civ. labor force | 5.7 | 3.7 | 4.8 | 3.4 |
| Not in labor force..... | 106,172 | 127,244 | 148,993 | 154,618 |

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960*, and *Detailed Characteristics, Hawaii*, PC(1)-13D (1962), table 115; *1970 Census of Population, General Social and Economic Characteristics, Hawaii*, PC(1)-C13 (December 1971), table 53; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61; *1990 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 | The State | Hawaii | Hono-lulu | Kala-wao | Kauai | Maui |
|--|-----------|--------|-----------|----------|--------|--------|
| Population 16 years and over | 855,518 | 88,999 | 651,920 | 130 | 38,348 | 76,121 |
| Female | 421,315 | 44,417 | 320,345 | 55 | 19,124 | 37,374 |
| Percent in labor force | 70.4 | 64.2 | 71.1 | 31.5 | 68.9 | 72.5 |
| Female | 63.3 | 58.6 | 63.6 | 25.5 | 63.7 | 66.2 |
| Civilian labor force | 548,347 | 56,986 | 410,023 | 41 | 26,185 | 55,112 |
| Percent unemployed | 3.5 | 4.6 | 3.5 | - | 3.6 | 2.7 |
| Worked in 1989 | 639,859 | 62,296 | 490,444 | 55 | 28,258 | 58,806 |
| 40 or more weeks | 509,005 | 47,196 | 393,023 | 42 | 22,290 | 46,452 |
| Usually worked 35 or more hours per week, 50 to 52 weeks | 369,436 | 33,652 | 287,224 | 35 | 15,594 | 32,931 |
| Females with own children under 6 years | 68,218 | 7,584 | 51,261 | - | 3,228 | 6,145 |
| Percent in labor force | 63.4 | 60.5 | 63.1 | - | 70.5 | 65.5 |
| Own children under 6 years in families and sub-families, all parents in household in labor force | 57,489 | 6,274 | 42,594 | - | 2,983 | 5,638 |

Source: U.S. Bureau of the Census *1990 Census of Population and Housing, Summary Social, Economic, and Housing Characteristics, Hawaii*, 1990 CPH-5-13 (April 1992), table 6.

**Table 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, 1992 AND 1993

[Numbers in thousands]

| Labor force status | Persons 16 years and over | | | 16 to 19 years (both sexes) |
|---|---------------------------|------|-------|-----------------------------|
| | Both sexes | Men | Women | |
| 1992 | | | | |
| Civilian noninstitutional population..... | 832 | 393 | 438 | 51 |
| Civilian labor force..... | 572 | 301 | 271 | 26 |
| Percent of population | 68.8 | 76.5 | 61.9 | 50.9 |
| Employment..... | 547 | 287 | 260 | 22 |
| Percent of population | 65.7 | 72.9 | 59.3 | 42.5 |
| Unemployment..... | 26 | 14 | 11 | 4 |
| Rate <u>1/</u> | 4.5 | 4.8 | 4.2 | 16.4 |
| Not in civilian labor force | 260 | 92 | 167 | 25 |
| 1993 | | | | |
| Civilian noninstitutional population..... | 854 | 405 | 449 | 46 |
| Civilian labor force..... | 583 | 305 | 277 | 19 |
| Percent of population | 68.2 | 75.4 | 61.8 | 41.7 |
| Employment..... | 558 | 292 | 266 | 17 |
| Percent of population | 65.4 | 72.0 | 59.4 | 36.0 |
| Unemployment..... | 25 | 14 | 11 | 3 |
| Rate <u>1/</u> | 4.2 | 4.5 | 3.9 | 13.9 |
| Not in civilian labor force | 271 | 100 | 172 | 27 |

1/ Percent of civilian labor force. The 1993 error ranges for these rates, at the 90-percent confidence level, are: both sexes, 3.6-4.8; men, 3.7-5.3; women, 3.1-4.7; 16-19, 8.7-19.0.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1992* (Bulletin 2428, July 1993), p. 40, and *Geographic Profile of Employment and Unemployment, 1993* (Bulletin 2446, Sept. 1994), p. 40.

**Table 12.05-- CIVILIAN LABOR FORCE, TOTAL AND FEMALE, BY RACE
AND HISPANIC ORIGIN: 1994**

| Race or origin <u>1/</u> | Both sexes | Female |
|---------------------------------------|------------|---------|
| All races | 583,000 | 276,000 |
| White | 189,400 | 87,400 |
| Asian or Pacific Islander | 374,950 | 179,850 |
| Japanese | 145,300 | 89,350 |
| Filipino | 95,650 | 47,100 |
| Hawaiian | 66,300 | 31,200 |
| Chinese | 38,650 | 18,200 |
| Korean | 12,750 | 6,900 |
| Other Asian or Pacific Islander | 16,300 | 7,150 |
| Black | 7,450 | 3,700 |
| American Indian, Eskimo, Aleut | 2,800 | 1,400 |
| Other race | 8,400 | 3,650 |
| Minority group | 393,600 | 188,600 |
| Hispanic (all races) | 35,550 | 16,650 |

1/ Based on census definitions. Persons of mixed race are classified by self-identification or race of mother.

Source: Hawaii State Department of Labor and Industrial Relations, unpublished estimates.

**Table 12.06-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE:
ANNUAL AVERAGES, 1980 TO 1995**

| Year | Civilian labor force | Civilian employment | 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 | 3.2 |
| 1989..... | 525,000 | 511,000 | 13,000 | 2.6 |
| 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..... | 582,850 | 547,550 | 35,300 | 6.1 |
| 1995..... | 579,800 | 545,800 | 34,000 | 5.9 |

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual) and Internet site <http://www.hawaii.gov/workforce/index.html>.

**Table 12.07-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE,
FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1985 TO 1995**

[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 | | | | | | | |
| 1985..... | 359,600 | 50,400 | 22,050 | 46,950 | 1,050 | 43,550 | 2,300 |
| 1986..... | 368,700 | 51,300 | 23,400 | 48,600 | 1,050 | 45,050 | 2,500 |
| 1987..... | 383,400 | 54,050 | 24,900 | 51,600 | 1,000 | 48,050 | 2,600 |
| 1988..... | 384,100 | 54,900 | 26,000 | 52,750 | 1,050 | 49,200 | 2,450 |
| 1989..... | 384,500 | 56,900 | 27,600 | 55,000 | 1,450 | 51,300 | 2,250 |
| 1990..... | 402,300 | 57,500 | 25,750 | 56,500 | 1,400 | 52,400 | 2,700 |
| 1991..... | 419,850 | 63,800 | 28,600 | 61,500 | 1,550 | 57,300 | 2,650 |
| 1992..... | 423,350 | 65,350 | 29,450 | 65,900 | 1,600 | 61,250 | 3,050 |
| 1993..... | 426,400 | 65,300 | 28,350 | 66,000 | 1,550 | 61,600 | 2,850 |
| 1994..... | 422,350 | 65,650 | 28,800 | 66,100 | 1,500 | 61,700 | 2,900 |
| 1995..... | 420,850 | 64,300 | 28,450 | 66,200 | 1,650 | 61,600 | 3,000 |
| CIVILIAN EMPLOYMENT | | | | | | | |
| 1985..... | 341,150 | 46,150 | 20,550 | 44,150 | 850 | 41,300 | 2,000 |
| 1986..... | 352,500 | 47,500 | 22,000 | 46,050 | 900 | 42,950 | 2,150 |
| 1987..... | 369,850 | 50,950 | 23,850 | 49,350 | 850 | 46,250 | 2,250 |
| 1988..... | 373,500 | 52,200 | 25,050 | 51,000 | 950 | 47,800 | 2,250 |
| 1989..... | 375,950 | 54,700 | 26,800 | 53,550 | 1,300 | 50,200 | 2,050 |
| 1990..... | 393,300 | 55,200 | 24,700 | 53,800 | 1,300 | 50,300 | 2,200 |
| 1991..... | 411,250 | 60,900 | 27,400 | 58,200 | 1,450 | 54,350 | 2,400 |
| 1992..... | 410,700 | 60,050 | 26,400 | 60,250 | 1,500 | 56,200 | 2,550 |
| 1993..... | 413,250 | 60,400 | 24,700 | 62,500 | 1,400 | 58,500 | 2,600 |
| 1994..... | 402,750 | 58,550 | 24,700 | 61,600 | 1,400 | 57,600 | 2,600 |
| 1995..... | 401,500 | 57,700 | 25,150 | 61,400 | 1,550 | 57,200 | 2,650 |

Continued on next page.

Table 12.07-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1985 TO 1995 -- Con.

| Year | Oahu | Hawaii County | Kauai County | Maui County | | | |
|---------------------------|--------|---------------|--------------|--------------|-------|-------|---------|
| | | | | County total | Lanai | Maui | Molokai |
| UNEMPLOYED | | | | | | | |
| 1985..... | 18,450 | 4,250 | 1,500 | 2,800 | 200 | 2,250 | 300 |
| 1986..... | 16,200 | 3,850 | 1,400 | 2,550 | 100 | 2,100 | 350 |
| 1987..... | 13,550 | 3,100 | 1,100 | 2,250 | 150 | 1,800 | 300 |
| 1988..... | 10,600 | 2,700 | 950 | 1,750 | 100 | 1,450 | 200 |
| 1989..... | 8,550 | 2,200 | 800 | 1,450 | 100 | 1,100 | 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..... | 19,600 | 7,100 | 4,100 | 4,500 | 100 | 4,100 | 300 |
| 1995..... | 19,300 | 6,600 | 3,250 | 4,850 | 100 | 4,400 | 350 |
| PERCENT UNEMPLOYED | | | | | | | |
| 1985..... | 5.1 | 8.5 | 6.8 | 5.9 | 20.1 | 5.2 | 13.0 |
| 1986..... | 4.4 | 7.5 | 5.9 | 5.3 | 11.5 | 4.7 | 13.4 |
| 1987..... | 3.5 | 5.8 | 4.3 | 4.4 | 14.9 | 3.7 | 12.2 |
| 1988..... | 2.8 | 4.9 | 3.7 | 3.3 | 7.5 | 2.9 | 8.8 |
| 1989..... | 2.2 | 3.9 | 2.8 | 2.6 | 8.3 | 2.2 | 9.8 |
| 1990..... | 2.2 | 4.0 | 4.1 | 4.8 | 5.9 | 4.1 | 18.1 |
| 1991..... | 2.0 | 4.5 | 4.1 | 5.4 | 6.7 | 5.1 | 10.1 |
| 1992..... | 3.0 | 8.1 | 10.3 | 8.6 | 7.8 | 8.3 | 16.0 |
| 1993..... | 3.1 | 7.5 | 12.8 | 5.3 | 8.9 | 5.0 | 8.4 |
| 1994..... | 4.6 | 10.8 | 14.2 | 6.8 | 7.1 | 6.6 | 10.8 |
| 1995..... | 4.6 | 10.2 | 11.5 | 7.3 | 5.3 | 7.2 | 11.4 |

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and Internet site <http://www.hawaii.gov/workforce/index.html>.

**Table 12.08-- CHARACTERISTICS OF THE INSURED UNEMPLOYED:
ANNUAL AVERAGES, 1994**

[Percent distributions. Includes all eligible claimants who filed new claims for unemployment insurance benefits during the year. Includes both intrastate and interstate agent claimants]

| Characteristic | Percent | Characteristic | Percent |
|------------------------------|---------|-------------------------------|---------|
| Total | 100.0 | Industry--con.: | |
| Age: | | Fin., ins., real estate | 4.5 |
| Under 22 years | 2.4 | Services | 23.0 |
| 22 to 24 years | 5.8 | Hotel | 5.0 |
| 25 to 34 years | 30.3 | Others..... | 3.3 |
| 35 to 44 years..... | 30.6 | Occupation: | |
| 45 to 54 years..... | 18.5 | Prof., tech., mgr..... | 19.9 |
| 55 to 64 years..... | 9.5 | Clerical, sales | 17.0 |
| 65 years and over..... | 2.9 | Services | 13.1 |
| Sex: | | Farm, fish., forest | 3.7 |
| Male | 66.6 | Processing..... | 0.7 |
| Female | 33.4 | Machine trades | 2.1 |
| Industry: | | Bench work..... | 1.0 |
| Government | 6.0 | Structural work..... | 35.0 |
| Agriculture | 4.1 | Miscellaneous..... | 6.1 |
| Construction | 31.8 | Not available..... | 1.5 |
| Manufacturing..... | 4.6 | Duration: | |
| Trans., commun., util..... | 6.6 | 1 to 4 weeks..... | 32.3 |
| Wholesale, retail trade..... | 16.2 | 5 to 14 weeks..... | 38.5 |
| | | 15 weeks and over..... | 29.2 |

Source: Hawaii State Department of Labor and Industrial Relations, *Characteristics of the Insured Unemployed in Hawaii 1994*.

**Table 12.09-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES,
1980 TO 1995**

[Persons holding more than one job are counted in each position. As a result, these data differ from corresponding estimates of employment, reported elsewhere in this section. Active-duty armed forces are excluded, unless also employed in civilian jobs. Persons not working because of labor disputes are included. Because of a change in the method of estimating nonagricultural self-employed and unpaid family workers, jobcount estimates for 1987 and later years are not exactly comparable to those for earlier years]

| Year | State total | City and County of Honolulu | Hawaii County | Kauai County | Maui County |
|-------------|--------------------|------------------------------------|----------------------|---------------------|--------------------|
| 1980..... | 448,150 | 357,900 | 38,200 | 18,400 | 33,850 |
| 1981..... | 449,900 | 357,350 | 39,050 | 18,300 | 35,150 |
| 1982..... | 446,050 | 352,150 | 39,050 | 18,300 | 36,600 |
| 1983..... | 453,750 | 357,100 | 39,850 | 18,900 | 37,850 |
| 1984..... | 460,450 | 361,600 | 41,000 | 18,950 | 38,850 |
| 1985..... | 473,150 | 369,800 | 42,400 | 19,900 | 41,100 |
| 1986..... | 486,850 | 379,800 | 43,300 | 21,200 | 42,500 |
| 1987..... | 504,950 | 391,800 | 45,600 | 22,450 | 45,100 |
| 1988..... | 524,500 | 404,550 | 47,500 | 24,250 | 48,100 |
| 1989..... | 552,000 | 421,650 | 52,000 | 26,600 | 51,850 |
| 1990..... | 574,950 | 435,950 | 55,850 | 27,250 | 55,650 |
| 1991..... | 588,200 | 441,850 | 59,400 | 28,800 | 58,250 |
| 1992..... | 591,300 | 443,850 | 58,950 | 27,900 | 60,600 |
| 1993..... | 589,700 | 442,650 | 58,800 | 25,850 | 62,400 |
| 1994..... | 582,100 | 436,250 | 57,550 | 26,150 | 62,150 |
| 1995..... | 576,200 | 431,750 | 56,300 | 26,500 | 61,600 |

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and records.

**Table 12.10-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES,
1990 TO 1995**

| Industry | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|--|---------|---------|---------|---------|---------|---------|
| Nonagriculture, wage and salary | 528,400 | 539,150 | 542,800 | 538,900 | 536,200 | 532,700 |
| Construction, mining | 32,300 | 33,550 | 31,550 | 32,350 | 29,200 | 26,400 |
| Manufacturing | 21,050 | 20,450 | 19,700 | 19,150 | 17,750 | 16,950 |
| Durable goods..... | 4,400 | 4,450 | 4,250 | 4,100 | 4,100 | 3,500 |
| Nondurable goods | 16,650 | 16,000 | 15,450 | 15,050 | 13,650 | 13,400 |
| Food processing <u>1/</u> | 9,350 | 8,750 | 8,350 | 7,850 | 6,700 | 6,400 |
| Pineapple..... | 1,650 | 1,350 | 1,200 | 900 | (NS) | (NS) |
| Sugar..... | 2,550 | 2,350 | 2,200 | 2,050 | (NS) | (NS) |
| Other | 5,150 | 5,000 | 4,950 | 4,900 | (NS) | (NS) |
| Textile, apparel..... | 2,200 | 2,100 | 2,100 | 2,250 | 2,250 | 2,200 |
| Printing, publishing | 3,600 | 3,650 | 3,500 | 3,500 | 3,350 | 3,300 |
| Other nondurables..... | 1,500 | 1,500 | 1,450 | 1,450 | 1,400 | 1,500 |
| Transp., commun., utilities ... | 42,250 | 43,300 | 43,250 | 41,300 | 41,800 | 40,700 |
| Transportation..... | 31,850 | 32,850 | 32,900 | 31,350 | 31,900 | 30,700 |
| Communication..... | 7,400 | 7,350 | 6,900 | 6,400 | 6,250 | 6,250 |
| Utilities..... | 3,000 | 3,100 | 3,400 | 3,550 | 3,650 | 3,750 |
| Trade..... | 135,950 | 136,450 | 135,750 | 133,000 | 133,300 | 135,650 |
| Wholesale..... | 22,500 | 22,750 | 22,500 | 21,950 | 21,550 | 21,500 |
| Retail | 113,450 | 113,700 | 113,250 | 111,100 | 111,750 | 114,150 |
| Finance, insur., real estate ... | 36,800 | 37,400 | 37,950 | 38,950 | 38,400 | 37,100 |
| Services and miscellaneous. | 154,400 | 159,100 | 163,550 | 162,550 | 163,900 | 164,800 |
| Hotels..... | 38,750 | 40,800 | 40,950 | 38,000 | 38,000 | 37,900 |
| Other services, misc..... | 115,650 | 118,300 | 122,600 | 124,550 | 125,900 | 126,900 |
| Government..... | 105,600 | 108,900 | 111,100 | 111,600 | 111,850 | 111,050 |
| Federal..... | 34,150 | 33,850 | 33,250 | 31,800 | 31,250 | 30,700 |
| Air Force | 2,300 | 2,250 | 2,200 | 2,150 | 2,000 | 2,100 |
| Army | 5,600 | 5,400 | 4,800 | 4,600 | 4,600 | 4,450 |
| Navy..... | 11,450 | 11,200 | 11,100 | 10,700 | 10,250 | 10,200 |
| Other..... | 14,800 | 15,050 | 15,200 | 14,350 | 14,050 | 13,950 |
| State | 57,050 | 60,250 | 62,600 | 64,250 | 65,000 | 63,950 |
| Local | 14,400 | 14,750 | 15,250 | 15,500 | 15,600 | 16,450 |
| Agriculture, wage and salary | 9,550 | 9,550 | 9,300 | 8,550 | 8,000 | 7,300 |
| Sugar..... | 3,100 | 2,950 | 2,850 | 2,500 | (NS) | (NS) |
| Pineapple..... | 1,850 | 1,700 | 1,450 | 1,350 | (NS) | (NS) |
| Other..... | 4,600 | 4,850 | 5,000 | 4,700 | (NS) | (NS) |
| Nonagric., self-employed <u>2/</u> | 32,750 | 35,250 | 34,850 | 38,300 | 34,050 | 32,350 |
| Agric., self-employed <u>3/</u> | 3,600 | 4,250 | 4,350 | 3,950 | 3,850 | 3,850 |
| Labor disputes | 650 | - | - | (Z) | (Z) | (Z) |

Footnotes and source follow next table.

**Table 12.11-- JOBCOUNT BY INDUSTRY, BY COUNTIES:
ANNUAL AVERAGES, 1995**

| Industry | State total | City and County of Honolulu | Hawaii County | Kauai County | Maui County |
|--|----------------|-----------------------------------|------------------|-----------------|----------------|
| Nonagriculture, wage and salary | 532,700 | 408,400 | 46,850 | 23,500 | 53,900 |
| Construction, mining | 26,400 | 20,400 | 2,550 | 1,500 | 2,000 |
| Manufacturing | 16,950 | 12,900 | 1,750 | 500 | 1,750 |
| Durable goods | 3,500 | 3,000 | 250 | (Z) | 250 |
| Nondurable goods | 13,400 | 9,950 | 1,500 | 450 | 1,500 |
| Food processing <u>1/</u> | 6,400 | 3,750 | 1,150 | 300 | 1,200 |
| Textile, apparel | 2,200 | 2,100 | (NS) | (NS) | (NS) |
| Printing, publishing | 3,300 | 2,700 | (NS) | (NS) | (NS) |
| Other nondurables | 1,500 | 1,400 | (NS) | (NS) | (NS) |
| Transp., commun., utilities.... | 40,700 | 33,200 | 2,550 | 1,500 | 3,400 |
| Transportation | 30,700 | 25,350 | (NS) | (NS) | (NS) |
| Communication | 6,250 | 5,150 | 400 | 200 | 500 |
| Utilities | 3,750 | 2,700 | 500 | 200 | 400 |
| Trade | 135,650 | 101,450 | 12,550 | 6,650 | 15,000 |
| Wholesale | 21,500 | 17,850 | 1,700 | 550 | 1,400 |
| Retail | 114,150 | 83,550 | 10,900 | 6,100 | 13,600 |
| Finance, insur., real estate.... | 37,100 | 30,500 | 2,300 | 1,400 | 2,950 |
| Services and miscellaneous.. | 164,800 | 120,500 | 15,050 | 7,900 | 21,400 |
| Hotels | 37,900 | 18,200 | 5,550 | 3,150 | 10,950 |
| Other services, misc. | 126,900 | 102,300 | 9,500 | 4,750 | 10,450 |
| Government | 111,050 | 89,500 | 10,100 | 4,050 | 7,400 |
| Federal | 30,700 | 28,950 | 900 | 400 | 450 |
| Air Force, Army, Navy . | 16,750 | 16,450 | (NS) | (NS) | (NS) |
| Other | 13,950 | 12,550 | (NS) | (NS) | (NS) |
| State | 63,950 | 49,300 | 7,100 | 2,550 | 5,000 |
| Local | 16,450 | 11,300 | 2,100 | 1,100 | 1,950 |
| Agriculture, wage and salary | 7,300 | 1,950 | 2,500 | 950 | 1,900 |
| Nonagric., self-employed <u>2/</u> | 32,350 | 20,650 | 4,600 | 1,750 | 5,350 |
| Agric., self-employed <u>3/</u> | 3,850 | 750 | 2,350 | 300 | 450 |
| Labor disputes | (Z) | (Z) | - | - | - |

Footnotes and source on next page.

**Table 12.11-- JOBCOUNT BY INDUSTRY, BY COUNTIES:
ANNUAL AVERAGE, 1995 -- Con.**

Z Fewer than 50.

NS Not shown separately.

1/ Data for 1994 and 1995 not comparable with earlier years.

2/ Includes unpaid family workers and domestics.

3/ Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (annual), and records.

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-- OCCUPATION: 1970 TO 1990

| Occupation | 1970 | 1980 | 1990 |
|--|---------|---------|---------|
| Employed persons 16 years and over..... | 285,556 | 415,181 | 529,059 |
| Managerial and professional specialty occupations..... | 58,242 | 97,606 | 139,523 |
| Executive, administrative, and managerial occupations | 25,048 | 48,671 | 67,907 |
| Professional specialty occupations..... | 33,194 | 48,935 | 71,616 |
| Technical, sales, and administrative support occupations.. | 83,698 | 132,651 | 172,654 |
| Technicians and related support occupation..... | 7,442 | 11,982 | 18,404 |
| Sales occupations..... | 28,227 | 47,475 | 66,596 |
| Administrative support occupations, including clerical... | 48,029 | 73,194 | 87,654 |
| Service occupations | 44,024 | 74,149 | 92,882 |
| Private household occupations | 2,131 | 1,547 | 1,075 |
| Protective service occupations | 4,304 | 7,578 | 10,956 |
| Service occupations, except protective and household . | 37,589 | 65,024 | 80,851 |
| Farming, forestry, and fishing occupations..... | 12,572 | 14,154 | 15,328 |
| Precision production, craft, and repair occupations..... | 43,484 | 48,198 | 55,518 |
| Operators, fabricators, and laborers..... | 43,536 | 48,423 | 53,154 |
| Machine operators, assemblers, and inspectors..... | 13,589 | 14,000 | 15,380 |
| Transportation and material moving occupations | 13,767 | 16,430 | 18,796 |
| Handlers, equipment cleaners, helpers, and laborers.... | 16,180 | 17,993 | 18,978 |

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), table 61; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 25.

Table 12.14-- EMPLOYMENT BY CLASS OF WORKER: 1940 TO 1990

[Persons 14 years and over through 1960; 16 years and over, 1970 to 1990]

| Year | All employed civilians | Private wage and salary workers | Government workers | Self-employed workers | Unpaid family workers |
|-----------|------------------------|---------------------------------|--------------------|-----------------------|-----------------------|
| 1940..... | 153,796 | 113,551 | 18,553 | 15,967 | 5,725 |
| 1950..... | 167,571 | 111,036 | 34,400 | 19,192 | 2,943 |
| 1960..... | 209,370 | 144,602 | 46,078 | 17,009 | 1,681 |
| 1970..... | 285,556 | 200,912 | 70,547 | 12,832 | 1,265 |
| 1980..... | 415,181 | 300,315 | 90,401 | 22,965 | 1,500 |
| 1990..... | 529,059 | 385,061 | 107,777 | 34,291 | 1,930 |

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii*, Final Report PC (1)-13C (February 1962), table 56; *1970 Census of Population, General Social and Economic Characteristics, Hawaii*, PC(1)-C13 (December 1971), table 56; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 67; *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 27.

Table 12.15-- CIVILIAN EMPLOYMENT, FULL- AND PART-TIME: ANNUAL AVERAGES, 1993

[Thousands]

| Year, sex, and age | Full- and part-time | Full time | Part-time | | |
|---------------------------------|---------------------|-----------|-----------|-----------|------------------|
| | | | Total | Voluntary | Economic reasons |
| Total | 558 | 475 | 83 | 66 | 17 |
| Male | 292 | 261 | 31 | 24 | 7 |
| Female..... | 266 | 214 | 52 | 42 | 10 |
| 16 to 19 years (both sexes) ... | 17 | 7 | 9 | 8 | 1 |

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1993* (Bulletin 2446, Sept. 1994), table 13.

**Table 12.16-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX:
ANNUAL AVERAGES, 1993**

| Occupation | Both sexes | Men | Women |
|---|---------------|-------|-------|
| All occupations (number in thousands)..... | 558 | 292 | 266 |
| Percent | 100.0 | 100.0 | 100.0 |
| Managerial and professional specialty: | | | |
| Executive, administrative, and managerial..... | 14.3 | 15.1 | 13.4 |
| Professional specialty | 13.3 | 11.0 | 15.7 |
| Technical, sales, and administrative support: | | | |
| Technicians and related support | 3.4 | 3.3 | 3.5 |
| Sales | 12.2 | 10.3 | 14.4 |
| Administrative support, including clerical | 16.1 | 5.7 | 27.6 |
| Service occupations | 17.5 | 16.1 | 19.1 |
| Precision production, craft, and repair | 10.7 | 19.0 | 1.6 |
| Operators, fabricators, and laborers: | | | |
| Machine operators, assemblers, and inspectors. | 1.9 | 2.6 | 1.1 |
| Transportation and material moving..... | 3.6 | 5.8 | 1.1 |
| Handlers, equipment cleaners, helpers, and laborers..... | 3.6 | 5.8 | 1.3 |
| Farming, forestry, and fishing | 3.4 | 5.3 | 1.3 |

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1993* (Bulletin 2446, September 1994), table 15.

Table 12.17-- 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 <u>1/</u> | Remainder of Oahu <u>1/</u> |
| Total | 437,518 | 193,364 | 244,154 |
| Oahu | 432,293 | 191,982 | 240,311 |
| Honolulu CDP <u>1/</u> | 277,583 | 171,387 | 106,196 |
| Remainder of Oahu <u>1/</u> | 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 12.18-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1984 TO 1994

| Year | Number of reporting units, December 1/ | Average employment | Wages and salaries | |
|---------------------------------|--|--------------------|--------------------|----------------------|
| | | | Total (\$1,000) | Per worker (dollars) |
| INCLUDING GOVERNMENT | | | | |
| 1984..... | 21,288 | 421,821 | 7,050,512 | 16,714 |
| 1985..... | 21,945 | 434,400 | 7,530,505 | 17,335 |
| 1986..... | 24,510 | 446,756 | 8,072,318 | 18,069 |
| 1987..... | 24,686 | 468,027 | 8,920,628 | 19,060 |
| 1988..... | 24,787 | 484,483 | 9,909,719 | 20,454 |
| 1989..... | 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 | 26,738 |
| EXCLUDING GOVERNMENT | | | | |
| 1989..... | 26,143 | 413,046 | 8,532,379 | 20,657 |
| 1990..... | 27,271 | 432,910 | 9,625,759 | 22,235 |
| 1991..... | 29,682 | 439,337 | 10,183,763 | 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 |
| PRIVATE NON-AGRICULTURAL | | | | |
| 1989..... | 25,554 | 401,002 | 8,304,991 | 20,711 |
| 1990..... | 26,647 | 420,717 | 9,386,430 | 22,311 |
| 1991..... | 29,031 | 427,001 | 9,933,990 | 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 |

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 12.19-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1993

| County | Number of reporting units, Dec. <u>1</u> / ¹ | Average employment | Total wages (\$1,000) | Average annual wage (dollars) |
|-------------------------------|---|--------------------|-----------------------|-------------------------------|
| INCLUDING GOVERNMENT | | | | |
| State total | 30,944 | 542,481 | 14,399,646 | 26,544 |
| City and Co. of Honolulu..... | 21,714 | 413,042 | 11,377,745 | 27,546 |
| Hawaii County | 3,836 | 49,882 | 1,132,267 | 22,699 |
| Kauai County..... | 1,842 | 23,464 | 585,409 | 24,949 |
| Maui County..... | 3,558 | 56,094 | 1,304,225 | 23,251 |
| EXCLUDING GOVERNMENT | | | | |
| State total | 30,938 | 434,931 | 11,013,510 | 25,322 |
| City and Co. of Honolulu..... | 21,711 | 326,110 | 8,615,624 | 26,419 |
| Hawaii County | 3,823 | 40,357 | 843,291 | 20,896 |
| Kauai County..... | 1,839 | 19,355 | 464,112 | 23,979 |
| Maui County..... | 3,555 | 49,109 | 1,090,484 | 22,205 |

¹/ Not comparable to data for years before 1991.

Source: Hawaii State Department of Labor and Industrial Relations, *1993 Employment and Payrolls in Hawaii* (October 1994).

Table 12.20-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1994

| County | Number of employers, Dec. | Average employment | Total wages (\$1,000) | Average annual wage (dollars) |
|-------------------------------|---------------------------|--------------------|-----------------------|-------------------------------|
| INCLUDING GOVERNMENT | | | | |
| State total | 31,031 | 539,559 | 14,426,932 | 26,738 |
| City and Co. of Honolulu..... | 21,738 | 409,149 | 11,347,140 | 27,734 |
| Hawaii County | 3,827 | 49,616 | 1,134,974 | 22,875 |
| Kauai County..... | 1,819 | 24,240 | 586,927 | 24,213 |
| Maui County..... | 3,653 | 56,554 | 1,357,891 | 24,011 |
| EXCLUDING GOVERNMENT | | | | |
| State total | 31,025 | 431,500 | 11,066,502 | 25,647 |
| City and Co. of Honolulu..... | 21,735 | 322,233 | 8,636,912 | 26,803 |
| Hawaii County | 3,824 | 39,811 | 832,125 | 20,902 |
| Kauai County..... | 1,816 | 20,184 | 462,622 | 22,920 |
| Maui County..... | 3,650 | 49,271 | 1,134,843 | 23,033 |

Source: Hawaii State Department of Labor and Industrial Relations, *1994 Employment and Payrolls in Hawaii* (October 1995).

**Table 12.21-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII
EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION
FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1993**

| Industry | Number of reporting units, Dec. | Average employment | Total wages (\$1,000) | Average annual wage (dollars) |
|--|---------------------------------|--------------------|-----------------------|-------------------------------|
| All industries | 30,944 | 542,481 | 14,399,646 | 26,544 |
| Government | 6 | 107,551 | 3,386,135 | 31,484 |
| Federal | 1 | 32,040 | 1,089,063 | 33,991 |
| State | 1 | 59,991 | 1,789,957 | 29,837 |
| County | 4 | 15,520 | 507,116 | 32,675 |
| Private | 30,938 | 434,931 | 11,013,510 | 25,322 |
| Agriculture, forestry, fisheries ^{1/} | 684 | 11,925 | 271,913 | 22,802 |
| Mining | 9 | 303 | 14,252 | 47,037 |
| Construction | 2,891 | 32,212 | 1,295,205 | 40,209 |
| Manufacturing ^{1/} | 1,035 | 18,729 | 517,810 | 27,647 |
| Food processing ^{1/} | 244 | 7,178 | 171,220 | 23,853 |
| Other manufacturing | 791 | 11,551 | 346,590 | 30,005 |
| Transportation | 1,307 | 31,911 | 925,908 | 29,015 |
| Communications..... | 217 | 6,417 | 253,188 | 39,456 |
| Utilities | 93 | 3,550 | 179,916 | 50,681 |
| Wholesale trade..... | 2,428 | 21,953 | 663,218 | 30,211 |
| Retail trade | 7,256 | 111,033 | 1,775,917 | 15,994 |
| Eating and drinking places | 2,430 | 45,544 | 569,714 | 12,509 |
| Other retail trade..... | 4,826 | 65,489 | 1,206,203 | 18,418 |
| Finance, insurance, real estate | 3,996 | 39,040 | 1,218,467 | 31,211 |
| Services | 10,711 | 157,331 | 3,884,855 | 24,692 |
| Hotels, rooming houses, etc. | 321 | 37,995 | 822,467 | 21,647 |
| Health services | 2,262 | 33,026 | 1,141,929 | 34,577 |
| Other services..... | 8,128 | 86,310 | 1,920,459 | 22,251 |
| Nonclassifiable establishments | 311 | 526 | 12,859 | 24,447 |

^{1/} Separate data for sugar and pineapple are no longer available.

Source: Hawaii State Department of Labor and Industrial Relations, *1993 Employment and Payrolls in Hawaii* (October 1994), pp. 7-8.

Table 12.22-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1994

| Industry | Number of reporting units, Dec. | Average employment | Total wages (\$1,000) | Average annual wage (dollars) |
|--|---------------------------------|--------------------|-----------------------|-------------------------------|
| All industries | 31,031 | 539,559 | 14,426,932 | 26,738 |
| Government | 6 | 108,059 | 3,360,430 | 31,098 |
| Federal | 1 | 31,721 | 1,093,592 | 34,475 |
| State | 1 | 60,729 | 1,738,770 | 28,632 |
| County | 4 | 15,609 | 528,068 | 33,831 |
| Private | 31,025 | 431,500 | 11,066,502 | 25,647 |
| Agriculture, forestry, fisheries <u>1/</u> | 695 | 11,364 | 252,276 | 22,200 |
| Mining | 9 | 272 | 13,509 | 49,666 |
| Construction | 2,844 | 29,010 | 1,177,422 | 40,587 |
| Manufacturing <u>1/</u> | 1,015 | 17,825 | 511,236 | 28,681 |
| Food processing <u>1/</u> | 232 | 6,691 | 164,654 | 24,608 |
| Other manufacturing | 783 | 11,134 | 346,582 | 31,128 |
| Transportation | 1,299 | 31,830 | 934,764 | 29,367 |
| Communications..... | 223 | 6,231 | 248,901 | 39,946 |
| Utilities | 94 | 3,617 | 185,044 | 51,160 |
| Wholesale trade..... | 2,474 | 21,519 | 660,346 | 30,687 |
| Retail trade | 7,290 | 111,587 | 1,831,315 | 16,412 |
| Eating and drinking places | 2,493 | 45,789 | 583,877 | 12,751 |
| Other retail trade..... | 4,997 | 65,798 | 1,247,437 | 18,959 |
| Finance, insurance, real estate | 4,004 | 38,574 | 1,191,405 | 30,886 |
| Services | 10,865 | 159,271 | 4,050,950 | 25,434 |
| Hotels, rooming houses, etc..... | 311 | 38,092 | 864,873 | 22,705 |
| Health services | 2,312 | 33,675 | 1,201,491 | 351,679 |
| Other services..... | 8,242 | 87,504 | 1,984,586 | 22,680 |
| Nonclassifiable establishments | 213 | 402 | 9,333 | 23,216 |

1/ Separate data for sugar and pineapple are no longer available.

Source: Hawaii State Department of Labor and Industrial Relations, *1994 Employment and Payrolls in Hawaii* (October 1995).

Table 12.23-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND CONSTANT DOLLARS: 1969 TO 1994

| Year | Current dollars | 1982-1984 dollars <u>1/</u> | Year | Current dollars | 1982-1984 dollars <u>1/</u> |
|-----------|-----------------|-----------------------------|-----------|-----------------|-----------------------------|
| 1969..... | 6,876 | 17,452 | 1983..... | 16,115 | 16,229 |
| 1970..... | 7,424 | 17,889 | 1984..... | 16,714 | 16,149 |
| 1971..... | 7,677 | 17,771 | 1985..... | 17,335 | 16,231 |
| 1972..... | 7,989 | 17,913 | 1986..... | 18,069 | 16,516 |
| 1973..... | 8,479 | 18,195 | 1987..... | 19,060 | 16,588 |
| 1974..... | 9,087 | 17,645 | 1988..... | 20,454 | 16,807 |
| 1975..... | 9,767 | 17,348 | 1989..... | 21,635 | 16,810 |
| 1976..... | 10,347 | 17,508 | 1990..... | 23,156 | 16,768 |
| 1977..... | 10,903 | 17,557 | 1991..... | 24,116 | 16,295 |
| 1978..... | 11,630 | 17,384 | 1992..... | 25,532 | 16,462 |
| 1979..... | 12,429 | 16,728 | 1993..... | 26,544 | 16,580 |
| 1980..... | 13,548 | 16,323 | 1994..... | 26,738 | 16,254 |
| 1981..... | 14,471 | 15,781 | | | |
| 1982..... | 15,367 | 15,810 | | | |

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual).

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, BY CLASS OF WORKER: 1984 AND 1994

| Class of worker | 1984: current dollars | 1994 | | Percent change, 1984-1994 | |
|------------------|-----------------------------|--------------------|---------------------------|------------------------------|---------------------------|
| | | Current dollars | 1984 dollars <u>1/</u> | Current dollars | 1984 dollars <u>1/</u> |
| All classes..... | 16,714 | 26,738 | 16,827 | 60.0 | 0.7 |
| Federal..... | 25,712 | 34,475 | 21,696 | 34.1 | -15.6 |
| State | 18,217 | 28,632 | 18,019 | 57.2 | -1.1 |
| County..... | 19,633 | 33,831 | 21,291 | 72.3 | 8.4 |
| Private | 15,502 | 25,647 | 16,140 | 65.4 | 4.1 |

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu. The all-items index increased 58.9 percent during this period.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual).

Table 12.25-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: DECEMBER 1994

[Excluding government]

| Subject | All units | Employment-size class | | | | | |
|----------------------|--------------|-----------------------|--------|-------------|-------------|-------------|----------------|
| | | 1 to 4 | 5 to 9 | 10 to 19 | 20 to 49 | 50 to 99 | 100 or more |
| Reporting units..... | 31,025 | 16,600 | 6,271 | 4,077 | 2,581 | 883 | 613 |
| Employment..... | 437,590 | 29,743 | 41,532 | 55,012 | 78,189 | 59,944 | 173,170 |

Source: Hawaii State Department of Labor and Industrial Relations, *1994 Employment and Payrolls in Hawaii* (October 1994), p. 21.

**Table 12.26-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE:
1984 TO 1994**

[For earlier years, 1975-1983, see *Data Book 1987*, table 386]

| Year | Annual wages per employee (dollars) | | Hawaii ratio as percent of U.S ratio | | Rank <u>1/</u> | |
|-----------|-------------------------------------|--------------|--------------------------------------|--------------|----------------|--------------|
| | Total | Private only | Total | Private only | Total | Private only |
| 1984..... | 16,701 | 15,456 | 91.0 | 85.0 | 31 | 41 |
| 1985..... | 17,329 | 16,064 | 90.3 | 84.7 | 31 | 40 |
| 1986..... | 18,101 | 16,907 | 90.7 | 85.6 | 31 | 38 |
| 1987..... | 19,091 | 18,024 | 91.5 | 87.4 | 25 | 35 |
| 1988..... | 20,444 | 19,437 | 93.5 | 89.8 | 22 | 27 |
| 1989..... | 21,624 | 20,646 | 95.8 | 92.7 | 18 | 24 |
| 1990..... | 23,167 | 22,244 | 98.2 | 95.6 | 13 | 18 |
| 1991..... | 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 |

1/ Among 50 States and D.C. Excluding D.C., Hawaii ranked 12th for all workers and 16th for private workers in 1994.

Source: U.S. Bureau of Labor Statistics, *Employment and Wages, Annual Averages* (annual report).

**Table 12.27-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES:
ANNUAL AVERAGES, 1990 TO 1995**

| Subject | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|--------------------------------------|--------|--------|--------|--------|--------|--------|
| Average weekly earnings (dollars) | | | | | | |
| Construction | 778.95 | 803.32 | 792.06 | 864.88 | 898.18 | 922.27 |
| Manufacturing | 442.90 | 453.32 | 464.40 | 476.80 | 468.03 | 480.75 |
| Food and kindred products..... | 385.28 | 392.20 | 399.34 | 420.21 | 414.63 | 382.69 |
| Communication and utilities..... | 694.85 | 714.60 | 788.00 | 826.10 | 838.27 | 845.04 |
| Trade <u>1/</u> | 282.94 | 306.24 | 262.84 | 275.40 | 284.45 | 288.76 |
| Wholesale trade..... | 381.21 | 417.20 | 437.31 | 441.60 | 461.23 | 469.94 |
| Retail trade | 251.84 | 269.70 | 229.86 | 245.10 | 252.54 | 257.50 |
| Eating, drinking places | ... | ... | ... | 183.51 | 184.94 | 184.06 |
| Banking & credit agencies | 343.49 | 373.46 | 387.39 | 397.17 | 406.15 | 414.32 |
| Hotels..... | 318.40 | 333.00 | 351.42 | 367.73 | 386.46 | 406.90 |
| Average weekly hours | | | | | | |
| Construction | 38.6 | 38.0 | 36.4 | 37.9 | 37.3 | 36.7 |
| Manufacturing | 40.3 | 39.8 | 40.0 | 39.8 | 38.3 | 37.5 |
| Food and kindred products..... | 40.9 | 40.6 | 41.0 | 41.4 | 40.1 | 35.9 |
| Communication and utilities..... | 44.8 | 43.1 | 44.9 | 44.2 | 42.9 | 42.0 |
| Trade <u>1/</u> | 32.9 | 33.0 | 29.8 | 30.0 | 30.1 | 30.3 |
| Wholesale trade..... | 39.3 | 39.1 | 38.7 | 38.3 | 38.5 | 38.3 |
| Retail trade | 30.9 | 31.0 | 28.1 | 28.5 | 28.6 | 28.9 |
| Eating, drinking places | ... | ... | ... | 24.9 | 25.3 | 25.6 |
| Banking & credit agencies | 38.9 | 38.7 | 38.7 | 38.3 | 38.1 | 37.7 |
| Hotels..... | 34.2 | 33.4 | 33.5 | 33.4 | 33.9 | 34.6 |
| Average hourly earnings (dollars) | | | | | | |
| Construction | 20.18 | 21.14 | 21.76 | 22.82 | 24.08 | 25.13 |
| Manufacturing | 10.99 | 11.39 | 11.61 | 11.98 | 12.22 | 12.82 |
| Food and kindred products..... | 9.42 | 9.66 | 9.74 | 10.15 | 10.34 | 10.66 |
| Communication and utilities..... | 15.51 | 16.58 | 17.55 | 18.69 | 19.54 | 20.12 |
| Trade <u>1/</u> | 8.60 | 9.28 | 8.82 | 9.18 | 9.45 | 9.53 |
| Wholesale trade..... | 9.70 | 10.67 | 11.30 | 11.53 | 11.98 | 12.27 |
| Retail trade | 8.15 | 8.70 | 8.18 | 8.60 | 8.83 | 8.91 |
| Eating, drinking places | ... | ... | ... | 7.37 | 7.31 | 7.19 |
| Banking & credit agencies | 8.83 | 9.65 | 10.01 | 10.37 | 10.66 | 10.99 |
| Hotels..... | 9.31 | 9.97 | 10.49 | 11.01 | 11.40 | 11.76 |

1/ Excludes eating and drinking establishments before 1992.

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 12.28-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1991 TO 1995

[In dollars]

| Job classification ^{1/} | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|-------------|-------------|-------------|-------------|-------------|
| ANNUAL RATES | | | | | |
| Clerk, entry level | 14,736 | 15,588 | 16,407 | 17,170 | 17,794 |
| Cashier..... | 19,512 | 20,592 | 22,010 | 21,616 | 23,420 |
| Secretary..... | 22,452 | 24,072 | 25,016 | 25,907 | 26,636 |
| Switchboard operator..... | 17,424 | 19,596 | 21,303 | 22,110 | 22,870 |
| Bookkeeper, full-charge..... | 26,928 | 24,660 | 27,552 | 28,710 | 29,827 |
| Engineering drafting technician | 29,280 | 30,924 | 30,768 | 32,654 | 32,193 |
| Hospital attendant | 18,396 | 19,800 | 20,280 | 21,350 | 21,949 |
| Staff nurse..... | 41,472 | 44,280 | 47,196 | 48,995 | 50,827 |
| HOURLY RATES | | | | | |
| Housekeeper | 8.499 | 8.943 | 9.394 | 9.85 | 10.10 |
| Cook, general..... | 10.909 | 10.928 | 9.977 | 11.90 | 12.94 |
| Wait help..... | 4.614 | 5.075 | 5.254 | 5.45 | 5.63 |
| Laborer, light | 8.229 | 8.483 | 8.732 | 8.96 | 9.01 |
| Carpenter, maintenance | 13.817 | 14.061 | 14.859 | 15.30 | 15.29 |
| Electrician, maintenance | 15.456 | 15.587 | 16.145 | 17.20 | 17.55 |
| Automotive mechanic..... | 13.110 | 13.567 | 14.688 | 15.22 | 15.27 |
| Truck driver (trailer)..... | 10.77 | 10.59 | 11.642 | 12.27 | 12.30 |

^{1/} The 16 job titles listed in this table are meant to be only illustrative of the 94 reported in the full report; see the source for full information.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (annual).

Table 12.29-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1995

[In dollars]

| Job classification <u>1/</u> | State average | Kauai | Oahu | Maui County | Hawaii County |
|---------------------------------------|---------------|--------|--------|-------------|---------------|
| ANNUAL RATES | | | | | |
| Clerk, entry level | 17,794 | 18,508 | 17,792 | 18,398 | 17,307 |
| Cashier..... | 23,420 | 24,247 | 23,805 | 21,092 | 23,841 |
| Secretary..... | 26,636 | 24,902 | 26,778 | 26,942 | 23,866 |
| Switchboard operator..... | 22,870 | ... | 22,913 | 23,256 | 21,240 |
| Bookkeeper, full-charge..... | 29,827 | ... | 29,997 | 29,701 | 29,267 |
| Engineering drafting technician | 32,193 | ... | 32,645 | ... | ... |
| Hospital attendant | 21,949 | ... | 22,024 | ... | ... |
| Staff nurse..... | 50,827 | ... | 50,950 | ... | ... |
| HOURLY RATES | | | | | |
| Housekeeper | 10.10 | ... | 10.21 | 9.89 | ... |
| Cook, general..... | 12.94 | 11.10 | 12.84 | 13.72 | 13.40 |
| Wait help..... | 5.63 | ... | 5.73 | 5.62 | ... |
| Laborer, light | 9.01 | ... | 8.87 | 9.06 | 10.23 |
| Carpenter, maintenance | 15.29 | ... | 15.34 | 15.75 | 13.30 |
| Electrician, maintenance | 17.55 | ... | 18.69 | 16.60 | 16.43 |
| Automotive mechanic..... | 15.27 | 14.98 | 15.37 | 15.19 | 14.89 |
| Truck driver (trailer)..... | 12.30 | 12.86 | 12.69 | 10.60 | 11.96 |

1/ See preceding table, footnote 1.

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (Special Publication No. 242, September 1995).

Table 12.30-- WAGE RATES FOR SPECIFIED JOB TITLES: 1994

[In dollars. Data are shown for only a few of the more than 3,000 job titles listed in the source, primarily to suggest the type of information and occupational detail available there]

| Job title | Data source | Pay period | Wage range | |
|--------------------------------|-------------|------------|------------|-------|
| | | | Low | High |
| Accountant | Private | Hourly | 11.35 | 19.73 |
| Cannery warehouse worker | Private | Hourly | 6.35 | 7.90 |
| Clerk, data entry | Private | Hourly | 8.54 | 11.20 |
| Engineer, civil | Local govt. | Monthly | 2,319 | 6,758 |
| Host/hostess | Private | Hourly | 7.85 | 10.74 |
| Laborer, general | Private | Hourly | 5.50 | 10.00 |
| Nurse, licensed practical..... | State govt. | Monthly | 1,705 | 2,413 |
| Police officer | Local govt. | Monthly | 2,452 | 3,530 |
| Professor (9 mo.)..... | State govt. | Monthly | 3,652 | 6,577 |
| Secretary | Private | Hourly | 10.34 | 18.02 |

Source: Hawaii State Department of Labor and Industrial Relations, *Selected Wage Information for Hawaii 1994* (December 1994).

Table 12.31-- TOTAL COMPENSATION PAID TO EXECUTIVES OF MAJOR CORPORATIONS AND LABOR UNION LEADERS: 1994

| Category | Total | Less than \$100,000 | \$100,000 to \$249,999 | \$250,000 to \$499,999 | \$500,000 to \$999,999 | \$1,000,000 or more | Highest (\$1,000) |
|--|-------|---------------------|------------------------|------------------------|------------------------|---------------------|-------------------|
| Corporate executives ^{1/} ... | 26 | - | 3 | 12 | 9 | 2 | 1,338.4 |
| Union leaders ^{2/} ... | 21 | 16 | 4 | 1 | - | - | 285.7 |

^{1/} Total compensation includes awards of stock and cash paid under long-term incentive plans.

^{2/} Gross salaries, excluding allowances and expense reimbursements.

Source: *Honolulu Advertiser*, April 30, 1995, pp. F1 and F2, and July 23, 1995, pp. D1 and D3.

Table 12.32-- MINIMUM WAGE CHRONOLOGY: 1942 TO 1995

[Dollars per hour. As of July 1, unless otherwise specified]

| Effective date | Oahu | Other islands | Effective date | State | Effective date | State |
|----------------------|------|---------------|----------------------|-------|----------------------|-------|
| 1942 <u>1/</u> | 0.25 | 0.20 | 1962..... | 1.15 | 1979..... | 2.90 |
| 1943..... | 0.30 | 0.25 | 1964 <u>2/</u> | 1.25 | 1980..... | 3.10 |
| 1945..... | 0.40 | 0.40 | 1969..... | 1.40 | 1981..... | 3.35 |
| 1953..... | 0.65 | 0.55 | 1970..... | 1.60 | 1988 <u>2/</u> | 3.85 |
| 1955..... | 0.75 | 0.65 | 1974..... | 2.00 | 1992 <u>3/</u> | 4.75 |
| 1957..... | 0.90 | 0.85 | 1975..... | 2.40 | 1993 <u>2/</u> | 5.25 |
| 1958..... | 1.00 | 1.00 | 1978..... | 2.65 | 1995 <u>4/</u> | 5.25 |

1/ At inception of minimum wage law, April 1, 1942.

2/ January 1.

3/ April 1.

4/ Current minimum as of September 6, 1995.

Source: Hawaii State Department of Labor and Industrial Relations, records; Act 264, S.L.H. 1991.

**Table 12.33-- WEEKLY HOURS OF WORK, FOR CIVILIANS AT WORK:
ANNUAL AVERAGES, 1983 TO 1993**

| Year | All civilians at work | Full-time schedules <u>1/</u> | Year | All civilians at work | Full-time schedules <u>1/</u> |
|-----------|-----------------------|-------------------------------|-----------|-----------------------|-------------------------------|
| 1983..... | 37.9 | 43.2 | 1989..... | 39.4 | 46.0 |
| 1984..... | 37.8 | 43.5 | 1990..... | 39.4 | 46.8 |
| 1985..... | 38.2 | 44.4 | 1991..... | 39.2 | 47.2 |
| 1986..... | 38.3 | 44.3 | 1992..... | 38.6 | 48.6 |
| 1987..... | 37.6 | 44.1 | 1993..... | 39.5 | 47.2 |
| 1988..... | 39.0 | 44.6 | | | |

1/ Refers to persons who worked 35 hours or more during the survey week.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment* (annual).

**Table 12.34-- WEEKLY HOURS OF WORK, FOR CIVILIAN WORKERS:
ANNUAL AVERAGES, 1993**

| Hours of work | Civilian workers (1,000) | Age, sex, or race | Average hours |
|-------------------------|--------------------------|----------------------------------|---------------|
| Total at work | 526 | Total at work | 39.5 |
| 1 to 14 hours | 18 | Full-time schedules <u>1/</u> .. | 47.2 |
| 15 to 29 hours | 59 | Men | 41.4 |
| 30 to 34 hours | 47 | Women | 37.3 |
| 35 to 39 hours | 23 | Both sexes, 15 to 19 years | 27.2 |
| 40 hours | 254 | White | 40.7 |
| 41 to 48 hours | 36 | | |
| 49 hours and over | 90 | | |

1/ Refers to persons who worked 35 hours or more during the survey week.

Source: U.S. Bureau of Labor Statistics, *Geographic Profile of Employment and Unemployment, 1993* (Bulletin 2446, September 1994), table 18.

Table 12.35-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1990 TO 1995

| Type of job-seeker | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|--|-------|-------|-------|-------|--------|--------|
| Island workers on Mainland <u>1/</u> | 5,275 | 7,197 | 9,554 | 9,543 | 10,121 | 10,115 |
| Mainland workers in Hawaii <u>2/</u> | 2,910 | 3,453 | 4,432 | 4,356 | 4,229 | 4,000 |
| Ratio <u>3/</u> | 55 | 48 | 46 | 46 | 42 | 40 |

1/ Interstate liable initial claims, excluding UCFE and UCX. Covers Hawaii workers seeking work and filing for benefits on 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 per 100 interstate liable initial claims. Ratios under 100 suggest a net out-migration of workers.

Source: Hawaii State Department of Labor and Industrial Relations, *State of Hawaii Unemployment Insurance Fact Book, 1996*, p. 15.

Table 12.36-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1991 AND 1992

[Data exclude agricultural employers with fewer than 11 employees]

| Subject | Injuries and illnesses | | Injuries only | |
|---|------------------------|--------|---------------|--------|
| | 1991 | 1992 | 1991 | 1992 |
| Reportable cases..... | 36,200 | 35,200 | 35,500 | 34,300 |
| Per 100 full-time workers | 10.6 | 10.0 | 10.4 | 9.8 |
| Lost workday cases | 20,500 | 19,000 | 20,100 | 18,500 |
| Per 100 full-time workers | 6.0 | 5.4 | 5.9 | 5.3 |
| Nonfatal cases without lost workdays..... | 15,700 | 16,200 | 15,400 | 15,700 |

Source: Hawaii State Department of Labor and Industrial Relations, *1992 Occupational Injuries and Illnesses Survey, State of Hawaii*, p. 2.

Table 12.37-- WORK INJURIES, DEATHS, TIME LOST AND COMPENSATION COSTS: 1989 TO 1994

| Year | Reported cases | Reported deaths | Time lost (compensated days) | Compensation costs (\$1,000) |
|-----------|----------------|-----------------|------------------------------|------------------------------|
| 1989..... | 52,030 | 53 | 1,323,074 | 173,049 |
| 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 |

Source: Hawaii State Department of Labor and Industrial Relations, *Workers' Compensation Data Book* (annual).

**Table 12.38-- UNION MEMBERSHIP AND EARNINGS, 1983, 1988, AND 1993, AND
BY SECTOR, 1993**

| Subject | 1983 | 1988 | 1993 | | |
|---|-------|-------|----------------|------------------------|-----------------------|
| | | | Total | Private sector workers | Public sector workers |
| Sample size..... | 2,045 | 1,842 | 1,727 | 1,326 | 401 |
| Employment (1,000) | 385.4 | 441.5 | 490.7 | 375.5 | 115.2 |
| Percent union members | 29.2 | 30.5 | <u>1/</u> 28.1 | 19.4 | 56.3 |
| Percent covered by collective bargaining agreement | 32.4 | 32.9 | <u>2/</u> 31.3 | 23.0 | 58.4 |
| Mean earnings (1993 dollars): | | | | | |
| Weekly | 469 | 517 | <u>3/</u> 522 | 501 | 590 |
| Hourly | 11.96 | 13.03 | 13.39 | 12.91 | 14.98 |
| Union workers: | | | | | |
| Employment (1,000)..... | 112.6 | 134.5 | 137.8 | 72.9 | 64.9 |
| Mean earnings (1993 dollars): | | | | | |
| Weekly..... | 592 | 587 | 607 | 596 | 619 |
| Hourly | 14.68 | 14.71 | 15.15 | 15.22 | 15.08 |
| Nonunion workers: | | | | | |
| Employment (1,000)..... | 272.9 | 307.1 | 352.9 | 302.6 | 50.3 |
| Mean earnings (1993 dollars): | | | | | |
| Weekly..... | 418 | 487 | 488 | 478 | 551 |
| Hourly | 10.85 | 12.29 | 12.71 | 12.35 | 14.84 |

1/ The U.S. percentage was 15.8. Hawaii ranked 2nd among the 50 states.

2/ The U.S. percentage was 17.7. Hawaii ranked 1st among the 50 states.

3/ The U.S. mean was \$483. Hawaii ranked 9th among the 50 states.

Source: Barry T. Hirsch and David A. Macpherson, *Union Membership and Earnings Data Book 1993: Compilations from the Current Population Survey* (Washington, D.C.: The Bureau of National Affairs, Inc., 1994), tables 8a, 8b, and 8c.

Table 12.39-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1994

| Subject | Total | AFL-CIO affiliated | Independent |
|-------------------------------|---------|--------------------|-------------|
| Unions and associations | 71 | 60 | 11 |
| Membership <u>1/</u> | 166,424 | 144,508 | 21,916 |

1/ Data exclude 4 unions and associations (one of which was the United Public Workers) not reporting membership. The largest memberships were those reported by the HGEA (39,018), ILWU (28,000), and Hotel Employees & Restaurant Employees (12,000).

Source: Hawaii State Department of Labor and Industrial Relations, *Directory of Labor Organizations & Affiliates, 1994*.

Table 12.40-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS, BY EMPLOYING JURISDICTION: 1993 TO 1995

[As of December 31]

| Employing jurisdiction | 1993 | 1994 | 1995 |
|-----------------------------------|--------|--------|--------|
| Total | 54,306 | 56,660 | 53,431 |
| State of Hawaii | 23,243 | 26,225 | 22,810 |
| City and County of Honolulu | 8,535 | 8,127 | 8,127 |
| County of Hawaii | 1,691 | 1,704 | 1,716 |
| County of Maui | 1,609 | 1,560 | 1,519 |
| County of Kauai | 881 | 879 | 881 |
| Dept. of Education | 12,184 | 11,976 | 12,455 |
| Judiciary | 1,459 | 1,504 | 1,440 |
| University of Hawaii | 4,704 | 4,685 | 4,483 |

Source: Hawaii Labor Relations Board, *HLRB Informational Bulletin*, No. 33, April 4, 1996, and earlier issues.

Table 12.41-- COLLECTIVE BARGAINING AGREEMENTS: 1985 TO 1995

| Year | Number of agreements | Workers covered | | Year | Number of agreements | Workers covered | |
|--------------------------|----------------------|-----------------|---------------|------------|----------------------|-----------------|---------------|
| | | Total | Per agreement | | | Total | Per agreement |
| 1985 ^{1/} | 350 | 58,450 | 167 | 1991 | 107 | 23,700 | 221 |
| 1986 | 138 | 13,550 | 98 | 1992 | 1,413 | 21,400 | 15 |
| 1987 | 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 | | | | |

^{1/} For earlier years, 1964-1984, see source.

Source: Industrial Relations Center, University of Hawaii at Manoa, *Duration of Collective Bargaining Agreements in Hawaii, 1995* (December 1994), p. 1.

Table 12.42-- WORK STOPPAGES: 1989 TO 1994

[Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. Data are limited to stoppages begun or in progress during the week containing the 12th of each month]

| Year | Number of stoppages ^{1/} | Workers involved ^{1/} | Man-days lost ^{2/} |
|--------------------------|-----------------------------------|--------------------------------|-----------------------------|
| 1989 | 2 | 48 | 3,046 |
| 1990 | 13 | 7,415 | 119,509 |
| 1991 | - | - | - |
| 1992 | - | - | - |
| 1993 | 2 | 160 | 6,018 |
| 1994 ^{3/} | 3 | 12,202 | 109,529 |

^{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, records.

**Table 12.43-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS:
1984 TO 1994**

| Year | Number of stoppages begun in year | Workers involved <u>1/</u> | 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) |

NA Not available.

1/ Workers counted more than once if involved in more than one stoppages during year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records.

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the state income and product system and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state product, income by industry, personal, family and household income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 9, 12, and 22; on industrial payrolls, in Sections 12, 15, and 20 through 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 10 and 11; on taxable income, in Section 9.

Gross state product in 1994 was about \$32 billion. The major sources of outside income to Hawaii in 1994 were defense expenditures (\$3.7 billion), pineapple production (\$134 million), sugar production (\$248 million), and visitor expenditures (\$10.6 billion). Personal income in 1995 was \$29 billion, compared with \$15 billion only ten years earlier, and per capita personal income was \$24,700, or 73 percent above the 1985 level. The per capita figure for Hawaii was 9 percent over the national average, reflecting in part the Islands' higher cost of living. The median annual income of households, based on data for 1994, was \$42,000, third highest of the 50 States. The official poverty threshold for a 4-person family in Hawaii was set in February 1995 at \$17,430. In 1994, 8.7 percent of all Island residents were below the U.S. poverty level. A family expenditure survey taken in 1992 and 1993, reported that the largest items in the family budget on Oahu were housing (accounting for 31 percent of total spending), food (18 percent), and transportation (14 percent). Top wealthholders in 1989 included 22,300 persons with assets of \$600,000 or more.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service, Hawaii Agricultural Statistics Service, Hawaii State Department of Business, Economic Development & Tourism, and Hawaii Visitors Bureau. Sections 6 and 7 of *Historical Statistics of Hawaii* present data for earlier years. Comparable data for the country as a whole are given in *Statistical Abstract of the United States: 1995*, Section 14.

**Table 13.01-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1974 TO 1994**

[In millions of dollars]

| Year | Value of production | | Defense expenditures <u>2/</u> | Visitor expenditures <u>3/</u> |
|-----------|----------------------------------|-------------------------------|--------------------------------|--------------------------------|
| | Raw sugar and molasses <u>1/</u> | Fresh and processed pineapple | | |
| 1974..... | 676.6 | 127.1 | 1,311.8 | 1,225 |
| 1975..... | 366.1 | 136.7 | 1,442.1 | 1,360 |
| 1976..... | 257.0 | 144.5 | 1,499.2 | 1,640 |
| 1977..... | 226.8 | 161.6 | 1,576.1 | 1,845 |
| 1978..... | 285.2 | 162.8 | 1,644.5 | 2,146 |
| 1979..... | 345.7 | 206.4 | 1,707.7 | 2,537 |
| 1980..... | 594.1 | 226.5 | 1,865.4 | 2,875 |
| 1981..... | 327.9 | 217.6 | 2,041.2 | 3,200 |
| 1982..... | 351.5 | 206.0 | 2,385.3 | 3,700 |
| 1983..... | 410.2 | 219.0 | 2,566.5 | 3,974 |
| 1984..... | 393.0 | 249.6 | 2,653.0 | 4,582 |
| 1985..... | 340.8 | 222.5 | 3,054.9 | 5,244 |
| 1986..... | 361.9 | 238.4 | 3,031.4 | 6,104 |
| 1987..... | 335.9 | 251.4 | 3,023.6 | 6,868 |
| 1988..... | 324.0 | 247.0 | 3,145.6 | 8,528 |
| 1989..... | 322.0 | 241.9 | 3,269.3 | 9,282 |
| 1990..... | 328.9 | 215.9 | 3,335.8 | 9,739 |
| 1991..... | 270.7 | 224.6 | 3,649.9 | 10,634 |
| 1992..... | 237.6 | 197.7 | 3,833.9 | 9,559 |
| 1993..... | 251.9 | 140.6 | 3,716.7 | 8,678 |
| 1994..... | 247.9 | 134.1 | 3,670.7 | 10,603 |

1/ Excludes government sugar support payments.

2/ For alternate estimates, see *Data Book 1992*, table 319. The 1985-1992 figures are revisions.

3/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews. Estimates for 1984 and earlier years also exclude additional business expenditures by MCI (meetings, conventions, and incentive) visitors.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records; data from DBEDT GSP accounts, cited in *Data Book 1992*, table 319, as revised and updated; Hawaii Visitors Bureau, estimates cited in present report, table 7.21.

Table 13.02-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1974 TO 1994

[For 1958-1973 data, see *Data Book 1991*, table 373]

| Year | Gross state product | | Per capita gross state product | |
|-----------|-----------------------------|--------------------------|--------------------------------|--------------|
| | Millions of current dollars | Millions of 1982 dollars | Current dollars | 1982 dollars |
| 1974..... | 6,901.7 | 10,948.5 | 7,951 | 12,614 |
| 1975..... | 7,411.3 | 11,596.6 | 8,363 | 13,086 |
| 1976..... | 7,933.4 | 11,746.4 | 8,774 | 12,991 |
| 1977..... | 8,597.4 | 12,103.3 | 9,363 | 13,181 |
| 1978..... | 9,627.6 | 12,482.9 | 10,335 | 13,400 |
| 1979..... | 10,906.4 | 12,972.1 | 11,441 | 13,608 |
| 1980..... | 12,225.7 | 13,690.5 | 12,623 | 14,136 |
| 1981..... | 13,078.3 | 14,022.5 | 13,370 | 14,335 |
| 1982..... | 13,691.0 | 13,691.0 | 13,776 | 13,776 |
| 1983..... | 14,811.8 | 14,210.0 | 14,626 | 14,032 |
| 1984..... | 15,826.5 | 14,637.3 | 15,397 | 14,240 |
| 1985..... | 17,139.7 | 15,344.4 | 16,485 | 14,758 |
| 1986..... | 18,483.0 | 16,170.6 | 17,573 | 15,374 |
| 1987..... | 20,027.3 | 16,759.3 | 18,754 | 15,694 |
| 1988..... | 22,324.0 | 17,745.7 | 20,674 | 16,434 |
| 1989..... | 24,574.7 | 18,589.0 | 22,451 | 16,982 |
| 1990..... | 27,033.6 | 19,227.3 | 24,291 | 17,277 |
| 1991..... | 28,608.6 | 19,149.0 | 25,232 | 16,889 |
| 1992..... | 30,083.3 | 19,296.5 | 26,091 | 16,736 |
| 1993..... | 31,106.9 | 19,357.1 | 26,690 | 16,608 |
| 1994..... | 31,947.9 | 19,350.6 | 27,107 | 16,418 |

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), table 1-6, as revised and updated.

**Table 13.03-- GROSS STATE (DOMESTIC) PRODUCT, 1977 TO 1992, AND
BY INDUSTRY, 1991 AND 1992**

| Year | Total <u>1/</u> | Year | Total <u>1/</u> | Year | Total <u>1/</u> |
|------------|-----------------|------------|-----------------|------------|-----------------|
| 1977 | 8,783 | 1983 | 15,506 | 1988 | 23,993 |
| 1978 | 9,772 | 1984 | 16,687 | 1989 | 26,495 |
| 1979 | 11,036 | 1985 | 17,985 | 1990 | 29,087 |
| 1980 | 12,351 | 1986 | 19,621 | 1991 | 31,115 |
| 1981 | 13,215 | 1987 | 21,354 | 1992 | 33,203 |
| 1982 | 14,125 | | | | |

| Industry | Amount <u>2/</u> | | Percent | |
|--|------------------|--------|---------|-------|
| | 1991 | 1992 | 1991 | 1992 |
| Total, all industries | 26,301 | 27,185 | 100.0 | 100.0 |
| Farms | 304 | 292 | 1.2 | 1.1 |
| Agric. services, forestry, fisheries | 169 | 180 | 0.6 | 0.7 |
| Mining | 25 | 32 | 0.1 | 0.1 |
| Construction | 1,745 | 1,791 | 6.6 | 6.6 |
| Manufacturing | 989 | 997 | 3.8 | 3.7 |
| Transportation, communication, utilities | 2,857 | 3,142 | 10.9 | 11.6 |
| Wholesale trade | 1,095 | 1,144 | 4.2 | 4.2 |
| Retail trade | 3,479 | 3,586 | 13.2 | 13.2 |
| Finance, insurance, real estate | 4,896 | 5,067 | 18.6 | 18.6 |
| Services | 5,712 | 5,819 | 21.7 | 21.4 |
| Federal government: | | | | |
| Civilian | 1,100 | 1,138 | 4.2 | 4.2 |
| Military | 1,847 | 1,792 | 7.0 | 6.6 |
| State and local government | 2,084 | 2,204 | 7.9 | 8.1 |

1/ Millions of current dollars.

2/ Millions of 1987 dollars.

Source: U.S. Bureau of Economic Analysis, "Gross State Product, 1991-1992," *Survey of Current Business*, May 1995, pp. 47-56, and BEA diskette tabulated by DBEDT.

Table 13.04-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1969 TO 1995

[Data for 1991-1993 are revisions]

| Year | Personal income (millions of dollars) | | Per capita personal income (dollars) | | Per capita personal income as percent of U.S average | |
|-----------|--|------------|--|------------|--|------------|
| | Total | Disposable | Total | Disposable | Total | Disposable |
| 1969..... | 3,295 | 2,789 | 4,435 | 3,753 | 116 | 115 |
| 1970..... | 3,770 | 3,214 | 4,942 | 4,212 | 122 | 120 |
| 1971..... | 4,058 | 3,515 | 5,126 | 4,440 | 119 | 118 |
| 1972..... | 4,468 | 3,816 | 5,462 | 4,665 | 117 | 116 |
| 1973..... | 4,970 | 4,259 | 5,904 | 5,059 | 114 | 112 |
| 1974..... | 5,721 | 4,933 | 6,666 | 5,749 | 118 | 118 |
| 1975..... | 6,149 | 5,425 | 7,026 | 6,200 | 116 | 116 |
| 1976..... | 6,655 | 5,822 | 7,458 | 6,524 | 113 | 113 |
| 1977..... | 7,203 | 6,258 | 7,866 | 6,833 | 108 | 108 |
| 1978..... | 8,016 | 6,922 | 8,630 | 7,452 | 106 | 106 |
| 1979..... | 9,087 | 7,821 | 9,564 | 8,232 | 106 | 106 |
| 1980..... | 10,431 | 8,991 | 10,774 | 9,286 | 108 | 108 |
| 1981..... | 11,243 | 9,676 | 11,494 | 9,892 | 104 | 105 |
| 1982..... | 11,933 | 10,486 | 12,007 | 10,551 | 104 | 106 |
| 1983..... | 13,117 | 11,422 | 12,951 | 11,278 | 106 | 106 |
| 1984..... | 13,969 | 12,314 | 13,588 | 11,979 | 102 | 103 |
| 1985..... | 14,910 | 13,013 | 14,339 | 12,514 | 101 | 102 |
| 1986..... | 16,055 | 14,062 | 15,263 | 13,368 | 102 | 103 |
| 1987..... | 17,182 | 14,820 | 16,087 | 13,876 | 103 | 103 |
| 1988..... | 18,924 | 16,239 | 17,522 | 15,036 | 105 | 104 |
| 1989..... | 20,957 | 17,600 | 19,146 | 16,079 | 108 | 105 |
| 1990..... | 23,266 | 19,691 | 20,906 | 17,693 | 112 | 109 |
| 1991..... | 24,545 | 20,889 | 21,648 | 18,424 | 113 | 110 |
| 1992..... | 26,100 | 22,390 | 22,637 | 19,419 | 112 | 110 |
| 1993..... | 27,466 | 23,670 | 23,566 | 20,308 | 113 | 112 |
| 1994..... | 28,335 | 24,326 | 24,042 | 20,641 | 111 | 109 |
| 1995..... | 29,359 | 25,109 | 24,738 | 21,157 | 109 | 107 |

Source: U.S. Department of Commerce, Bureau of Economic Analysis, *Commerce News* BEA 96-10 dated April 25, 1996.

Table 13.05-- ECONOMIC ESTIMATES AND PROJECTIONS: 1978 TO 2045

| Year | Gross state product (millions of 1987 dollars) | Personal income | | Total earnings (millions of 1987 dollars) | Total employment (thousands of jobs) |
|-----------------------|---|-------------------------------------|------------------------------|--|---|
| | | Total (millions of 1987 dollars) | Per capita (1987 dollars) | | |
| Historical estimates: | | | | | |
| 1978 | 16,916.8 | 13,205.3 | 14,199 | 10,408.0 | 526.0 |
| 1983 | 18,557.5 | 15,128.7 | 14,935 | 11,407.2 | 581.8 |
| 1993 | <u>1/</u> 27,184.7 | 21,381.0 | 18,345 | 16,442.7 | 745.9 |
| Projections: | | | | | |
| 1998 | 30,643.1 | 24,029.1 | 19,298 | 18,382.7 | 807.0 |
| 2000 | 32,012.0 | 25,361.5 | 19,797 | 19,430.6 | 836.4 |
| 2005 | 35,235.0 | 28,180.9 | 20,806 | 21,425.2 | 891.8 |
| 2010 | 38,384.6 | 30,998.4 | 21,724 | 23,343.1 | 937.9 |
| 2015 | 41,314.2 | 33,774.1 | 22,496 | 25,099.9 | 972.2 |
| 2025 | 46,705.0 | 39,328.6 | 23,862 | 28,272.7 | 1,010.0 |
| 2045 | 61,092.1 | 52,541.2 | 28,041 | 36,531.5 | 1,112.2 |

1/ 1992 estimate.

Source: U.S. Bureau of Economic Analysis, *BEA Regional Projections to 2045*, Vol. 1, *States* (July 1995), pp. 69-71.

Table 13.06-- PERSONAL INCOME BY MAJOR SOURCES: 1989 TO 1995

[In millions of dollars.]

| Item | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|--------|--------|--------|--------|--------|--------|--------|
| LABOR AND PROPRIETORS INCOME | | | | | | | |
| By type: | | | | | | | |
| Wage and salary disbursements | 12,998 | 14,448 | 15,338 | 16,368 | 16,621 | 16,793 | 17,096 |
| Other labor income | 1,158 | 1,315 | 1,500 | 1,648 | 1,783 | 1,862 | 1,926 |
| Proprietors income | 2,210 | 2,187 | 2,241 | 2,593 | 2,876 | 3,011 | 3,129 |
| Farm | 55 | 28 | 4 | 8 | 12 | 15 | 16 |
| Nonfarm | 2,155 | 2,159 | 2,237 | 2,584 | 2,863 | 2,996 | 3,113 |
| By industry: | | | | | | | |
| Farm | 243 | 247 | 221 | 229 | 224 | 229 | 236 |
| Nonfarm | 16,122 | 17,702 | 18,858 | 20,379 | 21,055 | 21,437 | 21,914 |
| Private | 12,013 | 13,297 | 14,118 | 15,268 | 15,838 | 16,127 | 16,567 |
| Government and government enterprises | 4,109 | 4,406 | 4,740 | 5,111 | 5,217 | 5,310 | 5,347 |
| Federal, civilian | 1,086 | 1,114 | 1,118 | 1,194 | 1,217 | 1,253 | 1,293 |
| Federal military | 1,338 | 1,401 | 1,534 | 1,613 | 1,558 | 1,528 | 1,485 |
| State and local | 1,686 | 1,891 | 2,088 | 2,304 | 2,443 | 2,530 | 2,570 |
| DERIVATION OF PERSONAL INCOME | | | | | | | |
| Labor and proprietors income | 16,365 | 17,949 | 19,079 | 20,607 | 21,279 | 21,665 | 22,150 |
| Less: Personal contributions for social insurance | 984 | 1,075 | 1,149 | 1,210 | 1,245 | 1,290 | 1,324 |
| Net labor and proprietors income | 15,382 | 16,874 | 17,930 | 19,397 | 20,035 | 20,376 | 20,826 |
| Plus: Dividends, interest, and rent | 2,976 | 3,298 | 3,435 | 3,120 | 3,524 | 3,716 | 3,971 |
| Plus: Transfer payments | 2,599 | 3,095 | 3,179 | 3,584 | 3,908 | 4,244 | 4,562 |
| Total personal income | 20,957 | 23,266 | 24,545 | 26,100 | 27,466 | 28,335 | 29,359 |

Source: U.S. Department of Commerce, Bureau of Economic Analysis, release dated April 25, 1996, <http://www.STAT.U.S.A.GOV/BEN/bea/regional/persinc/qu-st/earn//hi.stq>.

**Table 13.07-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY
COUNTIES: 1983 TO 1994**

| Year | State total | City and County of Honolulu | Other counties | | | |
|---------------------------------|-------------|-----------------------------|----------------|---------|---------|------------------|
| | | | Total | Hawaii | Kauai | Maui and Kalawao |
| TOTAL (MIL. DOL.) | | | | | | |
| 1983..... | 13,116.6 | 10,626.6 | 2,490.0 | 1,069.2 | 467.6 | 953.2 |
| 1984..... | 13,969.0 | 11,379.8 | 2,589.1 | 1,105.1 | 478.9 | 1,005.1 |
| 1985..... | 14,910.3 | 12,134.4 | 2,775.9 | 1,167.2 | 516.6 | 1,092.1 |
| 1986..... | 16,054.8 | 12,977.0 | 3,077.8 | 1,292.7 | 566.8 | 1,218.3 |
| 1987..... | 17,182.3 | 13,891.4 | 3,290.9 | 1,377.9 | 605.8 | 1,307.2 |
| 1988..... | 18,923.5 | 15,205.0 | 3,718.6 | 1,507.4 | 732.0 | 1,479.2 |
| 1989..... | 20,956.8 | 16,731.5 | 4,225.4 | 1,705.3 | 835.1 | 1,685.0 |
| 1990..... | 23,266.3 | 18,448.3 | 4,818.0 | 1,948.2 | 929.0 | 1,940.8 |
| 1991..... | 24,544.6 | 19,364.9 | 5,179.8 | 2,098.0 | 1,010.4 | 2,071.4 |
| 1992..... | 26,095.4 | 20,909.9 | 5,185.5 | 2,232.3 | 656.6 | 2,296.7 |
| 1993..... | 27,456.9 | 21,548.9 | 5,908.0 | 2,339.5 | 1,112.1 | 2,456.4 |
| 1994..... | 28,320.3 | 22,145.4 | 6,174.9 | 2,411.6 | 1,180.5 | 2,582.9 |
| PER CAPITA (DOLLARS) | | | | | | |
| 1983..... | 12,951 | 13,497 | 11,018 | 10,478 | 10,911 | 11,837 |
| 1984..... | 13,588 | 14,341 | 11,065 | 10,410 | 10,903 | 11,908 |
| 1985..... | 14,339 | 15,170 | 11,566 | 10,782 | 11,461 | 12,613 |
| 1986..... | 15,263 | 16,072 | 12,562 | 11,760 | 12,335 | 13,755 |
| 1987..... | 16,087 | 17,040 | 13,008 | 12,177 | 12,733 | 14,194 |
| 1988..... | 17,522 | 18,523 | 14,358 | 13,066 | 15,004 | 15,577 |
| 1989..... | 19,146 | 20,195 | 15,885 | 14,448 | 16,674 | 17,197 |
| 1990..... | 20,906 | 22,009 | 17,539 | 16,039 | 17,992 | 19,103 |
| 1991..... | 21,648 | 22,802 | 18,203 | 16,632 | 18,969 | 19,699 |
| 1992..... | 22,632 | 24,285 | 17,757 | 17,168 | 12,121 | 21,300 |
| 1993..... | 23,558 | 24,868 | 19,759 | 17,573 | 20,178 | 22,177 |
| 1994..... | 24,030 | 25,328 | 20,298 | 17,798 | 21,198 | 22,852 |

Source: U.S. Department of Commerce, Bureau of Economic Analysis, on STAT-USA.GOV, HI.CTY, release June 4, 1996.

Table 13.08-- PER CAPITA PERSONAL INCOME IN CURRENT AND CONSTANT DOLLARS FOR THE UNITED STATES AND HAWAII: 1990 AND 1995

| Subject | United States | Hawaii |
|--|---------------|--------|
| Per capita personal income (current dollars): | | |
| 1990 | 18,666 | 20,906 |
| 1995 | 22,788 | 24,738 |
| Per capita personal income (1982-1984 dollars): | | |
| 1990 | 14,282 | 15,138 |
| 1995 | 14,953 | 14,716 |
| Percent of U.S. average (current dollars): | | |
| 1990 | 100.0 | 112.0 |
| 1995 | 100.0 | 108.6 |
| Percent increase, 1990-1995: | | |
| Current dollars | 22.1 | 18.3 |
| Constant dollars | 4.7 | -2.8 |
| Rank <u>1</u> / (50 States excluding D.C.): | | |
| 1990 | (X) | 6 |
| 1995 | (X) | 9 |
| Consumer price index (1982-1984=100): <u>2</u> / | | |
| 1990 | 130.7 | 138.1 |
| 1995 | 152.4 | 168.1 |

X Not applicable.

1/ In per capita personal income (current dollars).

2/ Hawaii index is for Honolulu MSA.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 25, 1996; U.S. Department of Labor, Bureau of Labor Statistics, USDC News Releases 96-10 (Honolulu) and 96-70 (U.S.), February 28, 1996.

Table 13.09-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1949 TO 1989

[In dollars. Based on censuses made in April of following year]

| Year | Households | Families | Unrelated individuals with income <u>1/</u> | Persons with income <u>1/</u> | |
|-----------|------------|----------|---|-------------------------------|--------|
| | | | | Male | Female |
| 1949..... | (NA) | 3,568 | 1,583 | 2,340 | 1,247 |
| 1959..... | (NA) | 6,366 | 1,998 | 3,753 | 1,796 |
| 1969..... | 10,675 | 11,664 | 2,981 | 6,528 | 3,222 |
| 1979..... | 20,473 | 22,750 | 7,097 | 11,505 | 6,581 |
| 1989..... | 38,829 | 43,176 | (NA) | 21,095 | 12,976 |

NA Not available.

1/ 14 years old and over through 1969, and 15 years old and over thereafter.

Source: U.S. Bureau of the Census, *Census of Population: 1960*, PC(1)-13C (1962), tables 66 and 67 (for 1949 data); *1970 Census of Population*, PC(1)-C13 (December 1971), table 47 (for 1959 data); *1980 Census of Population*, PC80-1-C-13 (June 1983), table 61 (for 1969 and 1979 data); *1990 Census of Population and Housing*, 1990 CP-2-13 (September 1993), table 28 (for 1989 data).

Table 13.10-- MEDIAN INCOME OF HOUSEHOLDS (IN 1994 DOLLARS): 1992 TO 1994

| Year | Median income (1994 dollars) | Standard error (1994 dollars) | Rank (50 states and D.C.) |
|-----------|------------------------------|-------------------------------|---------------------------|
| 1992..... | 44,484 | 1,516 | 1 |
| 1993..... | 43,754 | 1,804 | 2 |
| 1994..... | 42,255 | 2,423 | 3 |

Source: U.S. Bureau of the Census Release CB95-185 (October 5, 1995).

Table 13.11-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1975 AND 1980 TO 1994

[In dollars. Based on small samples and subject to considerable sampling variation. From surveys made in March or April of following year]

| Year | Households | Families | Unrelated individuals with income <u>1/</u> | Persons with income <u>1/</u> | |
|----------------------|------------|----------|---|-------------------------------|--------|
| | | | | Male | Female |
| 1975..... | 15,991 | 17,770 | 6,180 | 9,489 | 4,082 |
| 1980..... | 21,666 | 24,813 | 8,663 | 13,533 | 6,917 |
| 1981..... | 22,434 | 27,499 | 10,073 | 13,635 | 7,069 |
| 1982..... | 23,582 | 27,840 | 11,406 | 13,582 | 8,133 |
| 1983..... | 26,805 | 29,742 | 12,735 | 14,903 | 7,941 |
| 1984..... | 28,877 | 32,831 | 12,873 | 16,147 | 8,548 |
| 1985..... | 28,961 | 32,611 | 15,357 | 15,865 | 9,987 |
| 1986..... | 29,003 | 34,665 | 14,906 | 18,889 | 9,998 |
| 1987..... | 34,398 | 39,038 | 14,876 | 19,872 | 10,765 |
| 1988 <u>2/</u> | 33,024 | 39,609 | 14,376 | 18,375 | 8,983 |
| 1989..... | 35,035 | (NA) | (NA) | (NA) | (NA) |
| 1990..... | 38,921 | (NA) | (NA) | (NA) | (NA) |
| 1991..... | 37,194 | (NA) | (NA) | (NA) | (NA) |
| 1992..... | 42,113 | (NA) | (NA) | (NA) | (NA) |
| 1993..... | 42,662 | (NA) | (NA) | (NA) | (NA) |
| 1994..... | 42,255 | (NA) | (NA) | (NA) | (NA) |

NA Not available.

1/ 14 years old and over for 1975, and 15 years old and over thereafter. Data exclude persons in military group quarters.

2/ Revision in income imputation procedures.

Source: U.S. Bureau of the Census, *Current Population Reports, Consumer Income*, Series P-60, No. 108 (November 1977), p. 145; *Current Population Reports, Consumer Income*, Series P-60, No. 113 (July 1978), pp. 175-177; Current Population Survey (March), annual, 1981 to 1989, machine-readable file, tabulated by Hawaii State Data Center; *Current Population Reports, Consumer Income*, Series P-60, No. 184 (September 1993), tables B-1 and B-20, and Series P60-188 (February 1995), tables B and A-1; Release CB95-185 (October 5, 1995).

Table 13.12-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, AND NONFAMILY HOUSEHOLDS, AND PERCENT OF FAMILIES AND PERSONS BELOW POVERTY LEVEL, FOR COUNTIES AND SELECTED URBAN PLACES: 1989

| Geographic area | Median income (dollars) | | | Percent below poverty level ^{1/} | |
|---------------------------|-------------------------|----------|----------------------|---|----------|
| | Households | Families | Nonfamily households | Persons | Families |
| The State..... | 38,829 | 43,176 | 24,376 | 8.3 | 6.0 |
| Counties: | | | | | |
| Hawaii | 29,712 | 33,186 | 17,375 | 14.2 | 10.9 |
| Honolulu | 40,581 | 45,313 | 25,685 | 7.5 | 5.4 |
| Kalawao..... | (B) | (B) | (B) | (B) | (B) |
| Kauai..... | 37,425 | 41,099 | 20,867 | 7.2 | 5.0 |
| Maui | 38,771 | 42,129 | 25,013 | 7.9 | 5.7 |
| Census designated places: | | | | | |
| Hilo..... | 30,014 | 35,570 | 15,700 | 14.5 | 11.3 |
| Honolulu | 37,190 | 45,227 | 24,177 | 8.4 | 5.5 |
| Kailua (Oahu) | 55,259 | 57,537 | 30,896 | 3.4 | 2.1 |
| Kaneohe | 49,770 | 51,116 | 30,291 | 4.9 | 2.9 |
| Pearl City..... | 50,752 | 52,879 | 23,008 | 3.5 | 2.4 |
| Waipahu..... | 38,380 | 40,635 | 17,691 | 13.4 | 12.8 |

B Base figure too small for statistical reliability.

^{1/} Based on U.S. poverty thresholds. Thresholds in Hawaii are about 15 percent higher; these statistics accordingly understate the prevalence of poverty in Hawaii.

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), tables 28, 29, 148, 149, 177, and 178.

Table 13.13-- INCOME OF HOUSEHOLDS AND FAMILIES: 1989 AND 1993

[Data refer to income before taxes. Particularly for 1993, based on a small sample subject to considerable sampling variation]

| Annual income | Households | | Families | |
|------------------------------|------------|---------|----------|---------|
| | 1989 | 1993 | 1989 | 1993 |
| Total..... | 356,748 | 398,834 | 266,439 | 303,767 |
| Less than \$5,000..... | 13,393 | 9,548 | 5,411 | 5,147 |
| \$5,000 to \$9,999..... | 18,011 | 16,394 | 8,763 | 5,807 |
| \$10,000 to \$14,999..... | 21,657 | 20,378 | 13,306 | 12,255 |
| \$15,000 to \$24,999..... | 53,305 | 52,230 | 36,267 | 41,668 |
| \$25,000 to \$34,999..... | 52,186 | 62,051 | 38,048 | 34,741 |
| \$35,000 to \$49,999..... | 68,063 | 67,356 | 53,675 | 52,834 |
| \$50,000 to \$74,999..... | 73,616 | 98,013 | 62,526 | 86,333 |
| \$75,000 to \$99,999..... | 31,076 | 42,095 | 26,985 | 37,195 |
| \$100,000 to \$149,999..... | 17,640 | 24,514 | 14,901 | 22,849 |
| \$150,000 or more..... | 7,801 | 6,255 | 6,557 | 4,939 |
| Median income (dollars)..... | 38,829 | 42,662 | 43,176 | 49,797 |

Source: U.S. Bureau of the Census, Release CB92-47 (April 29, 1992), STF-3A, and Current Population Survey, March 1994 (special tabulation by the Hawaii State Data Center).

**Table 13.14-- MEDIAN INCOME FOR FOUR-PERSON FAMILIES:
FISCAL YEAR 1996**

[Estimated by U.S. Bureau of the Census from the 1990 Census of Population, 1993 BEA estimates of per capita personal income, and the March 1994 CPS]

| Area | Amount |
|--------------------------------|----------|
| United States..... | \$45,161 |
| Hawaii..... | \$54,856 |
| Rank (50 States and D.C.)..... | 4 |

Source: U.S. Dept. of Health and Human Services, Office of Community Services, "State Median Income Estimates for Four-Person Families (FY1996); Notice of the Fiscal Year (FY) 1996 State Median Income Estimates for Use Under the Low Income Home Energy Assistance Fiscal Administered by the Administration for Children and Families, Office of Community Services, Division of Energy Assistance," *Federal Register*, March 30, 1995.

**Table 13.15-- 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 13.16-- POVERTY STATUS OF PERSONS: 1969, 1975, AND 1979 TO 1994

[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 | 1985 | 109,000 | 10.7 |
| 1975 | 67,000 | 7.9 | 1986 | 109,000 | 10.7 |
| 1979 | 91,618 | 9.9 | 1987 | 95,000 | 8.8 |
| 1989 | 88,408 | 8.3 | 1988 | 117,000 | 11.1 |
| | | | 1989 | 122,000 | 11.3 |
| CPS: <u>1/</u> | | | 1990 | 121,000 | 11.0 |
| 1980 | 81,000 | 8.5 | 1991 | 90,000 | 7.7 |
| 1981 | 108,000 | 11.3 | 1992 | 129,000 | 11.0 |
| 1982 | 132,000 | 13.2 | 1993 | 91,000 | 8.0 |
| 1983 | 135,000 | 13.4 | 1994 <u>2/</u> | (NA) | 8.7 |
| 1984 | 92,000 | 9.3 | | | |

NA Not available.

1/ Current Population Survey. Based on small samples and subject to considerable sampling variation.

2/ Standard error in 1994 was 1.55 for the poverty rate. For the entire United States in 1994, the poverty rate was 14.5 percent. Hawaii was the fourth lowest State in poverty rate in 1994.

Source: U.S. Bureau of the Census, *1970 Census of Population*, PC(1)-C13 (December 1971), table 58; *Current Population Reports, Consumer Income*, Series P-60, No. 113 (July 1978), p. 179; *1980 Census of Population*, PC80-1-C13 (June 1983), table 72; *1990 Census of Population*, 1990 CP-2-13 (September 1993), table 29; *Current Population Reports, Consumer Income*, Series P-60, No. 175 (August 1991), pp. 219-221, No. 185 (September 1993), p. 1 and App. Table D-1, and No. 188 (February 1995), tables C and D; Release CB95-185 (October 5, 1995); *Statistical Abstract of the United States: 1995*, p. 482.

**Table 13.17-- POVERTY STATUS IN 1989, FOR THE STATE AND OAHU:
1990**

[Based on nationwide poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the numbers of persons and families below the poverty level in Hawaii. Data refer to the poverty status in 1989 of families and persons surveyed in April 1990]

| Subject | State total | Oahu only |
|--|-------------|-----------|
| All persons for whom poverty status is determined..... | 1,071,352 | 803,204 |
| Below poverty level | 88,408 | 60,093 |
| Persons 18 years and over | 795,834 | 601,880 |
| Below poverty level | 56,464 | 39,029 |
| Persons 65 years and over | 120,952 | 88,602 |
| Below poverty level | 9,701 | 6,888 |
| Related children under 18 years | 273,746 | 200,310 |
| Below poverty level | 30,440 | 20,191 |
| Related children under 5 years | 80,522 | 60,206 |
| Below poverty level | 10,137 | 6,907 |
| Related children 5 to 17 years..... | 193,224 | 140,104 |
| Below poverty level | 20,303 | 13,284 |
| Unrelated individuals | 147,440 | 107,072 |
| Below poverty level | 29,435 | 20,330 |
| All families..... | 266,439 | 199,597 |
| Below poverty level | 16,053 | 10,733 |
| With related children under 18 years | 143,331 | 106,216 |
| Below poverty level | 12,760 | 8,423 |
| With related children under 5 years..... | 64,476 | 48,376 |
| Below poverty level | 7,213 | 4,895 |
| Female householder families | 35,368 | 26,101 |
| Below poverty level | 6,937 | 4,445 |
| With related children under 18 years | 21,428 | 14,960 |
| Below poverty level | 6,382 | 4,020 |
| With related children under 5 years..... | 8,220 | 5,712 |
| Below poverty level | 3,426 | 2,157 |

Continued on next page.

**Table 13.17-- 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 13.18-- POVERTY INCOME GUIDELINES: 1993, 1994, AND 1995

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services to determine eligibility for certain Federal programs for the poor]

| Size of family unit | Effective Feb. 12, 1993 | Effective Feb. 10, 1994 | Effective Feb. 9, 1995 |
|---------------------|----------------------------|----------------------------|---------------------------|
| 1..... | 8,040 | 8,470 | 8,610 |
| 2..... | 10,860 | 11,320 | 11,550 |
| 3..... | 13,680 | 14,170 | 14,490 |
| 4..... | 16,500 | 17,020 | <u>1/</u> 17,430 |
| 5..... | 19,320 | 19,870 | 20,370 |
| 6..... | 22,140 | 22,720 | 23,310 |
| 7..... | 24,960 | 25,570 | 26,250 |
| 8..... | 27,780 | 28,420 | <u>2/</u> 29,190 |

1/ Corresponding levels for four-person families elsewhere in the United States were \$15,150 on the Mainland and \$18,940 in Alaska.

2/ For larger families, add \$2,940 for each additional member.

Source: U.S. Department of Health and Human Services, "Annual Update of the HHS Poverty Guidelines," *Federal Register*, February 12, 1993, February 10, 1994, and February 9, 1995.

Table 13.19-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR OAHU: 1990-91 TO 1992-93

[Annual averages for two-year periods. For detailed breakdowns, see source]

| Item | 1990-91 | 1991-92 | 1992-93 |
|--|---------|---------|---------|
| Total expenditures (dollars) | 36,394 | 37,273 | 38,997 |
| Food at home | 3,163 | 3,455 | 3,889 |
| Food away from home | 2,471 | 2,878 | 3,215 |
| Alcoholic beverages..... | 470 | 449 | 503 |
| Housing | 11,196 | 11,863 | 12,261 |
| Shelter | 7,432 | 8,080 | 8,352 |
| Utilities, fuels, and public services..... | 1,272 | 1,448 | 1,673 |
| Household operations | 552 | 509 | 430 |
| Housekeeping supplies | 488 | 514 | 483 |
| Housefurnishings and equipment | 1,451 | 1,313 | 1,324 |
| Apparel and services | 1,728 | 2,166 | 2,086 |
| Transportation | 6,052 | 5,628 | 5,490 |
| Health care | 1,623 | 1,557 | 1,661 |
| Entertainment..... | 1,618 | 1,534 | 1,652 |
| Personal care products and services..... | 498 | 515 | 496 |
| Reading | 209 | 204 | 203 |
| Education | 693 | 573 | 1,043 |
| Tobacco products and smoking supplies. | 181 | 228 | 282 |
| Miscellaneous..... | 1,854 | 1,837 | 1,109 |
| Cash contributions..... | 1,179 | 1,139 | 1,029 |
| Personal insurance and pensions..... | 3,459 | 3,245 | 4,078 |
| Life and other personal insurance | 581 | 446 | 424 |
| Pensions and Social Security..... | 2,878 | 2,799 | 3,654 |
| Number of consumer units..... | 242,000 | 266,000 | 265,000 |
| Consumer unit characteristics: | | | |
| Income before taxes (dollars)..... | 41,499 | 42,156 | 46,404 |
| No. of persons in consumer unit..... | 2.8 | 2.6 | 2.7 |
| No. of earners..... | 1.5 | 1.4 | 1.6 |
| No. of vehicles..... | 1.6 | 1.5 | 1.6 |
| Percent homeowner..... | 49 | 44 | 47 |

Source: U.S. Bureau of Labor Statistics, printouts.

Table 13.20-- AVERAGE ANNUAL EXPENDITURES AND OTHER CHARACTERISTICS OF CONSUMER UNITS, FOR THE WESTERN UNITED STATES AND OAHU: 1992-93

[Annual averages for two-year periods. For detailed breakdowns, see source]

| Item | Western United States | Oahu | |
|--|-----------------------|---------|----------------|
| | | Average | Rank <u>1/</u> |
| Total expenditures..... | 34,012 | 38,997 | 3 |
| Food at home | 2,902 | 3,889 | 1 |
| Food away from home | 1,718 | 3,215 | 1 |
| Alcoholic beverages..... | 345 | 503 | 2 |
| Housing | 11,138 | 12,261 | 5 |
| Shelter | 6,966 | 8,352 | 4 |
| Utilities, fuels, and public services..... | 1,864 | 1,673 | 6 |
| Household operations | 577 | 430 | 7 |
| Housekeeping supplies | 434 | 483 | 1 |
| Housefurnishings and equipment | 1,297 | 1,324 | 4 |
| Apparel and services | 1,717 | 2,086 | 1 |
| Transportation | 6,056 | 5,490 | 7 |
| Health care | 1,673 | 1,661 | 2 |
| Entertainment | 1,944 | 1,652 | 7 |
| Personal care products and services..... | 422 | 496 | 3 |
| Reading..... | 176 | 203 | 4 |
| Education | 444 | 1,043 | 1 |
| Tobacco products and smoking supplies. | 219 | 282 | 2 |
| Miscellaneous..... | 935 | 1,109 | 2 |
| Cash contributions | 977 | 1,029 | 4 |
| Personal insurance and pensions..... | 3,346 | 4,078 | 3 |
| Life and other personal insurance | 357 | 424 | 3 |
| Pensions and Social Security | 2,989 | 3,654 | 3 |
| Consumer unit characteristics: | | | |
| Income before taxes (dollars)..... | 37,404 | 46,404 | 3 |
| No. of persons in consumer unit..... | 2.7 | 2.7 | 1 |
| No. of earners..... | 1.4 | 1.6 | 1 |
| No of vehicles..... | 2.2 | 1.6 | 7 |
| Percent homeowner..... | 58 | 47 | 7 |

1/ Among the seven metropolitan statistical areas in the West.

Source: U.S. Bureau of Labor Statistics, printouts.

Table 13.21-- TOP WEALTHHOLDERS: 1962 TO 1989

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts, rising from \$60,000 in 1962 to \$600,000 in 1989. All figures are estimates based on estate tax return samples]

| Group and year | Number of top wealthholders | Millions of dollars | | |
|-------------------------------------|-----------------------------|---------------------|---------------------|-----------|
| | | Total assets | Debts and mortgages | Net worth |
| Gross estate over \$60,000: | | | | |
| 1962..... | 11,323 | 1,908 | 231 | 1,677 |
| 1969..... | 36,470 | 6,327 | 1,090 | 5,236 |
| 1972..... | 53,700 | 7,866 | 1,369 | 6,497 |
| Gross estate over \$120,000: | | | | |
| 1976..... | 39,000 | 7,436 | 1,546 | 5,890 |
| Gross estate over \$325,000: | | | | |
| 1982..... | 20,300 | 14,767 | 3,523 | 11,244 |
| Gross estate over \$500,000: | | | | |
| 1982..... | 8,700 | 10,864 | 2,919 | 7,946 |
| 1986..... | 11,000 | 11,330 | 1,475 | 9,855 |
| Gross estate over \$600,000: | | | | |
| 1989..... | 22,300 | 28,393 | 2,447 | 25,947 |

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, and Spring 1993, pp. 105-121.

**Table 13.22-- TOTAL AND SELECTED ASSETS, DEBTS AND MORTGAGES,
AND NET WORTH OF TOP WEALTHHOLDERS: 1989**

[Top wealthholders are defined for this table as persons with net worth under \$10,000,000 and gross assets of \$600,000 or more]

| Subject | Number of persons | Amount (millions of dollars) |
|----------------------------------|-------------------|------------------------------|
| Total assets ^{1/} | 22,300 | 28,393 |
| Debts and mortgages | 18,300 | 2,447 |
| Net worth..... | 22,300 | 25,947 |
| Total assets by type: | | |
| Real estate..... | 19,100 | 11,713 |
| Corporate stock..... | 14,800 | 8,707 |
| Cash..... | 22,200 | 2,194 |
| Bonds..... | 7,900 | 1,542 |

^{1/} For the U.S. , top wealthholders numbered 3,380,300. Hawaii ranked 32rd among the 50 States. In top wealthholders per 10,000 residents, ratios were 204 for Hawaii and 137 for the entire nation.

Source: U.S. Internal Revenue Service, "Personal Wealth, 1989," *SOI Bulletin*, Spring 1993, pp. 105-121, table 7.

Table 13.23-- WORTH OF RICHEST RESIDENTS: 1994 AND 1995

| Name | Age (years) | Net worth (million dollars) |
|---------------------------|-------------|-----------------------------|
| 1994 | | |
| Barbara Cox Anthony | 71 | 2,900 |
| Campbell family | ... | 800 |
| Kelley family..... | ... | 440 |
| James K. Schuler | 56 | 290 |
| 1995 | | |
| Barbara Cox Anthony | 72 | 3,000 |
| Campbell family | ... | 850 |
| Damon family..... | ... | 700 |
| Robinson family..... | ... | 500 |

Source: "The Forbes Four Hundred," *Forbes*, October 17, 1994, pp. 100-348, and October 16, 1995, pp 106-368.

Section 14

PRICES

This section presents indexes of consumer prices for Honolulu, the implicit price deflator for gross state product, and comparisons of Honolulu living costs with those in other urban areas. Other statistics on prices are reported in Sections 7, 16, 17, 18, 21, and 23.

During 1995, the Honolulu all-items consumer price index for all urban consumers (CPI-U) averaged 168.1, with the 1982-1984 level equal to 100. The index had increased 2.2 percent over the average for 1994, 21.7 percent since 1990, and 68.1 percent since the 1982-84 base period. Prices have risen since the 1982-84 base period for medical care (109.8 percent) and housing (74.7 percent). The implicit price deflator for expenditures on gross state product (a measure of price changes used in the state product accounts) rose 52.7 percent between 1984 and 1994.

An "intermediate" budget for a four-person family living on Oahu was unofficially estimated at \$60,689 as of 1995. This family budget was 35.1 percent higher than the corresponding urban United States average. Differences were particularly marked for food at home (50.1 percent higher) and personal income taxes (83.3 percent higher).

The Honolulu consumer price index has been compiled by the U.S. Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban households. Prices are expressed as a percent of the average levels reported in 1982-1984, the base period. Current data for Honolulu and other cities are published in *CPI Detailed Report*, issued monthly by BLS.

Official comparisons of Honolulu and Mainland living costs are no longer being made on a regular basis. The annual four-person family budgets estimated by the Bureau of Labor Statistics for Honolulu and the Mainland were discontinued after 1981, and are now maintained unofficially by the Bank of Hawaii. A comparison of prices in Hawaii and Washington, D.C., compiled for the U.S. Office of Personnel Management to provide a basis for cost of living adjustments for Federal employees, was most recently published for 1990. These studies are subject to technical limitations and must be interpreted with considerable caution.

No composite wholesale or producer price index is available for Hawaii. Average wholesale prices of agricultural products are reported in *Statistics of Hawaiian Agriculture*, issued by the Hawaii Agricultural Statistics Service, and in various other publications of the State Department of Agriculture. Wholesale price statistics of other commodities are seldom available.

Data on prices and living costs for the nation as a whole and other areas are summarized in *Statistical Abstract of the United States: 1995*, 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: SELECTED YEARS, 1958 TO 1994

[1982 = 100]

| Year | Deflator | Year | Deflator | Year | Deflator |
|------------|----------|------------|----------|------------|----------|
| 1958 | 34.1 | 1979 | 84.0 | 1987 | 119.5 |
| 1960 | 34.4 | 1980 | 89.3 | 1988 | 125.8 |
| 1965 | 37.7 | 1981 | 93.3 | 1989 | 132.2 |
| 1970 | 47.3 | 1982 | 100.0 | 1990 | 140.6 |
| 1975 | 63.9 | 1983 | 104.2 | 1991 | 149.4 |
| 1976 | 67.5 | 1984 | 108.1 | 1992 | 155.9 |
| 1977 | 71.0 | 1985 | 111.7 | 1993 | 160.7 |
| 1978 | 77.1 | 1986 | 114.3 | 1994 | 165.1 |

Source: Hawaii State Department of Business and Economic Development, *Hawaii Gross State Product Accounts: 1958-1988* (June 1989), tables 1-A and 1-5, and records.

Table 14.02-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: ANNUAL AVERAGES, 1940 TO 1995

[1982-1984 average = 100. Excludes rent before 1963]

| Year | CPI-U | CPI-W | Year | CPI-U | CPI-W |
|-----------|-------|-------|-----------|-------|-------|
| 1940..... | 14.7 | 14.5 | 1970..... | 41.5 | 40.9 |
| 1941..... | 15.5 | 15.3 | 1971..... | 43.2 | 42.6 |
| 1942..... | 17.6 | 17.4 | 1972..... | 44.6 | 44.0 |
| 1943..... | 18.9 | 18.7 | 1973..... | 46.6 | 45.9 |
| 1944..... | 19.2 | 19.0 | 1974..... | 51.5 | 50.8 |
| 1945..... | 19.7 | 19.5 | 1975..... | 56.3 | 55.5 |
| 1946..... | 21.0 | 20.8 | 1976..... | 59.1 | 58.3 |
| 1947..... | 24.4 | 24.1 | 1977..... | 62.1 | 61.2 |
| 1948..... | 25.7 | 25.4 | 1978..... | 66.9 | 65.9 |
| 1949..... | 25.2 | 24.9 | 1979..... | 74.3 | 73.2 |
| 1950..... | 24.3 | 24.0 | 1980..... | 83.0 | 81.9 |
| 1951..... | 25.7 | 25.4 | 1981..... | 91.7 | 90.5 |
| 1952..... | 26.5 | 26.2 | 1982..... | 97.2 | 96.0 |
| 1953..... | 26.7 | 26.4 | 1983..... | 99.3 | 99.8 |
| 1954..... | 26.9 | 26.6 | 1984..... | 103.5 | 104.3 |
| 1955..... | 27.3 | 27.0 | 1985..... | 106.8 | 107.9 |
| 1956..... | 27.7 | 27.4 | 1986..... | 109.4 | 110.3 |
| 1957..... | 28.6 | 28.3 | 1987..... | 114.9 | 115.9 |
| 1958..... | 30.0 | 29.6 | 1988..... | 121.7 | 122.8 |
| 1959..... | 30.5 | 30.1 | 1989..... | 128.7 | 129.7 |
| 1960..... | 31.3 | 30.9 | 1990..... | 138.1 | 138.9 |
| 1961..... | 32.1 | 31.7 | 1991..... | 148.0 | 148.9 |
| 1962..... | 32.8 | 32.4 | 1992..... | 155.1 | 155.9 |
| 1963..... | 33.5 | 33.1 | 1993..... | 160.1 | 160.7 |
| 1964..... | 33.7 | 33.3 | 1994..... | 164.5 | 164.7 |
| 1965..... | 34.4 | 33.9 | 1995..... | 168.1 | 168.4 |
| 1966..... | 35.3 | 34.8 | | | |
| 1967..... | 36.3 | 35.8 | | | |
| 1968..... | 37.7 | 37.2 | | | |
| 1969..... | 39.4 | 38.8 | | | |

Source: 1964-1995 by Hawaii State Data Center. 1940-1963 from surveys by Eugene Danaher and Hawaii State Department of Labor and Industrial Relations, cited in Hawaii State Department of Planning and Economic Development, *The Honolulu Consumer Price Index, 1940-1986* (Statistical Report 187, May 30, 1986), as shifted to 1982-1984 base.

Table 14.03-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: SEMI-ANNUALLY, 1984 TO 1995

[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 |

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly), printouts, tapes, and press releases.

**Table 14.04-- PERCENT CHANGE IN SELECTED PRICE INDEXES:
1984 TO 1994**

| Index <u>1/</u> | 1984 to 1994 | 1984 to 1989 | 1989 to 1994 | 1990 to 1991 | 1991 to 1992 | 1992 to 1993 | 1993 to 1994 |
|--------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| Hawaii GSP deflator..... | 52.7 | 22.3 | 24.9 | 6.3 | 4.4 | 3.1 | 2.7 |
| Honolulu CPI-U | 58.9 | 24.3 | 27.8 | 7.2 | 4.8 | 3.2 | 2.7 |
| Honolulu CPI-W | 57.9 | 24.4 | 27.0 | 7.2 | 4.7 | 3.1 | 2.5 |
| U.S. CPI-U | 42.6 | 19.3 | 19.5 | 4.2 | 3.0 | 3.0 | 2.6 |

1/ GSP deflator, the implicit price deflator for expenditures on Hawaii gross state product; CPI-U, consumer price index for all urban consumers; CPI-W, consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly); present report, tables 14.01 and 14.02.

**Table 14.05-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS
(CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE
GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1991 TO 1995**

[Unless otherwise specified, 1982-1984 average=100]

| Group | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|-------|-------|-------|-------|-------|
| All items | 148.0 | 155.1 | 160.1 | 164.5 | 168.1 |
| Food and beverages | 145.9 | 148.5 | 152.9 | 153.4 | 156.8 |
| Food | 145.9 | 148.3 | 152.7 | 153.2 | 157.0 |
| Food at home..... | 152.8 | 155.0 | 158.0 | 157.8 | 162.1 |
| Cereals and bakery products..... | 159.5 | 163.3 | 166.0 | 163.5 | 168.4 |
| Meats, poultry, fish, and eggs | 154.5 | 157.3 | 154.5 | 137.9 | 136.0 |
| Meats, poultry, and fish | 155.5 | 159.1 | 156.0 | 138.1 | 135.8 |
| Dairy products..... | 125.6 | 128.2 | 130.3 | 132.4 | 133.8 |
| Fruits and vegetables..... | 175.8 | 172.9 | 181.0 | 192.3 | 201.2 |
| Other foods at home | 138.2 | 143.2 | 150.6 | 164.0 | 173.4 |
| Food away from home | 133.6 | 137.8 | 141.9 | 146.4 | 149.2 |
| Alcoholic beverages..... | 144.4 | 151.1 | 155.0 | 155.8 | 152.3 |
| Housing..... | 152.8 | 161.7 | 166.5 | 171.6 | 174.7 |
| Shelter | 169.3 | 179.6 | 183.5 | 188.7 | 191.7 |
| Renters' costs <u>1/</u> | 174.6 | 185.2 | 190.4 | 195.6 | 197.9 |
| Rent, residential..... | 165.5 | 175.8 | 181.4 | 185.9 | 187.0 |
| Other renters' costs..... | 191.0 | 201.9 | 203.1 | 212.0 | 220.9 |
| Homeowners' costs <u>1/</u> | 175.1 | 185.8 | 188.9 | 194.6 | 197.8 |
| Owners' equivalent rent <u>1/</u> | 176.0 | 186.8 | 189.9 | 195.6 | 198.9 |
| Fuel and other utilities..... | 101.3 | 106.1 | 117.5 | 121.3 | 128.4 |
| Fuels | 85.6 | 90.0 | 102.6 | 101.9 | 111.6 |
| Gas (piped) and electricity..... | 84.9 | 89.4 | 101.8 | 101.1 | 110.8 |
| Electricity..... | 83.2 | 88.0 | 101.6 | 101.0 | 111.1 |
| Utility (piped) gas..... | 99.0 | 98.8 | 96.8 | 94.2 | 98.9 |
| Household furnishings and operation.. | 130.7 | 137.3 | 140.0 | 145.6 | 146.0 |
| Apparel and upkeep | 110.5 | 114.2 | 116.5 | 118.7 | 117.5 |
| Apparel commodities..... | 107.8 | 111.1 | 113.2 | 115.3 | 114.0 |
| Men's and boys' apparel..... | 126.7 | 131.8 | 135.8 | 149.8 | 152.1 |
| Women's and girls' apparel | 98.3 | 100.5 | 103.8 | 95.9 | 94.6 |
| Footwear..... | 102.5 | 104.7 | 98.0 | 98.2 | 94.4 |
| Transportation | 139.3 | 147.4 | 150.5 | 156.4 | 162.4 |
| Private transportation..... | 141.0 | 149.8 | 152.1 | 156.7 | 162.8 |
| Motor fuel | 113.2 | 117.5 | 121.3 | 123.1 | 125.5 |
| Gasoline | 115.1 | 119.6 | 124.1 | 126.0 | 128.4 |
| Public transportation | 125.0 | 128.3 | 137.1 | 152.5 | 158.4 |
| Medical care..... | 171.3 | 182.6 | 197.4 | 206.0 | 209.8 |
| Entertainment..... | 134.3 | 136.3 | 138.3 | 142.3 | 144.2 |
| Other goods and services..... | 175.7 | 189.0 | 200.1 | 209.6 | 216.8 |
| Personal care..... | 144.8 | 153.3 | 158.6 | 162.9 | 165.8 |

Continued on next page.

Table 14.05-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS (CPI-U), BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1991 TO 1995-- Con.

| Group | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|-------|-------|-------|-------|-------|
| All items | 148.0 | 155.1 | 160.1 | 164.5 | 168.1 |
| Commodities | 134.9 | 138.5 | 141.4 | 142.9 | 145.1 |
| Food and beverages | 145.9 | 148.5 | 152.9 | 153.4 | 156.8 |
| Commodities less food and beverages | 126.1 | 130.5 | 132.1 | 134.5 | 135.8 |
| Nondurables less food and beverages | 127.4 | 133.2 | 136.8 | 138.6 | 139.6 |
| Durables | 124.4 | 126.5 | 124.9 | 128.2 | 130.0 |
| Services | 159.6 | 169.9 | 176.6 | 183.5 | 188.3 |
| Medical care services | 173.1 | 183.6 | 199.1 | 208.0 | 211.7 |
| Special indexes: | | | | | |
| All items less shelter | 139.6 | 145.6 | 150.9 | 155.0 | 158.9 |
| All items less medical care | 146.6 | 153.5 | 158.0 | 162.2 | 165.8 |
| All items less energy | 152.7 | 160.2 | 164.9 | 169.7 | 173.1 |
| Energy | 100.2 | 104.6 | 112.6 | 113.2 | 119.0 |
| Commodities less food | 127.0 | 131.4 | 133.2 | 135.5 | 136.6 |
| Nondurables less food | 128.6 | 134.3 | 138.0 | 139.8 | 140.3 |
| Nondurables | 137.7 | 141.6 | 145.7 | 146.8 | 149.1 |
| Services less rent of shelter ^{1/} | 150.3 | 160.9 | 171.0 | 179.9 | 186.8 |
| Services less medical care | 158.1 | 168.3 | 174.4 | 181.1 | 186.0 |

^{1/} December 1982=100.

Source: U.S. Bureau of Labor Statistics, *CPI Detailed Report* (monthly), press releases, and printouts.

**Table 14.06-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1994**

[Percent of all items]

| Group | CPI-U <u>1/</u> | CPI-W <u>2/</u> |
|--|-----------------|-----------------|
| EXPENDITURE CATEGORY | | |
| All items | 100.000 | 100.000 |
| Food and beverages | 19.754 | 20.759 |
| Food | 18.409 | 19.150 |
| Food at home..... | 12.151 | 12.145 |
| Cereals and bakery products..... | 1.550 | 1.772 |
| Meats, poultry, fish, and eggs | 3.420 | 3.703 |
| Meats, poultry, and fish | 3.201 | 3.424 |
| Dairy products..... | .897 | .836 |
| Fruits and vegetables..... | 3.367 | 3.083 |
| Other foods at home | 2.917 | 2.751 |
| Food away from home | 6.259 | 7.005 |
| Alcoholic beverages..... | 1.344 | 1.609 |
| Housing..... | 42.972 | 40.089 |
| Shelter | 32.517 | 30.066 |
| Renters' costs..... | 9.550 | 9.645 |
| Rent, residential..... | 8.071 | 8.632 |
| Other renters' costs..... | 1.479 | 1.013 |
| Homeowners' costs..... | 22.715 | 20.225 |
| Owners' equivalent rent | 22.537 | 20.099 |
| Fuel and other utilities..... | 4.486 | 4.808 |
| Fuels | 2.103 | 2.220 |
| Fuel oil, and other household fuel | .023 | .029 |
| Fuel oil..... | .001 | .005 |
| Other household fuel commodities | .022 | .024 |
| Gas (piped) and electricity | 2.080 | 2.191 |
| Electricity | 1.928 | 1.970 |
| Utility (piped) gas | .152 | .221 |
| Household furnishings and operation..... | 5.969 | 5.215 |
| Apparel and upkeep | 4.498 | 4.755 |
| Apparel commodities | 4.167 | 4.410 |
| Men's and boys' apparel..... | 1.323 | 1.466 |
| Women's and girls' apparel | 1.583 | 1.653 |
| Footwear..... | .502 | .565 |

Continued on next page.

**Table 14.06-- RELATIVE IMPORTANCE OF COMPONENTS IN THE
CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1994 -- Con.**

| Group | CPI-U <u>1/</u> | CPI-W <u>2/</u> |
|--|-----------------|-----------------|
| EXPENDITURE CATEGORY -- Con. | | |
| Transportation..... | 16.172 | 18.246 |
| Private transportation..... | 14.497 | 16.923 |
| Motor fuel..... | 2.900 | 3.551 |
| Public transportation..... | 1.674 | 1.323 |
| Medical care..... | 5.801 | 5.623 |
| Entertainment..... | 4.047 | 3.936 |
| Other goods and services..... | 6.758 | 6.591 |
| Personal care..... | 1.275 | 1.398 |
| COMMODITY AND SERVICE GROUP | | |
| All items..... | 100.000 | 100.000 |
| Commodities..... | 40.537 | 43.784 |
| Food and beverages..... | 19.754 | 20.759 |
| Commodities less food and beverages..... | 20.784 | 23.025 |
| Nondurables less food and beverages..... | 13.295 | 14.680 |
| Durables..... | 7.489 | 8.344 |
| Services..... | 59.463 | 56.216 |
| Medical care services..... | 4.767 | 4.559 |
| Special indexes: | | |
| All items less shelter..... | 67.483 | 69.934 |
| All items less medical care..... | 94.199 | 94.377 |
| All items less energy..... | 94.997 | 94.230 |
| All items less food and energy..... | 76.588 | 75.080 |
| Energy..... | 5.003 | 5.770 |
| Commodities less food..... | 22.128 | 24.634 |
| Nondurables less food..... | 14.639 | 16.290 |
| Nondurables..... | 33.049 | 35.439 |
| Services less rent of shelter..... | 27.388 | 26.485 |
| Services less medical care services..... | 54.696 | 51.657 |

1/ Consumer price index for all urban consumers.

2/ Consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, printout.

Table 14.07-- EXPENDITURES ON A CHILD FROM BIRTH TO AGE 18: 1993

[In dollars. Data pertain to husband-wife families living in urban areas in the Western States]

| Family income level | Income range | Expenditures on a child | |
|---------------------------|-----------------|-------------------------|----------------|
| | | 18-year total | Annual average |
| Lower income level | <32,100 | 107,040 | 5,947 |
| Middle income level | 32,100 - 54,400 | 142,680 | 7,927 |
| Higher income level..... | >54,400 | 201,570 | 11,198 |

Source: U.S. Department of Agriculture, *Family Economics Review*, Vol. 7, No. 3, 1994, p.14.

Table 14.08-- ANNUAL INTERMEDIATE BUDGET FOR A FOUR-PERSON FAMILY ON OAHU: 1971 TO 1995

| Year | Dollars | Percent of urban U.S. | Year | Dollars | Percent of urban U.S. |
|-----------|---------|-----------------------|----------------------|---------|-----------------------|
| 1971..... | 13,108 | 119.5 | 1984..... | 35,484 | 124.4 |
| 1972..... | 13,617 | 119.0 | 1985..... | 36,926 | 122.7 |
| 1973..... | 14,937 | 118.3 | 1986..... | 38,437 | 123.2 |
| 1974..... | 17,019 | 118.8 | 1987..... | 41,790 | 126.7 |
| 1975..... | 18,107 | 117.0 | 1988..... | 44,414 | 129.2 |
| 1976..... | 19,036 | 117.2 | 1989..... | 47,950 | 130.7 |
| 1977..... | 20,883 | 122.1 | 1990..... | 52,139 | 134.1 |
| 1978..... | 23,099 | 124.0 | 1991..... | 55,009 | 136.3 |
| 1979..... | 25,799 | 125.7 | 1992..... | 57,345 | 138.8 |
| 1980..... | 28,488 | 123.1 | 1993 <u>1/</u> | 59,129 | 138.7 |
| 1981..... | 31,893 | 125.5 | 1994 <u>1/</u> | 59,412 | 135.6 |
| 1982..... | 33,403 | 124.5 | 1995 <u>1/</u> | 60,689 | 135.1 |
| 1983..... | 33,890 | 124.3 | | | |

1/ Preliminary.

Source: U.S. Bureau of Labor Statistics, annual releases for 1971-1981; 1982-1995 estimates by Paul Brewbaker, Economic Department, Bank of Hawaii.

Table 14.09-- ANNUAL INTERMEDIATE BUDGETS, BY ITEM, FOR A FOUR-PERSON FAMILY IN THE UNITED STATES AND ON OAHU: 1981 AND 1995

[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 1995 values are preliminary unofficial estimates prepared by the Bank of Hawaii, using comparable assumptions and methodology. Users of these estimates should bear in mind the limitations imposed by the underlying assumptions and methods]

| Item | Urban United States (dollars) | | Oahu (dollars) | | Oahu as percent of urban U.S. | |
|---------------------------------------|-------------------------------|--------|----------------|--------|-------------------------------|-------|
| | 1981 | 1995 | 1981 | 1995 | 1981 | 1995 |
| Total budget | 25,409 | 44,922 | 31,893 | 60,689 | 125.5 | 135.1 |
| Consumption | 18,242 | 32,022 | 21,530 | 40,059 | 118.0 | 125.1 |
| Food | 5,843 | 9,315 | 7,626 | 13,150 | 130.5 | 141.2 |
| Food at home | 4,866 | 7,658 | 6,649 | 11,492 | 136.6 | 150.1 |
| Food away from home | 977 | 1,657 | 977 | 1,659 | 100.0 | 100.1 |
| Housing | 5,547 | 9,603 | 6,493 | 12,195 | 117.1 | 127.0 |
| Homeowner shelter costs | 4,886 | 8,915 | 5,467 | 10,837 | 111.9 | 121.6 |
| Renter shelter costs | 2,732 | 5,168 | 3,991 | 7,257 | 146.1 | 140.4 |
| Housefurnishings and operations | 1,199 | 1,625 | 1,395 | 2,253 | 116.3 | 138.7 |
| Transportation | 2,372 | 3,625 | 2,421 | 4,004 | 102.1 | 110.4 |
| Clothing | 1,333 | 1,846 | 1,432 | 1,803 | 107.4 | 97.7 |
| Personal care | 508 | 831 | 590 | 1,113 | 116.1 | 133.8 |
| Medical care | 1,443 | 3,821 | 1,590 | 4,085 | 110.2 | 106.9 |
| Other family consumption <u>1/</u> .. | 1,196 | 2,980 | 1,378 | 3,711 | 115.2 | 124.5 |
| Other items <u>2/</u> | 1,021 | 1,721 | 1,137 | 2,086 | 113.6 | 121.2 |
| Social Security payments | 1,703 | 3,483 | 2,049 | 4,554 | 120.3 | 130.8 |
| Personal income taxes <u>3/</u> | 4,443 | 7,422 | 7,177 | 13,600 | 161.5 | 183.3 |

1/ Reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

2/ Includes gifts and contributions, life insurance, and occupational expenses.

3/ 1995 values based on 1992 data.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release USDL: 82-139, April 16, 1981); 1995 estimates by Paul H. Brewbaker, Economics Department, Bank of Hawaii, in "Hawaii's Cost of Living in 1990: Urban Four-Person Family Budgets at an Intermediate Standard of Living" (1991), as updated to 1995.

Table 14.10-- COST OF LIVING INDEX FOR HILO: 1990 AND 1991

[Hilo living costs as a percent of average costs in 308 participating urban areas]

| Component | Weight (percent) | | Index | |
|---------------------------------------|------------------|----------------------------|------------------|----------------------------|
| | 2nd qtr. 1990 | 4th qtr. 1991 <u>1/</u> | 2nd qtr. 1990 | 4th qtr. 1991 <u>1/</u> |
| Composite index | 100 | 100 | 132.5 | 136.7 |
| Grocery items..... | 17 | 13 | 140.7 | 153.5 |
| Housing..... | 22 | 28 | 162.3 | 172.3 |
| Utilities | 11 | 9 | 102.0 | 101.2 |
| Transportation..... | 13 | 10 | 127.2 | 136.7 |
| Health care..... | 7 | 5 | 110.7 | 123.5 |
| Miscellaneous goods and services..... | 30 | 35 | 124.6 | 117.2 |

1/ Most recent quarter surveyed. Hilo discontinued its participation in this survey after the fourth quarter of 1991.

Source: American Chamber of Commerce Researchers Association (ACCRA), *Cost of Living Index* (quarterly), provided by Institute for Business and Economic Studies, University of Hawaii at Hilo.

Table 14.11-- COMPARATIVE LIVING COSTS FOR HONOLULU AND OTHER METROPOLITAN AREAS: MARCH-APRIL 1995

[Based on a survey of 400 metropolitan areas. Data exclude housing, transportation, and personal income taxes]

| Rank | Metropolitan area | Index <u>1/</u> |
|------|---|-----------------|
| 1 | New York, N.Y. (Manhattan only) <u>2/</u> | 132.1 |
| 2 | Honolulu, Hawaii <u>2/</u> | 120.5 |
| 3 | Washington, D.C. | 113 |
| 4 | Anchorage, Alaska..... | 108 |
| 5 | Los Angeles, California..... | 108 |
| ... | U.S. median..... | 100.0 |
| 400 | Billings, Montana | 91.6 |

1/ Percent of U.S. median.

2/ For the entire New York MSA, the index was lower than that of Honolulu.

Source: Runzheimer International, cited in *Honolulu Star-Bulletin*, November 14, 1995, p. B-1, and *Honolulu Advertiser*, November 15, 1995, p. D1.

Table 14.12-- INDEXES OF EXECUTIVE LIVING COSTS IN SELECTED MAJOR CITIES WORLDWIDE: MARCH 1992

[Honolulu = 100]

| City | General index | City | General index |
|------------------|---------------|--------------------|---------------|
| Honolulu..... | 100 | San Francisco..... | 109 |
| Chicago..... | 111 | Seattle..... | 93 |
| Hong Kong..... | 135 | Singapore..... | 117 |
| Los Angeles..... | 109 | Sydney..... | 117 |
| Manila..... | 75 | Taipei..... | 153 |
| New York..... | 124 | Tokyo..... | 211 |

Source: Business International, *Business International Cost of Living* (London, 1992), report for DBED.

Table 14.13-- COMPARATIVE PRICES OF SELECTED GOODS AND SERVICES, FOR HONOLULU AND TEN OTHER CITIES: 1995

[Dollars]

| Item | Honolulu | 11 cities ^{1/} | | |
|---------------------------------|----------|-------------------------|--------|---------|
| | | Median | Lowest | Highest |
| Fast food (1 meal)..... | 4.33 | 4.84 | 2.69 | 7.20 |
| Cigarettes (carton)..... | 19.88 | 24.65 | 12.13 | 36.56 |
| Beer (6-pack)..... | 4.87 | 5.02 | 2.63 | 13.31 |
| Men's jeans..... | 31.63 | 63.73 | 31.63 | 112.51 |
| Woman's blouse..... | 32.66 | 47.88 | 32.28 | 139.26 |
| Aspirin (100)..... | 7.82 | 7.82 | 1.78 | 36.57 |
| Taxi (airport to downtown)..... | 19.69 | 16.05 | 1.68 | 39.86 |

^{1/} Frankfurt, Hong Kong, Honolulu, London, Los Angeles, Mexico City, Paris, Singapore, Sydney, Tokyo, and Toronto.

Source: Runzheimer International, cited in *Honolulu Advertiser*, July 29, 1995, p. A3.

Table 14.14-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C., BY COUNTIES: 1990-1993

| Allowance category ^{1/} | City and Co. of Honolulu | Kauai County | Maui County | Hawaii County |
|----------------------------------|--------------------------|--------------|-------------|---------------|
| INDEXES ^{2/} | | | | |
| "Part 1" methodology: | | | | |
| Local pricing | 120.39 | 116.08 | 119.58 | 104.86 |
| Exchange and commissary ... | 115.00 | ... | ... | ... |
| "Part 2" methodology: | | | | |
| Local pricing | 119.45 | 114.90 | 118.31 | 104.36 |
| Exchange and commissary ... | 114.34 | ... | ... | ... |
| ALLOWANCE RATES ^{3/} | | | | |
| Local retail..... | 22.5 | 17.5 | 20.0 | 15.0 |
| Commissary, exchange..... | 12.5 | 17.5 | ... | ... |

^{1/} Based on access to military commissary and exchange facilities. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, exchange," to Federal employees who have unlimited access to and who use military commissary and exchange facilities.

^{2/} Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in June-September 1990. Indexes were calculated by two different methods.

^{3/} Authorized allowance rate, expressed as a percentage differential, effective February 15, 1990 and reaffirmed January 8, 1993.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances," *Federal Personnel Manual System*, FPM Letter 591-51 (1990), "Cost-of-Living Allowances and Post Differentials (Nonforeign Areas); Advance Notice of Proposed Rulemaking; Proposed Rule," *Federal Register*, Vol. 56, No. 38, Part II, February 26, 1991, pp. 7902-7986, at pp. 7902-7903; and "Cost-of-Living Allowances and Post Differentials (Nonforeign Areas); Final Rule," *Federal Register*, Vol. 57, No. 237, December 9, 1992, pp. 58123-58124.

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.

There were seven banks with 184 locations, six savings and loan associations with 154 locations, one trust company with three branches, and 41 industrial loan or small loan licenses with 155 branch offices in Hawaii as of December 31, 1994. Deposits in all financial institutions reached \$22.3 billion at the end of 1993, compared with \$11.6 billion a decade earlier. There were 116 credit unions with combined assets of \$3.5 billion at the end of 1994.

Life insurance in force in Hawaii at the end of 1992 amounted to \$49 billion, more than twice the figure reported ten years earlier. For all 863 insurance companies doing business in the Islands, Hawaii premiums amounted to \$2.1 billion in 1993 and losses, claims, and benefits paid came to \$1.8 billion. Fire losses in fiscal 1995 amounted to \$30 million. Persons covered by the three major prepaid health insurance plans as of December 31, 1994 numbered 957,000, with annual membership dues of \$1.4 billion.

By mid-1995, about 51,000 corporations and partnerships were registered to do business in Hawaii: 36,400 local ("domestic") corporations, 6,800 out-of-State ("foreign") corporations, and 8,200 partnerships. Business establishments with one or more employees in 1992 numbered 30,500; over half had fewer than five employees. During fiscal 1995, 3,700 new local corporations were formed. Business receipts of corporations in 1992 exceeded \$40 billion; business receipts of partnerships and proprietorships in the same year amounted to respectively \$6.3 billion and \$2.4 billion. Hawaii's largest corporation, Dole Food Co., reported 1994 annual sales of \$3.8 billion. Business failures in 1994 numbered 258.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs and Department of Taxation, county fire departments, major island banks, Dun and Bradstreet, Inc., local health insurance plans, the Hawaii Credit Union League, the 1992 Census of Financial, Insurance, and Real Estate Industries, and the annual report on *County Business Patterns* issued by the U.S. Bureau of the Census. *Historical Statistics of Hawaii*, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 16 and 17 of *Statistical Abstract of the United States: 1995*.

**Table 15.01-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES:
1984 TO 1994**

[Excludes out-of-State branches of Hawaii-based institutions. As of December 31]

| Type of charter, island, and year | Banks | | Savings and loans associations | | Trust companies | | Financial services loan companies | |
|--------------------------------------|-------|----------------|--------------------------------------|----------------|--------------------|----------------|--|----------------|
| | Firms | Loca- tions | Asso- cia- tions | Loca- tions | Firms | Loca- tions | Firms | Loca- tions |
| 1984..... | 10 | 178 | 8 | 163 | 4 | 7 | 77 | 223 |
| 1985..... | 10 | 179 | 8 | 163 | 4 | 7 | 66 | 201 |
| 1986..... | 10 | 181 | 8 | 163 | 3 | 6 | 66 | 204 |
| 1987..... | 10 | 185 | 7 | 148 | 3 | 6 | 64 | 199 |
| 1988..... | 10 | 182 | 7 | 158 | 4 | 7 | 54 | 185 |
| 1989..... | 10 | 188 | 7 | 152 | 3 | 6 | 52 | 192 |
| 1990..... | 10 | 190 | 6 | 146 | 4 | 7 | 46 | 186 |
| 1991..... | 10 | 188 | 6 | 135 | 4 | 6 | 45 | 187 |
| 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 |
| TYPE OF CHARTER: 1994 | | | | | | | | |
| Federal..... | 2 | 12 | 4 | 131 | - | - | - | - |
| State..... | 5 | 172 | 2 | 23 | 1 | 3 | 41 | 155 |
| ISLANDS: 1994 | | | | | | | | |
| Hawaii..... | 5 | 22 | 5 | 17 | 1 | 1 | 10 | 18 |
| Maui..... | 5 | 22 | 6 | 13 | 1 | 1 | 9 | 14 |
| Lanai..... | 1 | 1 | 1 | 1 | - | - | - | - |
| Molokai..... | 1 | 1 | 2 | 2 | - | - | 1 | 1 |
| Oahu..... | 6 | 124 | 6 | 113 | 1 | 1 | 38 | 112 |
| Kauai..... | 3 | 14 | 5 | 8 | - | - | 8 | 10 |
| Niihau..... | - | - | - | - | - | - | - | - |

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

**Table 15.02-- FINANCE, INSURANCE, AND REAL ESTATE
ESTABLISHMENTS WITH PAYROLL AND EMPLOYMENT: 1993**

| SIC code | Major group | Estab- lishments | Employment |
|----------|--|---------------------|------------|
| | Total | 4,035 | 40,358 |
| 60 | Depository institutions..... | 546 | 12,447 |
| 602 | Commercial banks..... | 253 | 8,625 |
| 603 | Savings institutions..... | 120 | 1,753 |
| 61 | Nondepository institutions..... | 227 | 1,648 |
| 62 | Security and commodity brokers..... | 81 | 715 |
| 63 | Insurance carriers..... | 245 | 5,039 |
| 64 | Insurance agents, brokers and service..... | 362 | 2,839 |
| 65 | Real estate..... | 2,388 | 16,453 |
| 67 | Holding and other investment offices..... | 177 | 1,082 |
| - | Administrative and auxiliary..... | 9 | 135 |

Source: U.S. Bureau of the Census, *County Business Patterns 1993, Hawaii*, CBP-93-13 (August 1995), p. 10.

**Table 15.03-- CHARACTERISTICS OF FINANCIAL, INSURANCE, AND REAL
ESTATE INDUSTRIES: 1992**

| SIC code | Kind of business | Establish- ments | Revenue (mil. dol.) | Annual payroll (mil. dol.) | Paid em- ployees <u>1/</u> |
|----------|--|---------------------|------------------------|----------------------------------|-------------------------------|
| 60 | Depository institutions..... | 575 | 2,503 | 349 | 12,512 |
| 61 | Nondepository credit institutions..... | 219 | 292 | 65 | 1,573 |
| 62 | Security and commodity brokers, dealers, exchanges, and services..... | 82 | 92 | 38 | 611 |
| 63 | Insurance carriers..... | 138 | 2,363 | 135 | 4,477 |
| 64 | Insurance agents, brokers, and services... | 375 | 216 | 80 | 2,663 |
| 65 | Real estate..... | 2,452 | 1,842 | 352 | 14,911 |
| 67 | Holding and other investment offices <u>2/</u> | 114 | 774 | 24 | 453 |

1/ Pay period including March 12.

2/ Data exclude SIC 673, trusts.

Source: U.S. Bureau of the Census, *1992 Census of Financial, Insurance, and Real Estate Industries, Summary*, FC92-A-1 (March 1995), table 1.

**Table 15.04-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS:
1983 TO 1993**

[In millions of dollars. As of December 31]

| Year | Deposits | | | Debits to bank demand deposits <u>1/</u> | Loans | |
|------------|----------------------------|--------------------------------|----------|--|----------------------------|-----------------|
| | All financial institutions | Bank demand deposits <u>1/</u> | | | All financial institutions | Banks <u>1/</u> |
| | | Private | Other | | | |
| 1983 | 11,615.8 | 1,155.0 | 5,429.4 | 89,147.3 | 9,601.8 | 4,143.1 |
| 1984 | 12,626.5 | 1,825.3 | 5,358.6 | 91,805.8 | 10,426.8 | 4,698.1 |
| 1985 | 12,911.7 | 1,469.3 | 6,763.3 | 95,870.4 | 9,953.5 | 5,098.0 |
| 1986 | 13,172.7 | 2,001.3 | 7,471.9 | 109,927.9 | 9,731.6 | 5,861.3 |
| 1987 | 14,795.6 | 1,981.7 | 8,414.7 | 121,926.3 | 10,859.2 | 6,330.4 |
| 1988 | 18,639.7 | 2,166.7 | 9,356.5 | 130,612.3 | 14,059.2 | 7,766.6 |
| 1989 | 21,358.5 | 2,026.5 | 11,649.1 | 172,698.3 | 16,655.7 | 9,704.2 |
| 1990 | 23,606.7 | 2,150.0 | 12,987.1 | 217,639.4 | 18,824.3 | 11,206.3 |
| 1991 | 23,815.2 | 2,050.0 | 12,795.4 | 239,886.5 | 21,052.7 | 11,620.0 |
| 1992 | 23,527.1 | 2,200.3 | 11,712.4 | (NA) | 21,920.6 | 12,729.3 |
| 1993 | 22,343.9 | 2,361.5 | 10,580.4 | (NA) | 22,604.4 | 12,095.8 |

NA Not available.

1/ Interbank and public demand deposits included in "other." Out-of-State branches of Hawaii banks are included.

Source: Bank of Hawaii, *Hawaii 1994, Annual Economic Report (1994)*, p. 39.

Table 15.05-- CHARACTERISTICS OF STATE-CHARTERED FINANCIAL INSTITUTIONS, BY TYPES: 1992 TO 1994

[As of December 31]

| Subject | 1992 | 1993 | 1994 |
|---|----------|----------|----------|
| BANKS | | | |
| Number of banks..... | 6 | 6 | 5 |
| Number of branches and facilities..... | 183 | 193 | 193 |
| Assets (million dollars)..... | 20,106.5 | 19,891.4 | 19,856.8 |
| Deposits (million dollars) | 13,911.2 | 12,940.4 | 12,600.3 |
| SAVINGS AND LOAN ASSOCIATIONS | | | |
| Number of associations | 2 | 2 | 2 |
| Number of branches and facilities..... | 23 | 21 | 23 |
| Assets (million dollars)..... | 778.8 | 764.1 | 961.2 |
| Withdrawable shares (million dollars) | 519.0 | 486.8 | 539.8 |
| TRUST COMPANIES | | | |
| Number of companies | 4 | 4 | 1 |
| Number of branches and facilities..... | 3 | 3 | 2 |
| Assets (million dollars)..... | 80.9 | 81.6 | 125.3 |
| FINANCIAL SERVICES LOAN COMPANIES | | | |
| Number of companies | 43 | 44 | 41 |
| Number of branches | 143 | 119 | 132 |
| Assets (million dollars)..... | 3,196.2 | 3,263.6 | 3,350.3 |

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, *Comparative Statements of Condition* (semi-annual).

Table 15.06-- CHARACTERISTICS OF BANKS: JUNE 30, 1995

[Preliminary data, covering 15 banks with 8,270 employees]

| Subject | Million dollars | Subject | Percent of loans |
|-------------------------------|-----------------|--|------------------|
| ASSETS AND LIABILITIES | | ASSET QUALITY OF LARGE COMMERCIAL BANKS | |
| Assets | 22,237 | Loan loss reserve | 1.74 |
| Loans | 14,511 | Net chargeoffs..... | 0.24 |
| Investment securities..... | 4,717 | Past due and non-accrual ... | 2.65 |
| Liabilities | 20,354 | Real estate | 2.62 |
| Deposits | 13,892 | Commercial | 3.19 |
| Other borrowings..... | 3,547 | Consumer..... | 2.74 |
| Equity capital..... | 1,883 | Agricultural | 22.48 |
| Loan loss reserve | 252 | | |
| Loan commitments..... | 8,093 | | |

Source: Federal Reserve Bank of San Francisco, *FRBSF Weekly Letter*, October 27, 1995.

Table 15.07-- CREDIT UNIONS: 1989 TO 1994

[As of December 31]

| Year | Number of credit unions | Assets (dollars) | Shares (dollars) | Number of credit union members |
|-----------|-------------------------|------------------|------------------|--------------------------------|
| 1989..... | 132 | 2,284,832,750 | 2,020,219,693 | 473,700 |
| 1990..... | 130 | 2,505,708,932 | 2,238,607,674 | 498,486 |
| 1991..... | 127 | 3,028,281,689 | 2,705,392,480 | 527,235 |
| 1992..... | 124 | 3,450,420,974 | 3,104,578,070 | 540,758 |
| 1993..... | 121 | 3,521,731,577 | 3,145,679,650 | 549,808 |
| 1994..... | 116 | 3,462,241,524 | 3,049,504,597 | 556,969 |

Source: Hawaii Credit Union League, records.

**Table 15.08-- INSURANCE BUSINESS TRANSACTED IN HAWAII:
1988 TO 1993**

[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) |
|-----------|---------------------------------------|-------------------------|--|--|
| 1988..... | 805 | 1,484,743 | 787,603 | 3,082,836 |
| 1989..... | 807 | 1,572,949 | 842,917 | 3,261,900 |
| 1990..... | 821 | 1,753,979 | 1,018,866 | 3,155,926 |
| 1991..... | 829 | 1,927,638 | 1,094,837 | 3,156,730 |
| 1992..... | 835 | 1,984,304 | 1,901,549 | 3,380,087 |
| 1993..... | 863 | 2,103,143 | 1,761,801 | 4,263,248 |

^{1/} Excluding 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:
1988 TO 1993**

[Including fraternal benefit societies]

| Year | Number of companies authorized in Hawaii, Dec. 31 | Face value of policies written ^{1/} (\$1,000) | Insurance in force, Dec. 31 ^{2/} (\$1,000) | Premiums (\$1,000) | Losses, claims, and benefits paid (\$1,000) |
|-----------|---|--|---|--------------------|---|
| 1988..... | 465 | 7,856,086 | 41,060,540 | 348,614 | 207,391 |
| 1989..... | 465 | 5,890,849 | 35,461,017 | 325,467 | 221,071 |
| 1990..... | 470 | 7,465,820 | 37,060,249 | 355,515 | 309,405 |
| 1991..... | 468 | 3,982,037 | 39,067,088 | 371,188 | 307,872 |
| 1992..... | 468 | 5,181,487 | 48,994,610 | 382,367 | 285,158 |
| 1993..... | 468 | (NA) | (NA) | 401,726 | 330,975 |

NA Not available.

^{1/} Includes insurance revived, increased, or transferred.

^{2/} Excludes annuities.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii* (annual), and records.

Table 15.10-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1993

[Dollars]

| Class of insurance | Premiums | Losses, claims, and benefits paid |
|--|---------------|-----------------------------------|
| All classes | 2,103,143,297 | 1,761,801,195 |
| Life <u>1/</u> | 397,370,451 | 328,601,189 |
| Fraternal..... | 4,355,632 | 2,374,292 |
| Fire, marine, casualty, and miscellaneous: | | |
| Accident and health..... | 153,221,887 | 82,359,936 |
| Fire | 26,144,355 | 58,547,935 |
| Allied lines <u>2/</u> | 15,475,582 | 76,898,256 |
| Homeowners multiple peril | 79,094,906 | 161,717,810 |
| Commercial multiple peril..... | 42,842,644 | 294,732,833 |
| Private passenger auto no-fault..... | 136,878,537 | 93,413,725 |
| Other private passenger auto liability | 291,647,470 | 163,906,343 |
| Commercial auto no-fault | 8,992,532 | 7,856,566 |
| Other commercial auto liability | 75,583,767 | 41,540,202 |
| Private passenger auto physical damage ... | 123,441,052 | 58,253,613 |
| Commercial auto physical damage..... | 19,441,731 | 7,959,308 |
| Workers' compensation | 339,635,405 | 223,487,715 |
| Other liability..... | 105,782,754 | 29,243,640 |
| Medical malpractice | 18,203,304 | 7,579,741 |
| Financial Guaranty | 3,487,719 | 4,917 |
| Glass..... | 88,380 | 12,685 |
| Burglary and theft..... | 414,817 | 42,089 |
| Boiler and machinery | 2,229,668 | 576,367 |
| Fidelity | 4,853,989 | 1,782,770 |
| Surety | 15,349,887 | 1,559,500 |
| Ocean marine | 4,780,110 | 3,480,968 |
| Inland marine | 26,584,275 | 66,778,562 |
| Earthquake..... | 393,862 | - |
| All other <u>3/</u> | 10,915,930 | 17,882,747 |
| Surplus lines..... | 81,275,179 | 3,123,721 |

1/ Excludes annuities and premiums for insurance on nonresidents.

2/ Includes extended coverage; tornado, windstorm and hail; sprinkler and water damage; explosion, riot and civil commotion; growing crops; flood; rain; and damage from aircraft and vehicle.

3/ Aircraft (all risks); title, credit, mortgage guaranty; livestock; farmowners multiple peril; contact lens; and miscellaneous casualty.

Source: Hawaii State Department of Commerce and Consumer Affairs, *Report of the Insurance Commissioner of Hawaii, 1994*, p. 6.

**Table 15.11-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY
LOCATION OF HOME OFFICE: 1993**

[Money amounts in millions of dollars. For all insurance companies licensed to do business
in Hawaii]

| Subject | All companies | Domestic com- panies <u>1/</u> | Foreign com- panies <u>2/</u> | Alien com- panies <u>3/</u> (U.S. business only) |
|--|------------------|--------------------------------------|-------------------------------------|--|
| Number of companies, Dec. 31 | 863 | 18 | 827 | 18 |
| Life | 468 | 6 | 453 | 9 |
| Other than life..... | 395 | 12 | 374 | 9 |
| Financial condition, Dec. 31: | | | | |
| Assets..... | 2,198,874.6 | 1,900.2 | 2,160,409.5 | 36,564.9 |
| Liabilities exc. capital and surplus..... | 1,955,070.5 | 1,337.9 | 1,920,341.9 | 33,390.6 |
| Policyholders' surplus including..... | 243,579.1 | 562.3 | 239,842.6 | 3,174.3 |
| Capital..... | 4,687.5 | 43.6 | 4,594.1 | 49.8 |
| Net gain or loss | 794.3 | -18.9 | 982.6 | -169.4 |
| Hawaii business: | | | | |
| Direct premiums written | 2,307.1 | 594.1 | 1,641.1 | 71.9 |
| Claims and benefits paid..... | 1,943.5 | 510.3 | 1,309.0 | 124.2 |
| Investments in Hawaii, Dec. 31 | 4,263.2 | 214.4 | 4,021.0 | 27.9 |
| Mortgage loans (principal indebtedness)..... | 753.8 | 116.9 | 626.7 | 10.2 |
| Collateral loans (amount loaned) | 16.9 | 7.7 | 9.2 | ... |
| State and county bonds <u>4/</u> | 1,082.1 | 13.8 | 1,065.1 | 3.2 |
| Utilities stocks and bonds <u>4/</u> | 340.8 | 0.4 | 333.6 | 6.9 |
| Industrial and misc. stocks and bonds <u>4/</u> | 2,028.2 | 69.6 | 1,951.0 | 7.6 |
| Real estate <u>5/</u> | 41.4 | 6.1 | 35.4 | ... |
| Balances in Hawaii banks..... | 36.8 | 31.7 | 5.0 | 0.1 |

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, 1994*, pp. 11-39.

Table 15.12-- HEALTH INSURANCE COVERAGE, BY AGE: 1992

[Detail adds to more than indicated totals and subtotals because of multiple coverage of some persons]

| Coverage | Number (thousands) | | | Percent | | |
|---------------------------------------|--------------------|----------|-------------|----------|----------|-------------|
| | All ages | Under 65 | 65 and over | All ages | Under 65 | 65 and over |
| Total persons | 1,169 | 1,028 | 140 | 100.00 | 100.0 | 100.0 |
| Covered by health insurance | 1,099 | 958 | 140 | 94.0 | 93.2 | 100.0 |
| Private health insurance | 878 | 790 | 88 | 75.1 | 76.8 | 62.6 |
| Group health | 732 | 682 | 49 | 62.6 | 66.4 | 35.1 |
| Government health insurance | 411 | 278 | 132 | 35.2 | 27.1 | 94.3 |
| Medicaid | 129 | 120 | 9 | 11.0 | 11.7 | 6.3 |
| Medicare | 146 | 15 | 132 | 12.5 | 1.4 | 93.6 |
| Champus | 163 | 153 | 10 | 13.9 | 14.9 | 7.0 |
| Not covered by health insurance | 70 | 70 | - | 6.0 | 6.8 | 0 |

Source: U.S. Bureau of the Census, March 1993 Current Population Survey, records.

Table 15.13-- PERCENT OF PERSONS NOT COVERED BY HEALTH INSURANCE: 1990 TO 1994

[This survey does not adequately reflect health insurance coverage through State-specific plans, such as Hawaii's, because the same questions are used for every State]

| Subject | 1990 | 1991 | 1992 | 1993 | 1994 |
|-------------------------------------|------|------|------|------|------|
| Percent not covered <u>1/</u> | 7.4 | 7.1 | 6.1 | 11.1 | 9.2 |
| Standard error | 1.0 | 1.0 | 0.9 | 1.2 | 1.1 |
| Rank <u>2/</u> | 4 | 1 | 1 | 7 | 4 |

1/ The 1993 U.S. percentage was 15.3.

2/ Among 50 States, with lowest percentage ranking 1.

Source: U.S. Bureau of the Census, "Money Income of Households, Families, and Persons in the United States: 1992," *Current Population Reports, Consumer Income*, Series P-60, No. 184, September 1993, table E; Release CB94-159 (October 6, 1994); and Release CB95-185 (October 5, 1995).

Table 15.14-- HEALTH PLANS: 1991 TO 1994

| Subject | 1991 | 1992 | 1993 | 1994 |
|---|---------|---------|---------|-----------|
| Hawaii Medical Service Association: <u>1/</u> | | | | |
| Persons covered, Dec. 31 <u>2/</u> | 620,285 | 623,074 | 623,726 | 754,264 |
| Membership dues <u>3/</u> (\$1,000)..... | 753,462 | 847,195 | 924,048 | 1,092,903 |
| Island Care: | | | | |
| Persons covered, Dec. 31 <u>2/</u> | 20,872 | 21,753 | 16,662 | 15,438 |
| Membership dues <u>3/</u> (\$1,000)..... | 26,092 | 27,719 | 24,976 | 20,281 |
| Kaiser Foundation Health Plan: | | | | |
| Persons covered: <u>2/</u> | | | | |
| Annual average | 183,393 | 188,141 | 190,225 | 189,070 |
| Dec. 31 | 186,289 | 189,414 | 190,680 | 186,996 |
| Membership dues <u>3/</u> (\$1,000)..... | 195,225 | 225,538 | 254,226 | 276,028 |
| Commercial carrier premiums for accident and health insurance (\$1,000) | 137,030 | 146,972 | 153,222 | (NA) |

NA Not available.

1/ Includes both Straub Health Plan and Pacific Healthcare.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Includes both employers' and employees' contributions.

Source: Data provided by Hawaii Medical Service Association, Island Care, and Kaiser Foundation Health Plan, Inc.; *Report of the Insurance Commissioner* (annual).

Table 15.15-- AVERAGE EXPENDITURES AND PREMIUMS FOR PERSONAL AUTOMOBILE INSURANCE, FOR THE UNITED STATES AND HAWAII: 1989 TO 1993

| Year | Average expenditures <u>1/</u> | | | Combined average premiums <u>2/</u> | | |
|-----------|--------------------------------|-------------------|----------------|-------------------------------------|-------------------|----------------|
| | United States (dollars) | Hawaii | | United States (dollars) | Hawaii | |
| | | Average (dollars) | Rank <u>3/</u> | | Average (dollars) | Rank <u>3/</u> |
| 1989..... | 551.95 | 673.36 | 7 | 635.58 | 784.18 | 8 |
| 1990..... | 571.69 | 747.90 | 7 | 658.83 | 862.15 | 6 |
| 1991..... | 596.91 | 874.25 | 2 | 686.79 | 999.01 | 1 |
| 1992..... | 616.18 | 974.39 | 1 | 711.97 | 1,099.65 | 2 |
| 1993..... | 637.72 | 953.08 | 2 | 730.39 | 1,078.32 | 2 |

1/ Total written premiums for all coverages divided by the liability written car years. Assumes that all insured vehicles carry liability coverage but do not necessarily carry collision and/or comprehensive coverage.

2/ Average premiums for each of the major coverages (liability, comprehensive, and collision) added together to estimate the representative average premium for an insured vehicle carrying all coverages.

3/ Among 50 States and D.C.

Source: National Association of Insurance Commissioners, *State Average Expenditures and Premiums for Personal Automobile Insurance in 1993* (January 1995), tables 2 and 3.

**Table 15.16-- FIRES, FIRE DEATHS, AND FIRE LOSSES, BY COUNTIES:
1992 TO 1995**

[Years ended June 30]

| Subject and year | State total | Honolulu | Hawaii | Kauai | Maui |
|-------------------------------|--------------------|-----------------|---------------|--------------|-------------|
| Number of fires: | | | | | |
| 1992..... | 4,919 | 2,948 | 1,111 | 361 | 499 |
| 1993..... | 6,379 | 4,939 | 710 | 302 | 428 |
| 1994..... | 5,823 | 4,478 | 555 | 318 | 472 |
| 1995..... | 4,919 | 3,409 | 597 | 316 | 597 |
| Fire deaths: | | | | | |
| 1992..... | 8 | 6 | 2 | - | - |
| 1993..... | 4 | 2 | 2 | - | - |
| 1994..... | - | - | - | - | - |
| 1995..... | 4 | - | 4 | - | - |
| Fire losses (\$1,000): | | | | | |
| 1992..... | 21,158 | 10,078 | 3,892 | 1,454 | 5,734 |
| 1993..... | 19,320 | 12,992 | 3,203 | 865 | 2,260 |
| 1994..... | 17,279 | 10,488 | 2,527 | 1,210 | 3,054 |
| 1995..... | 29,552 | 18,665 | 6,424 | 1,315 | 3,098 |

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 15.17-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS:
1983 TO 1993**

[Data refer to establishments with taxable payrolls. Coverage excludes government and self-employed workers]

| Year | Number of employees <u>1/</u> | Payroll (\$1,000) | | Number of establishments by employment-size class <u>2/</u> | | |
|------------|-------------------------------|-------------------|------------|---|--------|--------|
| | | First quarter | Annual | Total | 1 to 4 | 5 to 9 |
| 1983 | 308,627 | 1,094,458 | 4,505,090 | 24,519 | 13,320 | 5,039 |
| 1984 | 318,635 | 1,192,429 | 4,824,535 | 25,093 | 13,588 | 5,225 |
| 1985 | 331,196 | 1,268,106 | 5,271,750 | 25,742 | 14,058 | 5,261 |
| 1986 | 345,167 | 1,382,381 | 5,790,531 | 26,212 | 14,070 | 5,474 |
| 1987 | 363,491 | 1,506,971 | 6,304,798 | 27,281 | 14,508 | 5,705 |
| 1988 | 382,943 | 1,710,738 | 7,242,782 | 27,938 | 14,570 | 5,971 |
| 1989 | 410,745 | 1,924,365 | 8,253,134 | 28,443 | 14,736 | 6,006 |
| 1990 | 432,663 | 2,157,724 | 9,296,865 | 29,313 | 15,243 | 6,064 |
| 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 |

| Number of establishments by employment-size class <u>2/</u> --Con. | | | | | | | |
|--|----------|----------|----------|------------|------------|------------|---------------|
| Year | 10 to 19 | 20 to 49 | 50 to 99 | 100 to 249 | 250 to 499 | 500 to 999 | 1,000 or more |
| 1983 | 3,093 | 2,001 | 667 | 305 | 51 | 26 | 17 |
| 1984 | 3,167 | 1,990 | 709 | 313 | 52 | 34 | 15 |
| 1985 | 3,181 | 2,084 | 734 | 314 | 58 | 37 | 15 |
| 1986 | 3,306 | 2,128 | 784 | 331 | 68 | 33 | 18 |
| 1987 | 3,515 | 2,246 | 804 | 388 | 62 | 34 | 19 |
| 1988 | 3,684 | 2,379 | 814 | 386 | 77 | 36 | 21 |
| 1989 | 3,805 | 2,443 | 874 | 427 | 86 | 40 | 26 |
| 1990 | 3,881 | 2,619 | 878 | 467 | 93 | 41 | 27 |
| 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 |

1/ For week including March 12.

2/ Data refer to establishments active anytime during the year.

Source: U.S. Bureau of the Census, *County Business Patterns* (annual).

Table 15.18-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1992 AND 1993

[Excludes government employees and self-employed persons]

| Year and county | Number of establishments <u>1/</u> | Number of employees <u>2/</u> | Payroll (\$1,000) | |
|-------------------|------------------------------------|-------------------------------|-------------------|------------|
| | | | First quarter | Annual |
| 1992 | | | | |
| State total | 30,467 | 449,173 | 2,490,029 | 10,470,074 |
| Hawaii | 3,712 | 41,620 | 197,348 | 810,957 |
| Honolulu | 21,553 | 338,508 | 1,959,833 | 8,277,312 |
| Kauai | 1,716 | 21,854 | 99,195 | 410,314 |
| Maui | 3,482 | 47,141 | 233,186 | 969,861 |
| Statewide | 4 | 50 | 467 | 1,630 |
| 1993 | | | | |
| State total | 30,157 | 435,907 | 2,480,288 | 10,552,017 |
| Hawaii | 3,672 | 40,134 | 194,532 | 813,542 |
| Honolulu | 21,255 | 329,567 | 1,958,732 | 8,340,854 |
| Kauai | 1,721 | 19,137 | 92,640 | 406,699 |
| Maui | 3,502 | 46,992 | 233,860 | 989,340 |
| Statewide | 7 | 77 | 524 | 1,582 |

1/ Data refer to establishments active anytime during the year.

2/ For week including March 12.

Source: U.S. Bureau of the Census, *County Business Patterns, 1993, Hawaii*, CBP-93-13 (August 1995), p. 19.

Table 15.19-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1993

[Excludes government and self-employed workers. Based on 1987 Standard Industrial Classification Manual and thus not comparable to 1987 and earlier data reported in previous editions, which were based on the 1972 SIC Manual]

| Major industry group | Number of establishments <u>1/</u> | Number of employees <u>2/</u> | Annual payroll (\$1,000) |
|--|------------------------------------|-------------------------------|--------------------------|
| Total..... | 30,157 | 435,907 | 10,552,017 |
| Agricultural services, forestry, fishing | 352 | 2,773 | 58,880 |
| Mining | 12 | 251 | 10,643 |
| Construction..... | 2,640 | 32,035 | 1,181,246 |
| Manufacturing <u>3/</u> | 1,013 | 19,728 | 531,714 |
| Food and kindred products..... | 226 | 8,495 | 189,501 |
| Apparel and other textile products..... | 145 | 1,849 | 30,422 |
| Printing and publishing..... | 196 | 3,351 | 106,337 |
| Transportation and public utilities | 1,541 | 41,386 | 1,272,090 |
| Wholesale trade | 2,230 | 23,345 | 664,699 |
| Retail trade <u>3/</u> | 7,921 | 111,379 | 1,706,866 |
| Food stores..... | 874 | 14,926 | 234,108 |
| Eating and drinking places..... | 2,567 | 46,665 | 542,441 |
| Finance, insurance, real estate..... | 4,035 | 40,358 | 1,202,279 |
| Services <u>3/</u> | 10,181 | 164,436 | 3,918,697 |
| Hotels and other lodging places..... | 279 | 37,558 | 770,428 |
| Health services..... | 2,373 | 37,889 | 1,246,297 |
| Unclassified establishments..... | 232 | 216 | 4,903 |

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 1993, Hawaii*, CBP-93-13 (August 1995), pp. 1-2.

**Table 15.20-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY
EMPLOYMENT-SIZE CLASS: 1992 AND 1993**

[Excludes government employees and self-employed persons]

| Employment-size class | Number of establishments | | Number of employees | | Annual payroll (\$1,000) | |
|-----------------------|--------------------------|---------------|---------------------|---------|--------------------------|------------|
| | 1992 | 1993 | 1992 | 1993 | 1992 | 1993 |
| Total..... | 30,467 | 30,157 | 449,173 | 435,907 | 10,470,074 | 10,552,017 |
| 1 to 4..... | 15,567 | 15,456 | 28,347 | 28,342 | 821,241 | 785,664 |
| 5 to 9..... | 6,479 | 6,383 | 42,613 | 42,127 | 899,741 | 911,630 |
| 10 to 19..... | 4,135 | 4,113 | 55,766 | 55,307 | 1,195,301 | 1,237,834 |
| 20 to 49..... | 2,737 | 2,704 | 82,179 | 81,657 | 1,742,156 | 1,808,574 |
| 50 to 99..... | 932 | 907 | 63,812 | 61,175 | 1,390,470 | 1,402,980 |
| 100 to 249..... | 441 | 428 | 65,738 | 63,301 | 1,597,990 | 1,588,159 |
| 250 to 499..... | 99 | 99 | 34,198 | 35,260 | 839,102 | 872,455 |
| 500 to 999..... | 51 | 40 | 35,976 | 27,827 | 838,441 | 718,719 |
| 1,000 or more..... | <u>1</u> / 26 | <u>2</u> / 27 | 40,544 | 40,911 | 1,145,632 | 1,226,002 |

1/ 1,000-1,499 employees, 15 establishments; 1,500-2,499, 9 establishments; 2,500-4,999, 2 establishments.

2/ 1,000-1,499 employees, 17 establishments; 1,500-2,499, 9 establishments; 2,500-4,999, 1 establishment.

Source: U.S. Bureau of the Census, *County Business Patterns 1992, Hawaii*, CBP-92-13 (October 1994), pp. 3, 13, and 17, and *County Business Patterns 1993, Hawaii*, CBP-93-13 (August 1995), pp. 3, 14, and 18.

Table 15.21-- CHARACTERISTICS OF BUSINESS AND PROFESSIONAL FIRMS, BY COUNTIES: 1995

| Characteristic | State total | Honolulu | Maui | Kauai | Hawaii |
|---|-------------|----------|-------|-------|--------|
| All businesses | 35,449 | 25,353 | 3,859 | 2,271 | 3,966 |
| Business type, total <u>1/</u> | 22,740 | 16,104 | 2,525 | 1,419 | 2,698 |
| Corporation..... | 15,545 | 11,376 | 1,702 | 787 | 1,685 |
| Partnership | 1,050 | 709 | 118 | 91 | 132 |
| Proprietorship | 6,145 | 4,019 | 705 | 541 | 881 |
| Employees, total <u>1/</u> | 23,518 | 17,046 | 2,417 | 1,482 | 2,578 |
| 1 to 4 | 12,107 | 8,402 | 1,342 | 912 | 1,453 |
| 5 to 9 | 4,579 | 3,385 | 451 | 251 | 494 |
| 10 to 19 | 2,852 | 2,147 | 273 | 145 | 288 |
| 20 to 49 | 2,339 | 1,817 | 196 | 101 | 225 |
| 50 to 99 | 885 | 689 | 88 | 45 | 63 |
| 100 to 199 | 411 | 331 | 36 | 16 | 28 |
| 200 to 499 | 203 | 159 | 18 | 9 | 17 |
| 500 to 999 | 69 | 48 | 9 | 3 | 9 |
| 1,000 and over..... | 73 | 68 | 4 | - | 1 |
| Sales volume, total <u>1/</u> | 17,317 | 12,748 | 1,625 | 1,013 | 1,936 |
| Under \$500,000 | 11,262 | 8,150 | 987 | 698 | 1,431 |
| \$500,000 to \$999,999 | 2,428 | 1,807 | 244 | 139 | 239 |
| \$1.0 to \$4.9 million | 2,287 | 1,712 | 261 | 128 | 186 |
| \$5.0 to \$9.9 million | 504 | 396 | 58 | 17 | 33 |
| \$10.0 to \$24.9 million | 414 | 328 | 48 | 18 | 20 |
| \$25.0 million and over | 422 | 355 | 27 | 13 | 27 |
| Year established, total <u>1/</u> | 24,291 | 18,193 | 2,235 | 1,314 | 2,554 |
| 1820 to 1849..... | 25 | 13 | 4 | 2 | 6 |
| 1850 to 1899..... | 161 | 111 | 15 | 13 | 22 |
| 1900 to 1949..... | 1,571 | 1,126 | 134 | 90 | 221 |
| 1950 to 1959..... | 1,451 | 1,169 | 89 | 59 | 134 |
| 1960 to 1969..... | 2,949 | 2,346 | 220 | 113 | 270 |
| 1970 to 1979..... | 6,742 | 4,995 | 739 | 288 | 721 |
| 1980 to 1989..... | 8,850 | 6,520 | 768 | 600 | 965 |
| 1990 and later..... | 2,542 | 1,913 | 266 | 149 | 215 |

1/ Distributions exclude non-responding firms and those for which item (typically sales volume) was not applicable.

Source: CD Systems Corp., *Hawaii Business Directory 1995* (July 1995), pp. ix, xi, xxxiii.

**Table 15.22-- REGISTERED CORPORATIONS AND PARTNERSHIPS:
1992 TO 1995**

[Excludes eleemosynary corporations]

| Subject | 1992 | 1993 | 1994 | 1995 |
|---|--------|--------|--------|--------|
| Domestic (Hawaii) corporations: | | | | |
| Formed <u>1/</u> | 3,294 | 3,193 | 3,444 | 3,746 |
| Dissolved or merged <u>2/</u> | 2,365 | 2,606 | 2,553 | 2,665 |
| On record, June 30 <u>3/</u> | 33,804 | 34,430 | 35,240 | 36,384 |
| Foreign (non-Hawaii) corporations: | | | | |
| Qualified <u>1/</u> | 685 | 734 | 772 | 815 |
| Withdrawn, merged, or cancelled <u>2/</u> | 468 | 301 | 326 | 344 |
| On record, June 30 <u>3/</u> | 6,125 | 6,314 | 6,564 | 6,814 |
| Partnerships: | | | | |
| Registered <u>1/</u> | 1,358 | 1,297 | 1,208 | 1,402 |
| Dissolved or cancelled <u>2/</u> | 1,196 | 1,314 | 1,259 | 1,179 |
| On record, June 30 <u>3/</u> | 8,372 | 8,239 | 8,108 | 8,245 |

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

3/ Number on record may be inconsistent with data on components of changes, reflecting inaccuracy in manual tabulation.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, September 14, 1995.

Table 15.23-- BUSINESS CLIMATE INDEXES: 1990 TO 1995

| Index | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | |
|----------------------------|------|------|------|------|------|-------|------|
| | | | | | | Index | Rank |
| Economic performance | A | A | A | A | A | A | 3 |
| Business vitality..... | D | D | F | F | F | F | 50 |
| Development capacity..... | B | B | B | B | B | B | 15 |

Source: The Corporation for Enterprise Development, *The 1995 Development Report Card for the States* (9th ed., 1995), pp. 15, 17, 19.

**Table 15.24-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS,
AND PROPRIETORSHIPS: 1987, 1989, AND 1992**

[Money amounts in millions of dollars]

| Subject | 1987 | 1989 | 1992 ^{1/} |
|--|---------|---------|--------------------|
| CORPORATIONS ^{2/} | | | |
| Number of corporations | 19,493 | 20,776 | 23,777 |
| Taxable | 9,404 | 9,969 | 9,724 |
| Nontaxable | 10,089 | 10,807 | 13,322 |
| Business receipts | 26,583 | 33,383 | 40,540.6 |
| Taxable corporations | 17,753 | 20,435 | 21,963.1 |
| Nontaxable corporations | 8,830 | 12,948 | 18,577.5 |
| Taxable income, excluding net losses ^{3/} | 1,114.3 | 1,614.1 | 1,370.0 |
| PARTNERSHIPS | | | |
| Number of partnerships | 6,752 | 6,274 | 5,855 |
| With net profit | 3,697 | 3,853 | 3,279 |
| With net loss | 3,055 | 2,421 | 2,252 |
| Number of partners | 146,170 | 219,388 | 193,063 |
| Business receipts | 3,510.2 | 4,089.7 | 6,306.3 |
| Businesses with net profit | 2,800.5 | 3,272.9 | 4,656.4 |
| Businesses with net loss | 709.7 | 816.8 | 1,649.9 |
| Net profit reported | 906.0 | 1,425.9 | 1,133.8 |
| Net loss reported | 548.5 | 578.9 | 1,155.5 |
| PROPRIETORSHIPS | | | |
| Number of proprietorships | 61,733 | 65,561 | 75,054 |
| With net profit | 46,870 | 49,716 | 51,260 |
| With net loss | 14,863 | 15,845 | 20,127 |
| Business receipts | 1,767.7 | 2,078.2 | 2,396.8 |
| Businesses with net profit | 1,584.4 | 1,857.5 | 2,071.4 |
| Businesses with net loss | 183.3 | 220.7 | 531.5 |
| Net profit reported | 444.2 | 635.1 | 659.5 |
| Net loss reported | 66.4 | 60.2 | 96.3 |

^{1/} Data for items other than total numbers of corporations, partnerships, and proprietorships exclude Kauai County.

^{2/} Includes domestic, foreign, and small business corporations.

^{3/} Includes taxable income reported by small business corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns, Corporation, Proprietorship, Partnership* (biennial), and records.

Table 15.25-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: 1994

[Data may include sales and employment on the Mainland or abroad]

| Rank in sales | Company | Year founded ^{1/} | Sales (million dollars) | Employees |
|---------------|---|----------------------------|-------------------------|-----------|
| 1 | Dole Food Co. Inc. | 1851 | 3,842 | 46,000 |
| 2 | Alexander & Baldwin Inc. | 1870/1900 | 1,208 | 3,581 |
| 3 | Hawaiian Electric Industries Inc. | 1891/1983 | 1,188 | 3,400 |
| 4 | BHP Hawaii Inc. | 1904/1970/1993 | 1,114 | 1,128 |
| 5 | Hawaii Medical Service Assn. (HMSA) | 1938 | 1,093 | 1,700 |
| 6 | Bancorp Hawaii Inc. | 1897/1971 | 941 | 4,300 |
| 7 | DFS Hawaii | 1962 | 640 | 1,500 |
| 8 | GTE Hawaiian Tel. | 1883 | 599 | 3,400 |
| 9 | Chevron USA Products Co. (Hawaii Region) | 1904 | 597 | 262 |
| 10 | First Hawaiian Inc. | 1858/1974 | 562 | 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.

Source: "The Hawaii Business Top 250," *Hawaii Business*, August 1995, pp. 83-84.

Table 15.26-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1993 AND 1994

[Based on 1994 ranks for reporting companies]

| Company | Net income or loss (\$1,000) | | Sales (\$1,000,000) | |
|--------------------------------------|------------------------------|---------|---------------------|---------|
| | 1993 | 1994 | 1993 | 1994 |
| Largest net incomes: | | | | |
| Hawaiian Airlines, Inc. | (69,424) | 163,238 | 304.1 | 306.0 |
| Bancorp Hawaii | 132,570 | 117,740 | 938.1 | 941.4 |
| Alexander & Baldwin, Inc. | 66,989 | 74,608 | 979.5 | 1,208.2 |
| Largest net losses: | | | | |
| Maui Land & Pineapple Co., Inc. | (11,059) | (3,909) | 131.2 | 125.9 |
| Pacific International Services | (804) | (1,427) | 98.2 | 93.8 |

Source: "The Hawaii Business Top 250," *Hawaii Business*, August 1995, p. 72.

Table 15.27-- ULTIMATE PARENT COMPANIES HEADQUARTERED IN HAWAII: 1995

| Category and name <u>1/</u> | Ultimate parent companies <u>2/</u> | Subsidiaries <u>3/</u> | | | |
|---------------------------------------|-------------------------------------|------------------------|-----------|---------------|--------|
| | | Total | In Hawaii | U.S. Mainland | Abroad |
| Total..... | 64 | 307 | 270 | 25 | 12 |
| With subsidiaries outside Hawaii ... | 16 | 108 | 71 | 25 | 12 |
| Alexander & Baldwin | 1 | 27 | 14 | 7 | 6 |
| Bancorporation Hawaii..... | 1 | 18 | 15 | 1 | 2 |
| Cutter Management Co. Inc..... | 1 | 11 | 10 | 1 | - |
| With subsidiaries in Hawaii only | 48 | 199 | 199 | - | - |

1/ Shown separately for ultimate parent companies with 10 or more subsidiaries.

2/ An ultimate parent company is the topmost U.S. company within the hierarchal structure of an entire organization meeting all of the following criteria: (1) two or more business locations; (2) 250 or more employees at that location, or \$25,000,000 or more in sales volume, or a tangible net worth greater than \$500,000; (3) controlling interest in one or more subsidiary companies.

3/ All subsidiaries in the hierarchy of an ultimate parent.

Source: Dun & Bradstreet, Inc, *America's Corporate Families 1995*, Vol. I, II, III.

Table 15.28-- BUSINESS FAILURES, BY INDUSTRY SECTOR: 1991 TO 1994

| Industry sector | 1991 | 1992 | 1993 | 1994 <u>1/</u> |
|--|------|------|------|----------------|
| Firms, all sectors | 74 | 290 | 306 | 258 |
| Agriculture, forestry, fishing | 1 | 2 | 3 | 6 |
| Mining | - | - | - | - |
| Construction | 4 | 15 | 26 | 25 |
| Manufacturing | 5 | 17 | 12 | 8 |
| Transportation, public utilities | 4 | 20 | 18 | 19 |
| Wholesale trade | 7 | 15 | 20 | 14 |
| Retail trade..... | 16 | 58 | 59 | 44 |
| Finance, insurance, real estate | 4 | 17 | 11 | 13 |
| Services..... | 13 | 37 | 59 | 53 |
| Unclassifiable..... | 20 | 109 | 98 | 76 |

1/ Preliminary.

Source: The Dun & Bradstreet Corporation, *Business Failure Record* (annual).

Section 16

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the Postal Service and of various communications media: telephone, radio, television, newspapers, periodicals, and books. Sections 12 and 15 contain employment and payroll data for communications establishments.

Hawaii is served by all major communications media. In 1995 it had 146 post offices and stations handling 539 million pieces of mail and accounting for postal receipts of \$172 million. There were 666,000 telephone access lines in service, 439,000 telephone homes, and uncounted millions of local, interisland, and transpacific calls in 1994. The 62 commercial, public and educational radio stations in the Islands in 1995 included 29 on the regular broadcast band and 33 FM stations. The State also had 22 television stations (20 commercial and 2 public), including satellites but excluding translators. In 1994, seven cable TV companies served 330,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in February 1995 numbered 107,000 households. Island publishers printed 6 daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 186,000 in 1994-1995. Statistics on fax machines are unavailable.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, the CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, and A. C. Nielsen Co. Earlier figures appear in *Historical Statistics of Hawaii*, Section 18. Data on communications for other states and for the nation as a whole are carried in *Statistical Abstract of the United States: 1995*, Section 18.

Table 16.01-- COMMUNICATION AND RELATED ESTABLISHMENTS: 1993

| SIC code | Industry | No. of establishments | SIC code | Industry | No. of establishments |
|----------|-------------------------|-----------------------|----------|---------------------------|-----------------------|
| 27 | Printing and publishing | 196 | 482 | Telegraph & other..... | 3 |
| 271 | Newspapers..... | 25 | 483 | Radio, TV broadcast..... | 51 |
| 272 | Periodicals..... | 27 | 484 | Cable, other pay TV..... | 13 |
| 273 | Books | 15 | 489 | Commun. services, n.e.c. | 8 |
| 274 | Miscell. publishing.... | 11 | 5942 | Book stores | 64 |
| 48 | Communication..... | 204 | 731 | Advertising | 78 |
| 481 | Telephone..... | 129 | 7311 | Advertising agencies | 64 |

Source: U.S. Bureau of the Census, *County Business Patterns 1993, Hawaii*, CBP-93-13 (August 1995), table 1b.

Table 16.02-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS: SEPTEMBER 15, 1995

| Island | Total | Post offices | | | Stations | |
|------------------------|-------|--------------|-----------|-----------|----------------------|--------------------|
| | | 1st class | 2nd class | 3rd class | Classified <u>1/</u> | Contract <u>2/</u> |
| State total..... | 146 | 34 | 27 | 11 | 36 | 38 |
| Hawaii | 36 | 8 | 13 | 4 | 2 | 9 |
| Maui | 18 | 8 | 2 | - | 2 | 6 |
| Lanai | 1 | - | 1 | - | - | - |
| Molokai | 5 | 1 | - | 4 | - | - |
| Oahu | 66 | 13 | 3 | 1 | 29 | 20 |
| Kauai..... | 20 | 4 | 8 | 2 | 3 | 3 |
| Niihau <u>3/</u> | - | - | - | - | - | - |

1/ Staffed by career postal employees.

2/ Operated under a contractual agreement between the Postal Service and an individual contractor.

3/ Niihau is served by the Makaweli Post Office on Kauai.

Source: U.S. Postal Service, Honolulu District, records.

Table 16.03-- POSTAL SERVICE: 1990 TO 1995

[Years ended September 30]

| Subject | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|---------|---------|---------|---------|---------|---------|
| Post offices, September 30 | 74 | 74 | 73 | 72 | 72 | 72 |
| Stations, September 30 <u>1/</u> | 70 | 70 | 70 | 73 | 73 | 73 |
| Gross postal receipts (\$1,000) | 136,087 | 151,429 | 158,134 | 161,493 | 163,984 | 171,867 |
| Pieces of mail <u>2/</u> (millions) | 463 | 473 | 478 | 504 | 518 | 539 |

1/ Includes both classified and contract stations (see preceding table).

2/ Originating in Hawaii. Excludes mail originating elsewhere.

Source: U.S. Postal Service, Honolulu District, records.

**Table 16.04-- TELEPHONE ACCESS LINES, BY ISLANDS AND TYPE:
1984 TO 1994**

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

| Definition <u>1/</u> and year | All access lines | By island | | By type | | |
|----------------------------------|---------------------|-----------|------------------|-----------|----------|----------------|
| | | Oahu | Other islands | Residence | Business | Other types |
| Old definition: | | | | | | |
| 1984..... | 472,229 | 348,936 | 123,293 | 339,296 | 107,830 | 25,103 |
| 1985..... | 479,253 | 352,674 | 126,579 | 342,296 | 111,792 | 25,165 |
| 1986..... | 493,079 | 362,083 | 130,996 | 350,790 | 118,002 | 24,287 |
| 1987..... | 520,057 | 380,227 | 139,830 | 363,951 | 128,197 | 27,909 |
| 1988..... | 530,022 | 395,685 | 134,337 | 375,238 | 123,409 | 31,375 |
| 1989..... | 555,966 | 409,904 | 146,062 | 385,247 | 133,620 | 37,099 |
| 1990..... | 586,065 | 427,017 | 159,048 | 397,762 | 143,631 | 44,672 |
| 1991..... | 606,899 | 440,216 | 166,683 | 408,603 | 149,209 | 49,087 |
| 1992..... | 624,093 | 451,512 | 172,581 | 417,595 | 152,848 | 53,650 |
| New definition: | | | | | | |
| 1992..... | 629,214 | 455,681 | 173,533 | 417,595 | 157,255 | 54,364 |
| 1993..... | 649,268 | 468,337 | 180,931 | 429,652 | 162,817 | 56,799 |
| 1994..... | 666,246 | 477,844 | 188,402 | 439,104 | 164,172 | 62,970 |

1/ In 1992, GTE Hawaiian Telephone Company changed its definition of total switched access lines.

Source: GTE Hawaiian Telephone Company, data provided April 5, 1995.

Table 16.05-- TELEPHONE ACCESS LINES AND NON-LIST AND NON-PUBLISHED NUMBERS IN SERVICE: 1989 TO 1994

[Data include both residence and business telephone numbers]

| Category | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|---------------------------------|---------|---------|---------|---------|---------|---------|
| Access lines..... | 555,966 | 586,065 | 606,899 | 629,214 | 649,268 | 666,246 |
| Non-list and non-published | 146,416 | 161,608 | 173,110 | 182,205 | 193,282 | 206,537 |
| Non-list <u>1/</u> | 2,511 | 2,572 | 2,189 | 2,215 | 2,195 | 2,498 |
| Non-published <u>2/</u> | 143,905 | 159,036 | 170,921 | 179,990 | 191,087 | 204,039 |

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, data provided April 5, 1995.

Table 16.06-- HAWAIIAN TELEPHONE COMPANY OPERATIONS: 1991 TO 1993

| Subject | 1991 | 1992 | 1993 |
|---|-----------|-----------|-----------|
| Operating revenues (\$1,000) | 545,910 | 559,022 | 564,889 |
| Operating expenses (\$1,000)..... | 449,700 | 461,640 | 548,891 |
| Net income (\$1,000) | 46,698 | 43,590 | -5,042 |
| Net investment in property, plant, and equipment (\$1,000) | 983,243 | 1,053,127 | 1,145,673 |
| Total assets (\$1,000) | 1,224,682 | 1,281,007 | 1,421,536 |
| Access lines <u>1/</u> | 659,844 | 681,171 | 725,029 |
| Number of employees <u>1/</u> | 4,099 | 3,887 | 3,320 |

1/ Includes Micronesia (198 employees and 13,618 access lines in 1993).

Source: *GTE Hawaiian Tel 1993 Annual Report*.

Table 16.07-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1990 TO 1995

[In dollars. As of July 1. Including state and federal excise taxes where applicable]

| Year | Local call, pay phone | Honolulu to Hilo | | Honolulu to California <u>3/</u> | | Monthly charge, indiv. resident line <u>4/</u> |
|-----------|-----------------------|--------------------------|----------------------------|----------------------------------|----------------------------|--|
| | | Direct dialing <u>1/</u> | Through operator <u>2/</u> | Direct dialing <u>1/</u> | Through operator <u>2/</u> | |
| 1990..... | 0.25 | 0.98 | 2.00 | 0.78 | 3.50 | 20.31 |
| 1991..... | 0.25 | 1.35 | 2.00 | 0.75 | 2.50 | 20.28 |
| 1992..... | 0.25 | 0.94 | 2.00 | 0.75 | 2.58 | 20.27 |
| 1993..... | 0.25 | 0.94 | 2.14 | 0.75 | 2.80 | 21.37 |
| 1994..... | 0.25 | 0.94 | 2.14 | (NA) | (NA) | 22.19 |
| 1995..... | 0.25 | 0.85 | 2.05 | 0.84 | 4.04 | 22.86 |

NA Not available.

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ AT&T Communications, Inc., rates quoted for Honolulu to California calls.

4/ Includes for 1995 basic phone rate (\$14.40), standard desk phone (\$3.95), interstate subscriber charge (\$3.50), TRS (Telephone Relay Service) charge (\$0.09), 911 surcharge (\$0.28), and federal, PUC, and state taxes \$0.64.

Source: Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

Table 16.08-- CELLULAR TELEPHONE COMPANY REVENUES, BY ISLANDS: 1986 TO 1994

| Calendar year | Number of companies | Revenues (\$1,000) | | | | |
|---------------|---------------------|--------------------|--------|-------|--------|-------|
| | | Total | Hawaii | Maui | Oahu | Kauai |
| 1986..... | 2 | 2,022 | - | - | 2,022 | - |
| 1987..... | 2 | 7,162 | - | - | 7,162 | - |
| 1988..... | 2 | 12,314 | - | - | 12,314 | - |
| 1989..... | 2 | 21,758 | - | - | 21,758 | - |
| 1990..... | 4 | 38,732 | 150 | - | 38,475 | 107 |
| 1991..... | 4 | 48,742 | 1,734 | 1,653 | 44,179 | 1,176 |
| 1992..... | 4 | 62,127 | 3,184 | 2,199 | 54,031 | 2,713 |
| 1993..... | 5 | 76,420 | 4,618 | 3,470 | 63,596 | 4,736 |
| 1994..... | 5 | 95,334 | 6,712 | 6,237 | 77,914 | 4,471 |

Source: Public Utilities Commission, records.

Table 16.09-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1993 AND 1994

| County | Number of companies Dec. 31 <u>1/</u> | | Subscribers, Dec. 31 <u>2/</u> | | Basic service revenue (\$1,000) | |
|-------------------|--|------|-----------------------------------|---------|------------------------------------|--------|
| | 1993 | 1994 | 1993 | 1994 | 1993 | 1994 |
| State total | 7 | 7 | 322,285 | 329,990 | 68,485 | 67,085 |
| Hawaii | 3 | 3 | 30,601 | 31,770 | 7,389 | 6,587 |
| Maui | 2 | 2 | 30,662 | 28,054 | 9,121 | 10,085 |
| Honolulu | 2 | 2 | 243,703 | 250,841 | 48,268 | 46,340 |
| Kauai | 2 | 2 | 17,319 | 19,325 | 3,707 | 4,073 |

1/ State totals are unduplicated figures; one company provided service to three counties.

2/ Hawaiian Cablevision has redefined multiunit as expressed by Federal rules.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 16.10-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION, 1930 TO 1995, AND BY COUNTIES, 1994 AND 1995

| Date and county | Commercial stations | | | Non-commercial stations | | |
|--------------------------|---------------------|----|--------------|-------------------------|----|--------------|
| | AM | FM | TV <u>1/</u> | AM | FM | TV <u>1/</u> |
| 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 |
| COUNTIES: 1994 | | | | | | |
| Hawaii..... | 5 | 9 | 6 | - | - | - |
| Maui..... | 4 | 6 | 5 | - | 1 | 1 |
| Honolulu <u>2/</u> | 18 | 12 | 9 | 1 | 2 | 1 |
| Kauai..... | 2 | 2 | - | - | - | - |
| COUNTIES: 1995 | | | | | | |
| Hawaii..... | 5 | 10 | 6 | - | - | - |
| Maui..... | 4 | 8 | 5 | - | 1 | 1 |
| Honolulu <u>2/</u> | 18 | 13 | 9 | 1 | 2 | 1 |
| Kauai..... | 2 | 2 | - | - | - | - |

1/ Includes satellites but excludes translators and cable television.

2/ Includes one commercial AM station with studio on Oahu but transmitter on Molokai.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), p. 482; Federal Communications Commission, Field Operations Bureau, Honolulu, records.

**Table 16.11-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA:
1993 AND 1994**

| Subject | January 1993 | | | January 1994 | | |
|----------------------|--------------|---------|---------------|--------------|---------|---------------|
| | State total | Oahu | Other islands | State total | Oahu | Other islands |
| All households..... | 373,800 | 275,000 | 98,800 | 391,300 | 285,400 | 105,900 |
| With television | 363,360 | 268,350 | 95,010 | 379,670 | 278,610 | 101,060 |
| Percent..... | 97.2 | 97.6 | 96.1 | 97.0 | 97.6 | 95.4 |

Source: *Nielsen Station Index, Honolulu, Hawaii*, February 1993 and February 1994, table 1.

**Table 16.12-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY
TIME OF DAY: 1991 TO 1995**

[In thousands. Mean number of viewers, Sunday through Saturday]

| Year and month | Sign-on to sign-off 7 A.M. to 1 A.M. | | Prime time 6:30 P.M. to 10 P.M. | |
|-----------------|---|-------------------|------------------------------------|-------------------|
| | Households <u>1/</u> | Persons <u>2/</u> | Households <u>1/</u> | Persons <u>2/</u> |
| 1991: Nov. | 151 | 211 | 100 | 140 |
| 1992: Feb. | 149 | 209 | 90 | 126 |
| May | 160 | 224 | 93 | 130 |
| Nov. | 150 | 286 | 92 | 164 |
| 1993: Feb. | 176 | 340 | 112 | 202 |
| May | 162 | 308 | 98 | 170 |
| Nov. | 167 | 328 | 97 | 175 |
| 1994: Feb. | 160 | 328 | 93 | 164 |
| May | 156 | 284 | 86 | 131 |
| Nov. | 168 | 309 | 102 | 165 |
| 1995: Feb. | 170 | 331 | 107 | 187 |

1/ Average number with a TV set turned on.

2/ Average number of persons, 2 years and older, in TV households that are viewing any station.

Source: *Nielsen Station Index, Honolulu, Hawaii*, Daypart Summary, issued three times annually.

**Table 16.13-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY
ENGLISH-LANGUAGE NEWSPAPERS: 1991-92 TO 1994-95**

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the *Hawaii Hochi*, Japanese and English; and *United Chinese Press*, Chinese]

| Newspaper | 1991-92 | 1992-93 | 1993-94 | 1994-95 |
|--|---------|---------|---------|---------|
| Daily: | | | | |
| Honolulu Advertiser <u>1</u> /..... | 100,804 | 104,665 | 104,461 | 105,793 |
| Honolulu Star-Bulletin <u>2</u> /..... | 87,809 | 87,052 | 82,489 | 79,796 |
| Hawaii Tribune-Herald (Hilo) <u>3</u> /..... | 20,193 | 20,058 | 19,688 | 19,773 |
| West Hawaii Today (Kailua-Kona) <u>3</u> / | 11,698 | 11,860 | 11,667 | 11,559 |
| Maui News (Wailuku) <u>4</u> /..... | 18,494 | 18,968 | 19,222 | 18,816 |
| Garden Island (Lihue) <u>4</u> /..... | 7,478 | 7,558 | 7,679 | (NA) |
| Sunday morning: | | | | |
| Honolulu Advertiser <u>5</u> /..... | 198,676 | 197,597 | 195,577 | 195,166 |
| Hawaii Tribune-Herald (Hilo) | 23,999 | 24,193 | 23,088 | 23,049 |
| West Hawaii Today (Kailua-Kona)... | 12,971 | 13,434 | 13,455 | 13,516 |
| Maui News (Wailuku) | 20,822 | 21,827 | 22,246 | 23,441 |
| Garden Island (Lihue)..... | 8,058 | 8,075 | 8,100 | (NA) |

NA Not available.

1/ Mornings, Monday through Saturday.

2/ Afternoons, Monday through Saturday.

3/ Mornings, Monday through Friday.

4/ Afternoons, Monday through Friday.

5/ Data through February 27, 1993 are for the *Sunday Star-Bulletin and Advertiser*; beginning March 7, 1993, for the Sunday *Honolulu Advertiser*.

Source: Audit Bureau of Circulations data provided to DBEDT by newspaper publishers.

Table 16.14-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1985 TO 1995

[In cents. As of July 1]

| Year | Domestic first-class postage rates | | | Newspaper price ^{1/} | |
|-----------|------------------------------------|------------------|-----------------------|-------------------------------|--------|
| | Letters | | Postal and post cards | Daily | Sunday |
| | First ounce | Each added ounce | | | |
| 1985..... | 22 | 17 | 14 | 35 | 100 |
| 1986..... | 22 | 17 | 14 | 35 | 100 |
| 1987..... | 22 | 17 | 14 | 35 | 100 |
| 1988..... | 25 | 20 | 15 | 35 | 125 |
| 1989..... | 25 | 20 | 15 | 35 | 125 |
| 1990..... | 25 | 20 | 15 | 35 | 125 |
| 1991..... | 29 | 23 | 19 | 35 | 125 |
| 1992..... | 29 | 23 | 19 | 35 | 150 |
| 1993..... | 29 | 23 | 19 | 50 | 150 |
| 1994..... | 29 | 23 | 19 | 50 | 150 |
| 1995..... | 32 | 23 | 20 | 50 | 150 |

^{1/} Street sales, for the daily *Honolulu Advertiser* (all years), daily *Honolulu Star-Bulletin* (all years), *Sunday Star-Bulletin and Advertiser* (through Feb. 27, 1993), and *Sunday Honolulu Advertiser* (beginning March 7, 1993).

Source: Postal rates from *Statistical Abstract of the United States, 1995*, p. 583, as updated by Postal Service Customer Information. Newspaper rates from Hawaii Newspaper Agency.

**Table 16.15-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE
UNIVERSITY OF HAWAII PRESS: 1989 TO 1994**

| Year | Published titles <u>1/</u> | | New books and journals published <u>3/</u> | | Volumes sold <u>3/</u> | Book sales revenues <u>3/</u> (dollars) |
|-----------|----------------------------|----------|--|--------------------|------------------------|--|
| | Cumulative total <u>2/</u> | In print | Books | Scholarly journals | | |
| 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 |

1/ As of June 30. Excludes journals.

2/ Includes books and other media, but not journals.

3/ Year ended June 30.

Source: The University of Hawaii Press, *Annual Report* (annual) and records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on fuel resources, energy production and consumption, the electric and gas utility industries, research and development, and scientific, engineering, and technological resources. Related series are cited in Sections 12, 14, and 18.

Total energy consumption in 1994 amounted to 310 trillion British thermal units, compared with 276 trillion Btu a decade earlier. Fully 87.3 percent in 1994 was provided by petroleum. Total expenditures for fuels and electricity in 1994 were \$2.3 billion.

Electricity sales amounted to 8.9 billion kilowatt-hours in 1994, a total that has increased 35 percent since 1984. Manufactured gas sales reached 34 million therms in 1994, ten percent above the figure ten years earlier. Residential rates in 1994 averaged 12.5 cents per kilowatt-hour and \$1.72 per therm. Average residential use (7,353 kWh and 179 therms in 1994) has declined since the early 1970s.

The liquid fuel tax base for 1995 was approximately 1.3 billion gallons, compared with 971 million in 1985. The 1995 total included 396 million gallons of gasoline, 685 million of aviation fuel, and 200 million of diesel oil.

The State is well served with scientific resources. Especially noteworthy is the cluster of large astronomical telescopes at the summits of Mauna Kea and Haleakala--twelve major facilities, including the world's most powerful. Federal research and development obligations in Hawaii totaled \$151 million in 1992. Some 116 patents were granted to Hawaii residents in 1994.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, U.S. Bureau of Labor Statistics, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Commerce and Consumer Affairs and its Division of Consumer Advocacy, the DBEDT Energy Division, UH Institute for Astronomy, and individual utility companies. *Historical Statistics of Hawaii*, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the *Statistical Abstract of the United States: 1995*, Sections 19 and 20.

**Table 17.01-- CONSUMPTION OF ENERGY, BY SOURCE
(PHYSICAL UNITS): 1970 TO 1993**

| Year | Petroleum <u>1/</u> (1,000 barrels) | Hydro- electric power <u>2/</u> (million kWh) | Geothermal energy (million kWh) | Coal (1,000 short tons) | Other <u>3/</u> (million kWh) |
|-----------|---|--|---------------------------------------|----------------------------------|----------------------------------|
| 1970..... | 34,129 | 108 | 0 | 0 | 24 |
| 1971..... | 36,754 | 89 | 0 | 0 | 15 |
| 1972..... | 37,755 | 91 | 0 | 0 | 18 |
| 1973..... | 38,785 | 95 | 0 | 0 | 22 |
| 1974..... | 36,698 | 92 | 0 | 0 | 30 |
| 1975..... | 37,056 | 89 | 0 | 0 | 25 |
| 1976..... | 37,990 | 93 | 0 | 0 | 29 |
| 1977..... | 40,249 | 86 | 0 | 0 | 26 |
| 1978..... | 40,851 | 84 | 0 | 0 | 0 |
| 1979..... | 44,486 | 90 | 0 | 0 | 0 |
| 1980..... | 43,505 | 86 | 0 | 0 | 0 |
| 1981..... | 38,721 | 80 | 0 | 0 | 15 |
| 1982..... | 35,637 | 90 | 0 | 47 | 26 |
| 1983..... | 36,297 | 84 | 0 | 42 | 28 |
| 1984..... | 37,252 | 82 | 21 | 38 | 28 |
| 1985..... | 40,004 | 86 | 19 | 46 | 25 |
| 1986..... | 38,931 | 78 | 18 | 16 | 0 |
| 1987..... | 39,669 | 82 | 13 | 63 | 0 |
| 1988..... | 46,133 | 81 | 16 | 50 | 0 |
| 1989..... | 47,940 | 89 | 14 | 32 | 11 |
| 1990..... | 48,606 | 89 | 0 | 28 | 6 |
| 1991..... | 45,487 | 87 | 0 | 37 | 0 |
| 1992..... | 44,357 | 76 | 0 | 47 | 0 |
| 1993..... | 38,778 | 80 | 0 | 73 | 0 |

1/ For data by type of petroleum, see source.

2/ Includes industrial and electric utility production.

3/ Electricity generated for distribution from biomass fuels and wind, photovoltaic, and solar thermal energy sources. Excludes natural gas and nuclear electric power.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), p. 95.

**Table 17.02-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU):
1970 TO 1993**

[Revised data, 1984-1990]

| Year | Total energy consumed | Petroleum <u>1/</u> | Hydro-electric power <u>2/</u> | Geo-thermal energy | Coal | Natural gas | Other types <u>3/</u> |
|-----------|-----------------------|---------------------|--------------------------------|--------------------|------|-------------|-----------------------|
| 1970..... | 196.9 | 195.5 | 1.1 | 0.0 | 0.0 | 0.0 | 0.3 |
| 1971..... | 211.6 | 210.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.2 |
| 1972..... | 217.7 | 216.6 | 0.9 | 0.0 | 0.0 | 0.0 | 0.2 |
| 1973..... | 223.7 | 222.5 | 1.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| 1974..... | 211.6 | 210.3 | 1.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| 1975..... | 213.9 | 212.7 | 0.9 | 0.0 | 0.0 | 0.0 | 0.3 |
| 1976..... | 219.3 | 218.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| 1977..... | 232.6 | 231.5 | 0.9 | 0.0 | 0.0 | 0.0 | 0.3 |
| 1978..... | 236.0 | 235.2 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1979..... | 255.2 | 254.3 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1980..... | 253.2 | 249.3 | 0.9 | 0.0 | 0.0 | 3.0 | 0.0 |
| 1981..... | 226.4 | 222.6 | 0.8 | 0.0 | 0.0 | 2.8 | 0.2 |
| 1982..... | 208.5 | 203.3 | 0.9 | 0.0 | 1.1 | 2.8 | 0.3 |
| 1983..... | 210.3 | 205.4 | 0.9 | 0.0 | 1.0 | 2.7 | 0.3 |
| 1984..... | 220.8 | 215.8 | 0.9 | 0.4 | 0.9 | 2.4 | 0.3 |
| 1985..... | 237.4 | 232.1 | 0.9 | 0.4 | 1.1 | 2.7 | 0.3 |
| 1986..... | 231.2 | 226.9 | 0.8 | 0.4 | 0.4 | 2.7 | 0.0 |
| 1987..... | 236.0 | 230.5 | 0.9 | 0.3 | 1.6 | 2.8 | 0.0 |
| 1988..... | 274.6 | 269.3 | 0.8 | 0.3 | 1.2 | 2.8 | 0.0 |
| 1989..... | 284.6 | 279.6 | 0.9 | 0.3 | 0.8 | 2.9 | 0.1 |
| 1990..... | 288.4 | 283.8 | 0.9 | 0.0 | 0.7 | 3.0 | 0.1 |
| 1991..... | 269.6 | 264.9 | 0.9 | 0.0 | 0.9 | 2.9 | 0.0 |
| 1992..... | 263.1 | 258.3 | 0.8 | 0.0 | 1.2 | 2.9 | 0.0 |
| 1993..... | 229.3 | 223.8 | 0.8 | 0.0 | 1.8 | 2.8 | 0.0 |

1/ For data by type of petroleum, see source.

2/ Includes industrial and electric utility production.

3/ Electricity generated for distribution from biomass fuels and wind, photovoltaic, and solar thermal energy sources.

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), p. 95.

**Table 17.03-- CONSUMPTION OF ENERGY BY END-USE SECTOR:
1970 TO 1993**

[Trillion Btu]

| Year | Consumption | | | | Input at electric utilities |
|-----------|-------------|------------|------------|----------------|-----------------------------|
| | Residential | Commercial | Industrial | Transportation | |
| 1970..... | 16.4 | 11.6 | 43.6 | 125.3 | 43.2 |
| 1971..... | 17.8 | 11.4 | 43.5 | 138.8 | 47.7 |
| 1972..... | 19.6 | 12.7 | 48.9 | 136.5 | 54.1 |
| 1973..... | 20.0 | 13.5 | 49.4 | 140.9 | 55.6 |
| 1974..... | 20.3 | 13.3 | 49.4 | 128.7 | 57.5 |
| 1975..... | 19.6 | 13.8 | 49.9 | 130.5 | 58.8 |
| 1976..... | 21.3 | 15.3 | 51.0 | 131.7 | 62.5 |
| 1977..... | 21.8 | 16.8 | 52.7 | 141.3 | 65.2 |
| 1978..... | 21.8 | 17.4 | 52.2 | 144.6 | 66.8 |
| 1979..... | 22.9 | 18.1 | 57.8 | 156.4 | 67.7 |
| 1980..... | 23.2 | 20.8 | 62.4 | 146.7 | 69.7 |
| 1981..... | 23.0 | 18.8 | 60.6 | 124.1 | 69.9 |
| 1982..... | 21.5 | 17.6 | 67.1 | 102.2 | 66.9 |
| 1983..... | 22.1 | 17.8 | 52.6 | 117.9 | 68.6 |
| 1984..... | 21.0 | 19.5 | 50.9 | 129.3 | 70.6 |
| 1985..... | 20.9 | 20.3 | 53.0 | 143.3 | 70.0 |
| 1986..... | 21.3 | 22.8 | 60.2 | 126.9 | 72.9 |
| 1987..... | 22.8 | 26.0 | 62.0 | 125.1 | 76.6 |
| 1988..... | 23.9 | 39.2 | 69.4 | 142.1 | 81.9 |
| 1989..... | 25.3 | 38.0 | 66.9 | 154.5 | 85.8 |
| 1990..... | 25.1 | 34.3 | 72.3 | 156.7 | 86.1 |
| 1991..... | 23.3 | 28.2 | 66.6 | 151.4 | 79.2 |
| 1992..... | 23.1 | 32.8 | 64.3 | 142.9 | 74.6 |
| 1993..... | 19.8 | 22.7 | 60.0 | 126.8 | 66.2 |

Source: U.S. Department of Energy, Energy Information Administration, *State Energy Data Report 1993, Consumption Estimates* (July 1995), pp. 96-100.

Table 17.04-- PRIMARY ENERGY CONSUMPTION AND ELECTRICITY SALES, TOTAL AND PER CAPITA: 1984 TO 1994

| Year | Primary energy consumption | | Electricity sales by utilities | |
|----------------------|----------------------------|------------------------------------|--------------------------------|----------------------------|
| | Total (trillion Btu) | Per capita <u>1/</u> (million Btu) | Total (1,000 kWh) | Per capita <u>1/</u> (kWh) |
| 1984..... | 276.36995 | 244.467 | 6,606,255 | 5,844 |
| 1985..... | 266.21778 | 233.976 | 6,635,158 | 5,832 |
| 1986..... | 271.05620 | 232.168 | 7,025,739 | 6,018 |
| 1987..... | 284.20420 | 239.532 | 7,298,178 | 6,151 |
| 1988..... | 306.92120 | 255.682 | 7,719,029 | 6,430 |
| 1989..... | 314.96310 | 252.861 | 7,970,360 | 6,399 |
| 1990..... | 306.70400 | 243.997 | 8,310,537 | 6,611 |
| 1991..... | 315.50600 | 247.281 | 8,564,032 | 6,712 |
| 1992..... | 321.72220 | 252.906 | 8,643,562 | 6,795 |
| 1993..... | 304.79578 | 239.770 | 8,657,905 | 6,811 |
| 1994 <u>2/</u> | 310.17460 | 241.062 | 8,948,458 | 6,955 |

1/ Based on estimated de facto population.

2/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

**Table 17.05-- PRIMARY ENERGY CONSUMPTION, BY SOURCE:
1984 TO 1994**

[Trillion Btu]

| Year | Total | Petroleum | Biomass | Solar hot water | Hydro-electric |
|----------------------|----------|-----------|---------|-----------------|----------------|
| 1984..... | 276.3700 | 248.4026 | 24.3650 | 1.7683 | 0.7796 |
| 1985..... | 266.2178 | 238.6470 | 23.1430 | 2.1327 | 0.9808 |
| 1986..... | 271.0562 | 242.5857 | 23.9670 | 2.1644 | 1.0562 |
| 1987..... | 284.2042 | 256.4061 | 22.1840 | 2.1914 | 0.9670 |
| 1988..... | 306.9212 | 279.1052 | 22.7080 | 2.1931 | 0.9826 |
| 1989..... | 314.9631 | 289.2301 | 20.8020 | 2.3310 | 1.0183 |
| 1990..... | 306.7040 | 280.8740 | 18.1200 | 2.3400 | 1.0700 |
| 1991..... | 315.5060 | 289.9000 | 17.9000 | 2.3000 | 1.0000 |
| 1992..... | 321.7222 | 290.8500 | 16.9840 | 2.3000 | 0.7226 |
| 1993..... | 304.7958 | 266.6563 | 16.8310 | 2.3000 | 0.8024 |
| 1994 <u>1</u> /..... | 310.1746 | 270.8428 | 16.1160 | 2.3000 | 1.5300 |

| Year | Coal | Wind | Geothermal | Solid waste |
|----------------------|---------|--------|------------|-------------|
| 1984..... | 0.8470 | - | 0.2075 | - |
| 1985..... | 0.9560 | 0.1697 | 0.1886 | - |
| 1986..... | 0.4970 | 0.6036 | 0.1823 | - |
| 1987..... | 1.4875 | 0.8236 | 0.1446 | - |
| 1988..... | 1.3509 | 0.4185 | 0.1629 | - |
| 1989..... | 0.8715 | 0.4189 | 0.1435 | 0.1478 |
| 1990..... | 0.8900 | 0.2900 | - | 3.1200 |
| 1991..... | 0.8000 | 0.3060 | - | 3.3000 |
| 1992..... | 6.9207 | 0.2573 | 0.0168 | 3.6708 |
| 1993..... | 13.2237 | 0.2352 | 1.5988 | 3.1484 |
| 1994 <u>1</u> /..... | 13.5599 | 0.2251 | 1.8060 | 3.7948 |

1/ Preliminary.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

Table 17.06-- ELECTRICITY GENERATION BY SOURCE: 1988 TO 1994

[Millions of kWh generated]

| Year | Total | Petroleum | Biomass | MSW <u>1/</u> | Hydro-electric |
|-----------|--------|-----------|---------|---------------|----------------|
| 1988..... | 8,952 | 8,115 | 681 | - | 98 |
| 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 |

| Year | Geo-thermal | Wind | Coal | PV <u>2/</u> | Other <u>3/</u> |
|-----------|-------------|------|-------|--------------|-----------------|
| 1988..... | 16 | 42 | - | - | - |
| 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 |

Z Less than 500,000 kWh.

1/ Electricity generated from Honolulu municipal solid waste plant.

2/ Electricity generated from photovoltaic.

3/ From 1987 to 1992, includes electricity production by coal, geothermal (ceased operation in 1989), and photovoltaic.

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Hawaiian Sugar Planters' Association, records.

**Table 17.07-- ELECTRICITY PRODUCTION, BY SOURCE, BY ISLANDS:
1994**

[Million kWh)

| Island | Total | Petroleum | Biomass | MSW <u>1/</u> | Hydro-electric |
|-----------------|--------|------------|---------|---------------|----------------|
| State total.... | 10,341 | 7,793 | 423 | 379 | 148 |
| Hawaii | 999 | 592 | 97 | - | 68 |
| Maui | 1,114 | 924 | 162 | - | 28 |
| Lanai | 27 | 27 | - | - | - |
| Molokai | 36 | 36 | - | - | - |
| Oahu | 7,707 | 5,884 | 88 | 379 | - |
| Kauai..... | 458 | 330 | 76 | - | 52 |
| Island | Wind | Geothermal | Coal | PV <u>2/</u> | Other |
| State total.... | 22 | 175 | 1,382 | (Z) | 19 |
| Hawaii | 19 | 175 | 48 | - | - |
| Maui | - | - | - | (Z) | - |
| Lanai | - | - | - | - | - |
| Molokai | - | - | - | - | - |
| Oahu | 3 | - | 1,334 | - | 19 |
| Kauai..... | - | - | - | - | - |

Z Less than 500,000 kWh.

1/ Electricity generated from Honolulu municipal solid waste plant.

2/ Electricity generated from photovoltaic.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records; Hawaii State Department of Commerce and Consumer Affairs, records.

**Table 17.08-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY
SOURCE: 1984 TO 1994**

[Millions of dollars]

| Year | Total energy expend. | Fuel expenditures | | | Less: electric utility fuel expend. | Plus: electric purch. by end-user |
|----------------------|----------------------|-------------------|------------------|---------|-------------------------------------|-----------------------------------|
| | | Total | Electric utility | Other | | |
| 1984..... | 2,048.4 | 1,724.8 | 379.3 | 1,345.5 | 379.3 | 702.9 |
| 1985..... | 1,921.6 | 1,586.6 | 337.6 | 1,249.0 | 337.6 | 672.6 |
| 1986..... | 1,564.0 | 1,147.3 | 224.6 | 922.7 | 224.6 | 641.3 |
| 1987..... | 1,575.1 | 1,176.2 | 203.7 | 972.5 | 203.7 | 602.6 |
| 1988..... | 1,664.1 | 1,314.6 | 238.0 | 1,076.6 | 238.0 | 587.5 |
| 1989..... | 1,895.2 | 1,530.6 | 277.5 | 1,253.1 | 277.5 | 642.1 |
| 1990..... | 2,204.4 | 1,807.0 | 352.5 | 1,454.5 | 352.5 | 749.9 |
| 1991..... | 2,217.5 | 1,736.4 | 304.8 | 1,431.6 | 304.8 | 785.9 |
| 1992..... | 2,261.5 | 1,681.2 | 238.2 | 1,443.0 | 238.2 | 818.5 |
| 1993..... | 2,353.2 | 1,643.7 | 213.3 | 1,430.4 | 213.3 | 922.8 |
| 1994 <u>1/</u> | 2,334.3 | 1,579.8 | 201.4 | 1,378.4 | 201.4 | 955.9 |

1/ Preliminary.

Source: Hawaii State Department of Business, Economic Development and Tourism, Division of Energy, records.

Table 17.09-- ELECTRIC UTILITIES: 1984 TO 1994

| Year | Customers, Dec. 31 <u>1/</u> | | | Installed capacity (nameplate), Dec. 31 (kW) | Power sold (1,000 kWh) | | |
|---------------------|-------------------------------------|-----------------------|--------------------------------|--|------------------------|-----------------------|-----------|
| | Total | Residential <u>2/</u> | Other | | Total | Residential <u>2/</u> | Other |
| 1984 | 324,384 | 280,518 | 43,866 | 1,578,780 | 6,606,255 | 1,837,954 | 4,768,301 |
| 1985 | 330,407 | 285,117 | 45,290 | 1,567,230 | 6,635,158 | 1,879,027 | 4,756,131 |
| 1986 | 337,563 | 291,222 | 46,341 | 1,553,580 | 7,025,739 | 1,959,447 | 5,066,292 |
| 1987 | 347,085 | 299,758 | 47,327 | 1,535,700 | 7,297,905 | 2,069,859 | 5,228,046 |
| 1988 | 354,887 | 306,375 | 48,512 | 1,570,410 | 7,719,029 | 2,148,275 | 5,570,754 |
| 1989 | 362,281 | 312,347 | 49,934 | 1,517,500 | 7,969,694 | 2,238,874 | 5,730,820 |
| 1990 | 370,952 | 320,215 | 50,737 | 1,655,690 | 8,310,537 | 2,320,550 | 5,989,987 |
| 1991 | 380,963 | 328,899 | 52,064 | 1,572,349 | 8,460,186 | 2,363,726 | 6,076,697 |
| 1991 <u>4/</u> | 380,963 | 328,899 | 52,064 | 1,572,349 | 8,524,088 | 2,385,276 | 6,178,756 |
| 1992 <u>4/</u> | 385,055 | 332,863 | 52,192 | 1,650,639 | 8,666,889 | 2,430,152 | 6,213,410 |
| 1993 <u>4/</u> | 395,402 | 341,471 | 53,931 | 1,717,914 | 8,657,903 | 2,453,830 | 6,204,075 |
| 1994 <u>4/</u> | 403,595 | 346,977 | 56,618 | 1,710,224 | 8,948,458 | 2,551,240 | 6,397,218 |
| Year | Average annual use (kWh <u>3/</u>) | | Average rate (dollars per kWh) | | Revenues (\$1,000) | | |
| | Residential <u>2/</u> | Other | Residential <u>2/</u> | Other | Total | Residential <u>2/</u> | Other |
| 1984 | 6,552 | 108,702 | 0.11831 | 0.10181 | 702,899 | 217,447 | 485,452 |
| 1985 | 6,590 | 105,015 | 0.11361 | 0.09653 | 672,600 | 213,478 | 459,122 |
| 1986 | 6,728 | 109,326 | 0.09294 | 0.07505 | 562,345 | 182,110 | 380,234 |
| 1987 | 6,905 | 110,466 | 0.09431 | 0.07792 | 602,553 | 195,198 | 407,355 |
| 1988 | 7,011 | 114,832 | 0.08829 | 0.07141 | 587,528 | 189,689 | 397,839 |
| 1989 | 7,168 | 114,772 | 0.09265 | 0.07585 | 642,101 | 207,436 | 434,665 |
| 1990 | 7,247 | 118,060 | 0.10261 | 0.08544 | 749,857 | 238,103 | 511,754 |
| 1991 | 7,187 | 116,716 | 0.10539 | 0.08726 | 779,382 | 249,104 | 530,278 |
| 1991 <u>4/</u> | 7,252 | 117,524 | 0.10546 | 0.08733 | 785,896 | 251,553 | 534,343 |
| 1992 <u>4/</u> | 7,301 | 119,049 | 0.10932 | 0.08898 | 818,525 | 265,667 | 552,858 |
| 1993 <u>4/</u> | 7,186 | 115,037 | 0.12309 | 0.10005 | 922,796 | 302,054 | 620,743 |
| 1994 <u>4/</u> | 7,353 | 112,989 | 0.12464 | 0.09972 | 955,907 | 317,984 | 637,923 |

1/ 1990 based on November data.

2/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

3/ Based on number of customers at end of year.

4/ Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records. Revised October 1995.

Table 17.10-- ELECTRIC UTILITIES, BY ISLANDS: 1993

[Revised. Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai]

| County or island | Customers, Dec. 31 | | | Installed capacity (nameplate) Dec. 31 (kW) | Power sold (1,000 kWh) | | |
|------------------|--------------------|---------------------------|--------|---|------------------------|---------------------------|-----------|
| | Total | Residential ^{1/} | Other | | Total | Residential ^{1/} | Other |
| State total..... | 395,402 | 341,471 | 53,931 | 1,717,914 | 8,657,903 | 2,453,830 | 6,204,075 |
| Oahu..... | 263,478 | 230,192 | 33,286 | 1,188,600 | 6,607,424 | 1,725,507 | 4,881,917 |
| Hawaii..... | 56,556 | 47,252 | 9,304 | 210,095 | 802,079 | 310,642 | 491,437 |
| Kauai..... | 24,304 | 20,484 | 3,820 | 110,550 | 332,677 | 113,553 | 219,125 |
| Maui County..... | 51,064 | 43,543 | 7,521 | 208,669 | 915,723 | 304,128 | 611,596 |
| Lanai..... | 1,263 | 1,110 | 153 | 10,760 | 23,879 | 5,916 | 17,963 |
| Maui..... | 47,035 | 40,163 | 6,872 | 189,029 | 861,002 | 286,013 | 574,990 |
| Molokai..... | 2,766 | 2,270 | 496 | 8,880 | 30,842 | 12,199 | 18,643 |

Continued on next page.

Table 17.10-- ELECTRIC UTILITIES, BY ISLANDS: 1993 - Con.

| County or island | Average annual use (kWh) <u>2/</u> | | Average rate (dollars per kWh) | | Revenues (\$1,000) | | |
|-------------------|------------------------------------|---------|--------------------------------|---------|--------------------|-----------------------|---------|
| | Residential <u>1/</u> | Other | Residential <u>1/</u> | Other | Total | Residential <u>1/</u> | Other |
| State total..... | 7,186 | 115,037 | 0.12309 | 0.10005 | 922,796 | 302,054 | 620,743 |
| Oahu..... | 7,496 | 146,666 | 0.11414 | 0.09158 | 644,029 | 196,952 | 447,077 |
| Hawaii..... | 6,574 | 52,820 | 0.15155 | 0.13407 | 112,967 | 47,078 | 65,889 |
| Kauai | 5,543 | 57,363 | 0.16197 | 0.15695 | 52,783 | 18,392 | 34,391 |
| Maui County | 6,985 | 81,318 | 0.13031 | 0.11999 | 113,017 | 39,632 | 73,385 |
| Lanai..... | 5,330 | 117,405 | 0.16802 | 0.15087 | 3,704 | 994 | 2,710 |
| Maui..... | 7,121 | 83,671 | 0.12752 | 0.11715 | 103,839 | 36,476 | 67,363 |
| Molokai | 5,374 | 37,587 | 0.17719 | 0.17768 | 5,474 | 2,162 | 3,312 |

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. Revised October 1995.

Table 17.11-- ELECTRIC UTILITIES, BY ISLANDS: 1994

[Includes the effect of a change in the method of estimating unbilled kilowatt hour sales beginning in 1991 which increased power sold and revenues for all islands except Kauai and Molokai]

| County or island | Customers, Dec. 31 | | | Installed capacity (nameplate) Dec. 31 (kW) | Power sold (1,000 kWh) | | |
|-------------------|--------------------|-----------------------|--------|---|------------------------|-----------------------|-----------|
| | Total | Residential <u>1/</u> | Other | | Total | Residential <u>1/</u> | Other |
| State total..... | 403,595 | 346,977 | 56,618 | 1,710,224 | 8,948,458 | 2,551,240 | 6,397,218 |
| Oahu..... | 264,992 | 232,115 | 32,877 | 1,188,910 | 6,797,364 | 1,782,043 | 5,015,321 |
| Hawaii..... | 58,017 | 48,655 | 9,362 | 202,095 | 835,666 | 324,879 | 510,787 |
| Kauai..... | 28,103 | 21,482 | 6,621 | 110,550 | 355,311 | 123,713 | 231,598 |
| Maui County | 52,483 | 44,725 | 7,758 | 208,669 | 960,117 | 320,605 | 639,513 |
| Lanai..... | 1,297 | 1,131 | 166 | 10,760 | 25,818 | 5,963 | 19,856 |
| Maui..... | 48,388 | 41,292 | 7,096 | 189,029 | 901,235 | 302,085 | 599,151 |
| Molokai | 2,798 | 2,302 | 496 | 8,880 | 33,064 | 12,557 | 20,506 |

Continued on next page.

Table 17.11-- ELECTRIC UTILITIES, BY ISLANDS: 1994 - Con.

| County or island | Average annual use (kWh) <u>2/</u> | | Average rate (dollars per kWh) | | Revenues (\$1,000) | | |
|-------------------|---------------------------------------|---------|-----------------------------------|---------|--------------------|----------------------------|---------|
| | Residen- tial <u>1/</u> | Other | Residen- tial <u>1/</u> | Other | Total | Residen- tial <u>1/</u> | Other |
| State total..... | 7,353 | 112,989 | 0.12464 | 0.09972 | 955,907 | 317,984 | 637,923 |
| Oahu..... | 7,677 | 152,548 | 0.11342 | 0.08979 | 652,442 | 202,124 | 450,319 |
| Hawaii..... | 6,677 | 54,560 | 0.16491 | 0.14621 | 128,259 | 53,576 | 74,683 |
| Kauai | 5,759 | 34,979 | 0.16166 | 0.15286 | 55,401 | 20,000 | 35,401 |
| Maui County | 7,168 | 82,433 | 0.13189 | 0.12122 | 119,805 | 42,284 | 77,520 |
| Lanai | 5,272 | 119,611 | 0.16618 | 0.15609 | 4,090 | 991 | 3,099 |
| Maui..... | 7,316 | 84,435 | 0.12985 | 0.11861 | 110,289 | 39,226 | 71,063 |
| Molokai | 5,455 | 41,343 | 0.16465 | 0.16375 | 5,426 | 2,068 | 3,358 |

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: 1984 TO 1994

[Revised. Excludes bottled gas]

| Year | Customers, Dec. 31 | | | Gas sold (1,000 therms) | | |
|------------|--------------------|--------------------------------|-------|----------------------------|--------------------------------|--------|
| | Total | Residen- tial ^{1/} | Other | Total | Residen- tial ^{1/} | Other |
| 1984 | 32,643 | 28,859 | 3,784 | 30,928 | 5,853 | 25,075 |
| 1985 | 32,988 | 29,253 | 3,735 | 31,203 | 5,911 | 25,292 |
| 1986 | 33,369 | 29,678 | 3,691 | 31,122 | 5,762 | 25,360 |
| 1987 | 33,895 | 30,198 | 3,697 | 32,408 | 5,880 | 26,528 |
| 1988 | 34,103 | 30,450 | 3,653 | 32,733 | 5,780 | 26,952 |
| 1989 | 34,304 | 30,661 | 3,643 | 33,865 | 5,896 | 27,969 |
| 1990 | 34,477 | 30,840 | 3,637 | 34,806 | 5,924 | 28,882 |
| 1991 | 34,973 | 31,378 | 3,595 | 33,974 | 5,775 | 28,199 |
| 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 |

| Year | 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 |
| 1984 | 203 | 6,627 | 1.78958 | 1.37488 | 44,949 | 10,474 | 34,475 |
| 1985 | 202 | 6,772 | 1.76934 | 1.33821 | 44,305 | 10,459 | 33,846 |
| 1986 | 194 | 6,871 | 1.57151 | 1.12027 | 37,465 | 9,055 | 28,410 |
| 1987 | 195 | 7,176 | 1.57204 | 1.10494 | 38,556 | 9,244 | 29,312 |
| 1988 | 189 | 7,378 | 1.54961 | 1.07840 | 38,023 | 8,957 | 29,066 |
| 1989 | 192 | 7,677 | 1.54200 | 1.06487 | 38,876 | 9,092 | 29,783 |
| 1990 | 192 | 7,941 | 1.62847 | 1.14834 | 42,813 | 9,646 | 33,167 |
| 1991 | 184 | 7,844 | 1.78649 | 1.25285 | 45,646 | 10,317 | 35,329 |
| 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 |

^{1/} Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

^{2/} Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.13-- GAS UTILITIES, BY ISLANDS: 1993

[Revised. Excludes bottled gas]

| Island | Customers, December 31 | | | Gas sold (1,000 therms) | | |
|------------------|------------------------|--------------------------------|-------|-------------------------|--------------------------------|--------|
| | Total | Residen- tial ^{1/} | Other | Total | Residen- tial ^{1/} | Other |
| State total..... | 35,908 | 32,293 | 3,615 | 33,268 | 5,750 | 27,518 |
| Oahu..... | 33,206 | 29,984 | 3,222 | 30,027 | 5,287 | 24,739 |
| Hawaii..... | 1,780 | 1,456 | 324 | 2,372 | 308 | 2,064 |
| Kauai..... | 501 | 501 | - | 83 | 83 | - |
| Maui..... | 394 | 325 | 69 | 782 | 67 | 715 |
| Molokai..... | 27 | 27 | - | 5 | 5 | - |
| 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..... | 178 | 7,612 | 1.75962 | 1.22594 | 43,853 | 10,117 | 33,735 |
| Oahu..... | 176 | 7,678 | 1.77992 | 1.23456 | 39,953 | 9,411 | 30,542 |
| Hawaii..... | 212 | 6,370 | 1.50929 | 1.16002 | 2,859 | 465 | 2,394 |
| Kauai..... | 165 | - | 1.59599 | - | 132 | 132 | - |
| Maui..... | 206 | 10,360 | 1.47629 | 1.11795 | 898 | 99 | 799 |
| Molokai..... | 174 | - | 2.26418 | - | 11 | 11 | - |
| Lanai..... | - | - | - | - | - | - | - |

^{1/} Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

^{2/} Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 17.14-- GAS UTILITIES, BY ISLANDS: 1994

[Excludes bottled gas]

| Island | Customers, December 31 | | | Gas sold (1,000 therms) | | |
|------------------|------------------------|----------------------------|-------|-------------------------|----------------------------|--------|
| | Total | Residen- tial <u>1/</u> | Other | Total | Residen- tial <u>1/</u> | Other |
| State total..... | 36,403 | 32,753 | 3,650 | 34,010 | 5,851 | 28,159 |
| Oahu..... | 33,597 | 30,344 | 3,253 | 30,762 | 5,372 | 25,391 |
| Hawaii..... | 1,786 | 1,458 | 328 | 2,338 | 305 | 2,032 |
| Kauai..... | 567 | 567 | - | 93 | 93 | - |
| Maui..... | 397 | 328 | 69 | 806 | 71 | 736 |
| Molokai..... | 56 | 56 | - | 10 | 10 | - |
| Lanai..... | - | - | - | - | - | - |

| Island | Average annual use (therms) <u>2/</u> | | Average rate (dollars per therm) | | Revenues (\$1,000) | | |
|------------------|--|--------|-------------------------------------|---------|--------------------|----------------------------|--------|
| | Residen- tial <u>1/</u> | Other | Residen- tial <u>1/</u> | Other | Total | Residen- tial <u>1/</u> | Other |
| State total..... | 179 | 7,715 | 1.71994 | 1.19455 | 43,700 | 10,064 | 33,637 |
| Oahu..... | 177 | 7,805 | 1.73535 | 1.19818 | 39,744 | 9,322 | 30,423 |
| Hawaii..... | 209 | 6,196 | 1.52038 | 1.17165 | 2,845 | 464 | 2,381 |
| Kauai..... | 165 | - | 1.62303 | - | 152 | 152 | - |
| Maui..... | 216 | 10,659 | 1.46822 | 1.13238 | 937 | 104 | 833 |
| Molokai..... | 181 | - | 2.21664 | - | 22 | 22 | - |
| Lanai..... | - | - | - | - | - | - | - |

1/ Residential refers to single-metered residential customers which may include condominiums for visitor use but excludes master-metered apartment and condominium buildings used by residents which are classified as commercial customers.

2/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

**Table 17.15-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC COMPANY, INC.,
ON OAHU: 1989 TO 1994**

| Year | Number of customers, Dec. 31 | | Net input <u>1/</u> (1,000 kWh) | Electricity sales (1,000 kWh) | Average annual residential use <u>2/</u> (kWh) | Average residential rate (dollars per kWh) | Generating capability Dec. 31 (kW) |
|-----------|------------------------------|------------------|------------------------------------|----------------------------------|---|---|--|
| | Total | Residential only | | | | | |
| 1989 | 247,120 | 216,063 | 6,617,943 | 6,254,220 | 7,534 | 0.08308 | 1,271,000 |
| 1990 | 248,692 | 217,681 | 6,835,025 | 6,470,587 | 7,620 | 0.09228 | 1,262,000 |
| 1991 | 255,176 | 223,304 | 6,876,964 | 6,538,952 | 7,610 | 0.09354 | 1,440,000 |
| 1992 | 257,442 | 225,229 | 7,061,157 | 6,650,449 | 7,711 | 0.09925 | 1,666,000 |
| 1993 | 263,478 | 230,192 | 7,029,839 | 6,607,424 | 7,581 | 0.11414 | 1,669,000 |
| 1994 | 264,992 | 232,115 | 7,222,978 | 6,797,364 | 7,681 | 0.11342 | 1,669,000 |

1/ Net generation plus purchased power.

2/ Based on average number of customers during the year.

Source: Hawaiian Electric Company, Inc., records.

**Table 17.16-- GAS UTILITY SERVICE BY THE GAS COMPANY, INC., FOR
OAHU: 1989 TO 1994**

| Calendar year | Customers, Dec. 31 | | Gas sold <u>1/</u> (1,000 therms) | | Average annual residential usage <u>1/</u> (therms) |
|---------------|--------------------|-------------|-----------------------------------|-------------|--|
| | Total | Residential | Total | Residential | |
| 1989 | 31,812 | 28,539 | 30,776 | 5,446 | 191 |
| 1990 | 31,974 | 28,714 | 31,645 | 5,469 | 191 |
| 1991 | 32,487 | 29,278 | 30,866 | 5,331 | 182 |
| 1992 | 32,598 | 29,375 | 30,528 | 5,285 | 180 |
| 1993 | 33,206 | 29,984 | 30,029 | 5,287 | 176 |
| 1994 | 33,597 | 30,344 | 30,765 | 5,372 | 177 |

1/ Includes liquefied petroleum gas.

Source: The Gas Company, BHP Petroleum, records.

Table 17.17-- LIQUID FUEL TAX BASE: 1985 TO 1995

[In thousands of gallons]

| Year reported <u>1/</u> | All types | | Gasoline | Diesel oil | |
|-------------------------|-----------|--------------------|----------|------------|----------|
| | Total | Excluding aviation | | Non-hwy. | Hwy. use |
| 1985 | 970,555 | 432,500 | 327,021 | 83,147 | 17,636 |
| 1986 | 1,059,180 | 456,013 | 336,559 | 95,022 | 19,354 |
| 1987 | 1,206,716 | 512,974 | 348,474 | 137,806 | 21,207 |
| 1988 | 1,216,828 | 515,273 | 357,986 | 131,292 | 21,057 |
| 1989 | 1,268,597 | 535,714 | 369,172 | 136,465 | 23,729 |
| 1990 | 1,307,887 | 557,097 | 375,382 | 151,095 | 24,763 |
| 1991 | 1,299,455 | 570,077 | 376,182 | 163,773 | 24,991 |
| 1992 | 1,286,118 | 574,716 | 381,118 | 162,983 | 26,289 |
| 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 |

| Year reported <u>1/</u> | Liquefied petroleum gas | | Aviation fuel | Small boats | |
|-------------------------|-------------------------|----------|---------------|-------------|------------|
| | Off-hwy. | Hwy. use | | Gasoline | Diesel oil |
| 1985 | 2,804 | 1,028 | 538,055 | 187 | 676 |
| 1986 | 2,969 | 1,031 | 603,167 | 163 | 916 |
| 1987 | 3,135 | 1,142 | 693,742 | 123 | 1,089 |
| 1988 | 3,012 | 1,071 | 701,555 | 63 | 792 |
| 1989 | 4,301 | 968 | 732,883 | 57 | 1,022 |
| 1990 | 4,757 | 834 | 750,790 | 78 | 188 |
| 1991 | 3,575 | 780 | 729,378 | 52 | 724 |
| 1992 | 3,644 | 532 | 711,402 | 48 | 102 |
| 1993 | 3,343 | 477 | 599,691 | 35 | 349 |
| 1994 | 3,210 | 566 | 661,608 | 60 | 198 |
| 1995 | 3,096 | 514 | 685,443 | 50 | 395 |

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections" (annual report).

Table 17.18-- LIQUID FUEL TAX BASE, BY COUNTIES: 1995

[In thousands of gallons]

| Type of fuel | State total | City and Co. of Honolulu | County of Maui | County of Hawaii | County of Kauai |
|------------------------------|-------------|--------------------------|----------------|------------------|-----------------|
| Total..... | 1,286,038 | 1,027,024 | 108,258 | 93,159 | 57,597 |
| Gasoline | 396,446 | 262,614 | 50,852 | 59,544 | 23,436 |
| Diesel oil, non-hwy..... | 172,684 | 83,966 | 37,482 | 19,786 | 31,450 |
| Diesel oil, hwy. use..... | 27,411 | 16,996 | 2,920 | 6,013 | 1,481 |
| Liq. pet. gas, off hwy..... | 3,096 | 1,810 | 547 | 483 | 256 |
| Liq. pet. gas, hwy. use..... | 514 | 429 | 30 | 29 | 26 |
| Small boats, gasoline..... | 50 | 50 | - | - | - |
| Small boats, diesel oil..... | 395 | 3 | - | 393 | - |
| Aviation fuel | 685,443 | 661,157 | 16,426 | 6,911 | 948 |

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base and Tax Collections, Calendar Year Ending December 31, 1995" (annual release).

Table 17.19-- IMPORTS AND EXPORTS OF CRUDE OIL AND PETROLEUM PRODUCTS: 1994

[1,000 barrels]

| Product | Imports | | | Exports | | |
|--------------------------|---------|----------|---------|---------|----------|---------|
| | Total | Domestic | Foreign | Total | Domestic | Foreign |
| Crude oil..... | 54,471 | 21,018 | 33,453 | 31 | 31 | - |
| Distillates..... | 330 | 330 | - | 92 | 88 | 4 |
| Jet fuel <u>1/</u> | 1,076 | 614 | 462 | - | - | - |
| Residual fuel oil..... | 414 | 2 | 412 | 1,123 | 555 | 568 |
| Naphtha..... | - | - | - | 908 | 163 | 745 |
| Other..... | - | - | - | 730 | 178 | 552 |

1/ Excludes imports of unknown origin.

Source: Hawaii State Department of Business, Economic Development & Tourism, Energy Division, records.

Table 17.20-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL, BY COUNTIES: 1987, 1992, AND 1993

| Year | State total | City and Co. of Honolulu | Hawaii County | Kauai County | Maui County | | |
|-----------|-------------|--------------------------|---------------|--------------|-------------|-------|---------|
| | | | | | Lanai | Maui | Molokai |
| 1987..... | 355 | 241 | 52 | 26 | 1 | 34 | 1 |
| 1992..... | 326 | 212 | 57 | 21 | - | 35 | 1 |
| 1993..... | 315 | 204 | 58 | 20 | (1/) | 1/ 33 | (1/) |

1/ Lanai and Molokai included with Maui.

Source: U.S. Bureau of the Census, *1987 Census of Retail Trade, Hawaii*, RC87-A-12 (May 1989), table 5; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 4; and *County Business Patterns 1993, Hawaii*, CBP-93-13 (August 1995).

Table 17.21-- BOILERS AND PRESSURE VESSELS, BY ISLANDS: DECEMBER 31, 1994

| Island | Total | Power boilers | Heating boilers | Pressure vessels |
|-------------------|-------|---------------|-----------------|------------------|
| State total | 9,404 | 633 | 2,657 | 6,114 |
| Hawaii | 1,176 | 84 | 219 | 873 |
| Maui | 977 | 74 | 244 | 659 |
| Lanai | 65 | 5 | 11 | 49 |
| Molokai | 61 | 7 | 28 | 26 |
| Oahu | 6,696 | 426 | 2,024 | 4,246 |
| Kauai | 429 | 37 | 131 | 261 |
| Niihau | - | - | - | - |

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 17.22-- ENERGY GENERATED, PURCHASED, SOLD, AND USED BY SUGAR PLANTATIONS, BY ISLANDS: 1993

| Subject | State total | Hawaii | Kauai | Maui | Oahu |
|---|-------------|--------|--------|--------|--------|
| Electricity (millions of kilowatt-hours) | | | | | |
| Generated <u>1/</u> | 687.63 | 179.23 | 124.92 | 250.32 | 133.15 |
| Purchased | 33.33 | 1.80 | 14.82 | 6.07 | 10.64 |
| Sold..... | 335.74 | 116.23 | 71.02 | 104.03 | 44.46 |
| Used..... | 385.21 | 64.80 | 68.72 | 152.36 | 99.33 |
| Gross heat values of boiler fuels (billions of Btu's) | | | | | |
| All fuels..... | 22,204 | 6,353 | 4,166 | 7,268 | 4,417 |
| Bagasse | 15,998 | 4,840 | 3,549 | 5,007 | 2,603 |
| Fuel oil | 5,373 | 1,514 | 591 | 2,049 | 1,220 |
| Other fuels | 833 | - | 27 | 212 | 594 |

1/ Includes electricity generated by steam, hydroelectric and diesel engine.

Source: Hawaiian Sugar Planters' Association, *Energy Inventory of Hawaiian Sugar Plantations - 1993* (Energy Report 33, May 1994), pp. 10-11.

Table 17.23-- HIGH TECHNOLOGY COMPANIES, EMPLOYEES, AND REVENUES: 1993

| Subject | All sectors | Manufacturing | Service | Support |
|--|-------------|---------------|---------|---------|
| Number of companies <u>1/</u> | 248 | 18 | 186 | 44 |
| Employees <u>2/</u> | 7,125 | 991 | 4,281 | 1,853 |
| Revenues (million dollars) <u>2/</u> | 958 | 388 | 376 | 194 |

1/ Number responding to survey. The estimated total number of high tech companies in Hawaii was 300.

2/ Based on survey response, and excluding GTE Hawaiian Tel and Hawaiian Electric.

Source: High Technology Development Corp., Mililani, Hawaii, 1993 survey.

Table 17.24-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT AND R&D PLANT IN HAWAII: 1987 TO 1992

[Millions of dollars. For fiscal years ended September 30]

| Type of obligation | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 |
|------------------------------|------|------|------|-------|-------|-------|
| Obligations for R&D..... | 63.9 | 82.2 | 97.4 | 100.0 | 112.6 | 150.7 |
| Obligations for R&D plant... | 0.6 | 6.9 | 0.4 | 1.4 | 9.2 | 6.5 |

Source: National Science Foundation, *Federal Funds for Research and Development: Fiscal Years 1992, 1993, and 1994*, Volume 42, Detailed Statistical Tables, NSF 94-328 (1993), pp. 346-349.

Table 17.25-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING, FOR THE UNIVERSITY OF HAWAII: 1990-91 TO 1994-95

[Research and non-research awards received through the Office of Research Administration, University of Hawaii]

| Scope of survey and fiscal year ^{1/} | Total | | Research | | Non-research | |
|---|--------|------------------|----------|------------------|--------------|------------------|
| | Awards | Amount (dollars) | Awards | Amount (dollars) | Awards | Amount (dollars) |
| Including U.S.D.A.: | | | | | | |
| 1990-91 | 1,041 | 110,763,992 | 622 | 62,870,814 | 418 | 47,868,825 |
| 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 |

^{1/} Earlier reports excluded non-competitive awards from the U.S. Department of Agriculture.

Source: Office of Research Administration, University of Hawaii, *1994-1995 Extramural Awards* (1995), p. i.

**Table 17.26-- RESEARCH AND DEVELOPMENT EXPENDITURES AT
DOCTORATE-GRANTING INSTITUTIONS: 1988 TO 1992**

[Thousands of dollars. For fiscal years ended September 30]

| Type of expenditure | 1988 | 1989 | 1990 | 1991 | 1992 |
|------------------------------|--------|--------|--------|--------|--------|
| Total R&D expenditures | 64,278 | 70,733 | 76,525 | 78,166 | 80,258 |
| Federally financed..... | 38,560 | 40,574 | 42,665 | 44,857 | 47,684 |
| All others..... | 25,718 | 30,159 | 33,860 | 33,309 | 32,574 |

Source: National Science Foundation, *Academic Science and Engineering: R&D Expenditures, Fiscal Year 1992*, NSF 94-324, Detailed Statistical Tables (1994), tables B-23 and B-24.

**Table 17.27-- PATENTS ISSUED TO HAWAII RESIDENTS:
1984 TO 1994**

[Fiscal years ended September 30. Data include design, plant, and reissue patents]

| Fiscal year | Patents | Fiscal year | Patents |
|-------------|---------|-------------|---------------|
| 1984..... | 43 | 1990..... | 78 |
| 1985..... | 33 | 1991..... | 78 |
| 1986..... | 37 | 1992..... | 85 |
| 1987..... | 52 | 1993..... | 88 |
| 1988..... | 62 | 1994..... | <u>1/</u> 116 |
| 1989..... | 74 | | |

1/ Hawaii ranked 45th among the 50 States.

Source: U.S. Department of Commerce, Patent and Trademark Office, *Working for Our Customers: a Patent and Trademark Office Review, Fiscal Year 1994*, p. 66, and *Annual Report for 1984-1993*.

**Table 17.28-- TELESCOPES AT THE SUMMITS OF MAUNA KEA AND
HALEAKALA: 1994**

| Location and facility | Mirror size (meters) | Year completed | Costs (mil. dol.) | | Local staff <u>1/</u> | |
|--|----------------------|----------------|-------------------|-----------|-----------------------|----|
| | | | Capital | Operating | | |
| Mauna Kea: | | | | | | |
| UH 24-inch Telescope #1 | 0.61 | 1968 | } | 5 | 1.2 | 11 |
| UH 24-inch Telescope #2 | 0.61 | 1969 | | | | |
| UH 88-inch Telescope | 2.24 | 1970 | | | | |
| NASA Infrared Telescope Facility | 3.0 | 1979 | 10 | 2.5 | 11 | |
| Canada-France-Hawaii Telescope | 3.6 | 1979 | 30 | 6.0 | 52 | |
| United Kingdom Infrared Telescope .. | 3.8 | 1979 | 5 | 2.7 | 27 | |
| Caltech Submillimeter Observatory... | 10 | 1986 | 6 | 2.0 | 11 | |
| James Clerk Maxwell Submillimeter.. | 15 | 1986 | 32 | 3.5 | 39 | |
| W.M. Keck Observatory | 10 | 1992 | 94 | 5.0 | 35 | |
| VLBA Antenna (Radio) | 25 | 1992 | 7 | 0.25 | 3 | |
| W.M. Keck Observatory (Keck II) | 10 | 1996 | 93 | 5.0 | 35 | |
| Japan National Large Telescope (Subaru) | 8 | 1999 | 170 | 10.0 | 50 | |
| Haleakala (on UH land): | | | | | | |
| Mees Solar Observatory | ... | 1956 | 0.5 | 0.5 | 9 | |
| Lunar Ranging Facility | ... | 1976/84 | 3.3 | 0.6 | 8 | |
| Maui Space Surveillance Site | ... | ... | 200 | 11.0 | 120 | |

1/ Based in same county as observatory.

Source: University of Hawaii at Manoa, Institute for Astronomy, *Fact Sheet--1993-1994* (February 1994).

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic. Other information bearing on transportation appears in Sections 7, 12, 14, and 24.

Motor vehicle registration in Hawaii increased from 717,000 in 1984 to 875,000 in 1994. Vehicle miles rose during the decade ending in 1994 from 6.5 billion to 7.9 billion. In 1994 over 76,000 new passenger cars and 6,600 trucks were registered. By the end of that year, 745,000 licensed drivers had access to 4,100 miles of streets and highways throughout the State. Bus passengers carried by the City and County of Honolulu bus system increased from 76 million in 1984 to 79 million in 1994.

Almost all scheduled interisland travel is by air. In 1994, airlines and air taxis reported 9.9 million interisland passengers, some 30 percent more than in 1984, and carried 74,000 tons of cargo. The State has nine commercial airports, 13 general aviation, military or semi-private airports, 13 civilian heliports, 3,300 active pilots, and about 400 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. In 1994, 7,310,000 overseas passengers arrived by air, a 10-year growth of 39 percent. Overseas air cargo received that year weighed 154,000 tons.

Undocumented State-registered vessels as of December 31, 1994 numbered 13,800, compared with 8,000 in 1970. Median length was 18 feet, and five-sixths were stored on land. There were 1,775 documented vessels in the State in 1991, triple the 1970 total. Overseas vessels brought 14,500 passengers into the State in 1994. Receipts of cargo in 1989 included 10.4 million tons in overseas cargo and 5.7 million tons in interisland cargo.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, U.S. Census of Transportation, Communications, and Utilities, Honolulu Department of Transportation Services and Department of Data Systems, county finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in *Historical Statistics of Hawaii*, Section 17. Another source of long-term trend information is *What People Paid to Travel*, published by the Hawaiian Historical Society in 1991. Similar statistics for other areas are reported in the *Statistical Abstract of the United States: 1995*, Sections 21 and 22.

Table 18.01-- HIGHWAY DISTANCES: 1995

| Route | Statute miles | Route | Statute miles |
|---------------------------------|---------------|---------------------------------------|---------------|
| HAWAII | | MOLOKAI | |
| Hilo-Lyman Field | 2.0 | Kaunakakai-Sheraton Hotel | 19.5 |
| Hilo-Kalapana..... | 26.1 | Kaunakakai-Maunaloa | 16.5 |
| Hilo-Mauna Kea summit | 39.3 | Kaunakakai-Airport | 7.0 |
| Hilo-Mauna Loa summit..... | 52.4 | Kaunakakai-Halawa | 27.6 |
| Hilo-Volcano House | 30.7 | Airport-Sheraton Hotel | 11.5 |
| Hilo-Kailua, via Naalehu | 125.2 | | |
| Hilo-Kailua, via Saddle Rd..... | 84.3 | OAHU ^{1/} | |
| Hilo-Kailua, via Hamakua | 91.2 | Honolulu-Ala Moana Center..... | 1.6 |
| Hilo-Waimea, via Saddle Rd. ... | 57.9 | Honolulu-UH, via King Street | 3.2 |
| Hilo-Waimea, via Hamakua..... | 55.3 | Honolulu-Waikiki..... | 3.2 |
| Hilo-Upolu Pt., via Hamakua ... | 83.7 | Honolulu-Waimanalo, via Koko Head . | 21.8 |
| Hilo-Kawaihae, via Hamakua... | 69.5 | Honolulu-Waimanalo, via Nuuanu | 13.3 |
| Waimea-Hawi..... | 21.4 | Honolulu-Kailua, via Nuuanu | 11.6 |
| Waimea-Kawaihae | 11.5 | Honolulu-Kaneohe, via Kalihi..... | 10.8 |
| Kawaihae-Hawi..... | 18.0 | Honolulu-Kahuku, via Kahaluu..... | 36.2 |
| Kawaihae-Kailua | 48.4 | Honolulu-Kahuku, via Wahiawa | 46.2 |
| Kailua-Keahole Airport..... | 6.8 | Honolulu-Kaena Pt., via Wahiawa..... | 42.4 |
| Kailua-Keauhou | 6.9 | Honolulu-Kaena Pt., via Waianae | 44.3 |
| | | Honolulu-Wahiawa..... | 20.5 |
| MAUI | | Honolulu-Pearl Harbor Shipyard | 6.5 |
| Wailuku-Kahului | 2.3 | Honolulu-Honolulu Airport | 4.8 |
| Wailuku-Kahului Airport..... | 4.2 | Waikiki-UH, via Kapahulu | 3.2 |
| Wailuku-Hana, via Keanae | 53.7 | Waikiki-Honolulu Airport | 8.0 |
| Wailuku-Hana, via Kaupo..... | 59.8 | Waimanalo-Kahuku | 33.0 |
| Wailuku-Haleakala summit..... | 38.2 | Circle island, via Makapuu..... | 99.1 |
| Wailuku-Makena | 17.6 | Circle island, via Nuuanu Pali | 81.1 |
| Wailuku-Lahaina, via Kahakuloa | 38.0 | | |
| Wailuku-Lahaina, via Olowalu . | 20.9 | KAUAI | |
| Kahului-Kihei | 7.9 | Lihue-Haena | 38.0 |
| Lahaina-Wailea | 32.4 | Lihue-Wailua | 5.9 |
| Lahaina-Napili | 8.9 | Lihue-Lihue Airport | 2.0 |
| Lahaina-Kaanapali..... | 3.7 | Lihue-Poipu | 11.9 |
| | | Lihue-Mana..... | 32.9 |
| LANAI | | Lihue-Kalalau Lookout | 44.6 |
| Lanai City-Lanai Airport..... | 2.7 | Poipu-Kalalau Lookout..... | 36.8 |
| Lanai City-Hulopoe | 8.0 | Poipu-Princeville..... | 40.7 |

^{1/} Honolulu distances measured from South King and Bishop Streets; Waikiki, from Kalakaua Avenue and Lewers Street.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.02-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1993 AND 1994

[Excludes private thoroughfares and military roads not regularly open to public use]

| Island | Total mileage | Paved | | Unpaved |
|-------------------|---------------|----------|----------|---------|
| | | Freeways | Other | |
| 1993 | | | | |
| State total | 4,105.94 | 96.82 | 3,811.12 | 198.00 |
| Hawaii 1/ | 1,433.10 | 6.56 | 1,367.17 | 59.37 |
| Maui 1/ | 621.90 | 3.21 | 561.99 | 56.70 |
| Lanai | 46.68 | - | 32.68 | 14.00 |
| Molokai | 129.33 | - | 117.33 | 12.00 |
| Oahu | 1,471.47 | 87.05 | 1,350.98 | 33.44 |
| Kauai | 403.46 | - | 380.97 | 22.49 |
| Niihau | - | - | - | - |
| 1994 | | | | |
| State total | 4,100.07 | 77.33 | 3,824.74 | 198.00 |
| Hawaii 1/ | 1,420.89 | - | 1,361.52 | 59.37 |
| Maui 1/ | 609.24 | - | 552.54 | 56.70 |
| Lanai | 46.59 | - | 32.59 | 14.00 |
| Molokai | 129.26 | - | 117.26 | 12.00 |
| Oahu | 1,485.75 | 77.33 | 1,374.98 | 33.44 |
| Kauai | 408.34 | - | 385.85 | 22.49 |
| Niihau | - | - | - | - |

1/ Significant changes from previously published data are due to reinventories of roads to reflect extensive revisions in the functional classification of highway systems.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.03-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1970 TO 1994

[Excludes private thoroughfares and military roads not regularly open to public use]

| Category | 1970 | 1975 | 1980 | 1985 | 1990 | 1994 |
|---------------------|-------|-------|-------|-------|-------|-------|
| Total mileage | 3,529 | 3,743 | 3,912 | 4,070 | 4,101 | 4,100 |
| Paved..... | 3,047 | 3,355 | 3,591 | 3,808 | 3,887 | 3,902 |
| Unpaved..... | 482 | 389 | 321 | 262 | 214 | 198 |

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.04-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1994

| Island | Number of bridges ^{1/} | Longest bridge | | Highest bridge | |
|---------------|---------------------------------|-------------------|---------------|------------------|---------------|
| | | Location | Length (feet) | Location | Height (feet) |
| State | 714 | Airport Viaduct.. | 14,890 | Nanue | 208 |
| Hawaii | 129 | Hakalau..... | 775 | Nanue | 208 |
| Maui | 88 | Honokahua..... | 600 | Uaoa | 79 |
| Lanai | - | None | ... | None | ... |
| Molokai | 19 | Manawainui | 360 | Manawainui | 50 |
| Oahu | 427 | Airport Viaduct.. | 14,890 | Kipapa..... | 156 |
| Kauai..... | 51 | 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, 1994

| 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 <u>1/</u> | 4,890 |
| Outbound <u>1/</u> | 5,165 |
| Middle Street..... | 393 |
| Structure No. 8, Waiawa Interchange | 300 |
| Maui: | |
| Olowalu | 318 |
| Kauai: | |
| Kipu-Mahaulepu (private road) | 2,200 |

1/ Not yet open to public.

Source: Hawaii State Department of Transportation, Highways Division, records; McBryde Sugar Plantation, records.

**Table 18.06-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1984 TO 1994**

[Taxable and non-taxable. Includes vehicles registered but subsequently scrapped or shipped out of the State]

| Year | All vehicles registered | Motor vehicles | | | |
|------------|-------------------------|-----------------------------|------------------------------|--|----------------------------|
| | | All motor vehicles | Passenger vehicles <u>1/</u> | Ambulances, hearses, patrol wagons | Buses |
| 1984 | 735,458 | 717,171 | 599,845 | 68 | 4,034 |
| 1985 | 767,892 | 749,034 | 625,823 | 66 | 4,189 |
| 1986 | 790,855 | 771,575 | 642,636 | 60 | 4,158 |
| 1987 | 818,430 | 798,317 | 661,674 | 54 | 4,198 |
| 1988 | 838,327 | 817,609 | 670,877 | 52 | 4,215 |
| 1989 | 876,848 | 855,057 | 695,397 | 54 | 4,203 |
| 1990 | 911,283 | 889,096 | 718,204 | 55 | 4,308 |
| 1991 | 920,124 | 897,193 | 717,907 | 54 | 4,309 |
| 1992 | 908,738 | 885,761 | 703,983 | 53 | 4,282 |
| 1993 | 903,550 | 880,152 | 693,283 | 48 | 4,032 |
| 1994 | 898,008 | 875,144 | 691,158 | 53 | 3,772 |
| | | Motor vehicles -- continued | | | |
| Year | Trucks <u>1/</u> | Truck tractors, tow trucks | Truck crane, misc. | Motor-cycles, motor scooters <u>2/</u> | Trailers and semi-trailers |
| 1984 | 101,233 | 1,428 | 364 | 10,199 | 18,287 |
| 1985 | 106,673 | 1,334 | 342 | 10,607 | 18,858 |
| 1986 | 112,053 | 1,290 | 323 | 11,055 | 19,280 |
| 1987 | 119,338 | 1,220 | 318 | 11,515 | 20,113 |
| 1988 | 129,452 | 1,176 | 293 | 11,544 | 20,718 |
| 1989 | 141,845 | 1,107 | 292 | 12,159 | 21,791 |
| 1990 | 152,453 | 1,043 | 313 | 12,720 | 22,187 |
| 1991 | 159,831 | 972 | 323 | 13,797 | 22,931 |
| 1992 | 160,952 | 871 | 298 | 15,322 | 22,977 |
| 1993 | 165,209 | 757 | 283 | 16,540 | 23,398 |
| 1994 | 162,348 | 630 | 249 | 16,934 | 22,864 |

Footnotes and source on next page.

**Table 18.06-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE:
1984 TO 1994 -- Con.**

1/ Vans, pickups, and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, records.

**Table 18.07-- MOTOR VEHICLES REGISTERED, BY COUNTIES:
1984 TO 1994**

[Taxable and non-taxable. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers. Also includes vehicles registered but subsequently scrapped or shipped out of the State]

| Year | State total | City and County of Honolulu | County of Hawaii | County of Kauai | County of Maui |
|-----------|-------------|-----------------------------|------------------|-----------------|----------------|
| 1984..... | 717,171 | 525,599 | 80,840 | 35,236 | 75,496 |
| 1985..... | 749,034 | 544,976 | 85,806 | 37,659 | 80,593 |
| 1986..... | 771,575 | 556,935 | 89,918 | 40,585 | 84,137 |
| 1987..... | 798,317 | 571,738 | 93,095 | 43,925 | 89,559 |
| 1988..... | 817,609 | 579,998 | 96,360 | 47,235 | 94,016 |
| 1989..... | 855,057 | 599,379 | 103,724 | 51,455 | 100,499 |
| 1990..... | 889,096 | 612,742 | 110,834 | 55,927 | 109,593 |
| 1991..... | 897,193 | 613,119 | 113,265 | 57,751 | 113,058 |
| 1992..... | 885,761 | 611,513 | 113,080 | 51,165 | 110,003 |
| 1993..... | 880,152 | 604,602 | 111,138 | 54,068 | 110,344 |
| 1994..... | 875,144 | 600,087 | 111,532 | 52,817 | 110,708 |

Source: City and County of Honolulu, Department of Data Systems, records.

**Table 18.08-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR
COUNTIES: 1993 AND 1994**

| Type of vehicle | State total | City and County of Honolulu | County of Hawaii | County of Kauai | County of Maui |
|------------------------------------|-------------|-----------------------------|------------------|-----------------|----------------|
| 1993 | | | | | |
| All vehicles | 903,550 | 617,847 | 116,024 | 56,606 | 113,073 |
| Motor vehicles..... | 880,152 | 604,602 | 111,138 | 54,068 | 110,344 |
| Passenger vehicles <u>1</u> /..... | 693,283 | 483,237 | 84,507 | 39,409 | 86,130 |
| Ambulances..... | 48 | 34 | 9 | - | 5 |
| Buses | 4,032 | 3,316 | 212 | 58 | 446 |
| Trucks <u>1</u> /..... | 165,209 | 105,477 | 24,072 | 13,747 | 21,913 |
| Truck tractors..... | 757 | 330 | 184 | 86 | 157 |
| Truck cranes..... | 283 | 120 | 31 | 22 | 110 |
| Motorcycles <u>2</u> / | 16,540 | 12,088 | 2,123 | 746 | 1,583 |
| Trailers and semi-trailers | 23,398 | 13,245 | 4,886 | 2,538 | 2,729 |
| 1994 | | | | | |
| All vehicles | 898,008 | 612,869 | 116,361 | 55,349 | 113,429 |
| Motor vehicles..... | 875,144 | 600,087 | 111,532 | 52,817 | 110,708 |
| Passenger vehicles <u>1</u> /..... | 691,158 | 482,628 | 84,807 | 37,866 | 85,857 |
| Ambulances..... | 53 | 31 | 9 | - | 13 |
| Buses | 3,772 | 3,100 | 203 | 47 | 422 |
| Trucks <u>1</u> /..... | 162,348 | 101,737 | 24,213 | 14,083 | 22,315 |
| Truck tractors..... | 630 | 284 | 124 | 78 | 144 |
| Truck cranes..... | 249 | 109 | 26 | 21 | 93 |
| Motorcycles <u>2</u> / | 16,934 | 12,198 | 2,150 | 722 | 1,864 |
| Trailers and semi-trailers | 22,864 | 12,782 | 4,829 | 2,532 | 2,721 |

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the totals for trucks.

2/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, special tabulation.

Table 18.09-- VEHICLE REGISTRATION, BY TAXATION STATUS, FOR COUNTIES: APRIL 7, 1995

[Excludes motorcycles]

| Taxation status | State total | City and County of Honolulu | County of Hawaii | County of Kauai | County of Maui |
|-----------------------------|-------------|-----------------------------|------------------|-----------------|----------------|
| Total registered | 864,352 | 590,951 | 110,605 | 52,422 | 110,374 |
| Taxable vehicles | 792,289 | 521,974 | 109,472 | 51,675 | 109,168 |
| Exempt vehicles | 72,063 | 68,977 | 1,133 | 747 | 1,206 |
| Federal government | 335 | 323 | 10 | - | 2 |
| State government | 4,673 | 4,673 | - | - | - |
| County government | 5,659 | 3,696 | 540 | 489 | 934 |
| Fire department | 181 | 63 | 92 | - | 26 |
| Police department | 1,438 | 1,109 | 325 | - | 4 |
| Consulates | 57 | 56 | - | - | 1 |
| Disabled veterans | 128 | 95 | 13 | 16 | 4 |
| Military non resident | 59,095 | 58,741 | 98 | 207 | 49 |
| Farm | 443 | 177 | 48 | 34 | 184 |
| Horseless carriage | 54 | 44 | 7 | 1 | 2 |

Source: City and County of Honolulu, Department of Data Systems, April 7, 1995.

Table 18.10-- VEHICLES AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1990

| Vehicles available | State total | Hawaii | Honolulu | Kalawao | Kauai | Maui |
|----------------------|-------------|--------|----------|---------|--------|--------|
| Occupied units | 356,267 | 41,461 | 265,304 | 62 | 16,295 | 33,145 |
| None | 35,159 | 3,100 | 29,406 | 26 | 777 | 1,850 |
| 1 | 128,513 | 14,676 | 98,542 | 6 | 4,573 | 10,716 |
| 2 | 127,011 | 16,154 | 91,032 | 24 | 6,699 | 13,102 |
| 3 | 43,580 | 5,316 | 30,415 | 6 | 2,874 | 4,969 |
| 4 | 15,187 | 1,606 | 10,996 | - | 907 | 1,678 |
| 5 or more | 6,817 | 609 | 4,913 | - | 465 | 830 |

Source: U.S. Bureau of the Census, *1990 Census of Housing, Detailed Housing Characteristics, Hawaii*, 1990 CH-2-13 (August 1993), tables 14 and 67.

Table 18.11-- TRUCK CHARACTERISTICS: 1977 TO 1992

| Vehicular and operational characteristics | 1977 | 1982 | 1987 | 1992 |
|--|-------------|-------------|-------------|-------------|
| Total trucks (1,000) | ... | ... | 160.8 | 280.3 |
| Percent | 100.0 | 100.0 | 100.0 | 100.0 |
| Major use: Personal transportation | 50.0 | 54.3 | 60.5 | 61.7 |
| Body type: Pickup, panel, or mini-van | 85.1 | 89.1 | 91.2 | 93.8 |
| Vehicle size: Light | 89.0 | 92.9 | 94.6 | 95.6 |
| Annual miles: Less than 10,000 | 54.1 | 59.7 | 57.0 | 50.0 |
| Year model: Over 4 years old | 68.1 | 75.8 | 62.1 | 66.8 |
| Vehicle acquisition: Purchased new | 54.6 | 47.3 | 49.6 | 54.3 |
| Truck type: Single-unit, 2 axles | 95.7 | 96.6 | 96.4 | 91.9 |
| Range of operation: Local | 87.3 | 78.2 | 80.2 | 79.3 |
| Fuel type: Diesel and LPG | 4.6 | 3.7 | 5.4 | 4.7 |

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Truck Inventory and Use Survey, Hawaii*, TC92-T-12 (December 1994), tables 1 and 2.

Table 18.12-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1988 TO 1993

| Year | Total | Passenger cars | Motor trucks |
|-------------|--------------|-----------------------|---------------------|
| 1988 | 78,454 | 56,278 | 22,176 |
| 1989 | 84,485 | 59,893 | 24,592 |
| 1990 | 97,754 | 71,950 | 25,804 |
| 1991 | 97,267 | 71,924 | 25,343 |
| 1992 | 78,617 | 55,394 | 23,223 |
| 1993 | 76,216 | 53,943 | 22,273 |

Source: R.L. Polk and Co., cited in American Automobile Manufacturers Association, *AAMA Motor Vehicle Facts and Figures* (annual).

**Table 18.13-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
BY COUNTIES: 1990 TO 1995**

| Year | State total | Honolulu | Maui | Hawaii | Kauai |
|-----------|-------------|----------|--------|--------|--------|
| 1990..... | 102,821 | 57,524 | 19,737 | 14,527 | 11,033 |
| 1991..... | 98,698 | 52,002 | 21,054 | 14,389 | 11,253 |
| 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 |

Source: Hawaii Automobile Dealers Association, *HADA Yearbook* (annual), as corrected.

**Table 18.14-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY
NAMEPLATE: 1993 TO 1995**

| Nameplate ^{1/} | 1993 | | 1994 | | 1995 | |
|-------------------------|------|--------|-------|--------|------|--------|
| | Rank | Units | Ranks | Units | Rank | Units |
| All nameplates .. | ... | 79,168 | ... | 83,093 | ... | 72,526 |
| Ford | 1 | 19,438 | 1 | 20,992 | 1 | 14,178 |
| Chevrolet/Geo | 2 | 7,409 | 2 | 9,057 | 2 | 9,348 |
| Nissan | 4 | 6,989 | 5 | 4,854 | 3 | 7,360 |
| Toyota | 3 | 7,136 | 3 | 7,595 | 4 | 6,572 |
| Honda | 5 | 5,289 | 4 | 5,169 | 5 | 5,103 |
| All others | ... | 32,907 | ... | 35,426 | ... | 29,965 |

^{1/} Shown separately for first five in 1995.

Source: Hawaii Automobile Dealers Association, *HADA Yearbooks* for 1994, 1995, and 1996.

**Table 18.15-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS,
RETAIL AND RENTAL, BY PLACE OF MANUFACTURE: 1994 AND 1995**

| Year and place of manufacture | Cars and trucks | Cars | | | Trucks (all retail) |
|-------------------------------|-----------------|--------|--------|--------|---------------------|
| | | Total | Retail | Rental | |
| 1994, total | 83,093 | 76,848 | 37,930 | 38,918 | 6,245 |
| Domestic | 52,283 | 48,003 | 16,150 | 31,853 | 4,280 |
| Imports | 30,810 | 28,845 | 21,780 | 7,065 | 1,965 |
| Percent imports | 37.1 | 37.5 | 57.4 | 18.2 | 31.5 |
| 1995, total | 72,526 | 65,994 | 34,551 | 31,443 | 6,532 |
| Domestic | 45,964 | 41,416 | 15,343 | 26,073 | 4,548 |
| Imports | 26,562 | 24,578 | 19,208 | 5,370 | 1,984 |
| Percent imports | 36.6 | 37.2 | 55.6 | 17.1 | 30.4 |

Source: Hawaii Automobile Dealers Association, *HADA 1996*, p. 6.

**Table 18.16-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES:
1989 TO 1994**

[As of December 31]

| Year | State total | City and County of Honolulu | County of Hawaii | County of Kauai | County of Maui |
|-----------|-------------|-----------------------------|------------------|-----------------|----------------|
| 1989..... | 657,156 | 478,078 | 78,448 | 34,963 | 65,667 |
| 1990..... | 677,626 | 488,119 | 82,730 | 37,026 | 69,751 |
| 1991..... | 699,664 | 501,260 | 86,181 | 38,894 | 73,329 |
| 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 |

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

**Table 18.17-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE
AND SEX: DECEMBER 31, 1994**

| Age | Both sexes | Male | Female |
|-------------------------|------------|---------|---------|
| Total | 745,392 | 399,423 | 345,969 |
| 15 to 19 years..... | 38,665 | 20,959 | 17,706 |
| 20 to 24 years..... | 65,951 | 35,348 | 30,603 |
| 25 to 34 years..... | 170,095 | 89,172 | 80,923 |
| 35 to 44 years..... | 179,987 | 93,640 | 86,347 |
| 45 to 54 years..... | 131,177 | 70,344 | 60,833 |
| 55 to 64 years..... | 75,328 | 40,480 | 34,848 |
| 65 to 74 years..... | 60,010 | 33,799 | 26,211 |
| 75 to 84 years..... | 21,942 | 14,039 | 7,903 |
| 85 years and over..... | 2,237 | 1,642 | 595 |
| Median age (years)..... | 40.4 | 40.8 | 40.1 |

Source: Hawaii State Department of Transportation, Motor Vehicle Safety Office, records.

Table 18.18-- VEHICLE DENSITIES: 1970 TO 1994

| Measure | 1970 | 1975 | 1980 | 1985 | 1990 | 1994 |
|-----------------------------------|------|------|------|------|------|------|
| Motor vehicles per -- | | | | | | |
| 1,000 persons ^{1/} | 506 | 532 | 585 | 657 | 707 | 680 |
| Mile of street or highway | 115 | 134 | 158 | 184 | 217 | 213 |
| Persons per ^{1/} -- | | | | | | |
| Motor vehicle | 2.0 | 1.9 | 1.7 | 1.5 | 1.4 | 1.5 |
| Mile of street or highway | 226 | 252 | 270 | 280 | 307 | 314 |

^{1/} Based on DBEDT estimates of de facto population.

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 18.19-- MOTOR VEHICLE-MILES OF TRAVEL PER MILE OF HIGHWAY, 1970 TO 1994, AND BY COUNTIES, 1994

[1,000]

| Year | Vehicle-miles per highway mile | County | Vehicle-miles per highway mile |
|-----------|--------------------------------|-------------------|--------------------------------|
| 1970..... | 966 | State, 1994 | 1,933 |
| 1975..... | 1,108 | | |
| 1980..... | 1,424 | Hawaii | 772 |
| 1985..... | 1,661 | Maui | 1,266 |
| 1990..... | 1,967 | Honolulu..... | 3,550 |
| 1994..... | 1,933 | Kauai | 1,371 |

Source: Calculated from data supplied by Hawaii State Department of Transportation, Highways Division.

Table 18.20-- DRIVING COST, FOR HONOLULU AND SELECTED MAINLAND CITIES: 1995

[Total annual vehicle costs shown are based on a 1995 Ford Taurus GL, 6-cylinder, 4-door sedan driven 15,000 miles per year with a 4-year, 60,000-mile retention cycle. Costs include both ownership expenses of insurance, depreciation, license and registration fees and miscellaneous taxes; and operating expenses of fuel, oil, tires and maintenance]

| City | Rank ^{1/} | Annual cost (dollars) | Cost per mile (cents) |
|---------------------|--------------------|-----------------------|-----------------------|
| Los Angeles..... | 1 | 8,375 | 55.8 |
| San Francisco | 7 | 7,152 | 47.7 |
| Honolulu..... | 8 | 6,832 | 45.5 |
| Phoenix..... | 9 | 6,772 | 45.1 |
| Detroit | 10 | 6,731 | 44.9 |
| Sioux Falls | 80 | 5,368 | 35.8 |

^{1/} Among 80 cities surveyed.

Source: Runzheimer International, cited in *Honolulu Advertiser*, April 4, 1995, p. A1.

**Table 18.21-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES,
1984 TO 1994, AND BY COUNTIES, 1993 AND 1994**

| Year and county | Highway fuel consumption <u>1/</u> | | Vehicle miles of travel | |
|-----------------|------------------------------------|-------------------------------|-------------------------|-----------------------|
| | Total (1,000 gallons) | Gallons per vehicle <u>2/</u> | Total (millions) | Per vehicle <u>2/</u> |
| 1984..... | 339,491 | 473 | 6,486.3 | 9,044 |
| 1985..... | 345,672 | 461 | 6,761.5 | 9,027 |
| 1986..... | 357,716 | 464 | 6,970.7 | 9,034 |
| 1987..... | 367,984 | 461 | 7,217.2 | 9,041 |
| 1988..... | 378,988 | 464 | 7,400.8 | 9,052 |
| 1989..... | 395,945 | 463 | 7,748.1 | 9,062 |
| 1990..... | 395,185 | 444 | 8,065.4 | 9,071 |
| 1991..... | 406,819 | 453 | 8,142.2 | 9,075 |
| 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 |
| COUNTIES: 1993 | | | | |
| Honolulu..... | 273,496 | 456 | 5,296.9 | 8,837 |
| Hawaii..... | 62,088 | 554 | 1,092.0 | 9,742 |
| Kauai..... | 23,641 | 429 | 567.9 | 10,315 |
| Maui..... | 50,715 | 460 | 988.5 | 8,971 |
| COUNTIES: 1994 | | | | |
| Honolulu..... | 284,305 | 476 | 5,274.1 | 8,828 |
| Hawaii..... | 65,234 | 579 | 1,097.3 | 9,736 |
| Kauai..... | 25,086 | 462 | 559.9 | 10,315 |
| Maui..... | 53,933 | 487 | 993.9 | 8,973 |

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 18.22-- TOTAL 24-HOUR TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1992 TO 1994

| Site | 1992 | 1993 | 1994 |
|---|---------|---------|---------|
| Pali Highway at tunnels | 58,384 | 52,720 | 52,626 |
| Likelike Highway at tunnels | 59,678 | 56,497 | 54,170 |
| H-1 Freeway at Manoa-Palolo Drainage Canal <u>1/</u> | 129,811 | 110,852 | 110,356 |
| H-1 Freeway at Kapalama Drainage Canal Bridge | 209,922 | 226,747 | 222,139 |
| Nimitz Highway at Kapalama Drainage Canal Bridge | 76,555 | 80,909 | 77,558 |
| Kalaniana'ole Highway east of Ainakoa Ave. | 73,944 | 77,292 | 77,875 |

1/ Includes Kapiolani on- and off-ramps prior to 1993.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 18.23-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1988 TO 1993

[Average speeds, in miles per hour. Years ended September 30]

| Year | Statewide | Urban interstate | Rural | |
|-----------|----------------|------------------|---------------------|------------------|
| | | | Arterials <u>1/</u> | Major collectors |
| 1988..... | 56.2 | 59.5 | 52.0 | 52.3 |
| 1989..... | 55.7 | 58.2 | 52.4 | 53.1 |
| 1990..... | 56.7 | 58.9 | 53.5 | 54.9 |
| 1991..... | 55.0 | 57.0 | 52.0 | 52.1 |
| 1992..... | 56.2 | 57.8 | 53.4 | 55.5 |
| 1993..... | <u>2/</u> 56.3 | 58.4 | 53.6 | 52.7 |

1/ Other than freeways and expressways.

2/ The corresponding U.S. average was 56.9. Hawaii ranked 39th among the 50 states.

Source: U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics* (annual).

Table 18.24-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, 1984 TO 1994, AND BY COUNTIES, 1992 TO 1994

| Year | Major traffic accidents <u>1/</u> | | Persons injured or killed | |
|----------------|-----------------------------------|-------|---------------------------|--------|
| | Total | Fatal | Injured only | Killed |
| 1984..... | 17,657 | 127 | 12,390 | 136 |
| 1985..... | 19,577 | 118 | 12,613 | 126 |
| 1986..... | 20,854 | 108 | 10,941 | 117 |
| 1987..... | 23,625 | 126 | 11,996 | 138 |
| 1988..... | 26,071 | 129 | 12,818 | 149 |
| 1989..... | 26,891 | 127 | 12,835 | 147 |
| 1990..... | 26,639 | 154 | 14,048 | 176 |
| 1991..... | 21,824 | 119 | 12,792 | 135 |
| 1992..... | 21,834 | 121 | 13,403 | 128 |
| 1993..... | 21,464 | 121 | 13,879 | 133 |
| 1994..... | (NA) | 110 | (NA) | 122 |
| COUNTIES: 1992 | | | | |
| Honolulu..... | 16,617 | 64 | 9,308 | 66 |
| Hawaii..... | 2,932 | 26 | 2,055 | 27 |
| Kauai..... | 784 | 10 | 671 | 10 |
| Maui..... | 1,501 | 21 | 1,369 | 25 |
| COUNTIES: 1993 | | | | |
| Honolulu..... | 16,456 | 71 | 9,803 | 76 |
| Hawaii..... | 2,857 | 29 | 2,165 | 31 |
| Kauai..... | 680 | 6 | 553 | 9 |
| Maui..... | 1,471 | 15 | 1,358 | 17 |
| COUNTIES: 1994 | | | | |
| Honolulu..... | (NA) | 61 | (NA) | 65 |
| Hawaii..... | (NA) | 28 | (NA) | 33 |
| Kauai..... | (NA) | 9 | (NA) | 12 |
| Maui..... | (NA) | 12 | (NA) | 12 |

NA Not available.

1/ Through 1990, includes traffic accidents with damage of \$300 or more or causing injury or death. Effective 1991, includes only accidents with damage of \$1,000 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Motor Vehicle Safety Office, records.

**Table 18.25-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS:
1993 AND 1994**

[As of December 31]

| Island | Taxicabs <u>1/</u> | | Bicycles and mopeds <u>2/</u> | |
|---------------|--------------------|-------|-------------------------------|---------|
| | 1993 | 1994 | 1993 | 1994 |
| Hawaii | 97 | 109 | 6,039 | 5,623 |
| Maui | 178 | 178 | 3,424 | 4,554 |
| Lanai | - | - | 67 | 53 |
| Molokai | 4 | 4 | 106 | 92 |
| Oahu | 1,683 | 1,808 | 100,572 | 106,491 |
| Kauai..... | - | - | <u>3/</u> 1,834 | 2,403 |

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/ 1992 total.

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

**Table 18.26-- U-DRIVE WEEKDAY AVERAGE DAILY RATES, BY SIZE OF
PASSENGER CAR, FOR OAHU: 1989 TO 1995**

[Average rates for nonresidents, including collision damage waiver insurance, reported by Avis, Hertz, National, and Alamo]

| Date | Sub-compact | Compact | Mid-size | Full-size |
|------------------------|-------------|---------|----------|-----------|
| October 18, 1989..... | 37.93 | 38.92 | 43.68 | 48.94 |
| August 13, 1990 | 39.97 | 46.46 | 49.71 | 57.21 |
| August 28, 1991 | 30.62 | 34.19 | 37.44 | 43.19 |
| September 3, 1992..... | 46.49 | 45.96 | 50.71 | 57.96 |
| September 8, 1993..... | 44.73 | 45.99 | 49.49 | 56.99 |
| January 20, 1995..... | 54.23 | 54.98 | 61.23 | 67.23 |

Source: Information provided by listed companies.

**Table 18.27-- AUTOMOTIVE RENTAL AND LEASING WITHOUT DRIVERS
(SIC 751) ESTABLISHMENTS WITH PAYROLL, BY COUNTIES: 1992**

| Subject | State total <u>1/</u> | | Counties (SIC 751) | | | |
|-----------------------------|-----------------------|----------|--------------------|--------|-------|------|
| | SIC 751 | SIC 7514 | Hono-lulu | Hawaii | Kauai | Maui |
| No. of establishments | 82 | 64 | 36 | 18 | 6 | 22 |
| Receipts (mil. dol.) | 332.1 | 320.0 | 195.0 | 38.6 | 23.6 | 74.8 |

1/ Most of the receipts for SIC 751 were reported in SIC 7514, passenger car rental. Other subgroups under SIC 751 were SIC 7513, truck rental and leasing, without drivers; SIC 7515, passenger car leasing; and SIC 7519, utility trailer and recreational vehicle rental.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii, SC92-A-12* (August 1994), tables 1a, 6, and 7a.

**Table 18.28-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES:
SEPTEMBER 1995**

| County | Passenger carriers <u>1/</u> | | | Property carriers <u>2/</u> | |
|-------------------|------------------------------|--------------------|------------------|-----------------------------|--------------------|
| | Number of carriers | Number of vehicles | Seating capacity | Number of carriers | Number of vehicles |
| State total | 1,345 | 8,228 | 223,693 | 5,518 | 31,481 |
| Hawaii | 119 | 1,167 | 36,840 | 1,391 | 4,462 |
| Maui | 219 | 1,786 | 45,926 | 849 | 3,979 |
| Honolulu | 908 | 4,517 | 120,924 | 2,862 | 19,990 |
| Kauai | 99 | 758 | 20,003 | 416 | 2,181 |

1/ Includes mostly tour bus operators; excludes public transit, school buses, taxicabs, and rental car companies.

2/ Includes truckers, moving companies, etc.

Source: Compiled by Hawaii State Department of Transportation, Motor Vehicle Safety Office, from Hawaii State Department of Commerce and Consumer Affairs, Public Utilities Commission.

Table 18.29-- PUBLIC TRANSIT, FOR OAHU: 1984 TO 1994

[Service provided by City and County of Honolulu bus system]

| Year | Number of buses, Dec. 31 | Bus mileage <u>1/</u> | Total passengers <u>2/</u> | Revenues (dollars) |
|-----------|--------------------------|-----------------------|----------------------------|--------------------|
| 1984..... | 440 | 16,774,564 | 76,260,187 | 18,819,782 |
| 1985..... | 440 | 16,938,692 | 74,816,485 | 18,952,566 |
| 1986..... | 459 | 17,065,875 | 74,410,104 | 18,802,330 |
| 1987..... | 460 | 16,733,510 | 74,066,369 | 18,659,459 |
| 1988..... | 470 | 17,124,317 | 74,467,760 | 18,824,046 |
| 1989..... | 475 | 17,525,608 | 74,964,453 | 18,843,083 |
| 1990..... | 475 | 18,080,500 | 75,648,930 | 18,914,500 |
| 1991..... | 475 | 18,308,282 | 76,540,997 | 19,283,803 |
| 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 |

1/ Estimated number of vehicle miles.

2/ Estimated number of passengers, including senior citizens and handicapped.

Source: City and County of Honolulu, Honolulu Public Transit Authority, records.

Table 18.30-- PUBLIC TRANSIT PASSENGERS, BY FARE CATEGORY, AND AVERAGE BUS SPEED, FOR OAHU: 1992 TO 1994

[Calendar year data for City and County of Honolulu bus system]

| Fare category | 1992 | 1993 | 1994 |
|--------------------------------------|------------|------------|------------|
| All passengers..... | 78,416,523 | 79,343,403 | 79,309,437 |
| Adults, full fare..... | 46,773,053 | 47,953,391 | 48,012,829 |
| Students..... | 11,174,889 | 11,074,425 | 11,251,311 |
| School subsidy..... | 201,451 | 235,487 | 263,596 |
| Stadium express..... | 8,365 | 8,608 | 7,428 |
| Senior citizens and handicapped..... | 15,002,787 | 15,356,463 | 15,990,937 |
| Free transfers..... | 5,255,978 | 4,715,029 | 3,783,336 |
| Average bus speed (m.p.h.)..... | 14.8 | 14.8 | 15.0 |

Source: City and County of Honolulu, Honolulu Public Transit Authority, records.

Table 18.31-- BUS FARE CHRONOLOGY, FOR OAHU: 1971 TO 1995

[In dollars]

| Effective date | Cash fares <u>1/</u> | | Monthly passes | |
|------------------------------|----------------------|----------|----------------|--------|
| | Adult | School | Adult | School |
| March 1, 1971 | .25 | .15 | ... | ... |
| March 2, 1971 | .25 | .10 | ... | ... |
| June 9, 1972 <u>2/</u> | .25, .50 | .10, .25 | ... | ... |
| March 15, 1974 | .25 | .10 | ... | ... |
| November 1, 1979..... | .50 | .25 | 15.00 | 7.50 |
| June 18, 1984..... | .60 | .25 | 15.00 | 7.50 |
| October 1, 1993..... | .85 | .25 | 20.00 | 7.50 |
| July 1, 1995 <u>3/</u> | 1.00 | .50 | 25.00 | 12.50 |

1/ In addition, there have been special fares for children, handicapped persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated.

3/ Current fares as of July 14, 1995.

Source: City and County of Honolulu, Public Transit Authority, records.

**Table 18.32-- STEAM RAILROAD MILEAGE AND PASSENGERS:
1984 TO 1994**

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only passenger railroad in the State]

| Calendar year | Miles of track | Passengers | Calendar year | Miles of track | Passengers |
|---------------|----------------|------------|---------------|----------------|------------|
| 1984..... | 6 | 197,876 | 1990..... | 6 | 308,910 |
| 1985..... | 6 | 199,759 | 1991..... | 6 | 316,079 |
| 1986..... | 6 | 215,735 | 1992..... | 6 | 385,261 |
| 1987..... | 6 | 244,555 | 1993..... | 6 | 388,484 |
| 1988..... | 6 | 285,139 | 1994..... | 6 | 390,862 |
| 1989..... | 6 | 296,391 | | | |

Source: Lahaina, Kaanapali and Pacific Rail Road, records.

**Table 18.33-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS:
DECEMBER 31, 1994**

| Island | Airports <u>1/</u> | | | | Heliports <u>2/</u> | |
|------------------|--------------------|------------------|----------|--------------|---------------------|--------------|
| | State <u>3/</u> | | Military | Semi-private | State: commercial | Semi-private |
| | Com-mercial | General aviation | | | | |
| State total..... | 9 | 7 | 6 | - | - | 13 |
| Hawaii..... | 2 | 2 | 1 | - | - | 8 |
| Maui..... | 2 | 1 | - | - | - | - |
| Kahoolawe..... | - | - | - | - | - | - |
| Lanai..... | 1 | - | - | - | - | - |
| Molokai..... | 1 | 1 | - | - | - | - |
| Oahu..... | 1 | 2 | 3 | - | - | 1 |
| Kauai..... | 2 | 1 | 1 | - | - | 2 |
| Niihau..... | - | - | - | - | - | 2 |
| Kure Atoll..... | - | - | 1 | - | - | - |

1/ Excludes private airports (not available).

2/ Excludes military and private heliports (not available).

3/ Three airports classified as general aviation fields (Waimea-Kohala, Hana, and Kalaupapa) provided regular air service.

Source: Hawaii State Department of Transportation, Airports Division, records.

**Table 18.34-- RANK OF HONOLULU INTERNATIONAL AIRPORT IN
OPERATIONS AND ENPLANED PASSENGERS: 1991 TO 1993**

| Subject | Rank <u>1/</u> | | | Number | | |
|--|----------------|------|------|-----------|-----------|-----------|
| | 1991 | 1992 | 1993 | 1991 | 1992 | 1993 |
| Total aircraft operations..... | 16 | 22 | 24 | 403,570 | 403,708 | 358,543 |
| Air carrier operations..... | 21 | 21 | 23 | 196,047 | 202,559 | 185,959 |
| Total enplaned passengers <u>2/</u> .. | 15 | 15 | 19 | 8,772,316 | 8,740,091 | 8,484,364 |

1/ Among all FAA-operated airport traffic control towers in the United States.

2/ For large scheduled certificated air carriers, both scheduled and nonscheduled operations.

Source: U.S. Department of Transportation, Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual).

**Table 18.35-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS:
1984 TO 1994**

[An aircraft operation is an aircraft arrival or departure]

| Year | Honolulu International Airport | Hilo International Airport <u>1/</u> | Kona International Airport <u>2/</u> | Kahului Airport | Lihue Airport | Molokai Airport |
|------------|--------------------------------|--------------------------------------|--------------------------------------|-----------------|---------------|-----------------|
| 1984 | 343,818 | 62,543 | 83,320 | 142,311 | 100,992 | 53,513 |
| 1985 | 357,511 | 61,225 | 93,879 | 157,231 | 131,755 | 56,048 |
| 1986 | 368,049 | 61,514 | 81,467 | 174,560 | 143,905 | 52,268 |
| 1987 | 385,275 | 80,123 | 67,497 | 165,920 | 134,495 | 50,829 |
| 1988 | 377,919 | 85,267 | 56,584 | 173,053 | 122,268 | 50,456 |
| 1989 | 403,635 | 93,202 | 55,674 | 177,803 | 116,742 | 47,208 |
| 1990 | 407,048 | 98,755 | 60,086 | 182,686 | 113,860 | 43,509 |
| 1991 | 403,566 | 88,206 | 56,140 | 180,857 | 112,679 | 47,898 |
| 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 |

1/ Formerly General Lyman Field; new name became effective July 1, 1989.

2/ Formerly Keahole Airport; new name became effective April 26, 1993.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.36-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE-OWNED AIRPORTS: 1994

[An FAA directive dated December 8, 1987, requires all aircraft with 60 seats or less to be designated as air taxis, even if such aircraft are operated by a designated air carrier. This reclassification especially affects the data for Molokai Airport]

| Airport | All movements | Air carrier | Air taxi | General aviation | Military |
|---------------------------|---------------|-------------|----------|------------------|----------|
| Honolulu International... | 359,569 | 193,615 | 56,067 | 87,986 | 21,901 |
| Hilo International | 86,292 | 21,194 | 36,564 | 20,519 | 8,015 |
| Kahului | 179,227 | 56,393 | 85,373 | 33,292 | 4,169 |
| Lihue | 91,582 | 24,133 | 54,199 | 7,674 | 5,576 |
| Kona International | 66,438 | 24,923 | 14,460 | 21,003 | 6,052 |
| Molokai | 38,369 | 1,445 | 25,637 | 8,452 | 2,835 |

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.37-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1992 TO 1995

[As of June 30. Includes both scheduled and nonscheduled service, and also commuter lines and other air taxi service]

| Service | 1992 | 1993 | 1994 | 1995 |
|---------------------------------|------|------|------|------|
| All carriers | 45 | 41 | 46 | 44 |
| Transpacific only | 25 | 24 | 28 | 26 |
| Domestic | 9 | 10 | 11 | 12 |
| Foreign | 16 | 14 | 17 | 14 |
| Transpacific and interisland... | 5 | 5 | 5 | 4 |
| Interisland only | 15 | 12 | 13 | 14 |
| Passenger carriers | 9 | 8 | 9 | 11 |
| Cargo and mail only..... | 6 | 4 | 4 | 3 |

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.38-- ESTIMATED SCHEDULED AIRLINE SEAT CAPACITY FOR ARRIVING FLIGHTS: 1989 TO 1994

| Year | Total | Westbound and southbound | Eastbound and northbound |
|-----------|------------|--------------------------|--------------------------|
| 1989..... | 11,005,765 | 7,241,987 | 3,763,778 |
| 1990..... | 11,779,602 | 7,367,305 | 4,412,297 |
| 1991..... | 11,851,900 | 7,157,210 | 4,694,690 |
| 1992..... | 11,424,600 | 6,362,440 | 5,062,160 |
| 1993..... | 10,752,580 | 5,882,450 | 4,870,130 |
| 1994..... | 9,946,830 | 5,551,880 | 4,394,950 |

Source: Hawaii Visitors Bureau, records.

Table 18.39-- CIVIL FLYING: 1990 TO 1993

| Item | 1990 | 1991 | 1992 | 1993 |
|--|-------|-------|-------|-------|
| Aircraft facilities, Dec. 31..... | 50 | 48 | 47 | 47 |
| Airports | 34 | 33 | 32 | 32 |
| Heliports..... | 16 | 15 | 15 | 15 |
| Public aircraft facilities, Dec. 31 | 16 | 17 | 17 | 18 |
| Paved and lighted facilities, Dec. 31..... | 12 | 12 | 13 | 13 |
| Large aircraft in operation, Dec. | 52 | 56 | 59 | 50 |
| Aloha Airlines..... | 17 | 19 | 21 | 17 |
| Hawaiian Airlines..... | 35 | 29 | 29 | 24 |
| Mid Pacific Airlines..... | - | 8 | 9 | 9 |
| General aviation: <u>1/</u> | | | | |
| Active civil aircraft, Dec. | 561 | 484 | 372 | 312 |
| Hours flown (1,000) | 278 | 259 | 176 | 140 |
| Active personnel, Dec. 31: | | | | |
| Pilots, except instructors | 3,505 | 3,339 | 3,293 | 3,088 |
| Flight instructors..... | 309 | 350 | 388 | 360 |
| Nonpilot airmen <u>2/</u> | 3,306 | 3,492 | 3,711 | 3,828 |

1/ Aircraft based in Hawaii. Data based on small samples with large standard errors (in 1993, 29.8 percent for aircraft and 42.2 percent for hours).

2/ Mechanics, parachute riggers, ground instructors, dispatchers, flight navigators, and flight engineers.

Source: U.S. Department of Transportation, Federal Aviation Administration, *FAA Statistical Handbook of Aviation* (annual).

**Table 18.40-- OVERSEAS AND INTER-ISLAND AIR PASSENGER
MOVEMENTS: 1984 TO 1994**

[Calendar years. Data include both revenue and non-revenue passengers]

| Year | Overseas passengers <u>1/</u> | | | Inter-island passenger arrivals |
|-----------|-------------------------------|------------|-----------|---------------------------------------|
| | Arrivals | Departures | Through | |
| 1984..... | 5,263,213 | 5,261,373 | 727,947 | 7,632,239 |
| 1985..... | 5,317,862 | 5,293,528 | 858,501 | 7,878,598 |
| 1986..... | 6,041,078 | 6,083,508 | 841,241 | 8,340,048 |
| 1987..... | 6,265,211 | 6,317,747 | 1,109,850 | 8,802,594 |
| 1988..... | 6,653,346 | 6,713,621 | 1,421,707 | 8,964,928 |
| 1989..... | 7,022,986 | 7,234,653 | 1,167,954 | 9,634,077 |
| 1990..... | 7,310,635 | 7,562,156 | 1,065,408 | 9,907,154 |
| 1991..... | 7,135,595 | 7,215,323 | 1,020,464 | 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 |

1/ Includes West Coast, Canada, Europe, and the Central and South Pacific.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.41-- PASSENGERS, CARGO, AND MAIL, OVERSEAS AND INTERISLAND, BY AIRPORT: 1994

| Airport | Passengers ^{1/} | | Cargo (tons) | | Mail (tons) | |
|---------------------------------|--------------------------|-----------|--------------|----------|-------------|----------|
| | Enplaned | Deplaned | Enplaned | Deplaned | Enplaned | Deplaned |
| OVERSEAS | | | | | | |
| Total | 7,478,052 | 7,309,894 | 169,543 | 154,480 | 23,961 | 60,981 |
| Honolulu..... | 6,621,058 | 6,387,930 | 157,771 | 144,024 | 23,961 | 60,981 |
| Hilo | - | - | - | - | - | - |
| Kahului..... | 710,174 | 771,304 | 4,533 | 7,016 | - | - |
| Keahole..... | 146,820 | 150,660 | 7,239 | 3,440 | - | - |
| Lihue | - | - | - | - | - | - |
| INTERISLAND | | | | | | |
| Total | 9,920,709 | 9,920,709 | 74,452 | 74,452 | 13,982 | 13,982 |
| Honolulu..... | 4,489,460 | 4,540,602 | 45,857 | 26,487 | 8,800 | 5,162 |
| Hilo | 790,172 | 813,449 | 15,518 | 9,501 | 1,210 | 2,077 |
| Upolu | - | - | - | - | - | - |
| Waimea-Kohala .. | 1,513 | 1,455 | 4 | 8 | - | - |
| Keahole..... | 981,913 | 959,190 | 4,329 | 8,474 | 1,038 | 1,783 |
| Kahului..... | 2,173,862 | 2,119,178 | 5,104 | 18,250 | 1,991 | 3,182 |
| Hana | 6,966 | 6,789 | - | - | - | - |
| Kapalua..... | 95,994 | 92,610 | 253 | 470 | 1 | 35 |
| Molokai | 128,466 | 125,054 | 168 | 381 | 69 | 29 |
| Kalaupapa..... | 7,340 | 6,930 | - | 4 | - | - |
| Lanai | 81,990 | 89,252 | 24 | 668 | 21 | 16 |
| Lihue | 1,146,319 | 1,151,971 | 3,195 | 10,272 | 852 | 1,698 |
| Princeville ^{2/} | 13,714 | 14,229 | - | - | - | - |

^{1/} Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (956,926, passing through Honolulu International Airport).

^{2/} Privately owned.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.42-- AIR CARGO AND AIRMAIL: 1984 TO 1994

[In thousands of pounds]

| Calendar year | Overseas air cargo | | Overseas airmail | | Interisland | |
|---------------|--------------------|----------|------------------|----------|---------------------|-------------------|
| | Outgoing | Incoming | Outgoing | Incoming | Air cargo: incoming | Airmail: incoming |
| 1984..... | 196,215 | 153,654 | 23,356 | 29,497 | 111,472 | 16,282 |
| 1985..... | 180,470 | 150,295 | 21,657 | 22,119 | 101,700 | 16,072 |
| 1986..... | 200,255 | 184,894 | 22,842 | 23,725 | 114,657 | 16,913 |
| 1987..... | 234,098 | 212,717 | 23,560 | 29,004 | 122,481 | 17,561 |
| 1988..... | 284,783 | 247,174 | 27,764 | 31,028 | 130,203 | 18,847 |
| 1989..... | 313,402 | 301,674 | 28,258 | 33,542 | 146,960 | 20,706 |
| 1990..... | 295,326 | 337,724 | 32,022 | 38,198 | 145,418 | 22,848 |
| 1991..... | 306,376 | 342,032 | 33,658 | 44,281 | 144,104 | 23,673 |
| 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 |

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 18.43-- HELICOPTER TOURS: 1977 TO 1994

| Subject | 1977 | 1982 | 1987 | 1991 | 1992 | 1993 | 1994 |
|----------------|------|------|------|------|------|------|------|
| Companies..... | 9 | 14 | 33 | 33 | 31 | 25 | 25 |
| Aircraft..... | 15 | 35 | 72 | 88 | 89 | 87 | 82 |

Source: Hawaii Helicopter Operators Association, records.

Table 18.44-- FLIGHTS SCHEDULED TO DEPART HONOLULU INTERNATIONAL AIRPORT, BY DESTINATION: JULY 1994

[Data for the 652 transpacific flights scheduled to depart from Honolulu during a one-week period]

| Destination | Flights during week | | |
|-------------------------|---------------------|-------------------|--------------------|
| | Total | Final destination | Intermediate point |
| Tokyo | 83 | 64 | 19 |
| Nagoya..... | 14 | 14 | - |
| Osaka..... | 22 | 22 | - |
| Fukuoka | 11 | 11 | - |
| Sapporo | 4 | 4 | - |
| Taipei..... | 19 | 19 | - |
| Seoul..... | 27 | 20 | 7 |
| Manila | 12 | 12 | - |
| Sydney | 11 | 11 | - |
| Auckland | 13 | 13 | - |
| Guam..... | 24 | 19 | 5 |
| Vancouver..... | 9 | 9 | - |
| Toronto..... | 4 | 4 | - |
| Seattle..... | 21 | 14 | 7 |
| San Francisco | 74 | 60 | 14 |
| Los Angeles..... | 153 | 97 | 56 |
| Las Vegas | 9 | 9 | - |
| Denver | 14 | 7 | 7 |
| Dallas/Fort Worth | 28 | 21 | 7 |
| Chicago..... | 35 | 28 | 7 |
| Atlanta..... | 12 | 12 | - |
| New York..... | 7 | 7 | - |
| All others..... | 123 | 91 | 32 |

Source: Greeters of Hawaii, *Jiffisked* [tm] July 1994. Courtesy of Greeters of Hawaii, P. O. Box 29638, Honolulu, HI 96820.

Table 18.45-- AIR FARES BETWEEN HONOLULU AND LOS ANGELES, SAN FRANCISCO, AND SEATTLE, FOR MAJOR AIRLINES: AUGUST 1, 1995

[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 | 921 | 1,156 | 1,266 |
| Coach (unrestricted) | 716 | <u>1/</u> 696 | 736 |
| United Airlines, round-trip: | | | |
| First class | 1,842 | 2,312 | 2,532 |
| Coach (unrestricted) | 1,432 | 1,392 | 1,472 |
| Major carriers, lowest round-trip: <u>2/</u> | | | |
| United Airlines | 479 | 479 | 488 |
| Lowest carrier | 398 | 398 | 398 |
| Highest carrier | 479 | 579 | 579 |

1/ For annual midyear (July 1) data on United Airlines unrestricted one-way coach fares, 1980-1995, see table 7.26, p. 209. 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: International Travel Service, records.

Table 18.46-- ONE-WAY FARES FOR INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES: 1991 TO 1995

[As of July 1. Fares are identical between Honolulu and each of the Neighbor Islands]

| Category | 1991 <u>1/</u> | 1992 | 1993 | 1994 | 1995 |
|--------------------------|----------------|-------|-------|-------|-------|
| Regular fare | 65.95 | 69.95 | 74.00 | 74.00 | 74.00 |
| Kamaaina fare: <u>2/</u> | | | | | |
| Monday - Thursday | 57.95 | 57.95 | 51.00 | 56.00 | 56.00 |
| Friday - Sunday | 57.95 | 57.95 | 59.00 | 64.00 | 64.00 |

1/ For a complete chronology of interisland air fares, 1929 to 1990, see Robert C. Schmitt, *What People Paid to Travel* (Hawaiian Historical Society, January 1991), table 11, pp. 38-39.

2/ Available only to Hawaii residents.

Source: Hawaiian Airlines, records.

Table 18.47-- STATE COMMERCIAL HARBORS: 1995

| Island and harbor | Harbor entrance depth (feet) | Harbor basin | | | Piers (linear feet) | Storage area (1,000 square feet) | | |
|---------------------|------------------------------|--------------|---------------|--------------|---------------------|----------------------------------|-------|-------|
| | | Depth (feet) | Length (feet) | Width (feet) | | Shedded | Open | |
| Hawaii: | | | | | | | | |
| Hilo | 35 | 35 | 2,300 | 1,400 | 2,787 | 122 | 566 | |
| Kawaihae | 40 | 35 | 1,500 | 1,450 | 1,562 | 23 | 427 | |
| Maui: | | | | | | | | |
| Kahului | 35 | 35 | 2,400 | 2,050 | 3,019 | 124 | 850 | |
| Molokai: | | | | | | | | |
| Kaunakakai | 23 | 23 | 1,500 | 600 | 691 | 7.4 | 129 | |
| Oahu: | | | | | | | | |
| Honolulu: | | | | | | | | |
| Main | } 45 | { | 40 | 3,300 | 1,520 | } 28,007 | 1,560 | 8,460 |
| Kapalama | | | 40 | 3,400 | 1,000 | | | |
| Barbers Point | | | 38 | 2,100 | 1,800 | | | |
| Kauai: | | | | | | | | |
| Nawiliwili | 40 | 35 | 1,950 | 1,540 | 1,291 | 109 | 1,150 | |
| Port Allen | 35 | 35 | 1,500 | 1,200 | 1,200 | 35 | 32 | |

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 18.48-- HARBOR DEPTHS: 1993

[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 | 38 | 42 | 38 |
| Nawiliwili | 41 | 34 | 40 | 35 |

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1993*, Part 4 (November 1994), pp. 81-99.

Table 18.49-- SMALL CRAFT MOORING FACILITIES CAPACITY, BY ISLANDS: DECEMBER 31, 1994

| Island | State-operated ^{1/} | | | | Non-State | |
|-------------------|------------------------------|--------|---------------|--------|-----------|-----------------------------|
| | Catwalks and piers | | Other moorage | | Slips | Other moorage ^{2/} |
| | Total | Vacant | Total | Vacant | | |
| State total | 1,740 | 113 | 481 | 40 | 2,748 | 1,747 |
| Hawaii | 251 | 2 | 121 | 2 | - | 375 |
| Maui | 46 | - | 144 | - | - | 50 |
| Lanai | 28 | 3 | 5 | - | - | 10 |
| Molokai | 2 | - | 27 | 2 | - | 50 |
| Oahu | 1,331 | 100 | 154 | 22 | 2,748 | 1,211 |
| Kauai | 82 | 74 | 30 | 8 | - | 51 |

^{1/} 2,068 vessels were moored (1,627 at catwalks and piers, 441 at other moorage), and valid applications on file numbered 2,072.

^{2/} Includes moorings (142), ramps (16), and dry storage (1,589).

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Small Craft Mooring Facilities Utilization Report* (quarterly), and records.

**Table 18.50-- LIGHTHOUSES AND RELATED FACILITIES, BY ISLANDS:
1993**

[Includes all lights, day beacons, buoys, and similar aids to navigation in the Hawaiian Archipelago]

| Island | Number of aids to navigation | | | | Greatest nominal range (naut. miles) | Highest above-- | |
|---------------|------------------------------|---------|-----------------|--------------|--------------------------------------|------------------|---------------|
| | By control | | | Light-houses | | Sea level (feet) | Ground (feet) |
| | Total | Federal | Other <u>1/</u> | | | | |
| Total | 627 | 311 | 316 | 20 | <u>2/</u> 25 | <u>3/</u> 913 | <u>4/</u> 138 |
| Hawaii | 70 | 57 | 13 | 8 | 24 | 156 | 115 |
| Maui | 52 | 22 | 30 | 2 | 24 | 170 | 48 |
| Molokini..... | 1 | 1 | - | - | 7 | 182 | 30 |
| Kahoolawe ... | 1 | 1 | - | - | 7 | 120 | 20 |
| Lanai | 14 | 8 | 6 | - | 8 | 91 | 13 |
| Molokai | 18 | 11 | 7 | 1 | 25 | 213 | 138 |
| Oahu | 324 | 152 | 172 | 5 | 25 | 913 | 71 |
| Kauai..... | 48 | 28 | 20 | 4 | 25 | 174 | 80 |
| Niihau..... | - | - | - | - | - | - | - |
| Lehua | 1 | 1 | - | - | 7 | 704 | 10 |
| Midway..... | 25 | 25 | - | - | 4 | 43 | (NA) |
| At sea..... | 73 | 5 | 68 | - | - | - | - |

NA Not available.

1/ State and private. Includes State-maintained fish aggregating buoys at sea.

2/ Molokai Light, Kaena Point Light, and Kilauea Light.

3/ Kaena Point Light.

4/ Molokai Light.

Source: 14th Coast Guard District, April 15, 1993.

**Table 18.51-- UNDOCUMENTED STATE-REGISTERED VESSELS:
DECEMBER 31, 1994**

| Subject | Number | Subject | Number |
|-------------------------------|--------|--------------------------------|--------|
| Certificates outstanding..... | 13,839 | Type of vessel: | |
| Length: | | Cabin motorboat..... | 2,195 |
| Under 16 feet..... | 5,573 | Open motorboat..... | 5,102 |
| 16 to less than 26 feet..... | 6,732 | Runabout..... | 2,653 |
| 26 to less than 40 feet..... | 1,336 | Sail/inboard..... | 601 |
| 40 to 65 feet..... | 182 | Sail/outboard..... | 564 |
| Over 65 feet..... | 16 | Sail only..... | 789 |
| Median (feet)..... | 18.0 | Motor vessel over 65 feet..... | 9 |
| Hull material: | | Other..... | 1,926 |
| Wood..... | 897 | Uses: | |
| Fiberglass..... | 11,093 | Pleasure..... | 12,305 |
| Metal..... | 520 | Commercial fishing..... | 580 |
| Inflatable..... | 1,122 | Charter fishing..... | 23 |
| Other..... | 207 | Commercial passenger..... | 255 |
| Propulsion: | | Other commercial..... | 76 |
| Inboard..... | 881 | Livery..... | 197 |
| Outboard..... | 8,103 | Dealer or manufacturer..... | 30 |
| Inboard/outboard..... | 1,979 | Youth group..... | 62 |
| Sail/inboard..... | 601 | Government..... | 261 |
| Sail/outboard..... | 564 | Other..... | 50 |
| Sail only..... | 789 | Island kept: | |
| Manual..... | 207 | Hawaii..... | 1,887 |
| Other..... | 715 | Kauai..... | 1,261 |
| Type of storage: | | Lanai..... | 59 |
| On water..... | 2,449 | Maui..... | 1,353 |
| On land..... | 11,390 | Molokai..... | 156 |
| | | Oahu..... | 9,123 |

Source: Hawaii State Department of Land and Natural Resources, Division of Boating and Ocean Recreation, *Report of Undocumented Vessel Registration* (annual).

**Table 18.52-- DOCUMENTED AND NUMBERED VESSELS REGISTERED
IN HAWAII: 1989 TO 1994**

| Category | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Documented <u>1/</u> | 1,600 | 1,700 | 1,775 | (NA) | (NA) | (NA) |
| Numbered <u>2/</u> | 13,501 | 14,081 | 13,592 | 13,973 | 13,832 | 13,839 |

NA Not available.

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. As of June 30 through 1990 and December 4, 1991. Series discontinued after 1991.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered. As of December 31.

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Transportation, *Report of Undocumented Vessel Registration* (annual).

Table 18.53-- BOATING ACCIDENTS: 1989 TO 1994

| Year | Number of accidents | | Number of persons | | Number of vessels involved | Amount of damage (\$1,000) |
|-----------|---------------------|-------|-------------------|----------------------|----------------------------|----------------------------|
| | Total | Fatal | Killed | Injured, not fatally | | |
| 1989..... | 40 | 1 | 1 | 28 | 48 | 216.8 |
| 1990..... | 21 | 2 | 3 | 6 | 25 | 271.7 |
| 1991..... | 19 | 3 | 5 | 14 | 19 | 189.5 |
| 1992..... | 19 | (NA) | 3 | 5 | (NA) | 472.4 |
| 1993..... | 19 | 3 | 3 | 4 | 25 | 219.4 |
| 1994..... | 25 | 3 | 4 | 9 | 28 | 256.9 |

NA Not available.

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics* (annual); Hawaii State Department of Transportation, Harbors Division, Boating Branch, *Reportable Boating Accident Statistics for Period 1988 to 1990* and *Recreational Boating Accidents Statistics (Reportable) 1989 to 1991*; Hawaii State Department of Land and Natural Resources, *Recreational Boating Accident Statistics 1991 through 1993*, and records.

Table 18.54-- VESSEL ARRIVALS, BY DRAFT: ANNUALLY, 1990 TO 1993

[Excludes domestic fishing craft]

| Harbor | 1990 | | | 1991 | | |
|--------------------|--------|------------------|------------------|-------|------------------|------------------|
| | Total | 18 feet and less | 19 feet and more | Total | 18 feet and less | 19 feet and more |
| Hilo | 903 | 775 | 128 | 1,143 | 1,003 | 140 |
| Kawaihae | 505 | 492 | 13 | 591 | 579 | 12 |
| Kahului | 1,198 | 1,068 | 130 | 1,439 | 1,276 | 163 |
| Kaunakakai | 407 | 407 | - | 945 | 945 | - |
| Kalaupapa | 1 | 1 | - | 24 | 24 | - |
| Honolulu | 6,111 | 5,402 | 709 | 7,941 | 7,060 | 881 |
| Barbers Point | 709 | 585 | 124 | 806 | 669 | 137 |
| Nawiliwili | 608 | 493 | 115 | 767 | 646 | 121 |
| Port Allen | 97 | (NA) | (NA) | 90 | (NA) | (NA) |
| Harbor | 1992 | | | 1993 | | |
| | Total | 18 feet and less | 19 feet and more | Total | 18 feet and less | 19 feet and more |
| Hilo | 1,166 | 1,025 | 141 | 909 | 879 | 30 |
| Kawaihae | 716 | 705 | 11 | 593 | 591 | 2 |
| Kahului | 1,513 | 1,387 | 126 | 1,257 | 1,233 | 24 |
| Kaunakakai | 1,174 | 1,174 | - | 1,023 | 1,023 | - |
| Kalaupapa | 8 | 8 | - | 4 | 4 | - |
| Honolulu | 10,391 | 8,690 | 1,701 | 7,821 | 6,369 | 1,452 |
| Barbers Point | 953 | 801 | 152 | 844 | 681 | 163 |
| Nawiliwili | 924 | 822 | 102 | 758 | 741 | 17 |
| Port Allen | 186 | 186 | - | 146 | 146 | - |

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual), Part 4.

Table 18.55-- SHIP ARRIVALS AND CARGO TONNAGE AT THE PORT OF HONOLULU: 1983 TO 1994

[Years ended June 30]

| Year | Overseas vessels | | Interisland vessels | |
|-----------|------------------|---------------|---------------------|---------------|
| | Number | Cargo tonnage | Number | Cargo tonnage |
| 1983..... | 1,775 | 4,868,930 | 2,662 | 2,322,957 |
| 1984..... | 1,686 | 4,870,182 | 2,660 | 2,369,863 |
| 1985..... | 1,749 | 5,071,250 | 2,412 | 1,884,925 |
| 1986..... | 1,825 | 5,379,135 | 2,697 | 2,121,858 |
| 1987..... | 2,080 | 5,736,005 | 2,848 | 2,135,235 |
| 1988..... | 2,014 | 6,586,749 | 3,172 | 2,746,776 |
| 1989..... | 2,024 | 6,877,963 | 3,101 | 2,892,709 |
| 1990..... | 2,159 | 7,439,568 | 3,212 | 2,917,984 |
| 1991..... | 2,066 | 6,939,735 | 3,190 | 3,962,085 |
| 1992..... | 2,104 | 8,235,947 | 3,207 | 3,101,050 |
| 1993..... | 1,918 | 7,462,619 | 2,440 | 2,731,645 |
| 1994..... | 1,603 | 6,434,257 | 2,737 | 2,372,971 |

Source: Hawaii State Department of Transportation, Harbors Division, records.

Table 18.56-- OVERSEAS AND INTERISLAND PASSENGER ARRIVALS AND DEPARTURES, FOR HONOLULU HARBOR: 1989 TO 1994

[Fiscal years ended June 30]

| Type of passenger | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|-------------------|--------|--------|--------|--------|--------|--------|
| Overseas: | | | | | | |
| In..... | 15,993 | 9,770 | 17,503 | 15,730 | 14,712 | 14,502 |
| Out..... | 16,716 | 9,084 | 17,812 | 15,766 | 14,942 | 14,502 |
| Interisland: | | | | | | |
| In..... | 78,710 | 67,199 | 67,409 | 72,493 | 61,563 | 68,229 |
| Out..... | 78,711 | 67,199 | 67,409 | 72,493 | 61,563 | 68,229 |

Source: Hawaii State Department of Transportation, Harbors Division, records.

**Table 18.57-- WATERBORNE COMMERCE FOR SPECIFIED HARBORS:
1981 TO 1993**

[1,000 short tons. Excludes cargo carried by Army and Navy vessels and cargo in transit]

| Year | Hilo | Kawaihae | Kahului | Honolulu | Barbers Point | Nawiliwili |
|------------|-------|----------|---------|----------|---------------|------------|
| 1981 | 1,442 | 433 | 1,552 | 8,270 | 5,590 | 907 |
| 1982 | 1,382 | 441 | 1,484 | 7,593 | 5,707 | 808 |
| 1983 | 1,522 | 441 | 1,843 | 8,040 | 7,051 | 1,009 |
| 1984 | 1,571 | 546 | 1,889 | 8,470 | 6,565 | 945 |
| 1985 | 1,319 | 527 | 1,517 | 7,986 | 6,752 | 933 |
| 1986 | 1,199 | 592 | 1,627 | 8,604 | 5,629 | 745 |
| 1987 | 1,366 | 871 | 2,035 | 9,737 | 7,135 | 916 |
| 1988 | 1,456 | 655 | 2,157 | 10,655 | 7,511 | 876 |
| 1989 | 1,569 | 732 | 2,279 | 10,360 | 7,374 | 1,038 |
| 1990 | 1,690 | 887 | 2,409 | 11,341 | 8,034 | 959 |
| 1991 | 1,556 | 745 | 2,434 | 11,208 | 9,002 | 1,005 |
| 1992 | 1,588 | 790 | 2,357 | 11,522 | 8,824 | 1,143 |
| 1993 | 1,469 | 655 | 2,216 | 10,595 | 9,357 | 1,283 |

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States*, Part 4, for 1990, (pp. 82-101) and 1993 (pp. 81-100).

Table 18.58-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1990

[1,000 short tons]

| Category | Hilo | Kawaihae | Kahului | Honolulu | Barbers Point | Nawiliwili |
|---------------------------|-------|----------|---------|----------|---------------|------------|
| All freight traffic | 1,690 | 887 | 2,409 | 11,341 | 8,034 | 959 |
| Foreign, except Canadian: | | | | | | |
| Imports | 15 | 14 | 20 | 681 | 3,825 | 3 |
| Exports | - | 1 | - | 234 | 158 | - |
| Canadian imports | 25 | 38 | 9 | 55 | 32 | 10 |
| Domestic, total..... | 1,650 | 834 | 2,379 | 10,372 | 4,019 | 945 |
| Interisland: | | | | | | |
| Receipts | 1,174 | 465 | 1,682 | 1,603 | 45 | 641 |
| Shipments | 325 | 174 | 402 | 4,075 | 505 | 216 |
| Interstate: | | | | | | |
| Receipts | 44 | 39 | 63 | 3,393 | 3,047 | 16 |
| Shipments | 106 | 156 | 233 | 1,114 | 380 | 72 |
| Internal, total..... | - | - | - | 187 | 42 | - |

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1990*, Part 4 (1994), pp. 82-101, and special tabulation of "coastwise" data.

**Table 18.59-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1990**

[In thousands of short tons. Shown separately for commodities of 300,000 or more tons]

| Port and commodity | Total | Receipts <u>1/</u> | Shipments <u>2/</u> |
|---|--------|--------------------|---------------------|
| Hilo | 1,690 | 1,258 | 431 |
| Petroleum and petroleum products..... | 462 | 462 | - |
| Fabricated metal products..... | 312 | 196 | 117 |
| Food and farm products | 310 | 115 | 195 |
| Kawaihae | 887 | 556 | 331 |
| Food and farm products | 307 | 82 | 225 |
| Kahului..... | 2,409 | 1,774 | 635 |
| Petroleum and petroleum products..... | 446 | 446 | - |
| Fabricated metal products..... | 409 | 288 | 121 |
| Food and farm products | 531 | 173 | 358 |
| Manufactured equipment, machinery and products. | 594 | 447 | 148 |
| Kaunakakai | 160 | (NA) | (NA) |
| Honolulu..... | 11,341 | 5,732 | 5,610 |
| Petroleum and petroleum products..... | 2,381 | 994 | 1,386 |
| Forest products, wood and chips | 322 | 224 | 98 |
| Fabricated metal products..... | 1,305 | 526 | 777 |
| Food and farm products | 2,564 | 1,387 | 1,178 |
| Manufactured equipment, machinery and products. | 2,799 | 1,363 | 1,436 |
| Barbers Point | 8,034 | 6,949 | 1,085 |
| Petroleum and petroleum products..... | 7,871 | 6,786 | 1,085 |
| Nawiliwili | 959 | 660 | 298 |
| Manufactured equipment, machinery and products. | 339 | 262 | 77 |
| Port Allen | 115 | (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. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1990*, Part 4 (1994), pp. 82-101.

Table 18.60-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1991

[1,000 short tons]

| Category | Hilo | Kawaihae | Kahului | Honolulu | Barbers Point | Nawiliwili |
|---------------------------------|-------|----------|---------|----------|---------------|------------|
| All freight traffic | 1,556 | 745 | 2,434 | 11,208 | 9,002 | 1,005 |
| Foreign, except Canadian: | | | | | | |
| Imports | 5 | 7 | 5 | 394 | 4,444 | 2 |
| Exports | - | - | - | 182 | 336 | - |
| Canadian imports: | | | | | | |
| Imports | 18 | 3 | 7 | 29 | - | 6 |
| Exports | - | 2 | - | - | - | - |
| Domestic, total..... | 1,532 | 733 | 2,422 | 10,603 | 4,222 | 997 |
| Coastwise: <u>1/</u> | | | | | | |
| Receipts | 1,203 | 467 | 1,739 | 5,428 | 3,425 | 625 |
| Shipments | 329 | 266 | 683 | 5,055 | 797 | 372 |
| Internal, total <u>2/</u> | - | - | - | 120 | - | - |

1/ Includes interisland and interstate.

2/ Includes intraport.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1991*, Part 4 (March 1995), pp. 87-104.

**Table 18.61-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1991**

[In thousands of short tons. Shown separately for commodities of 300,000 or more tons]

| Port and commodity | Total | Receipts <u>1/</u> | Shipments <u>2/</u> |
|---|--------|--------------------|---------------------|
| Hilo | 1,556 | 1,226 | 329 |
| Petroleum and petroleum products | 488 | 447 | 1 |
| Primary manufactured goods | 354 | 271 | 83 |
| Food and farm products..... | 301 | 143 | 158 |
| Kawaihae | 745 | 477 | 268 |
| Kahului..... | 2,434 | 1,751 | 683 |
| Petroleum and petroleum products | 436 | 436 | 0 |
| Primary manufactured goods | 627 | 483 | 144 |
| Food and farm products..... | 531 | 188 | 343 |
| Manufactured equipment, machinery and products | 566 | 380 | 187 |
| Kaunakakai | 175 | (NA) | (NA) |
| Honolulu..... | 11,208 | 5,851 | 5,357 |
| Petroleum and petroleum products | 2,461 | 1,257 | 1,203 |
| Forest products, wood and chips..... | 306 | 235 | 72 |
| Primary manufactured goods..... | 2,381 | 1,174 | 1,208 |
| Food and farm products..... | 2,634 | 1,542 | 1,093 |
| Manufactured equipment, machinery and products..... | 2,720 | 1,360 | 1,360 |
| Barbers Point | 9,002 | 7,869 | 1,133 |
| Petroleum and petroleum products | 8,639 | 7,554 | 1,084 |
| Nawiliwili | 1,005 | 633 | 372 |
| Primary manufactured goods..... | 380 | 236 | 144 |
| Port Allen | 53 | (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. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1991*, Part 4 (March 1995), pp. 87-104.

Table 18.62-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1992

[1,000 short tons]

| Category | Hilo | Kawaihae | Kahului | Honolulu | Barbers Point | Nawiliwili |
|---------------------------------|-------|----------|---------|----------|---------------|------------|
| All freight traffic | 1,588 | 790 | 2,357 | 11,522 | 8,824 | 1,143 |
| Foreign, except Canadian: | | | | | | |
| Imports | 22 | 5 | 78 | 651 | 3,979 | 2 |
| Exports | - | - | - | 144 | 571 | - |
| Canadian imports: | | | | | | |
| Imports | 14 | - | - | 50 | 25 | 6 |
| Exports | - | 3 | 1 | - | - | - |
| Domestic, total..... | 1,553 | 781 | 2,278 | 10,676 | 4,248 | 1,135 |
| Coastwise: <u>1/</u> | | | | | | |
| Receipts | 1,162 | 481 | 1,608 | 5,556 | 3,555 | 778 |
| Shipments | 390 | 300 | 670 | 5,080 | 691 | 357 |
| Internal, total <u>2/</u> | - | - | - | 40 | 2 | - |

1/ Includes interisland and interstate.

2/ Includes intraport.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1991*, Part 4 (April 1995), pp. 84-100.

Table 18.63-- WATERBORNE COMMERCE, BY COMMODITIES, FOR SPECIFIED HARBORS: 1992

[In thousands of short tons. Shown separately for commodities of 300,000 or more tons]

| Port and commodity | Total | Receipts <u>1/</u> | Shipments <u>2/</u> |
|--|--------|--------------------|---------------------|
| Hilo | 1,588 | 1,198 | 390 |
| Petroleum and petroleum products | 436 | 429 | 7 |
| Primary manufactured goods | 349 | 279 | 70 |
| Food and farm products | 383 | 159 | 224 |
| Manufactured equipment, machinery and products | 328 | 247 | 80 |
| Kawaihae | 790 | 486 | 303 |
| Kahului | 2,357 | 1,686 | 671 |
| Petroleum and petroleum products | 392 | 392 | 0 |
| Primary manufactured goods | 593 | 465 | 129 |
| Food and farm products | 576 | 197 | 379 |
| Manufactured equipment, machinery and products | 463 | 316 | 148 |
| Kaunakakai | 242 | (NA) | (NA) |
| Honolulu | 11,522 | 6,257 | 5,264 |
| Petroleum and petroleum products | 2,115 | 1,234 | 881 |
| Forest products, wood and chips | 337 | 274 | 63 |
| Soil, sand, gravel, rock and stone | 315 | 25 | 290 |
| Primary manufactured goods | 2,354 | 1,136 | 1,219 |
| Food and farm products | 2,995 | 1,745 | 1,249 |
| Manufactured equipment, machinery and products | 2,898 | 1,536 | 1,361 |
| Barbers Point | 8,824 | 7,559 | 1,264 |
| Petroleum and petroleum products | 8,035 | 6,968 | 1,066 |
| Primary manufactured goods | 392 | 321 | 71 |
| Nawiliwili | 1,143 | 786 | 357 |
| Primary manufactured goods | 418 | 297 | 121 |
| Manufactured equipment, machinery and products | 400 | 303 | 98 |
| Port Allen | 11 | (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. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1992*, Part 4 (April 1995), pp. 84-101.

Table 18.64-- WATERBORNE COMMERCE, FOREIGN AND DOMESTIC, FOR SPECIFIED HARBORS: 1993

[1,000 short tons]

| Category | Hilo | Kawaihae | Kahului | Honolulu | Barbers Point | Nawiliwili |
|---------------------------------|-------|----------|---------|----------|---------------|------------|
| All freight traffic | 1,469 | 655 | 2,216 | 10,595 | 9,357 | 1,283 |
| Foreign, except Canadian: | | | | | | |
| Imports | 41 | - | 54 | 244 | 4,468 | 6 |
| Exports | - | - | - | 89 | 511 | - |
| Canadian imports: | | | | | | |
| Imports | 14 | 3 | 9 | 32 | 19 | 7 |
| Exports | 1 | - | 1 | 1 | - | - |
| Domestic, total..... | 1,412 | 652 | 2,152 | 10,228 | 4,359 | 1,271 |
| Coastwise: <u>1/</u> | | | | | | |
| Receipts | 1,075 | 470 | 1,600 | 5,249 | 3,763 | 923 |
| Shipments | 337 | 182 | 553 | 4,901 | 586 | 348 |
| Internal, total <u>2/</u> | - | - | - | 78 | 10 | - |

1/ Includes interisland and interstate.

2/ Includes intraport.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1993*, Part 4 (November 1994), pp. 81-99.

**Table 18.65-- WATERBORNE COMMERCE, BY COMMODITIES, FOR
SPECIFIED HARBORS: 1993**

[In thousands of short tons. Shown separately for commodities of 300,000 or more tons]

| Port and commodity | Total | Receipts <u>1/</u> | Shipments <u>2/</u> |
|---|--------|--------------------|---------------------|
| Hilo | 1,469 | 1,130 | 338 |
| Fabricated metal products | 412 | 338 | 74 |
| Food and farm products | 329 | 145 | 184 |
| Kawaihae | 655 | 473 | 182 |
| Kahului | 2,216 | 1,663 | 554 |
| Petroleum and petroleum products | 325 | 325 | - |
| Fabricated metal products | 620 | 487 | 133 |
| Food and farm products | 473 | 194 | 279 |
| Manufactured equipment, machinery and products. | 432 | 300 | 132 |
| Kaunakakai | 202 | (NA) | (NA) |
| Honolulu | 10,595 | 5,525 | 5,069 |
| Petroleum and petroleum products | 1,282 | 596 | 686 |
| Lumber | 304 | 251 | 53 |
| Fabricated metal products | 2,114 | 585 | 1,530 |
| Food and farm products | 2,708 | 1,746 | 962 |
| Manufactured equipment, machinery and products. | 2,741 | 1,481 | 1,259 |
| Vehicles and parts | 956 | 425 | 532 |
| Barbers Point | 9,357 | 8,250 | 1,107 |
| Petroleum and petroleum products | 8,309 | 7,366 | 944 |
| Nawiliwili | 1,283 | 936 | 348 |
| Fabricated metal products | 543 | 408 | 135 |
| Manufactured equipment, machinery and products. | 391 | 288 | 103 |
| Port Allen | 12 | (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. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1993*, Part 4 (November 1994), pp. 81-100.

**Table 18.66-- TRANSPORTATION, COMMUNICATION, AND UTILITY INDUSTRIES,
WITH AND WITHOUT PAYROLL: 1992**

| SIC code | Kind of business | Number of establishments | | | Revenue (million dollars) | | |
|----------|--|--------------------------|--------------|-----------------|---------------------------|--------------|-----------------|
| | | Total | With payroll | Without payroll | Total | With payroll | Without payroll |
| 41 | Passenger transportation..... | 1,534 | 117 | 1,417 | 205 | 179 | 26 |
| 42 | Motor freight transportation, warehousing | 601 | 312 | 289 | 404 | 393 | 11 |
| 44 | Water transportation..... | 147 | 97 | 50 | 453 | 452 | 1 |
| 45pt. | Air transportation <u>1/</u> | 164 | 113 | 51 | 415 | 412 | 3 |
| 46 | Pipelines, exc. natural gas | - | - | - | - | - | - |
| 47 | Transportation services..... | 1,477 | 626 | 851 | 421 | 401 | 20 |
| 48 | Communications | 311 | 211 | 100 | 926 | 924 | 2 |
| 49 | Electric, gas, sanitary services .. | 90 | 57 | 33 | 946 | 944 | 1 |

1/ Data exclude large, certificated passenger carriers that report to the Office of Airline Statistics.

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities, Nonemployer Statistics Series, Summary, UC92-N-1* (March 1995), table 3.

**Table 18.67-- OCEAN INDUSTRIES REVENUE AND EMPLOYMENT:
1986 AND 1992**

| Industry | Estimated revenue (mil. dol.) | | Estimated employment | |
|--------------------------|-------------------------------|-------|----------------------|--------|
| | 1986 | 1992 | 1986 | 1992 |
| Total..... | 1,838 | 2,894 | 12,261 | 17,969 |
| Aquaculture | 13 | 23 | 423 | 550 |
| Commercial fishing..... | 28 | 62 | 689 | 883 |
| Maritime <u>1/</u> | 1,380 | 2,000 | 4,334 | 5,830 |
| Ocean R & D | 47 | 95 | 1,415 | 2,039 |
| Ocean recreation | 269 | 560 | 2,970 | 5,846 |
| Seafood marketing | 101 | 154 | 2,430 | 2,821 |

1/ Includes cargo carriers, shipbuilding and repair, marine fuels and bunker services, freight handling and forwarding, marine insurance, etc.

Source: Craig D. MacDonald and Howard E. Deese, *The Role of Ocean Industries in the Economy of Hawaii* (DBEDT, 1994), table 1.

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 6, 12, 15, and 22.

There were 4,800 farms in Hawaii in 1994, with a total area of 1.6 million acres. The value of crop sales in 1994 was \$426 million, or about eight percent less than the total for 1984. Livestock sales amounted to \$77 million, or 12 percent less than the 1984 level. Combined crop and livestock sales in 1994 ranged from \$55 million in Kauai County to \$159 million on the Big Island. Major crops were sugar (\$160 million in sales, down 38 percent over the decade), pineapple (\$79 million, or 12 percent below the 1984 total), flowers and nursery products (\$68 million, or 75 percent more than in 1984), vegetables (\$36 million, up 36 percent), and macadamia nuts (\$36 million, up 36 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from \$117 million in 1984 to \$187 million in 1994, or 59 percent. About 660 farms sold \$68 million of flowers and nursery products in 1994, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1994 included cattle and calves (\$20 million in sales), milk (\$32 million), and eggs (\$14 million). In 1994, Hawaii produced 29 percent of the fresh market vegetables consumed locally, 44 percent of the fresh market fruits, eight percent of the beef and veal, 13 percent of the pork, and 80 percent of the eggs.

Aquaculture aggregate value rose from \$11,000 in 1970 to \$9.2 million in 1990 and declined to \$7.5 million in 1993. Shellfish production amounted to 489,000 pounds in 1993, with a value of \$2.5 million.

Statistics on Hawaiian agriculture exclude marijuana and other illicit plants. Authorities confiscated or destroyed marijuana with a potential street value of \$671 million in 1994, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the *United States Census of Agriculture*, most recently published for 1992, the annual report on *Statistics of Hawaiian Agriculture* issued by the Hawaii Agricultural Statistics Service, and data compiled by the Hawaiian Sugar Planters' Association and the Aquaculture Development Program of the Department of Land and Natural Resources. Agricultural data for earlier years are summarized in *Historical Statistics of Hawaii*, Section 13. National statistics appear in Section 23 of the *Statistical Abstract of the United States: 1995*.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1992**

| Item | 1987 | 1992 |
|---|-----------|-----------|
| Farms..... number..... | 4,870 | 5,336 |
| Land in farms acres | 1,721,521 | 1,588,843 |
| Average size of farm..... acres | 353 | 298 |
| Value of land and buildings: | | |
| Average per farm..... dollars..... | 603,435 | 722,189 |
| Average per acre dollars..... | 1,707 | 2,425 |
| Estimated market value of all machinery and equipment: | | |
| Average per farm..... dollars..... | 41,208 | 53,207 |
| Farms by size: | | |
| 1 to 9 acres..... | 2,855 | 3,410 |
| 10 to 49 acres..... | 1,401 | 1,342 |
| 50 to 179 acres..... | 341 | 313 |
| 180 to 499 acres..... | 128 | 133 |
| 500 to 999 acres..... | 31 | 34 |
| 1,000 acres or more..... | 114 | 104 |
| Total cropland | | |
| farms..... | 4,170 | 4,735 |
| acres | 327,396 | 293,371 |
| Harvested cropland..... | | |
| farms..... | 3,837 | 4,472 |
| acres | 152,719 | 136,431 |
| Irrigated land | | |
| farms..... | 1,827 | 2,220 |
| acres | 148,884 | 134,338 |
| Market value of agricultural products | | |
| sold..... \$1,000 | 609,741 | 552,054 |
| Average per farm..... dollars..... | 125,203 | 103,458 |
| Crops, including nursery and | | |
| greenhouse crops..... \$1,000 | 498,317 | 453,410 |
| Livestock, poultry, and their products..... \$1,000 | 111,424 | 98,644 |
| Farms by value of sales: | | |
| Less than \$2,500 | 1,402 | 1,790 |
| \$2,500 to \$4,999..... | 674 | 754 |
| \$5,000 to \$9,999..... | 745 | 715 |
| \$10,000 to \$24,999 | 911 | 863 |
| \$25,000 to \$49,999 | 476 | 484 |
| \$50,000 to \$99,999 | 287 | 291 |
| \$100,000 or more | 375 | 439 |

Continued on next page.

**Table 19.01-- FARMS, LAND IN FARMS, AND SELECTED ITEMS:
1987 AND 1992 -- Con.**

| Item | 1987 | 1992 |
|---|-----------|-----------|
| Total farm production expenses..... \$1,000 | 495,759 | 466,826 |
| Average per farm..... dollars..... | 101,840 | 87,486 |
| Net cash return from agriculture sales for the farm unit | | |
| farms..... | 4,869 | 5,336 |
| \$1,000 | 113,904 | 85,228 |
| Average per farm..... dollars..... | 23,394 | 15,972 |
| Operators by principal occupation: | | |
| Farming | 2,816 | 2,926 |
| Other | 2,054 | 2,410 |
| Operators by days worked off farm: | | |
| Any | 2,728 | 2,864 |
| 200 days or more | 1,476 | 1,487 |
| Livestock and poultry: | | |
| Cattle and calves inventory..... farms..... | 1,003 | 874 |
| number | 211,045 | 191,230 |
| Beef cows | | |
| farms..... | 724 | 655 |
| number | 83,427 | 87,620 |
| Milk cows | | |
| farms..... | 73 | 57 |
| number | 11,836 | 10,816 |
| Cattle and calves sold..... farms..... | 807 | 699 |
| number | 101,315 | 82,788 |
| Hogs and pigs inventory | | |
| farms..... | 372 | 253 |
| number | 47,564 | 28,570 |
| Hogs and pigs sold | | |
| farms..... | 307 | 200 |
| number | 69,019 | 47,831 |
| Sheep and lambs inventory | | |
| farms..... | 42 | 62 |
| number | 21,908 | 22,938 |
| Chicken 3 months old or older inventory..... farms..... | 181 | 177 |
| number | (D) | 935,278 |
| Broilers and other meat-type chickens sold | | |
| farms..... | 12 | 14 |
| number | 2,069,316 | 1,201,331 |

Continued on next page.

Table 19.02-- FARMS AND LAND IN FARMS, FOR COUNTIES: 1992

| Item | Hawaii | Honolulu | Kauai | Maui |
|--|---------|-----------|---------|-----------|
| Farms..... number.... | 3,157 | 892 | 437 | 850 |
| Land in farms acres.... | 926,607 | 91,998 | 214,452 | 355,786 |
| Average size of farm..... acres.... | 294 | 103 | 491 | 419 |
| Value of land and buildings: | | | | |
| Average per farm..... dollars.... | 495,001 | 1,144,965 | 730,246 | 1,118,184 |
| Average per acre dollars.... | 1,686 | 11,101 | 1,488 | 2,671 |
| Estimated market value of all machinery and equipment: | | | | |
| Average per farm..... dollars.... | 28,617 | 51,619 | 109,908 | 117,143 |
| Farms by size: | | | | |
| 1 to 9 acres..... | 1,960 | 696 | 249 | 505 |
| 10 to 49 acres..... | 858 | 136 | 116 | 232 |
| 50 to 179 acres..... | 188 | 28 | 37 | 60 |
| 180 to 499 acres..... | 74 | 17 | 18 | 24 |
| 500 to 999 acres..... | 22 | 5 | 4 | 3 |
| 1,000 acres or more..... | 55 | 10 | 13 | 26 |
| Total cropland farms.... | 2,893 | 764 | 345 | 733 |
| acres.... | 116,068 | 43,587 | (D) | (D) |
| Harvested cropland..... farms.... | 2,752 | 745 | 309 | 666 |
| acres.... | 52,950 | 20,692 | 23,758 | 39,031 |
| Irrigated land farms.... | 842 | 579 | 258 | 541 |
| acres.... | 13,013 | 27,196 | 32,580 | 61,549 |
| Market value of agricultural products sold \$1,000.... | 187,593 | 150,527 | 49,166 | 164,767 |
| Average per farm..... dollars.... | 59,421 | 168,752 | 112,509 | 193,844 |
| Crops, including nursery and greenhouse crops..... \$1,000.... | 158,360 | 98,312 | 43,454 | 153,285 |
| Livestock, poultry, and their products..... \$1,000.... | 29,233 | 52,215 | 5,713 | 11,483 |

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data*, cited in Release 92-A29-HI and related county releases.

Table 19.03-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT: 1980 TO 1994

| Year | Number of farms <u>1/</u> | Farm acreage <u>2/</u> (1,000) | Farm employment <u>3/</u> | | |
|-----------|---------------------------|-----------------------------------|------------------------------|---------------------------------|---------------|
| | | | Self-employed farm operators | Unpaid family members <u>3/</u> | Hired workers |
| 1980..... | 4,300 | 1,970 | 3,400 | 1,100 | 10,550 |
| 1981..... | 4,400 | 1,965 | 3,100 | 900 | 10,500 |
| 1982..... | 4,500 | 1,960 | 2,600 | 1,300 | 13,000 |
| 1983..... | 4,500 | 1,900 | 2,500 | 1,500 | 13,000 |
| 1984..... | 4,600 | 1,850 | 2,200 | 1,300 | 11,800 |
| 1985..... | 4,600 | 1,800 | 2,200 | 1,200 | 10,600 |
| 1986..... | 4,600 | 1,750 | 2,050 | 1,200 | 9,700 |
| 1987..... | 4,650 | 1,720 | 2,600 | 1,100 | 10,700 |
| 1988..... | 4,650 | 1,720 | 2,600 | 1,100 | 10,300 |
| 1989..... | 4,650 | 1,720 | 2,400 | 1,100 | 9,800 |
| 1990..... | 4,700 | 1,680 | 2,500 | 1,000 | 9,600 |
| 1991..... | 4,700 | 1,630 | 3,100 | 1,100 | 9,600 |
| 1992..... | 4,800 | 1,590 | 3,100 | 1,300 | 9,500 |
| 1993..... | 4,800 | 1,590 | 2,800 | 1,100 | 8,700 |
| 1994..... | 4,800 | 1,590 | 2,700 | 1,200 | 8,100 |

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 records.

Table 19.04-- VALUE OF CROP AND LIVESTOCK SALES: 1980 TO 1994

[\$1,000]

| Year | All crops and livestock | Crops | | | | Live-stock |
|--------------------------|-------------------------|-----------|--------------------------|----------------------------|-------------|------------|
| | | All crops | Sugar (unprocessed cane) | Pine-apples (fresh equiv.) | Other crops | |
| 1980..... | 634,101 | 552,877 | 385,100 | 76,596 | 91,181 | 81,224 |
| 1981..... | 489,502 | 401,348 | 207,500 | 89,745 | 104,103 | 88,154 |
| 1982..... | 507,268 | 428,860 | 230,800 | 94,364 | 103,696 | 78,408 |
| 1983..... | 568,414 | 481,926 | 266,900 | 100,376 | 114,650 | 86,488 |
| 1984..... | 550,517 | 463,502 | 256,200 | 89,928 | 117,374 | 87,015 |
| 1985..... | 528,649 | 445,826 | 222,400 | 90,530 | 132,896 | 82,823 |
| 1986..... | 564,717 | 481,312 | 233,800 | 99,720 | 147,792 | 83,405 |
| 1987..... | 557,298 | 469,565 | 218,000 | 99,286 | 152,279 | 87,733 |
| 1988..... | 573,962 | 485,293 | 209,900 | 107,402 | 167,991 | 88,669 |
| 1989..... | 585,048 | 493,261 | 210,300 | 98,310 | 184,651 | 91,787 |
| 1990..... | 595,030 | 506,586 | 213,800 | 106,365 | 186,421 | 88,444 |
| 1991 ^{1/} | 551,382 | 464,139 | 174,900 | 107,775 | 181,464 | 87,243 |
| 1992 ^{1/} | 520,227 | 431,958 | 153,700 | 102,100 | 176,158 | 88,269 |
| 1993 ^{1/} | 506,475 | 421,593 | 163,000 | 79,850 | 178,743 | 84,882 |
| 1994..... | 502,461 | 425,819 | 160,100 | 78,890 | 186,829 | 76,642 |

^{1/} Revised from *Data Book 1993-94*, table 19.3.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual) and records.

Table 19.05-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1984, 1993, AND 1994

| County or island and year | Number of farms <u>1/</u> | Farm acreage (1,000) <u>2/</u> | Farm employment <u>3/</u> | | |
|---------------------------|---------------------------|--------------------------------|------------------------------|---------------------------------|---------------|
| | | | Self-employed farm operators | Unpaid family members <u>4/</u> | Hired workers |
| State total: | | | | | |
| 1984 | 4,600 | 1,850 | 2,200 | 1,300 | 11,800 |
| 1993 | 4,800 | 1,590 | 2,800 | 1,100 | 8,700 |
| 1994 | 4,800 | 1,590 | 2,700 | 1,200 | 8,100 |
| Hawaii County: | | | | | |
| 1984 | 2,650 | 1,075 | 1,500 | 900 | 4,100 |
| 1993 | 2,800 | 929 | 1,800 | 620 | 3,280 |
| 1994 | 2,800 | 929 | 1,700 | 650 | 3,000 |
| Maui County: | | | | | |
| 1984 | 550 | 390 | 300 | 100 | 3,700 |
| 1993 | 700 | 355 | 290 | 110 | 2,060 |
| 1994 | 700 | 355 | 260 | 110 | 1,980 |
| Oahu: | | | | | |
| 1984 | 1,025 | 125 | 400 | 300 | 2,850 |
| 1993 | 900 | 92 | 540 | 290 | 2,280 |
| 1994 | 900 | 92 | 490 | 320 | 2,040 |
| Kauai County: | | | | | |
| 1984 | 375 | 260 | 100 | 50 | 1,400 |
| 1993 | 400 | 214 | 190 | 100 | 1,040 |
| 1994 | 400 | 214 | 210 | 60 | 1,060 |

1/ Based on farm definition of \$1,000 or more of agricultural sales.

2/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

3/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

4/ Working 15 hours or more per week.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.06-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1984, 1993, AND 1994

[\$1,000]

| County or island and year | All crops and livestock | Crops | | | | Live-stock |
|---------------------------|-------------------------|-----------|--------------------------|--|---------------------------|------------|
| | | All crops | Sugar (unprocessed cane) | Pine-apples ^{1/} (fresh equiv.) | Other crops ^{1/} | |
| State total: | | | | | | |
| 1984 | 550,517 | 463,502 | 256,200 | 89,928 | 117,374 | 87,015 |
| 1993 | 506,475 | 421,593 | 163,000 | 79,850 | 178,743 | 84,882 |
| 1994 | 502,461 | 425,819 | 160,100 | 78,890 | 186,829 | 76,642 |
| Hawaii County: | | | | | | |
| 1984 | 185,216 | 161,983 | 94,000 | - | 67,983 | 23,233 |
| 1993 | 166,309 | 140,610 | 39,000 | (Z) | 101,610 | 25,699 |
| 1994 | 159,239 | 138,531 | 35,800 | (Z) | 102,731 | 20,708 |
| Maui County: | | | | | | |
| 1984 | 145,419 | 132,898 | 72,600 | 42,176 | 18,122 | 12,521 |
| 1993 | 131,703 | 118,702 | 62,700 | 24,890 | 31,112 | 13,001 |
| 1994 | 125,913 | 115,187 | 58,500 | 25,150 | 31,537 | 10,726 |
| Oahu: | | | | | | |
| 1984 | 156,328 | 110,270 | 37,200 | 47,752 | 25,318 | 46,058 |
| 1993 | 162,086 | 119,906 | 29,700 | 54,923 | 35,283 | 42,180 |
| 1994 | 162,495 | 121,741 | 30,600 | 53,690 | 37,451 | 40,754 |
| Kauai County: | | | | | | |
| 1984 | 63,554 | 58,351 | 52,400 | (Z) | 5,951 | 5,203 |
| 1993 | 46,377 | 42,375 | 31,600 | (Z) | 10,775 | 4,002 |
| 1994 | 54,814 | 50,360 | 35,200 | (Z) | 15,160 | 4,454 |

Z Less than \$50,000.

^{1/} County data may fail to add exactly to State total.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.07-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1984, 1993, AND 1994

| Subject | 1984 | 1993 | 1994 |
|---|---------|---------|---------|
| Acreeage in crop (1,000 acres): | | | |
| Sugarcane | 188.4 | 132.2 | 121.1 |
| Pineapples (land used for pineapple) | 35.0 | 22.0 | 22.3 |
| Vegetables and melons (harvested acreage) | 5.3 | 5.3 | 5.3 |
| Fruits, excluding pineapples..... | 6.5 | 6.9 | 6.6 |
| Coffee | 2.0 | 7.0 | 6.8 |
| Macadamia nuts | 17.5 | 20.1 | 20.2 |
| All other crops..... | 12.0 | 5.3 | 5.5 |
| Number of crop farms: | | | |
| Sugar..... | 185 | 35 | 24 |
| Pineapples..... | 18 | 20 | 15 |
| Vegetables and melons..... | 677 | 510 | 480 |
| Fruits (excluding pineapples) | 800 | 787 | 836 |
| Coffee | 615 | 580 | 585 |
| Macadamia nuts | 605 | 650 | 650 |
| Taro..... | 137 | 190 | 180 |
| Flowers and nursery products | 670 | 662 | 660 |
| Volume of crop marketings: | | | |
| Sugar, unprocessed cane (1,000 tons) | 8,454 | 5,508 | 5,266 |
| Pineapples, fresh equivalent (1,000 tons) | 600 | 370 | 365 |
| Vegetables and melons (1,000 lb.)..... | 87,350 | 82,880 | 80,350 |
| Fruits, excluding pineapples (1,000 lb.)..... | 99,430 | 93,510 | 96,650 |
| Coffee, parchment (1,000 lb.) | 1,750 | 2,900 | 4,000 |
| Macadamia nuts, in shell (1,000 lb.)..... | 37,700 | 48,500 | 51,500 |
| Taro (1,000 lb.)..... | 6,310 | 6,000 | 6,100 |
| Value of crop sales (\$1,000): | | | |
| Sugar (unprocessed cane) | 256,200 | 163,000 | 160,100 |
| Pineapples (fresh equivalent)..... | 89,928 | 79,850 | 78,890 |
| Vegetables and melons..... | 26,609 | 34,645 | 36,105 |
| Fruits (excluding pineapples) | 13,315 | 22,173 | 23,611 |
| Coffee (parchment)..... | 4,813 | 6,525 | 10,400 |
| Macadamia nuts (in shell) | 26,088 | 32,980 | 35,535 |
| Taro..... | 1,382 | 2,760 | 2,806 |
| Field crops (not estimated separately) | 6,062 | 9,827 | 10,158 |
| Flowers and nursery products | 38,905 | 69,513 | 67,894 |

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.08-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1994

| Subject | Hawaii County | Maui County | Oahu | Kauai County |
|---|---------------|-------------|--------|--------------|
| Acreage in crop (1,000 acres): | | | | |
| Sugarcane | 22.4 | 41.9 | 22.3 | 34.5 |
| Pineapples (land used for pineapple) | (1/) | 10.8 | 11.5 | (1/) |
| Vegetables and melons (harvested acreage) . | 1.7 | 2.6 | 1.0 | (1/) |
| Fruits, excluding pineapples..... | 5.0 | 0.3 | 0.5 | 0.8 |
| Coffee | 1.8 | (D) | - | (D) |
| Macadamia nuts | (D) | (D) | (D) | (D) |
| Miscellaneous crops | 1.6 | 2.0 | 0.8 | 1.1 |
| Number of crop farms: | | | | |
| Sugar..... | 15 | 2 | 2 | 5 |
| Pineapples..... | 6 | 4 | 2 | 3 |
| Vegetables and melons..... | 280 | 80 | 100 | 20 |
| Fruits (excluding pineapples) | 596 | 61 | 120 | 59 |
| Coffee | 575 | (D) | - | (D) |
| Macadamia nuts | 630 | 11 | 2 | 7 |
| Taro..... | 105 | 21 | 4 | 50 |
| Flowers and nursery products | 304 | 102 | 214 | 40 |
| Volume of crop marketings: | | | | |
| Sugar, unprocessed cane (1,000 tons)..... | 1,345 | 1,729 | 1,044 | 1,148 |
| Pineapples, fresh equivalent (1,000 tons) | (2/) | 199 | 166 | (2/) |
| Vegetables and melons (1,000 lb.)..... | 26,565 | 42,935 | 10,580 | 270 |
| Fruits, excluding pineapples (1,000 lb.)..... | 77,830 | 1,860 | 3,730 | 13,230 |
| Coffee, parchment (1,000 lb.) | 1,800 | (D) | - | (D) |
| Macadamia nuts, in shell (1,000 lb.)..... | (D) | (D) | (D) | (D) |
| Taro (1,000 lb.)..... | 1,960 | (D) | (D) | 3,160 |
| Value of crop sales (\$1,000): | | | | |
| Sugar (unprocessed cane) | 35,800 | 58,500 | 30,600 | 35,200 |
| Pineapples (fresh equivalent)..... | (3/) | 25,150 | 53,690 | (3/) |
| Vegetables and melons..... | 13,121 | 15,112 | 7,627 | 245 |
| Fruits (excluding pineapples) | 18,271 | 984 | 1,814 | 2,542 |
| Coffee (parchment)..... | 6,840 | (D) | - | (D) |
| Macadamia nuts (in shell) | (D) | (D) | (D) | (D) |
| Taro..... | 790 | (D) | (D) | 1,514 |
| Field crops (not estimated separately) | 51 | 3,702 | 1,011 | 5,394 |
| Flowers and nursery products | 31,348 | 7,913 | 26,791 | 1,842 |

D Withheld to avoid disclosure of individual operations.

1/ Less than 50 acres.

2/ Less than 500 tons.

3/ Less than \$50,000.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture 1994*.

Table 19.09-- VEGETABLES, MELONS, FRUITS, NUTS, COFFEE, AND TARO: 1994

[Data shown only for crops with sales in excess of \$1,000,000]

| Crop | Acreage harvested ^{1/} | Yield per acre (1,000 lb.) | Production (1,000 lb.) | Farm price (cents per lb.) | Value of sales (\$1,000) |
|----------------------------------|---------------------------------|----------------------------|------------------------|----------------------------|--------------------------|
| Vegetables and melons: | | | | | |
| Chinese cabbage | 400 | 18.8 | 7,500 | 24.0 | 1,800 |
| Head cabbage | 600 | 20.5 | 12,300 | 21.0 | 2,583 |
| Cucumbers | 340 | 10.0 | 3,400 | 45.5 | 1,547 |
| Daikon | 240 | 14.6 | 3,500 | 30.5 | 1,068 |
| Dry onions | 175 | 12.0 | 2,100 | 107.0 | 2,247 |
| Ginger root | 150 | 40.0 | 6,000 | 87.0 | 5,220 |
| Green onions | 180 | 7.2 | 1,300 | 97.5 | 1,268 |
| Green peppers | 200 | 12.5 | 2,500 | 53.0 | 1,325 |
| Sweet potatoes | 260 | 9.2 | 2,400 | 55.0 | 1,320 |
| Tomatoes | 200 | 24.5 | 4,900 | 52.0 | 2,548 |
| Watermelons | 690 | 20.0 | 13,800 | 16.0 | 2,208 |
| Watercress | 35 | ... | 1,300 | 111.0 | 1,443 |
| Fruits: | | | | | |
| Bananas | 930 | 14.7 | 13,700 | 37.0 | 5,069 |
| Guavas | 740 | ... | 17,000 | 14.4 | 2,549 |
| Papayas | 2,200 | 28.2 | 62,000 | 22.3 | 13,831 |
| Macadamia nuts (1994-1995) | 18,500 | 2.8 | 57,000 | 62.3 | 35,535 |
| Coffee (1994-1995) | 4,400 | 0.9 | 4,000 | 260.0 | 10,400 |
| Taro | 490 | ... | 6,100 | 46.0 | 2,806 |

^{1/} Acreage in crop for watercress and taro.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture 1994*.

**Table 19.10-- SUGARCANE ACREAGE, BY TYPE OF IRRIGATION:
1984 TO 1994**

| 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 |

Source: Hawaiian Sugar Planters' Association, records; Alexander & Baldwin, Inc., "Water to the Roots," *Ampersand*, Spring 1987, pp. 3-6.

**Table 19.11-- GOVERNMENT PAYMENTS FOR AGRICULTURE:
1984 TO 1994**

[\$1,000]

| Year | Amount | Year | Amount | Year | Amount |
|-----------|--------|------------|--------|------------|--------|
| 1984..... | 2,675 | 1988 | 465 | 1992 | 734 |
| 1985..... | 1,184 | 1989 | 396 | 1993 | 2,018 |
| 1986..... | 2,810 | 1990 | 657 | 1994 | 700 |
| 1987..... | 344 | 1991 | 730 | | |

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

**Table 19.12-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU,
BY SOURCE: 1991 TO 1993**

[1,000 pounds, net]

| Source | 1991 | 1992 | 1993 |
|--|---------|---------|---------|
| Total arrivals | 291,626 | 298,959 | 306,650 |
| From Hawaii | 86,410 | 80,421 | 83,898 |
| Oahu <u>1/</u> | 26,347 | 24,924 | 20,190 |
| Other islands <u>2/</u> | 60,063 | 55,497 | 62,988 |
| Hawaii <u>2/</u> | 26,853 | 26,407 | 29,643 |
| Maui <u>2/</u> | 15,565 | 14,249 | 15,409 |
| Molokai <u>2/</u> | 17,457 | 14,603 | 17,866 |
| Kauai <u>2/</u> | 188 | 238 | 70 |
| From U.S. Mainland <u>2/</u> | 198,149 | 211,082 | 213,981 |
| From foreign countries <u>2/</u> | 7,067 | 7,456 | 8,771 |

1/ Wholesalers' truck receipts.

2/ Ship and plane arrivals.

Source: Hawaii State Department of Agriculture, Market News Service, *Honolulu Arrivals, Fresh Fruits and Vegetables, 1991* (April 1993), table 1, and records.

**Table 19.13-- LIVESTOCK INVENTORY, 1984 TO 1994, AND BY
GEOGRAPHIC AREAS, 1994**

[In thousands]

| Year and geographic area | All cattle and calves <u>1/</u> | Milk cows <u>1/</u> | Hogs and pigs <u>2/</u> | Chickens (excluding broilers) <u>2/</u> | Bee colon- ies |
|-------------------------------------|--|--------------------------------|------------------------------------|--|-------------------------------|
| 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 | 11 |
| GEOGRAPHIC AREAS: 1994 | | | | | |
| Hawaii County | 122.4 | 1.7 | 2.4 | (D) | (NA) |
| Maui..... | 22.0 | 1.0 | 7.6 | (D) | (NA) |
| Molokai and Lanai ... | 6.4 | - | (<u>3/</u>) | (D) | (NA) |
| Oahu..... | 13.7 | 7.2 | 21.4 | 800 | (NA) |
| Kauai County..... | 10.5 | 0.6 | 3.6 | (D) | (NA) |

NA Not available.

D Withheld to avoid disclosing data for individual operations.

1/ As of January 1 of the following year.

2/ As of December 1.

3/ Combined with Maui.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture (annual)*.

Table 19.14-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1984, 1993, AND 1994

| Subject | 1984 | 1993 ^{1/} | 1994 |
|--|--------|--------------------|--------|
| Number of livestock operations, Dec. 31: | | | |
| Cattle ^{2/} | 850 | 850 | 800 |
| Hogs..... | 650 | 350 | 350 |
| Milk..... | 90 | 60 | 60 |
| Eggs..... | 55 | 55 | 55 |
| Honey..... | 25 | 18 | 21 |
| Volume of livestock marketings: | | | |
| Beef (dressed weight; 1,000 lb.) ^{3/} | 32,116 | 10,924 | 9,296 |
| Pork (dressed weight; 1,000 lb.)..... | 7,878 | 5,849 | 5,855 |
| Milk (million lb.)..... | 146.0 | 138.5 | 136.9 |
| Eggs (million)..... | 209.7 | 210.6 | 195.8 |
| Honey (1,000 lb.)..... | 1,089 | 1,593 | 1,100 |
| Value of livestock sales (\$1,000): | | | |
| Cattle ^{4/} | 28,101 | 26,860 | 19,678 |
| Hogs ^{4/} | 8,088 | 6,293 | 6,120 |
| Milk..... | 29,288 | 32,035 | 31,747 |
| Eggs..... | 15,535 | 15,005 | 14,016 |

^{1/} Revised from *Data Book 1993-94*, table 19.3.

^{2/} Includes beef, dairy, and dairy replacement farms.

^{3/} Includes slaughter cattle, but excludes calves shipped out-of-State.

^{4/} Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.15-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1994

| Subject | Hawaii County | Maui County | Oahu | Kauai County |
|---|---------------|-------------|--------|--------------|
| Number of livestock operations, Dec. 31: | | | | |
| Cattle <u>1/</u> | 410 | 190 | 60 | 140 |
| Hogs..... | 60 | 70 | 160 | 60 |
| Milk..... | 30 | 5 | 15 | 10 |
| Eggs..... | 25 | 7 | 19 | 4 |
| Honey..... | 14 | 4 | - | 3 |
| Volume of livestock marketings: | | | | |
| Beef <u>2/</u> (dressed weight; 1,000 lb.)..... | 4,750 | 2,714 | 983 | 849 |
| Pork (dressed weight; 1,000 lb.)..... | 533 | 1,481 | 3,252 | 589 |
| Milk (million lb.) | (D) | (D) | 97.6 | (D) |
| Eggs (million)..... | (D) | (D) | 164.0 | (D) |
| Honey (1,000 lb.) | (D) | (D) | (D) | (D) |
| Value of livestock sales (\$1,000): | | | | |
| Cattle <u>3/</u> | 13,241 | 4,494 | 728 | 1,215 |
| Hogs <u>3/</u> | 540 | 1,511 | 3,382 | 687 |
| Milk..... | (D) | (D) | 22,571 | (D) |
| Eggs..... | (D) | (D) | 11,578 | (D) |

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle but excludes calves shipped out-of-State.

3/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Statistics Service. *Statistics of Hawaiian Agriculture 1994*.

**Table 19.16-- FLORICULTURE AND NURSERY PRODUCTS, 1992 TO 1994,
AND BY ISLANDS, 1994**

| Island and year | Number of farms | Growing area | | | | | Wholesale value (\$1,000) |
|-----------------------|-----------------|---------------|----------------------------|--|----------------------------|--------------------|---------------------------|
| | | Total (acres) | Greenhouse (1,000 sq. ft.) | Artificial shade structure (1,000 sq. ft.) | Natural shade area (acres) | Open field (acres) | |
| State total: | | | | | | | |
| 1992..... | 686 | 2,497 | 3,880 | 22,025 | 13 | 1,890 | 69,679 |
| 1993..... | 662 | 2,384 | 4,565 | 19,955 | 21 | 1,800 | 69,513 |
| 1994..... | 660 | 2,290 | 3,770 | 21,600 | 18 | 1,690 | 67,894 |
| Islands, 1994: | | | | | | | |
| Hawaii..... | 304 | 1,175 | 2,715 | 16,330 | 18 | 720 | 31,348 |
| Kauai..... | 40 | 106 | 105 | 390 | 0 | 95 | 1,842 |
| Maui/Molokai..... | 102 | 499 | 310 | 505 | 0 | 480 | 7,913 |
| Oahu..... | 214 | 510 | 640 | 4,375 | 0 | 395 | 26,791 |

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary* (June 13, 1995), pp. 8 and 11.

Table 19.17-- OUT-OF-STATE SALES OF FLORICULTURE AND NURSERY PRODUCTS: 1990 TO 1994

[\$1,000. Based on F.O.B. island value. Includes both wholesale and retail sales]

| Type | 1990 | 1991 | 1992 | 1993 | 1994 |
|-------------------------------------|--------|--------|--------|--------|--------|
| Total sales | 37,734 | 40,920 | 41,890 | 40,740 | 36,775 |
| Anthuriums, cut | 11,185 | 10,595 | 11,355 | 11,115 | 10,310 |
| Foliage, potted | 8,525 | 9,595 | 10,015 | 9,655 | 9,090 |
| Other flowers, nursery products.... | 18,024 | 20,730 | 20,520 | 19,970 | 17,375 |

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers and Nursery Products, Annual Summary* (June 13, 1995), p. 13.

**Table 19.18-- FLORICULTURE AND NURSERY PRODUCTS, BY
COMMODITY: 1994**

[Shown for commodities with value of sales over \$650,000 and growers with total sales of
\$10,000 or more]

| Commodity | Number of farms having sales | Number sold | | Value of sales (\$1,000) |
|-----------------------------------|------------------------------|----------------|--------|--------------------------|
| | | Unit | Number | |
| Selected cut flowers: | | | | |
| Anthuriums..... | 61 | 1,000 dozens | 885 | 7,338 |
| Birds of Paradise..... | 28 | 1,000 dozens | 108 | 702 |
| Proteas | 20 | 1,000 stems | 2,042 | 858 |
| Orchids: | | | | |
| Sprays: Dendrobium..... | 49 | 1,000 dozens | 402 | 3,017 |
| Potted: Dendrobiums..... | 50 | 1,000 pots | 667 | 3,922 |
| Lei or individual flowers: | | | | |
| Vanda, Miss Joaquim | 16 | Million blooms | 24.9 | 692 |
| Dendrobiums..... | 30 | Million blooms | 24.6 | 752 |
| Foliage: | | | | |
| Potted, primarily for-- | | | | |
| Indoor or patio use..... | 77 | ... | (NA) | 12,934 |
| Landscape use | 66 | ... | (NA) | 3,982 |
| Unfinished stock..... | 24 | ... | (NA) | 708 |
| Potted flowering plants: | | | | |
| Poinsettias | 29 | 1,000 pots | 231 | 961 |
| Ornamentals and trees | 43 | ... | (NA) | 3,868 |
| Plant rentals | 42 | ... | (NA) | 3,860 |

NA Not available.

Source: Hawaii Agricultural Statistics Service, *Hawaii Flowers & Nursery Products, Annual Summary* (June 13, 1995), pp. 3-7.

**Table 19.19-- MARKET SUPPLY OF SPECIFIED FOODS:
1984, 1993, AND 1994**

| Commodity and year | Total market supply <u>1/</u> | | | Per capita market supply <u>2/</u> | Percent from Hawaii |
|---------------------------------|-------------------------------|-------------|---------|------------------------------------|---------------------|
| | Total | Inship-ment | Hawaii | | |
| Fresh market fruits: | | | | | |
| 1984 | 98,648 | 64,318 | 34,330 | 87.3 | 34.8 |
| 1993 | 210,840 | 107,157 | 103,683 | 166.6 | 49.2 |
| 1994 | 186,564 | 103,586 | 83,058 | 144.9 | 44.5 |
| Fresh market vegetables: | | | | | |
| 1984 | 194,038 | 114,508 | 79,530 | 171.6 | 41.0 |
| 1993 | 226,834 | 155,434 | 71,400 | 179.3 | 31.5 |
| 1994 | 227,890 | 161,935 | 65,955 | 177.0 | 28.9 |
| Beef and veal: <u>3/</u> | | | | | |
| 1984 | 104,388 | 72,272 | 32,116 | 92.3 | 30.8 |
| 1993 | 113,253 | 102,329 | 10,924 | 89.5 | 9.6 |
| 1994 | 115,580 | 106,284 | 9,296 | 89.8 | 8.0 |
| Pork: <u>3/</u> | | | | | |
| 1984 | 37,492 | 29,614 | 7,878 | 33.2 | 21.0 |
| 1993 | 43,026 | 37,177 | 5,849 | 34.0 | 13.6 |
| 1994 | 43,546 | 37,691 | 5,855 | 33.8 | 13.4 |
| Poultry meat: | | | | | |
| 1984 | 37,887 | 29,785 | 8,102 | 33.5 | 21.4 |
| 1993 | 51,193 | (D) | (D) | 40.5 | (D) |
| 1994 | 52,134 | (D) | (D) | 40.5 | (D) |
| Eggs, shell: | | | | | |
| 1984 | 22,285 | 4,810 | 17,475 | 19.7 | 78.4 |
| 1993 | 20,599 | 3,049 | 17,550 | 16.3 | 85.2 |
| 1994 | 20,527 | 4,210 | 16,317 | 15.9 | 79.5 |

D Withheld to avoid disclosing data for individual operations.

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population estimates in table 1.04.

3/ Carcass weight equivalent.

Source: Hawaii Agricultural Statistics Service, *Statistics of Hawaiian Agriculture* (annual).

Table 19.20-- LAND EVALUATION RATING, FOR SIX MAJOR ISLANDS: 1985

[Thousand acres. The Land Evaluation and Site Assessment Commission land evaluation rating is a composite index, scaled from 0 to 100, based on measurements of soil productivity and the suitability of land for agricultural purposes. Data exclude Kahoolawe, Niihau, Lehua, Kaula, and the Northwestern Hawaiian islands]

| Land evaluation rating | Six-island total | Hawaii | Maui | Lanai | Molokai | Oahu | Kauai |
|------------------------|------------------|--------|------|-------|---------|------|-------|
| Total area..... | 4,042 | 2,579 | 466 | 90 | 166 | 386 | 355 |
| 90 to 100 | 66 | - | 17 | 3 | 7 | 39 | - |
| 80 to 89 | 137 | 17 | 39 | 11 | 16 | 33 | 20 |
| 70 to 79 | 189 | 95 | 20 | 20 | 6 | 27 | 40 |
| 60 to 69 | 212 | 125 | 36 | (Z) | 9 | 22 | 20 |
| 50 to 59 | 221 | 113 | 64 | 3 | 10 | 12 | 18 |
| 40 to 49 | 309 | 227 | 40 | 6 | 10 | 18 | 7 |
| 30 to 39 | 605 | 543 | 29 | 1 | 3 | 11 | 17 |
| 20 to 29 | 492 | 282 | 55 | 48 | 50 | 30 | 26 |
| 10 to 19 | 1,813 | 1,176 | 165 | 15 | 55 | 194 | 206 |
| Under 10..... | - | - | - | - | - | - | - |
| Mean rating | 32.8 | 29.8 | 40.8 | 36.7 | 37.6 | 40.1 | 32.9 |

Z Less than 500 acres.

Source: Land Evaluation and Site Assessment Commission, *A Report on the State of Hawaii Land Evaluation and Site Assessment System* (February 1986), Exhibit A.

Table 19.21-- EMPLOYMENT IN AGRICULTURE: 1900 TO 1994

[Data for 1940 and later years include forestry and fisheries]

| Year | Number | Percent of total | Year | Number | Percent of total |
|-----------|--------|------------------|-----------|--------|------------------|
| 1900..... | 55,931 | 62.0 | 1960..... | 15,981 | 7.6 |
| 1910..... | 54,742 | 54.1 | 1970..... | 13,161 | 4.6 |
| 1920..... | 54,803 | 49.0 | 1980..... | 14,560 | 3.5 |
| 1930..... | 61,811 | 40.1 | 1990..... | 16,509 | 3.1 |
| 1940..... | 54,629 | 35.5 | 1994..... | 11,900 | 2.2 |
| 1950..... | 31,806 | 19.0 | | | |

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (1977), pp. 122-124; present volume, tables 12.06, 12.10 and 12.12.

**Table 19.22-- GENERAL EXCISE TAX BASE FOR PRODUCING:
1985 TO 1995**

[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 |
|--------------------|---------|--------------------|---------|--------------------|---------|
| 1985..... | 262,791 | 1989..... | 326,400 | 1993..... | 474,861 |
| 1986..... | 250,954 | 1990..... | 317,337 | 1994..... | 467,174 |
| 1987..... | 274,202 | 1991..... | 301,884 | 1995..... | 457,538 |
| 1988..... | 298,261 | 1992..... | 408,662 | | |

^{1/} Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release, as revised).

Table 19.24-- AQUACULTURE INDUSTRY OPERATIONS: 1970 TO 1993

| Year | Number of operations, Dec. 31 | | Acreage, Dec. 31 | Production (1,000 lb.) | Value (\$1,000) |
|-----------|----------------------------------|--------------------|---------------------|---------------------------|--------------------|
| | Total | Prawn producers | | | |
| 1970..... | 2 | 1 | 193 | 20 | 11 |
| 1971..... | 2 | 1 | 193 | 17 | 17 |
| 1972..... | 2 | 1 | 193 | 18 | 23 |
| 1973..... | 3 | 2 | 203 | 34 | 34 |
| 1974..... | 4 | 3 | 213 | 41 | 136 |
| 1975..... | 10 | 3 | 234 | 82 | 178 |
| 1976..... | 14 | 6 | 235 | 94 | 210 |
| 1977..... | 25 | 13 | 246 | 123 | 281 |
| 1978..... | 25 | 16 | 320 | 178 | 525 |
| 1979..... | 23 | 19 | 493 | 246 | 1,531 |
| 1980..... | 37 | 24 | 575 | 320 | 1,655 |
| 1981..... | 41 | 21 | 547 | 338 | 1,868 |
| 1982..... | 44 | 22 | 643 | 551 | 2,625 |
| 1983..... | 42 | 21 | 496 | 345 | 1,605 |
| 1984..... | 47 | 17 | 474 | 441 | 2,300 |
| 1985..... | 48 | 20 | 465 | 583 | 2,780 |
| 1986..... | 44 | 20 | 444 | 1,015 | 3,549 |
| 1987..... | 45 | 14 | 437 | 1,689 | 6,263 |
| 1988..... | 44 | 12 | 477 | 1,170 | 5,560 |
| 1989..... | 46 | 10 | 479 | 1,264 | 6,835 |
| 1990..... | 53 | 10 | 489 | 1,452 | 9,241 |
| 1991..... | 71 | 12 | 595 | 1,207 | 6,884 |
| 1992..... | 83 | 14 | 615 | 1,272 | 7,134 |
| 1993..... | 90 | 14 | 640 | 1,296 | 7,469 |

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

**Table 19.25-- AQUACULTURE OPERATIONS, ACREAGE, PRODUCTION,
AND VALUE, BY COUNTIES: 1993**

| Subject | State total | Hawaii | Maui | Honolulu | Kauai |
|------------------------------|-------------|---------|-------|----------|-------|
| Number of operations..... | 90 | 28 | 10 | 39 | 13 |
| Prawn producers | 14 | 2 | - | 10 | 2 |
| Acreage (Dec. 31) | 640 | 100 | 20 | 495 | 25 |
| Production (1,000 lb.) | 1,295.8 | 642.7 | 29.0 | 618.4 | 5.7 |
| Shellfish | 489.0 | 104.0 | 21.0 | 360.3 | 3.7 |
| Finfish | 206.0 | 96.7 | 3.0 | 104.3 | 2.0 |
| Algae | 600.8 | 442.0 | 5.0 | 153.8 | (NA) |
| Other <u>1/</u> | (NA) | (NA) | (NA) | (NA) | (NA) |
| Value (\$1,000)..... | 7,468.7 | 4,336.9 | 128.0 | 2,971.0 | 32.8 |
| Shellfish | 2,463.2 | 750.0 | 110.0 | 1,578.4 | 24.8 |
| Finfish | 926.4 | 445.8 | 9.5 | 463.1 | 8.0 |
| Algae | 3,466.5 | 3,140.1 | 8.5 | 317.9 | (NA) |
| Other <u>1/</u> | 612.6 | 1.0 | (NA) | 611.6 | (NA) |

NA Not available.

1/ Nonfood products: ornamental fish, seedstock, other.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Section 20

FORESTRY, FISHERIES, AND MINING

This section presents data on forests and forest reserves, commercial fishing and fish populations, and mining and mineral products.

The most recent available statistics show 1.7 million acres of forest and 700,000 acres of timberland in the State, most of it on the Big Island. Over 46,000 acres had been planted in eucalyptus and other species of trees by mid-1995. Recent surveys of vegetation on three islands show ohia lehua to be the most common type of tree on Oahu and Kauai (with acreages of 38,000 and 109,000, respectively) and kiawe the leading type (at 33,000 acres) on Molokai. Forest and brushland fires burned 37 square miles in fiscal 1995.

The commercial fish catch in fiscal year 1994 amounted to 24 million pounds, with a value of \$58 million to primary producers. *Ahi* (yellowfin and bigeye tuna) and *aku* (skipjack) accounted for 46 percent of the total value. Other important species are swordfish, marlin, *opakapaka*, *mahimahi*, *akule*, and *ono*. Commercial fishermen numbered 4,060. Among Marine Life Conservation Districts, those with the most fish per acre were Kealakekua Bay (5,878), Honolulu Bay (4,343), and Manele-Hulopoe Bays (3,787).

The value of mineral production reached \$137 million in 1994, almost all of it in cement (\$45 million) and crushed stone (\$84 million).

Important sources of data on these subjects are the United States Census of Mineral Industries and reports and records of the U.S. Bureau of Mines and Hawaii State Department of Land and Natural Resources, Aquatic Resources Division and Forestry and Wildlife Division. *Historical Statistics of Hawaii*, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the *Statistical Abstract of the United States: 1995*, Sections 24 and 25.

**Table 20.01-- FOREST AND NATURAL AREA ACREAGE, BY ISLANDS:
JUNE 30, 1995**

| 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 |
| State total..... | 622,339 | 328,742 | 108 | 46,191 | 21 | 122,703 |
| Hawaii | 422,355 | 106,745 | 13 | 17,138 | 9 | 86,135 |
| 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 | 27,728 | 88,817 | 63 | 7,162 | 3 | 1,770 |
| Kauai..... | 82,999 | 73,850 | 7 | 6,249 | 3 | 14,725 |
| Niihau..... | - | - | - | - | - | - |

^{1/} State owned and privately owned lands under surrender agreement in forest reserve system.

^{2/} Private forest land within conservation district. The majority of these lands were previously in the forest reserve system.

^{3/} Includes Waimanu Research Reserve (3,600 acres) and Alakai Wilderness Preserve (9,939 acres).

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

Table 20.02-- WOODLAND ON FARMS, 1982 TO 1992, AND BY COUNTIES, 1992

[Acres]

| Use | 1982 | 1987 | 1992 | | | | |
|--------------------|---------|--------|-------------|--------|--------|----------|-------|
| | | | State total | Hawaii | Maui | Honolulu | Kauai |
| Total..... | 117,270 | 99,135 | 109,391 | 79,319 | (D) | 1,094 | (D) |
| Pastured | 36,550 | 27,517 | 40,909 | 22,606 | (D) | 474 | (D) |
| Not pastured | 80,720 | 71,618 | 68,482 | 56,713 | 10,047 | 620 | 1,102 |

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, *1992 Census of Agriculture, Hawaii*, AC92-A-11 (October 1994), pp. 17 and 156.

Table 20.03-- LAND AREA, BY VEGETATION TYPE AND FOREST RESERVE STATUS, FOR MOLOKAI, OAHU, AND KAUAI: 1986

[In acres. Excludes land in forest plantations]

| Vegetation type | Molokai | | Oahu | | Kauai | |
|-----------------------|---------|----------------|---------|----------------|---------|----------------|
| | Total | Forest reserve | Total | Forest reserve | Total | Forest reserve |
| Total, all types ... | 163,214 | 44,288 | 370,002 | 34,931 | 347,088 | 88,127 |
| Tree type: | | | | | | |
| Ohia lehua | 32,833 | 30,161 | 37,563 | 9,524 | 109,040 | 50,702 |
| Koa | - | - | 28,548 | 6,601 | 13,438 | 6,223 |
| Kukui..... | 4,773 | 4,009 | 2,775 | 617 | 7,634 | 2,029 |
| Kiawe | 33,215 | - | 17,354 | 241 | 10,358 | 116 |
| Eucalyptus | 1,527 | 954 | 1,131 | 411 | 3,157 | 1,288 |
| Guava | 5,918 | 4,200 | 10,287 | 1,421 | 12,143 | 3,099 |
| Other trees..... | 2,673 | 573 | 36,700 | 6,776 | 32,763 | 6,043 |
| Shrub type..... | 16,417 | 1,527 | 33,974 | 2,965 | 36,061 | 7,189 |
| Forb type..... | 191 | - | 11,338 | 2,718 | 4,120 | 2,043 |
| Grassland..... | 38,751 | 764 | 45,102 | 3,261 | 34,168 | 5,198 |
| Cultivated land | 18,325 | - | 55,770 | - | 64,741 | 387 |
| No vegetation..... | 3,819 | - | 822 | - | 6,709 | 3,810 |
| Urban and other | 4,772 | 2,100 | 88,638 | 396 | 12,756 | - |

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, multi-resource inventory reports.

**Table 20.04-- FOREST AND BRUSHLAND FIRES, BY COUNTIES:
1993 TO 1995**

[Years ended June 30]

| County | Number of fires | | | Acres burned | | |
|------------------|-----------------|------|------|--------------|-------|--------|
| | 1993 | 1994 | 1995 | 1993 | 1994 | 1995 |
| State total..... | 118 | 108 | 198 | 4,287 | 5,085 | 23,946 |
| Hawaii..... | 64 | 59 | 86 | 2,148 | 3,533 | 21,635 |
| Maui..... | 15 | 5 | 44 | 225 | 448 | 2,019 |
| Honolulu..... | 36 | 40 | 67 | 1,911 | 1,103 | 292 |
| Kauai..... | 3 | 4 | 1 | 4 | 1 | 0 |

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

Table 20.05-- COMMERCIAL FISHING: 1989 TO 1994

[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 |

^{1/} Represents the total catches of all licensed commercial fishers. Includes both sea and pond catches. Data for 1989-1993 revised from *Data Book 1993-94*, table 20.5.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings for Fiscal Year* (annual), as revised, and records.

Table 20.06-- COMMERCIAL FISH CATCH, BY SPECIES: 1994

[Year ended June 30, 1994]

| Species | Pounds caught | Pounds sold | Value (dollars) |
|------------------------------------|---------------|-------------|-----------------|
| Total catch..... | 24,028,693 | 23,310,535 | 57,999,092 |
| Sea catch, all species..... | 24,000,859 | 23,283,573 | 57,938,896 |
| Tunas..... | 11,212,282 | 10,961,670 | 26,899,020 |
| Aku (Skipjack)..... | 2,747,983 | 2,658,781 | 3,231,826 |
| Ahipalaha..... | 864,047 | 858,860 | 956,804 |
| Bigeye (ahi)..... | 3,812,120 | 3,767,931 | 14,015,363 |
| Yellowfin (ahi)..... | 3,740,866 | 3,634,939 | 8,367,726 |
| Billfishes..... | 8,879,709 | 8,685,390 | 22,505,032 |
| Blue marlin..... | 1,360,439 | 1,244,961 | 1,187,379 |
| Striped marlin..... | 1,025,953 | 989,083 | 1,279,280 |
| Swordfish..... | 6,302,444 | 6,270,797 | 19,839,121 |
| Miscellaneous pelagic species..... | 1,584,197 | 1,480,540 | 3,009,591 |
| Mahimahi..... | 702,053 | 639,122 | 1,491,610 |
| Ono..... | 370,484 | 338,850 | 954,208 |
| Opah..... | 407,702 | 402,792 | 407,402 |
| Deep bottom fishes..... | 802,684 | 766,295 | 2,794,075 |
| Opakapaka..... | 349,597 | 339,507 | 1,324,801 |
| Uku..... | 117,117 | 114,815 | 359,441 |
| Ulaula..... | 111,116 | 107,859 | 595,077 |
| Akule/opelu..... | 821,980 | 786,328 | 1,384,781 |
| Akule..... | 484,450 | 466,894 | 813,516 |
| Opelu..... | 314,633 | 297,204 | 525,582 |
| Jacks..... | 127,262 | 116,382 | 204,581 |
| Inshore fishes..... | 288,890 | 268,079 | 542,233 |
| Sharks..... | 145,558 | 100,034 | 100,117 |
| Lobsters..... | 1,472 | 867 | 5,683 |
| Crabs..... | 49,015 | 45,370 | 175,773 |
| Shrimps..... | 43,415 | 38,488 | 197,533 |
| Seaweeds..... | 7,112 | 6,177 | 34,477 |
| Miscellaneous..... | 37,283 | 27,953 | 86,000 |
| Pond landings, all species..... | 27,834 | 26,962 | 60,196 |

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Year 1993-1994*.

Table 20.07-- COMMERCIAL SEA LANDINGS, BY ISLANDS: 1993 AND 1994

[Years ended June 30]

| Island | Pounds landed | Pounds sold | Value (dollars) |
|------------------------|---------------|-------------|-----------------|
| 1993 | | | |
| State total | 25,185,107 | 24,538,772 | 61,007,332 |
| Hawaii | 3,769,233 | 3,617,773 | 6,222,003 |
| Maui | 436,987 | 343,371 | 897,947 |
| Lanai | 27,282 | 23,828 | 57,488 |
| Molokai | 52,820 | 42,299 | 95,025 |
| Oahu | 20,378,185 | 20,069,661 | 52,726,368 |
| Kauai and Niihau | 520,600 | 441,840 | 1,008,501 |
| 1994 | | | |
| State total | 24,000,859 | 23,283,573 | 57,938,896 |
| Hawaii | 3,692,005 | 3,492,782 | 6,348,052 |
| Maui | 551,010 | 427,490 | 1,025,214 |
| Lanai | 18,387 | 13,892 | 33,949 |
| Molokai | 51,917 | 42,467 | 110,982 |
| Oahu | 19,002,745 | 18,723,718 | 48,979,936 |
| Kauai and Niihau | 684,795 | 583,224 | 1,440,763 |

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii* for fiscal years 1992-1993 and 1993-1994, as revised.

**Table 20.08-- COMMERCIAL SEA LANDINGS, BY FISHING METHOD:
1993 AND 1994**

[Years ended June 30]

| Fishing method | Pounds landed | Pounds sold | Value (dollars) |
|-------------------------|---------------|-------------|-----------------|
| 1993 | | | |
| All methods..... | 25,185,107 | 24,538,772 | 61,007,332 |
| Aku pole and line..... | 1,453,461 | 1,443,408 | 2,119,505 |
| Longline | 16,650,591 | 16,566,096 | 44,734,833 |
| Handline..... | 3,412,024 | 3,328,110 | 7,032,187 |
| Trolling..... | 2,328,895 | 1,979,477 | 3,687,012 |
| Net..... | 1,001,168 | 930,289 | 1,360,824 |
| Trap..... | 227,500 | 203,551 | 1,831,157 |
| All other methods | 111,468 | 87,841 | 241,814 |
| 1994 | | | |
| All methods..... | 24,000,859 | 23,283,573 | 57,938,896 |
| Aku pole and line..... | 2,386,748 | 2,380,001 | 2,765,011 |
| Longline | 14,346,651 | 14,211,286 | 41,120,838 |
| Handline..... | 3,511,625 | 3,407,069 | 7,842,661 |
| Trolling..... | 2,861,204 | 2,436,350 | 4,525,508 |
| Net..... | 687,836 | 665,729 | 1,079,846 |
| Trap..... | 79,027 | 73,884 | 298,262 |
| All other methods | 127,768 | 109,272 | 306,770 |

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Commercial Fish Landings, State of Hawaii--Fiscal Years 1992-1993 and 1993-1994*, as revised.

**Table 20.09-- FISH POPULATIONS AROUND SELECTED SHORELINE
AREAS: YEAR ENDED JUNE 30, 1994**

| Location | Species | Fish per acre | Pounds per acre |
|--|---------|---------------|--------------------|
| Marine Life Conservation Districts: | | | |
| Hanauma Bay, Oahu: | | | |
| Inshore..... | 58 | 3,313 | 2,926 |
| Offshore..... | 71 | 1,537 | 182 |
| Pupukea, Oahu..... | 81 | 1,653 | 238 |
| Waikiki, Oahu..... | 41 | 935 | 79 |
| Molokini Shoal, Maui..... | 89 | 3,541 | 612 |
| Honolua Bay, Maui..... | 74 | 4,343 | 1,930 |
| Manele-Hulopoe Bays, Lanai..... | 91 | 3,787 | 1,109 |
| Kealakekua Bay, Hawaii..... | 67 | 5,878 | 615 |
| Old Kona Airport, Hawaii..... | 37 | 2,868 | 106 |
| Artificial reefs: | | | |
| Maunalua Bay, Oahu (tire modules) | 46 | 3,338 | 327 |
| Waianae, Oahu (tire modules)..... | 51 | 5,853 | 1,191 |
| Keawakapu, Maui..... | 28 | 5,732 | 361 |
| Fisheries Management Areas: | | | |
| Waikiki-Diamond Head, Oahu <u>1/</u> | 62 | 117,579 | 1,039 |
| Red Hill, Hawaii..... | 37 | 9,282 | 200 |
| Other areas: | | | |
| Honaunau Bay..... | 56 | 6,137 | 397 |

1/ Data reflect presence of a large school of gold-spot herring.
Source follows next table.

Table 20.10-- MOST ABUNDANT AND HEAVIEST FISH SPECIES AT SPECIFIED LOCATIONS: YEAR ENDED JUNE 30, 1994

[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): | | | | |
| Mamo (<i>Abudefduf abdominalis</i>)..... | 1 | 421 | 6 | 73 |
| Manini (<i>Acanthurus triostegus</i>) | 2 | 405 | (1/) | (NA) |
| Nenu (<i>Kyphosus</i> sp.) | 3 | 354 | 1 | 1,204 |
| Awa awa (<i>Elops hawaiiensis</i>)..... | (1/) | (NA) | 2 | 697 |
| Pualu (<i>Acanthurus xanthopterus</i>)..... | (1/) | (NA) | 3 | 148 |
| Waikiki MLCD: | | | | |
| Saddle-back wrasse (<i>Thalassoma duperrey</i>)..... | 1 | 192 | 3 | 7 |
| Manini (<i>Acanthurus triostegus</i>) | 2 | 116 | 5 | 5 |
| Parrotfishes (family <i>Scaridae</i>)..... | 3 | 99 | 7 | 4 |
| Humuhumu nukunuku a puaa (<i>Rhinecanthus</i> rectangules)..... | 8 | 35 | 1 | 11 |
| Cornetfish (<i>Fistularia commersoni</i>) | (1/) | (NA) | 2 | 8 |
| Kealakekua Bay MLCD: | | | | |
| Yellow tang (<i>Zebрасoma flarescens</i>)..... | 1 | 997 | 1 | 112 |
| Kole (<i>Ctenochaetus strigosus</i>) | 2 | 940 | 3 | 62 |
| Blackfin damsel (<i>Chromis vanderbilti</i>) | 3 | 813 | (1/) | (NA) |
| Pualu (<i>Acanthurus xanthopterus</i>)..... | (1/) | (NA) | 2 | 71 |

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, 1993 to June 30, 1994.*

Table 20.11 MINERAL INDUSTRIES: 1967 TO 1992

[Excluding mines at manufactures]

| Subject | 1967 | 1972 | 1977 | 1982 | 1987 | 1992 |
|--|------|------|------|------|------|------|
| Number of establishments..... | 12 | 15 | 7 | 12 | 9 | 9 |
| With 20 employees or more..... | 3 | 5 | 2 | 4 | 4 | 4 |
| All employees: | | | | | | |
| Number (1,000) | .2 | .3 | .1 | .2 | .2 | .2 |
| Payroll (million dollars) | 1.6 | 2.4 | 1.9 | 3.8 | 7.4 | 9.6 |
| Production, development, and ex- ploration workers: | | | | | | |
| Number (1,000) | .2 | .2 | .1 | .1 | .2 | .2 |
| Hours (millions)..... | .4 | .4 | .2 | .2 | .4 | .4 |
| Wages (million dollars) | 1.3 | 1.8 | 1.5 | 2.6 | 5.7 | 8.3 |
| Value added by mining (million dollars) | 5.0 | 9.0 | 8.1 | 9.7 | 23.5 | 27.9 |
| Cost of supplies used, purchased machinery installed, etc. (million dollars) | 2.3 | 4.1 | 2.9 | 5.9 | 10.4 | 11.5 |
| Value of shipments and receipts (million dollars) | 5.5 | 11.0 | 9.7 | 12.8 | 31.1 | 34.5 |
| Capital expenditures (million dollars) .. | 1.8 | 2.0 | 1.3 | 2.7 | 2.8 | 4.9 |

Source: U.S. Bureau of the Census, *1982 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC82-a-9 (April 1985), tables 1 and 2a; *1987 Census of Mineral Industries, Geographic Area Series, Pacific States*, MIC87-A-9 (October 1990), Hawaii table 1; and *Census and You*, March 1995, p. 5.

Table 20.12-- NONFUEL MINERAL PRODUCTION: 1992 TO 1994

[Estimated production as measured by mine shipments, sales, or marketable production, including consumption by producers]

| Minerals | 1992 <u>1/</u> | 1993 <u>1/</u> | 1994 <u>2/</u> |
|---------------------------------|----------------|----------------|----------------|
| QUANTITY (1,000 METRIC TONS) | | | |
| Cement: | | | |
| Masonry..... | 7 | 7 | 6 |
| Portland | 520 | 451 | 415 |
| Stone (crushed) <u>3/</u> | 9,525 | 8,456 | 8,700 |
| VALUE (\$1,000) | | | |
| Total <u>3/</u> | 148,857 | 138,704 | 137,401 |
| Cement: | | | |
| Masonry..... | 1,421 | 880 | 764 |
| Portland..... | 53,936 | 48,269 | 44,344 |
| Stone (crushed) <u>3/</u> | 93,500 | 81,412 | 84,000 |
| Other industrial minerals..... | (W) | 8,143 | 8,293 |

W Withheld to avoid disclosing company proprietary data.

1/ Revised.

2/ Preliminary.

3/ Excludes certain stones, to avoid disclosing data for individual firms.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii 1994," *Mineral Industry Surveys* (1995).

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 and 14.

There were 24,700 building permits issued in 1994, with an estimated value of \$2.1 billion. The total included \$849 million for new private residential construction and \$370 million for private nonresidential structures. The value in 1992 of government construction contracts awarded was \$1.2 billion. Construction put in place, as indicated by the contracting tax base, totaled \$3.1 billion in 1995. The value of land conveyed in fiscal 1995 was \$6.5 billion. The construction cost index for Honolulu rose about 50 percent between 1985 and 1995.

The number of housing units in the State increased from 334,000 in 1980 to 390,000 in 1990 and 430,000 in 1995. Owner occupied units numbered 137,000 in 1980 and 181,000 in 1995; the latter total included 14,000 on leased land. Condominium units, first authorized in 1961, numbered 81,000 by 1990, and cooperative units, first built in 1956, totaled 2,800. Government-owned housing, mostly military and low-rent, accounted for 30,000 units as of 1995. The Oahu housing shortage has lessened in recent years; in 1994, the homeowner vacancy rate averaged 1.9 percent, and the rental vacancy rate was 6.9 percent. The median selling price of single-family homes on Oahu during 1995, based on Multiple Listing Service data, was \$349,000; for condominium units it was \$182,000. The median gross monthly rent for Oahu rose from \$271 in 1980 to \$599 in 1990, and the median value of owner occupied single-family units increased from \$118,100 to \$245,300.

The principal sources for these data are the U.S. Bureau of the Census, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Business, Economic Development & Tourism, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four county building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in the Bank of Hawaii's *Construction in Hawaii*, issued annually. Persons interested in figures for earlier periods should consult *Historical Statistics of Hawaii*, Section 15. Mainland statistics appear in Section 25 of *Statistical Abstract of the United States: 1995*.

**Table 21.01-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES:
1984 TO 1994**

| Year | State total | City and County of Honolulu | Hawaii County | Kauai County | Maui County |
|--------------------------------------|---------------------|-----------------------------|---------------|--------------|-------------------|
| NUMBER ISSUED | | | | | |
| 1984..... | 20,582 | 14,404 | 2,834 | 1,437 | 1,907 |
| 1985..... | 23,332 | 16,011 | 2,933 | 1,544 | 2,844 |
| 1986..... | 21,461 | 14,237 | 2,717 | 1,486 | 3,021 |
| 1987..... | 23,929 | 16,197 | 3,175 | 1,595 | 2,962 |
| 1988..... | 24,032 | 14,956 | 3,597 | 1,904 | 3,575 |
| 1989..... | 23,320 | 15,284 | 3,560 | 2,129 | 2,347 |
| 1990..... | 27,689 | 17,123 | 4,720 | 2,312 | 3,534 |
| 1991..... | 25,603 | 15,951 | 4,801 | 1,612 | 3,239 |
| 1992..... | 25,329 | 16,944 | 4,222 | 1,143 | 3,020 |
| 1993..... | 24,842 | 17,277 | 4,145 | 1,385 | 2,035 |
| 1994..... | <u>1/</u> 24,699 | 16,886 | 4,302 | 1,701 | <u>1/</u> 1,810 |
| ESTIMATED VALUE (\$1,000) | | | | | |
| 1984..... | 710,661 | 473,943 | 102,805 | 74,076 | 59,837 |
| 1985..... | 990,879 | 619,689 | 132,735 | 59,522 | 178,933 |
| 1986..... | 1,161,489 | 674,057 | 231,997 | 101,315 | 154,120 |
| 1987..... | 1,268,927 | 836,328 | 146,035 | 109,574 | 176,990 |
| 1988..... | 1,788,983 | 926,901 | 181,929 | 220,245 | 459,909 |
| 1989..... | 1,996,299 | 1,205,519 | 362,220 | 190,907 | 237,653 |
| 1990..... | 2,358,147 | 1,169,286 | 493,788 | 261,157 | 433,916 |
| 1991..... | 2,379,164 | 1,627,325 | 402,789 | 149,741 | 199,309 |
| 1992..... | 2,155,141 | 1,381,420 | 419,600 | 119,997 | 234,124 |
| 1993..... | 1,806,212 | 1,249,882 | 248,236 | 104,917 | 203,177 |
| 1994..... | <u>1/</u> 2,054,430 | 1,423,850 | 270,689 | 165,996 | <u>1/</u> 193,895 |

1/ Preliminary.

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits (annual)*; Hawaii, Kauai, and Maui County departments of public works, records; F.W. Dodge Division, McGraw-Hill Information Systems Co., records.

**Table 21.02-- VALUE OF BUILDING PERMITS, BY TYPE, BY COUNTIES:
1992 TO 1994**

[In thousands of dollars]

| Category | State total | City and County of Honolulu | Hawaii County | Kauai County | Maui County |
|--------------------------------|-------------|-----------------------------|---------------|--------------|-------------|
| 1992 ^{1/} | | | | | |
| Total | 1,728,507 | 1,060,700 | 379,158 | 87,733 | 200,916 |
| Residential | 792,565 | 486,663 | 154,590 | 57,356 | 93,956 |
| Hotel | 113,230 | - | 113,230 | - | - |
| Non-residential | 416,246 | 267,761 | 70,486 | 21,723 | 56,277 |
| Additions and alterations | 406,464 | 306,277 | 40,851 | 8,654 | 50,682 |
| 1993 ^{2/} | | | | | |
| Total | 1,496,485 | 959,042 | 248,236 | 86,032 | 203,177 |
| Residential | 734,720 | 432,030 | 155,523 | 58,975 | 88,191 |
| Hotel | 13 | 13 | - | - | - |
| Non-residential | 306,298 | 202,926 | 43,786 | 13,346 | 46,241 |
| Additions and alterations | 455,454 | 324,071 | 48,928 | 13,710 | 68,745 |
| 1994 ^{3/} | | | | | |
| Total | 1,612,899 | 1,073,264 | 181,059 | 164,681 | 193,894 |
| Residential | 849,252 | 530,123 | 96,611 | 116,973 | 105,544 |
| Hotel | - | - | - | - | - |
| Non-residential | 370,284 | 240,753 | 56,260 | 32,376 | 40,895 |
| Additions and alterations | 393,363 | 302,388 | 28,188 | 15,332 | 47,454 |

^{1/} Excludes Kauai County data from September-December 1992, which were not available.

^{2/} Revised.

^{3/} State and Maui data are preliminary.

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: 1989 TO 1994

[In dollars. Excludes building permits for additions, alterations and repair]

| Type of structure | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 |
|--------------------|---------|---------|---------|---------|---------|---------|
| One-family | 109,519 | 144,090 | 168,666 | 135,278 | 146,639 | 145,044 |
| Two-family | 84,415 | 133,905 | 173,586 | 152,278 | 143,210 | 152,011 |
| Multi-family | 100,462 | 68,363 | 155,223 | 88,251 | 77,506 | 75,413 |

Source: City and County of Honolulu Building Department, "Summary of Building Permits" (annual tabular release).

Table 21.04-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1985 TO 1995

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

| Year <u>1</u> / | Amount | Year <u>1</u> / | Amount | Year <u>1</u> / | Amount |
|-----------------|-----------|-----------------|-----------|-----------------|-----------|
| 1985 | 1,367,733 | 1989 | 3,112,846 | 1993 | 3,803,607 |
| 1986 | 1,808,024 | 1990 | 4,003,650 | 1994 | 3,322,339 |
| 1987 | 2,003,056 | 1991 | 4,334,051 | 1995 | 3,133,510 |
| 1988 | 2,487,571 | 1992 | 4,012,688 | | |

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to income received in the 12-month period ended November 30.

Source: Hawaii State Department of Taxation. "General Excise and Use Tax Base" (annual tabular release).

**Table 21.05-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES
AND SUBDIVIDERS AND DEVELOPERS: 1972 TO 1987**

[Excludes establishments without payroll]

| Subject | 1972 | 1977 | 1982 | 1987 |
|--|---------|---------|---------|---------|
| Number of establishments in business during year | 1,570 | 1,732 | 1,861 | 1,891 |
| Proprietors and working partners | 590 | 530 | 396 | 456 |
| All employees..... | 25,012 | 20,792 | 18,665 | 21,706 |
| Construction workers, average..... | 20,163 | 15,784 | 13,953 | 16,582 |
| Other employees, March..... | 4,949 | 5,032 | 4,711 | 4,861 |
| Payroll (\$1,000,000) | 282.6 | 323.4 | 409.7 | 606.9 |
| Value of business done (\$1,000,000) .. | 1,085.5 | 1,435.2 | 1,853.3 | 2,963.1 |
| Value added (\$1,000,000) | 477.5 | 636.2 | 855.2 | 1,288.7 |

Source: U.S. Bureau of the Census, *1987 Census of Construction Industries, Pacific States*, CC87-A-9 (July 1990), Hawaii table 4.

**Table 21.06-- GENERAL STATISTICS FOR CONSTRUCTION INDUSTRIES
AND SUBDIVIDERS AND DEVELOPERS, BY GEOGRAPHIC AREA: 1987**

[Excludes establishments without payroll]

| Subject | State total | Oahu | Other islands |
|--|-------------|---------|---------------|
| Number of establishments in business during year | 1,891 | 1,284 | 607 |
| All employees, average | 21,706 | 17,851 | 3,855 |
| Payroll, all employees (mil. dol.)..... | 606.9 | 525.2 | 81.7 |
| Value of construction work (mil. dol.) | 2,849.8 | 2,441.6 | 408.2 |
| Net value of construction work (mil. dol.) | 1,958.3 | 1,647.9 | 310.4 |
| Value added (mil. dol.) | 1,288.7 | 1,082.9 | 205.9 |
| Cost of materials, components, supplies, and fuels (mil. dol.) | 759.0 | 635.3 | 123.7 |
| Cost of construction work subcontracted to others (mil. dol.)..... | 891.5 | 793.7 | 97.8 |
| Capital expend. other than land (mil. dol.) | 44.6 | 36.1 | 8.4 |

Source: U.S. Bureau of the Census, *1987 Census of Construction Industries, Pacific States*, CC87-A-9 (July 1990), Hawaii tables 3 and 12.

**Table 21.07-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION
AUTHORIZED BY PERMITS, BY COUNTIES: 1989 TO 1994**

| Category and year authorized | State total | City and County of Honolulu | Other counties | | | |
|------------------------------------|-------------|-----------------------------|----------------|--------|-------|----------------|
| | | | Total | Hawaii | Kauai | Maui <u>1/</u> |
| New 1-family dwellings: | | | | | | |
| 1989 | 6,846 | 2,026 | 4,820 | 2,782 | 856 | 1,182 |
| 1990 | 5,529 | 1,593 | 3,936 | 2,023 | 845 | 1,068 |
| 1991 | 4,634 | 1,202 | 3,432 | 2,309 | 471 | 652 |
| 1992 | 4,477 | 1,803 | 2,674 | 1,501 | 425 | 748 |
| 1993 | 4,586 | 1,913 | 2,673 | 1,539 | 474 | 660 |
| 1994 | 4,419 | 2,439 | 1,980 | 858 | 433 | 689 |
| New duplex units: | | | | | | |
| 1989 | 219 | 124 | 95 | 63 | 12 | 20 |
| 1990 | 260 | 136 | 124 | 50 | 14 | 60 |
| 1991 | 147 | 48 | 99 | 44 | 12 | 43 |
| 1992 | 168 | 96 | 72 | 22 | 30 | 20 |
| 1993 | 136 | 62 | 74 | 26 | 4 | 44 |
| 1994 | 141 | 80 | 61 | 16 | 15 | 30 |
| New apartments: | | | | | | |
| 1989 | 2,618 | 1,852 | 766 | 59 | 5 | 702 |
| 1990 | 2,862 | 1,210 | 1,652 | 580 | 324 | 748 |
| 1991 | 5,031 | 3,473 | 1,558 | 565 | 6 | 987 |
| 1992 | 3,090 | 2,356 | 734 | 449 | 125 | 160 |
| 1993 | 2,576 | 2,146 | 430 | 152 | 110 | 168 |
| 1994 | 2,907 | 2,206 | 701 | 76 | 223 | 402 |
| Units demolished: <u>2/</u> | | | | | | |
| 1989 | 864 | 690 | 174 | 96 | 4 | 74 |
| 1990 | 1,073 | 944 | 129 | 54 | 22 | 53 |
| 1991 | 875 | 779 | 96 | 39 | 6 | 51 |
| 1992 | 728 | 598 | 130 | 55 | 11 | 64 |
| 1993 | 631 | 547 | 84 | 51 | 33 | (NA) |
| 1994 | 643 | 553 | 90 | 67 | 23 | (NA) |

NA Not available.

1/ Preliminary data for 1994.

2/ Excludes units destroyed by fire, volcanic activity, high winds, and other disasters.

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

Table 21.08-- HONOLULU CONSTRUCTION COST INDEXES: 1985 TO 1995

[January 1992=100. Data are annual averages unless otherwise specified. Reindexed in 1992]

| Year | Single-family residence | | | High-rise building | | |
|----------------------|-------------------------|------------------|-----------------|--------------------|------------------|-----------------|
| | All components | Materials prices | Labor <u>1/</u> | All components | Materials prices | Labor <u>1/</u> |
| 1985..... | 76.6 | 76.4 | 77.0 | 76.2 | 76.9 | 75.6 |
| 1986..... | 79.3 | 79.0 | 79.8 | 78.4 | 78.4 | 78.3 |
| 1987..... | 82.1 | 82.0 | 82.2 | 81.0 | 81.3 | 80.5 |
| 1988..... | 86.7 | 88.3 | 84.8 | 84.6 | 86.1 | 83.1 |
| 1989..... | 90.5 | 90.9 | 90.0 | 89.4 | 89.7 | 88.8 |
| 1990..... | 95.1 | 96.2 | 93.9 | 95.4 | 98.0 | 92.9 |
| 1991..... | 98.4 | 99.5 | 97.2 | 99.2 | 101.6 | 97.1 |
| 1992..... | 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 <u>2/</u> | 118.1 | 120.5 | 115.4 | 114.2 | 112.0 | 116.0 |

1/ Wages and benefits.

2/ July data.

Source: First Hawaiian Bank, Research Department, records.

Table 21.09-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1990 TO 1994

| Subject | Calendar years | | | Fiscal years ended June 30 | |
|-----------------------|----------------|----------------|-------|----------------------------|-------|
| | 1990 | 1991 <u>1/</u> | 1992 | 1993 | 1994 |
| Projects..... | 201 | 200 | 204 | 238 | 235 |
| Individual units..... | 4,301 | 3,759 | 2,107 | 2,439 | 3,171 |

1/ Revised from *Data Book 1993-1994*, table 21.9.

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

**Table 21.10-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO
CONDOMINIUM UNITS: 1963 TO 1994**

| Subject | Calendar years | | | | Fiscal years ended June 30 | |
|--------------------|----------------|------|--------------------|------|-------------------------------|------|
| | 1963- 1989 | 1990 | 1991 ^{1/} | 1992 | 1993 | 1994 |
| Projects..... | 460 | 80 | 77 | 107 | 118 | 131 |
| Housing units..... | 12,892 | 545 | 183 | 770 | 759 | 594 |

^{1/} Revised from *Data Book 1993-1994*, table 21.10.

Source: 1963-1980 compiled by Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission; 1981 and later years from Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Real Estate Commission, records.

**Table 21.11-- TIME SHARE PROPERTIES AND UNITS, BY GEOGRAPHIC
AREAS: FEBRUARY 7, 1994**

[Time sharing refers to the use, occupancy, or possession of accommodations among various persons for less than 60 days in any year, for any occupant]

| Subject | State total | Oahu | | Hawaii | Kauai | Maui | Molokai |
|-----------------|----------------|---------|---------------|--------|-------|------|---------|
| | | Waikiki | Other Oahu | | | | |
| Properties..... | 79 | 17 | 3 | 9 | 20 | 29 | 1 |
| Units..... | 4,163 | 1,642 | 182 | 225 | 1,220 | 877 | 17 |

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

**Table 21.12-- TENURE AND CONTROL OF HOUSING UNITS: ANNUALLY,
1980 TO 1995**

[Data include some condominium units occupied or intended for occupancy by nonresidents]

| Year | All housing units <u>1/</u> | Owner occupied units <u>2/</u> | | Renter occupied and vacant units | | |
|-----------|-----------------------------|--------------------------------|-------------|----------------------------------|-------------------|----------------------------|
| | | Land owned | Land leased | Private <u>3/</u> | Federal <u>1/</u> | State and County <u>1/</u> |
| 1980..... | 334,235 | 100,478 | 36,986 | 170,963 | 19,437 | 6,371 |
| 1981..... | 341,764 | 104,677 | 37,413 | 173,644 | 19,427 | 6,603 |
| 1982..... | 346,726 | 106,147 | 37,372 | 177,325 | 19,392 | 6,490 |
| 1983..... | 349,996 | 108,761 | 35,586 | 179,831 | 19,304 | 6,514 |
| 1984..... | 354,484 | 111,767 | 35,545 | 181,034 | 19,294 | 6,844 |
| 1985..... | 358,581 | 114,548 | 35,681 | 182,050 | 19,280 | 7,022 |
| 1986..... | 363,416 | 117,090 | 35,811 | 184,343 | 19,264 | 6,908 |
| 1987..... | 369,425 | 121,019 | 35,959 | 186,109 | 19,265 | 7,073 |
| 1988..... | 375,434 | 126,563 | 33,579 | 188,851 | 19,394 | 7,047 |
| 1989..... | 382,052 | 132,691 | 30,996 | 191,657 | 19,421 | 7,287 |
| 1990..... | 389,810 | 138,520 | 29,047 | 195,601 | 19,245 | 7,397 |
| 1991..... | 398,325 | 141,846 | 26,915 | 202,266 | 19,358 | 7,940 |
| 1992..... | 407,606 | 146,631 | 24,599 | 208,226 | 19,697 | 8,453 |
| 1993..... | 413,830 | 152,147 | 20,393 | 213,140 | (NA) | (NA) |
| 1994..... | 420,748 | 159,527 | 17,308 | 215,763 | (NA) | (NA) |
| 1995..... | 430,417 | 166,953 | 14,037 | 218,981 | 21,069 | 9,377 |

NA Not available.

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions as of January 1. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (in preparation).

**Table 21.13--HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY,
1980 TO 1995**

[As of April 1. Data include some condominium units occupied or intended for occupancy by nonresidents]

| Year | State total | City and County of Honolulu | Other counties | | | |
|------------|-------------|-----------------------------|----------------|--------|--------|----------------|
| | | | Total | Hawaii | Kauai | Maui <u>1/</u> |
| 1980 | 334,235 | 252,038 | 82,197 | 34,215 | 14,828 | 33,154 |
| 1981 | 341,764 | 254,815 | 86,949 | 36,041 | 16,021 | 34,887 |
| 1982 | 346,726 | 256,689 | 90,037 | 37,453 | 16,476 | 36,108 |
| 1983 | 349,996 | 259,149 | 90,847 | 38,264 | 16,044 | 36,539 |
| 1984 | 354,484 | 262,337 | 92,147 | 39,164 | 16,318 | 36,665 |
| 1985 | 358,581 | 265,412 | 93,169 | 40,054 | 16,428 | 36,687 |
| 1986 | 363,416 | 268,551 | 94,865 | 41,006 | 16,556 | 37,303 |
| 1987 | 369,425 | 272,134 | 97,291 | 42,022 | 16,690 | 38,579 |
| 1988 | 375,434 | 275,520 | 99,914 | 43,397 | 16,871 | 39,646 |
| 1989 | 382,052 | 278,191 | 103,861 | 45,520 | 17,173 | 41,168 |
| 1990 | 389,810 | 281,683 | 108,127 | 48,253 | 17,613 | 42,261 |
| 1991 | 398,325 | 284,835 | 113,490 | 50,579 | 18,649 | 44,262 |
| 1992 | 407,606 | 288,805 | 118,801 | 53,421 | 19,439 | 45,941 |
| 1993 | 413,830 | 293,020 | 120,810 | 55,396 | 18,195 | 47,219 |
| 1994 | 420,748 | 296,699 | 124,049 | 57,204 | 18,758 | 48,087 |
| 1995 | 430,417 | 303,653 | 126,764 | 58,143 | 19,470 | 49,151 |

1/ Including Kalawao County.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980 - 1995* (in preparation).

**Table 21.14-- TENURE AND CONTROL OF HOUSING, BY COUNTIES:
1993, 1994, AND 1995**

[Some condominium units occupied by nonresidents are included in these estimates]

| Year and county | All housing units <u>1/</u> | Owner occupied units <u>2/</u> | | Renter occupied and vacant units | | |
|--------------------------------|-----------------------------|--------------------------------|-------------|----------------------------------|-------------------|----------------------------|
| | | Land owned | Land leased | Private <u>3/</u> | Federal <u>1/</u> | State and County <u>1/</u> |
| 1993 | | | | | | |
| State total | 413,830 | 152,147 | 20,393 | 213,140 | 19,697 | 8,453 |
| City & Co. of Hon. | 293,020 | 104,570 | 18,642 | 143,856 | 19,618 | 6,334 |
| County of Hawaii | 55,396 | 23,155 | 645 | 30,420 | 8 | 1,168 |
| County of Kauai..... | 18,195 | 8,697 | 399 | 8,702 | 65 | 332 |
| County of Maui <u>4/</u> | 47,219 | 15,725 | 707 | 30,162 | 6 | 619 |
| 1994 | | | | | | |
| State total | 420,748 | 159,527 | 17,308 | 215,763 | 19,697 | 8,453 |
| City & Co. of Hon. | 296,699 | 109,915 | 15,614 | 145,218 | 19,618 | 6,334 |
| County of Hawaii | 57,204 | 24,121 | 647 | 31,260 | 8 | 1,168 |
| County of Kauai..... | 18,758 | 9,019 | 328 | 9,014 | 65 | 332 |
| County of Maui <u>4/</u> | 48,087 | 16,472 | 719 | 30,271 | 6 | 619 |
| 1995 | | | | | | |
| State total | 430,417 | 166,953 | 14,037 | 218,981, | 21,069 | 9,377 |
| City & Co. of Hon. | 303,653 | 115,217 | 12,279 | 148,110 | 20,977 | 7,070 |
| County of Hawaii | 58,143 | 25,131 | 652 | 31,161 | 8 | 1,191 |
| County of Kauai..... | 19,470 | 9,363 | 388 | 9,204 | 78 | 437 |
| County of Maui <u>4/</u> | 49,151 | 17,242 | 718 | 30,506 | 6 | 679 |

1/ As of April 1. Governmental units for 1993 and 1994 are based on 1992 data.

2/ As of January 1. Based on the number of taxpayers claiming home exemptions, rather than on the census tabulations on tenure.

3/ Calculated as a residual and not attributable to any specific month.

4/ Includes Kalawao County (95 units in 1995).

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (in preparation).

**Table 21.15-- OWNER-OCCUPIED HOUSING UNITS, BY COUNTIES:
1990 TO 1995**

[As of January 1. Based on number of taxpayers claiming home exemptions]

| Tenure and county | 1990 ^{1/} | 1991 | 1992 | 1993 | 1994 | 1995 |
|-----------------------------|--------------------|---------|---------|---------|---------|---------|
| TOTAL OWNER OCCUPIED | | | | | | |
| State total..... | 167,567 | 168,761 | 171,230 | 172,540 | 176,835 | 180,990 |
| Honolulu | 122,802 | 122,555 | 123,082 | 123,212 | 125,529 | 127,496 |
| Maui | 14,951 | 15,398 | 15,970 | 16,432 | 17,191 | 17,960 |
| Hawaii | 21,752 | 22,388 | 23,336 | 23,800 | 24,768 | 25,783 |
| Kauai..... | 8,062 | 8,420 | 8,842 | 9,096 | 9,347 | 9,751 |
| FEE SIMPLE | | | | | | |
| State total..... | 138,520 | 141,846 | 146,631 | 152,147 | 159,527 | 166,953 |
| Honolulu | 96,304 | 98,271 | 101,036 | 104,570 | 109,915 | 115,217 |
| Maui | 14,036 | 14,429 | 14,971 | 15,725 | 16,472 | 17,242 |
| Hawaii | 20,475 | 21,101 | 22,169 | 23,155 | 24,121 | 25,131 |
| Kauai..... | 7,705 | 8,045 | 8,455 | 8,697 | 9,019 | 9,363 |
| LEASEHOLD | | | | | | |
| State total..... | 29,047 | 26,915 | 24,599 | 20,393 | 17,308 | 14,037 |
| Honolulu | 26,498 | 24,284 | 22,046 | 18,642 | 15,614 | 12,279 |
| Maui | 915 | 969 | 999 | 707 | 719 | 718 |
| Hawaii | 1,277 | 1,287 | 1,167 | 645 | 647 | 652 |
| Kauai..... | 357 | 375 | 387 | 399 | 328 | 388 |

^{1/} For a comparison of 1990 and earlier data on owner occupancy from the Census of Housing, see DBEDT's Statistical Report 223, "Housing Unit Estimates for Hawaii, 1980-1991" (January 1992), table 9.

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

**Table 21.16-- RESIDENT AND NONRESIDENT HOUSING UNITS,
BY COUNTIES: ANNUALLY, 1984 TO 1994**

| Category and year | State total | City and County of Honolulu | Other counties | | | |
|------------------------------|-------------|-----------------------------|----------------|--------|--------|----------------|
| | | | Total | Hawaii | Kauai | Maui <u>1/</u> |
| RESIDENT <u>2/</u> | | | | | | |
| 1984..... | 336,882 | 255,450 | 81,432 | 37,262 | 14,720 | 29,450 |
| 1985..... | 336,777 | 256,396 | 80,381 | 37,775 | 14,352 | 28,254 |
| 1986..... | 340,417 | 258,713 | 81,704 | 38,954 | 13,982 | 28,768 |
| 1987..... | 347,529 | 262,898 | 84,631 | 39,920 | 14,059 | 30,652 |
| 1988..... | 354,314 | 267,885 | 86,429 | 41,043 | 14,016 | 31,370 |
| 1989..... | 362,912 | 272,272 | 90,640 | 43,502 | 14,139 | 32,999 |
| 1990..... | 370,682 | 276,618 | 94,064 | 46,138 | 15,047 | 32,879 |
| 1991..... | 378,438 | 280,167 | 98,271 | 48,178 | 16,114 | 33,979 |
| 1992..... | 384,961 | 280,672 | 104,289 | 51,087 | 16,752 | 36,450 |
| 1993..... | 392,749 | 285,200 | 107,549 | 53,176 | 16,526 | 37,847 |
| 1994..... | 399,501 | 289,864 | 109,637 | 54,721 | 15,878 | 39,038 |
| NONRESIDENT <u>3/</u> | | | | | | |
| 1984..... | 17,602 | 6,887 | 10,715 | 1,902 | 1,598 | 7,215 |
| 1985..... | 21,804 | 9,016 | 12,788 | 2,279 | 2,076 | 8,433 |
| 1986..... | 22,999 | 9,838 | 13,161 | 2,052 | 2,574 | 8,535 |
| 1987..... | 21,896 | 9,236 | 12,660 | 2,102 | 2,631 | 7,927 |
| 1988..... | 21,120 | 7,635 | 13,485 | 2,354 | 2,855 | 8,276 |
| 1989..... | 19,140 | 5,919 | 13,221 | 2,018 | 3,034 | 8,169 |
| 1990..... | 19,128 | 5,065 | 14,063 | 2,115 | 2,566 | 9,382 |
| 1991..... | 19,887 | 4,668 | 15,219 | 2,401 | 2,535 | 10,283 |
| 1992..... | 22,645 | 8,133 | 14,512 | 2,334 | 2,687 | 9,491 |
| 1993..... | 21,081 | 7,820 | 13,261 | 2,220 | 1,669 | 9,372 |
| 1994..... | 21,247 | 6,835 | 14,412 | 2,483 | 2,880 | 9,049 |

1/ Includes Kalawao.

2/ Estimated as of April 1. Includes all housing units other than condominium units in rental pools and intended for transient occupancy.

3/ Condominium units in rental pools and intended for transient occupancy, based on survey data from the Hawaii Visitors Bureau. Includes condo/hotel units.

Source: Hawaii State Department of Business, Economic Development & Tourism, *Housing Unit Estimates for Hawaii, 1980-1995* (in preparation), and Hawaii Visitors Bureau, *Visitor Plant Inventory Report* (annual).

**Table 21.17-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES:
1990**

[Data include some condominium units used or intended for use by transients]

| Subject | State total 1/ | Hono-lulu | Hawaii | Kauai | Maui |
|--|----------------|-----------|--------|--------|--------|
| ALL HOUSING UNITS | | | | | |
| All housing units..... | 389,810 | 281,683 | 48,253 | 17,613 | 42,160 |
| Units in structure: | | | | | |
| 1 unit, detached | 202,990 | 126,553 | 36,622 | 13,934 | 25,781 |
| 1 unit, attached | 34,041 | 28,914 | 1,399 | 1,158 | 2,569 |
| 2 to 4 units..... | 24,182 | 19,384 | 2,150 | 1,053 | 1,595 |
| 5 to 9 units..... | 22,258 | 18,285 | 1,642 | 446 | 1,885 |
| 10 or more units..... | 100,238 | 84,378 | 5,561 | 647 | 9,652 |
| Mobile home, boat, other | 6,101 | 4,169 | 879 | 375 | 678 |
| Mean number of rooms | 4.4 | 4.4 | 4.6 | 4.6 | 4.2 |
| OCCUPIED HOUSING UNITS | | | | | |
| Total | 356,267 | 265,304 | 41,461 | 16,295 | 33,145 |
| With 1.01 or more persons per room | 56,708 | 43,526 | 5,155 | 2,613 | 5,411 |
| VACANT HOUSING UNITS | | | | | |
| Total | 33,543 | 16,379 | 6,792 | 1,318 | 9,015 |
| For seasonal, recreational, or occasional use | 12,806 | 4,462 | 2,045 | 333 | 5,944 |
| Homeowner vacancy rate | 0.8 | 0.6 | 1.5 | 0.7 | 1.5 |
| Rental vacancy rate..... | 5.4 | 4.3 | 10.3 | 4.3 | 9.9 |
| OWNER-OCCUPIED HOUSING UNITS | | | | | |
| Total | 191,911 | 137,910 | 25,336 | 9,582 | 19,083 |
| 1 unit, detached or attached..... | 153,596 | 103,716 | 24,063 | 9,042 | 16,775 |
| Percent of all occupied units..... | 53.9 | 52.0 | 61.1 | 58.8 | 57.6 |
| Persons per unit | 3.19 | 3.23 | 2.93 | 3.28 | 3.23 |
| Mean number of rooms | 5.2 | 5.3 | 5.2 | 5.2 | 5.0 |

Continued on next page

**Table 21.17-- SELECTED HOUSING CHARACTERISTICS, BY COUNTIES:
1990 -- Con.**

| Subject | State total <u>1/</u> | Hono- lulu | Hawaii | Kauai | Maui |
|---|-----------------------|---------------|---------|---------|---------|
| VALUE OF SPECIFIED OWNER- OCCUPIED HOUSING UNITS <u>2/</u> | | | | | |
| Total | 144,431 | 98,541 | 21,910 | 8,414 | 15,566 |
| Less than \$100,000..... | 16,450 | 4,056 | 9,414 | 1,164 | 1,816 |
| \$100,000 to \$199,999 | 37,825 | 19,781 | 8,159 | 4,028 | 5,857 |
| \$200,000 to \$299,999 | 39,679 | 30,702 | 2,500 | 1,854 | 4,623 |
| \$300,000 or more | 50,477 | 44,002 | 1,837 | 1,368 | 3,270 |
| Lower quartile (dollars) | 156,800 | 202,700 | 77,000 | 122,000 | 141,500 |
| Median (dollars)..... | 245,300 | 283,600 | 113,000 | 171,500 | 202,100 |
| Upper quartile (dollars)..... | 358,800 | 391,500 | 176,400 | 254,800 | 284,300 |
| RENTER-OCCUPIED HOUSING UNITS | | | | | |
| Total | 164,356 | 127,394 | 16,125 | 6,713 | 14,062 |
| 1 unit, detached or attached..... | 71,634 | 47,233 | 9,877 | 5,039 | 9,423 |
| Persons per unit | 2.78 | 2.80 | 2.76 | 2.85 | 2.66 |
| Mean number of rooms | 3.7 | 3.6 | 3.8 | 3.9 | 3.6 |
| CONTRACT RENT OF SPECIFIED RENTER-OCCUPIED UNITS <u>3/</u> | | | | | |
| Total | 139,266 | 107,256 | 13,941 | 5,822 | 12,243 |
| Less than \$250 | 15,119 | 9,653 | 2,841 | 1,253 | 1,368 |
| \$250 to \$499..... | 36,779 | 27,231 | 5,797 | 1,392 | 2,359 |
| \$500 to \$749..... | 43,763 | 35,258 | 3,154 | 1,473 | 3,878 |
| \$750 to \$999..... | 25,164 | 20,019 | 1,414 | 1,092 | 2,639 |
| \$1,000 or more | 18,441 | 15,095 | 735 | 612 | 1,999 |
| Lower quartile (dollars) | 401 | 423 | 288 | 301 | 434 |
| Median (dollars)..... | 599 | 615 | 428 | 532 | 658 |
| Upper quartile (dollars)..... | 837 | 854 | 626 | 807 | 899 |

1/ Includes Kalawao County (101 housing units), not shown separately.

2/ House and lot. Data limited to one-family houses on less than 10 acres without a business or medical office on the property.

3/ Excludes one-family houses on 10 acres or more.

Source: U.S. Bureau of the Census, *1990 Census of Population and Housing, Summary Population and Housing Characteristics, Hawaii*, 1990 CPH-1-13 (August 1991), tables 8, 10, and 12.

Table 21.18-- SUMMARY HOUSING CHARACTERISTICS, BY COUNTIES: 1990

[Data include some condominium units used or intended for use by transients]

| Characteristic | State total <u>1/</u> | 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 21.19-- TENURE AND VALUE OF CONDOMINIUM UNITS,
BY COUNTIES: 1990**

| County | All housing units | Condominium housing units | | | | Median value <u>2/</u> (dollars) |
|--------------------|-------------------|---------------------------|----------------|-----------------|------------------|----------------------------------|
| | | Total | Owner occupied | Renter occupied | Vacant <u>1/</u> | |
| 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: 1986 TO 1994

[The Honolulu Metropolitan Statistical Area consists of the City and County of Honolulu]

| Year | Rental vacancy rate | | Homeowner vacancy rate | | Homeownership rate | |
|----------------|---------------------|---------------|------------------------|---------------|--------------------|----------------|
| | State total | Honolulu MSA | State total | Honolulu MSA | State total | Honolulu MSA |
| 1986..... | 5.7 | 5.0 | 0.8 | 0.9 | 50.9 | 50.0 |
| 1987..... | 6.5 | 5.5 | 1.1 | 1.1 | 50.7 | 50.3 |
| 1988..... | 6.3 | 4.1 | 0.4 | 0.5 | 53.2 | 52.2 |
| 1989..... | 6.6 | 5.1 | 1.0 | 0.7 | 54.7 | 52.2 |
| 1990..... | 6.6 | 3.8 | 0.8 | 0.7 | 55.5 | 52.9 |
| 1991..... | 5.8 | 3.8 | 1.4 | 0.9 | 55.2 | 53.3 |
| 1992..... | 5.8 | 3.4 | 2.5 | 0.9 | 53.8 | 52.6 |
| 1993..... | 6.8 | 3.9 | 3.1 | 1.3 | 52.8 | 51.9 |
| 1994..... | 7.4 | 6.9 | 2.0 | 1.9 | 52.3 | 58.0 |
| S.E..... | 0.8 | 0.9 | 0.3 | 0.3 | 1.0 | 1.2 |
| U.S. 1994..... | 7.3 | <u>1/</u> 7.3 | 1.5 | <u>1/</u> 1.5 | 64.0 | <u>1/</u> 61.7 |

1/ Rate for all U.S. metropolitan statistical areas.

Source: U.S. Bureau of the Census, "Housing Vacancies and Homeownership Annual Statistics: 1994," *Current Housing Reports*, Series H111/94-A (May 1995), pp. 16-19, 40, 41, B-6, and B-7.

**Table 21.21-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN,
CHANGING RESIDENCE IN PAST YEAR: 1982 TO 1992**

[Excludes persons in institutions or barracks, in Kalawao, or on Niihau]

| Year surveyed | Movers | | Percent moving <u>1/</u> | |
|-------------------------------------|---------|---------------------|--------------------------|---------------------|
| | Total | Civilians <u>2/</u> | Total | Civilians <u>2/</u> |
| Persons 1 year old and over: | | | | |
| 1982 | 147,684 | 115,685 | 15.8 | 13.8 |
| 1983 | 135,496 | 96,824 | 14.1 | 11.4 |
| 1984 <u>3/</u> | 140,509 | 101,730 | 14.4 | 11.6 |
| 1985 | 133,466 | 101,840 | 13.6 | 11.5 |
| 1986 | 130,796 | 99,990 | 13.1 | 11.1 |
| 1987 | 173,495 | 139,728 | 17.0 | 15.1 |
| 1988 | 172,243 | 136,325 | 16.4 | 14.5 |
| 1989 | 156,224 | 118,410 | 14.8 | 12.7 |
| 1990 | 165,552 | 118,802 | 15.5 | 12.7 |
| 1991 | 174,880 | 120,190 | 16.0 | 12.5 |
| 1992 | 170,680 | 123,313 | 15.3 | 12.5 |
| Household heads: | | | | |
| 1982 | 51,817 | 39,870 | 17.2 | 14.7 |
| 1983 | 45,692 | 32,155 | 14.7 | 11.7 |
| 1984 <u>3/</u> | 45,798 | 34,637 | 15.3 | 12.8 |
| 1985 | 42,923 | 31,778 | 14.4 | 11.8 |
| 1986 | 42,552 | 31,949 | 13.7 | 11.4 |
| 1987 | 53,748 | 42,753 | 17.0 | 14.9 |
| 1988 | 51,708 | 38,901 | 16.6 | 14.1 |
| 1989 | 50,243 | 37,147 | 15.0 | 12.6 |
| 1990 | 52,624 | 36,232 | 15.2 | 12.0 |
| 1991 | 56,302 | 38,307 | 15.6 | 12.0 |
| 1992 | 53,803 | 37,941 | 14.8 | 11.8 |

1/ Based on number reporting place of residence one year earlier.

2/ Based on military status when surveyed. Excludes members of the armed forces and their dependents.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

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

**Table 21.22-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS:
1991 AND 1992**

[Based on place of residence one year prior to survey date. Expanded from a sample. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

| Military status and residence of household head <u>1/</u> | All household heads | Non-movers | Movers | | Mobility not reported |
|---|---------------------|------------|--------|-------------------|-----------------------|
| | | | Number | Percent <u>2/</u> | |
| 1991 | | | | | |
| State total | 363,163 | 304,928 | 56,302 | 15.6 | 1,933 |
| Military or dependent | 42,871 | 24,469 | 17,995 | 42.4 | 407 |
| Military | 41,916 | 23,620 | 17,889 | 43.1 | 407 |
| Military dependent | 955 | 849 | 106 | 11.1 | - |
| Civilian | 320,292 | 280,459 | 38,307 | 12.0 | 1,526 |
| 1992 | | | | | |
| State total | 364,519 | 309,671 | 53,803 | 14.8 | 1,045 |
| Military or dependent | 41,727 | 25,646 | 15,862 | 38.2 | 219 |
| Military | 41,015 | 25,326 | 15,470 | 37.9 | 219 |
| Military dependent | 712 | 320 | 392 | 55.1 | - |
| Civilian | 322,792 | 284,025 | 37,941 | 11.8 | 826 |

1/ Military status of household head when surveyed.

2/ Based on number reporting.

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

Table 21.23-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE SPACE FOR HONOLULU, BY LOCATION: 1993 TO 1995

[Rates are percent of space reported vacant in survey]

| Location | May 1993 | Oct. 1993 | May 1994 | Oct. 1994 | May 1995 <u>1/</u> |
|---------------------------|----------|-----------|----------|-----------|--------------------|
| Downtown..... | 12.8 | 14.5 | 15.9 | 13.7 | 16.1 |
| Downtown to Waikiki | 7.6 | 5.4 | 5.7 | 6.7 | 7.0 |
| Waikiki | 15.4 | 19.0 | 28.3 | 29.1 | 18.3 |
| Other..... | 6.6 | 10.5 | 11.9 | 11.0 | 10.3 |

1/ Preliminary.

Source: Semi-annual survey by Hastings, Martin, Conboy, Braig & Associates, Ltd.

Table 21.24-- HAWAII HOUSING AUTHORITY OPERATIONS: 1992 TO 1994

| Subject | 1992 | 1993 | 1994 |
|--|--------|--------|-----------------|
| Total units owned by HHA, June 30 | 6,069 | 6,069 | <u>1/</u> 6,254 |
| Occupied | 6,040 | 5,783 | 5,712 |
| Population in units, June 30..... | 17,295 | 16,845 | 16,332 |
| Per occupied unit..... | 2.86 | 2.91 | 2.86 |
| Total assets, June 30 (million dollars)..... | 215 | 277 | 266 |
| Operating revenues of HHA, fiscal year: <u>2/</u> | | | |
| Gross (\$1,000)..... | 17,428 | 17,728 | 18,023 |
| Net (\$1,000)..... | -353 | 5 | -144 |
| Operating revenues per unit per month, fiscal year (dollars) <u>2/</u> | 278.59 | 283.37 | 285.38 |
| Rent charged per unit per month, fiscal year (dollars) <u>2/</u> | 227.57 | 232.95 | 216.71 |

1/ Federal low-rent, 5,263; State low-rent, 568; State Elderly 423.

2/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 21.25-- HOMELESSNESS: 1992

| Characteristics | Total | Homeless | Hidden homeless <u>1/</u> | At risk <u>2/</u> |
|---------------------------------------|---------|----------|---------------------------|-------------------|
| Households or parties <u>3/</u> | 127,957 | 2,504 | 17,084 | 108,369 |
| Persons | 445,434 | 5,353 | 96,380 | 343,701 |
| Under 6 years old | 48,382 | 426 | 7,723 | 40,233 |
| 6 to 12 years old | 46,348 | 369 | 5,256 | 40,723 |
| 13 to 17 years old | 29,973 | 241 | 5,356 | 24,376 |
| 18 to 59 years old | 284,450 | 3,652 | 65,521 | 215,277 |
| 60 years and over | 35,823 | 207 | 12,524 | 23,092 |
| Institutionalized <u>4/</u> | 458 | 458 | - | - |

1/ Sharing housing with friends or relatives but would prefer to have their own places.

2/ Unable to make shelter payments if missing 1 to 3 paychecks.

3/ Parties are groups of homeless persons camping or staying together, whether or not related.

4/ Homeless persons in residential treatment programs or other non-homeless shelters. Not tabulated by age.

Source: SMS Research, *Homelessness and Hunger in Hawaii*, submitted to Homeless Aloha, June 15, 1992, p. 10.

Table 21.26-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY TYPE OF LICENSE AND LOCATION: FEBRUARY 9, 1995

[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 | 10,259 | 5,463 | Oahu | 7,405 | 3,729 |
| | | | Hawaii | 1,142 | 542 |
| Broker: | | | Maui | 1,226 | 406 |
| Individual | 3,703 | 715 | Kauai | 452 | 248 |
| Corporation or partnership | 1,064 | 62 | Molokai | 21 | 4 |
| Salesman | 5,492 | 4,686 | Lanai | 5 | 2 |
| | | | U.S. mainland | 4 | 485 |
| | | | Foreign | 4 | 47 |

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

**Table 21.27-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR
OAHU: 1985 TO 1995**

[Data include 1-family, condominium/cooperative, vacant, multi-family, commercial/industrial,
business opportunities]

| Year | Number listed | Number sold | Percent sold | Average sales price (dollars) |
|-------------|----------------------|--------------------|---------------------|--------------------------------------|
| 1985..... | 13,558 | 5,261 | 38.8 | 137,650 |
| 1986..... | 16,047 | 6,467 | 40.3 | 151,985 |
| 1987..... | 12,887 | 8,855 | 68.7 | 188,200 |
| 1988..... | 14,548 | 9,886 | 68.0 | 201,000 |
| 1989..... | 13,873 | 9,757 | 70.3 | 238,257 |
| 1990..... | 17,097 | 9,243 | 54.1 | 319,500 |
| 1991..... | 15,280 | 5,682 | 37.2 | 299,599 |
| 1992..... | 13,421 | 5,509 | 41.0 | 292,342 |
| 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 |

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.28-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1993 TO 1995

| Year and type of property | Number listed | Number sold | Percent sold | Sales price (dollars) | |
|-----------------------------|---------------|-------------|--------------|-----------------------|---------|
| | | | | Mean | Median |
| 1993 | | | | | |
| Total | 13,124 | 5,371 | 40.9 | 297,149 | ... |
| Single family | 4,181 | 1,944 | 46.5 | 436,898 | 358,500 |
| Condominium/cooperative.... | 7,868 | 3,262 | 41.5 | 210,573 | 193,000 |
| Vacant land | 483 | 88 | 18.2 | 344,913 | 307,500 |
| Multi-family | 144 | 21 | 14.6 | 638,143 | 540,000 |
| Commercial..... | 174 | 28 | 16.1 | 437,681 | 250,000 |
| Business opportunities..... | 274 | 28 | 10.2 | 134,350 | 49,500 |
| 1994 | | | | | |
| Total | 12,655 | 5,759 | 45.5 | 297,428 | ... |
| Single family | 4,299 | 2,175 | 50.6 | 423,371 | 360,000 |
| Condominium/cooperative.... | 7,326 | 3,370 | 46.0 | 210,762 | 190,000 |
| Vacant land | 496 | 128 | 25.8 | 360,855 | 300,000 |
| Multi-family | 159 | 35 | 22.0 | 706,186 | 590,000 |
| Commercial..... | 131 | 15 | 11.5 | 480,333 | 386,000 |
| Business opportunities..... | 244 | 36 | 14.8 | 102,073 | 60,000 |
| 1995 | | | | | |
| Total | 12,834 | 4,060 | 31.6 | 307,617 | ... |
| Single family | 4,582 | 1,642 | 35.8 | 429,613 | 349,000 |
| Condominium/cooperative.... | 7,175 | 2,260 | 31.5 | 206,134 | 182,000 |
| Vacant land | 522 | 84 | 16.1 | 419,342 | 305,000 |
| Multi-family | 194 | 26 | 13.4 | 1,116,500 | 621,500 |
| Commercial..... | 129 | 16 | 12.4 | 724,875 | 496,500 |
| Business opportunities..... | 232 | 32 | 13.8 | 55,828 | 43,750 |

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.29-- MULTIPLE LISTING SERVICE UNITS SOLD, SINGLE-FAMILY RESIDENTIAL AND CONDOMINIUM, BY SELLING PRICE RANGE, FOR OAHU: 1994 AND 1995

| Selling price range | Single-family residential | | Condominiums and cooperatives | |
|---------------------------------------|---------------------------|--------------|-------------------------------|---------|
| | 1994 | 1995 | 1994 | 1995 |
| All properties..... | 2,175 | 1,642 | 3,370 | 2,260 |
| Less than \$50,000 | ... | ... | 3 | 17 |
| \$50,000, less than \$75,000..... | ... | ... | 51 | 54 |
| \$75,000, less than \$100,000..... | <u>1</u> / 2 | <u>1</u> / 4 | 121 | 87 |
| \$100,000, less than \$125,000..... | 4 | 22 | 235 | 167 |
| \$125,000, less than \$150,000..... | 9 | | 426 | 268 |
| \$150,000, less than \$175,000..... | 20 | 78 | 424 | 406 |
| \$175,000, less than \$200,000..... | 60 | | 580 | 377 |
| \$200,000, less than \$225,000..... | 43 | 134 | 469 | 265 |
| \$225,000, less than \$250,000..... | 82 | | 335 | 180 |
| \$250,000, less than \$275,000..... | 113 | 317 | 179 | 114 |
| \$275,000, less than \$300,000..... | 235 | | 129 | 102 |
| \$300,000, less than \$400,000..... | 748 | 499 | 253 | 108 |
| \$400,000, less than \$500,000..... | 393 | 251 | 77 | 39 |
| \$500,000, less than \$600,000..... | 193 | 123 | 45 | 33 |
| \$600,000, less than \$700,000..... | 105 | 64 | 21 | 17 |
| \$700,000, less than \$800,000..... | 56 | 45 | 11 | 13 |
| \$800,000, less than \$900,000..... | 35 | 35 | 4 | 4 |
| \$900,000, less than \$1,000,000..... | 22 | 12 | 3 | 2 |
| \$1,000,000 or more | 55 | 58 | 4 | 7 |
| Median value..... | \$360,000 | 349,000 | \$190,000 | 182,000 |
| Mean value | \$423,371 | 429,613 | \$210,762 | 206,134 |

1/ Less than \$100,000.

Source: Honolulu Board of Realtors, Multiple Listing Service, records.

Table 21.30-- CHARACTERISTICS OF PRIVATE SINGLE-FAMILY AND MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1989 TO 1994

| Year | Single-family developments | | | | Multi-family developments <u>1/</u> | | |
|-----------|----------------------------|-------|------------|-------------------------|-------------------------------------|------------|-------------------------|
| | Average area (square feet) | | Units sold | Average price (dollars) | Average living area (sq. ft.) | Units sold | Average price (dollars) |
| | House | Lot | | | | | |
| 1989..... | 1,270 | 4,838 | 950 | 205,284 | 837 | 510 | 119,630 |
| 1990..... | 1,342 | 5,174 | 617 | 286,549 | 891 | 579 | 140,391 |
| 1991..... | 1,663 | 5,426 | 519 | 350,106 | 975 | 1,345 | 256,048 |
| 1992..... | 1,390 | 4,657 | 453 | 316,264 | 1,029 | 804 | 205,606 |
| 1993..... | 1,385 | 4,707 | 1,074 | 321,775 | 891 | 900 | 182,796 |
| 1994..... | 1,437 | 5,140 | 792 | 345,745 | 914 | 1,135 | 209,228 |

1/ Four stories or less.

Source: Bank of Hawaii, *Construction in Hawaii 1995* (1995), p. 14.

Table 21.31-- MORTGAGES AND AGREEMENTS OF SALE: 1989 TO 1994

| Year | Mortgages recorded | | | Agreements of sale (\$1,000) |
|-----------|--------------------|-----------------------|-------------------------|------------------------------|
| | Number | Total value (\$1,000) | Average value (dollars) | |
| 1989..... | 47,826 | 10,464,959 | 218,834 | 234,280 |
| 1990..... | 50,450 | 14,671,725 | 290,817 | 268,457 |
| 1991..... | 50,437 | 11,374,604 | 225,521 | 183,528 |
| 1992..... | 65,248 | 12,319,317 | 188,808 | 286,428 |
| 1993..... | 69,111 | 12,632,003 | 182,778 | 180,863 |
| 1994..... | 51,076 | 9,005,637 | 176,318 | 144,718 |

Source: Data from Title Guaranty of Hawaii, cited in the Bank of Hawaii, *Construction in Hawaii 1995* (1995), p. 27.

Table 21.32-- MORTGAGE LOANS OUTSTANDING: 1970 TO 1994

[In millions of dollars. As of December 31. Mortgage holdings of insurance companies doing business in Hawaii are included; mortgage holdings of credit unions are excluded]

| Year | Amount | Year | Amount | Year | Amount |
|-----------|---------|-----------|---------|--------------------------|---------|
| 1970..... | 1,790.2 | 1979..... | 6,323.2 | 1988..... | 5,917.3 |
| 1971..... | 2,093.0 | 1980..... | 7,131.4 | 1989..... | 6,665.0 |
| 1972..... | 2,424.2 | 1981..... | 7,498.0 | 1990..... | 7,782.9 |
| 1973..... | 2,797.3 | 1982..... | 7,730.2 | 1991..... | 8,645.3 |
| 1974..... | 3,210.2 | 1983..... | 7,553.9 | 1992..... | 8,657.3 |
| 1975..... | 3,564.9 | 1984..... | 7,575.2 | 1993..... | 9,532.9 |
| 1976..... | 3,959.5 | 1985..... | 6,291.3 | 1994 ^{1/} | 9,290.1 |
| 1977..... | 4,496.0 | 1986..... | 4,714.6 | | |
| 1978..... | 5,320.8 | 1987..... | 5,750.3 | | |

^{1/} Excludes insurance and trust companies loans.

Source: Bank of Hawaii, *Construction in Hawaii 1995* (1995), p. 27.

Table 21.33-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1991 TO 1995

[Years ended June 30. Data include leases, agreement of sales assignments, subleases, timeshares, etc., as well as deeds]

| Subject | 1991 | 1992 | 1993 | 1994 | 1995 |
|---|------------|-----------|-----------|------------|-----------|
| Number of deeds filed and recorded..... | 71,233 | 68,075 | 68,871 | 69,305 | 61,821 |
| Approximate value of land conveyed (\$1,000)..... | 11,304,180 | 8,020,905 | 7,521,374 | 15,812,168 | 6,486,476 |

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.34-- APPROXIMATE VALUE OF LAND TRANSFERS, BY
COUNTIES: 1992 TO 1994**

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

| County | 1992 | 1993 | 1994 |
|-------------------|---------------|----------------|----------------|
| State total | 7,850,446,800 | 12,270,675,800 | 10,701,397,500 |
| Honolulu..... | 5,590,377,000 | 8,621,057,700 | 7,461,624,300 |
| Maui..... | 1,027,393,500 | 1,753,255,200 | 1,441,527,900 |
| Hawaii..... | 886,726,000 | 1,345,224,700 | 1,120,254,000 |
| Kauai..... | 345,950,300 | 551,138,200 | 677,991,300 |

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

**Table 21.35-- FORECLOSURE FILINGS, BY JUDICIAL CIRCUIT:
1990 TO 1995**

| Year | State total | First Circuit <u>1/</u> | Second Circuit <u>2/</u> | Third Circuit <u>3/</u> | Fifth Circuit <u>4/</u> |
|----------------------|-------------|-------------------------|--------------------------|-------------------------|-------------------------|
| 1990..... | 680 | 452 | 99 | 78 | 51 |
| 1991..... | 815 | 522 | 120 | 110 | 63 |
| 1992..... | 1,068 | 671 | 175 | 174 | 48 |
| 1993..... | 1,436 | 950 | 204 | 216 | 66 |
| 1994..... | 1,578 | 1,022 | 240 | 222 | 94 |
| 1995, Jan.-June..... | 953 | 586 | 150 | 146 | 71 |

1/ Oahu and Kalawao County.

2/ Maui County.

3/ Hawaii County.

4/ Kauai County.

Source: The Judiciary, Office of the Administrative Director of the Courts, Statistics Office, records.

**Table 21.36-- CHARACTERISTICS OF SINGLE FAMILY HOMES INSURED
UNDER FHA SECTION 203(B): 1992 AND 1993**

| Subject | 1992 | 1993 |
|--|---------|---------|
| Number insured..... | (NA) | 826 |
| Proposed..... | (NA) | 507 |
| Existing..... | (NA) | 319 |
| Amount (\$1,000)..... | (NA) | 111,801 |
| Proposed..... | (NA) | 65,043 |
| Existing..... | (NA) | 46,758 |
| Averages: | | |
| Age of structure (years)..... | 12.7 | 12.4 |
| Improved living area (square feet)..... | 1,175 | 1,261 |
| Lot size (square feet)..... | 6,832 | 4,469 |
| Number of rooms..... | 5.6 | 5.9 |
| Market price of site (dollars)..... | *84,967 | (B) |
| Site to value ratio (percent)..... | (B) | (B) |
| Site price per square foot (dollars)..... | (B) | (B) |
| Construction cost per square foot (dollars)..... | (B) | (B) |
| Appraised value (dollars)..... | 174,017 | 178,325 |
| Sales price per square foot (dollars)..... | 108.18 | 69.01 |
| Annual effective income (dollars)..... | 49,812 | 48,370 |

* Sample under 25.

B Sample under 10.

NA Not available.

Source: U.S. Department of Housing and Urban Development, Information Systems Division, *FHA Homes - 1992, Sec. 203(b)*, pp. 31-51, and *FHA Homes-1993, Sec. 203(b)*, pp. 31-51.

**Table 21.37-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES:
DECEMBER 31, 1994**

| Facility | State total | Oahu | Hawaii | | Maui | Molo-kai | Lanai | Kauai |
|-----------------------------------|-------------|-------|--------|------|------|----------|-------|-------|
| | | | Hilo | Kona | | | | |
| Total..... | 5,358 | 4,306 | 135 | 202 | 499 | 2 | 22 | 192 |
| Elevators | 4,564 | 3,624 | 108 | 189 | 445 | - | 20 | 178 |
| Under 9 stories: | | | | | | | | |
| Hydro | 1,249 | 825 | 50 | 84 | 170 | - | 9 | 111 |
| Roped | 1,524 | 1,099 | 48 | 105 | 209 | - | 11 | 52 |
| 9 to 18 stories | 1,103 | 1,012 | 10 | - | 66 | - | - | 15 |
| 19 to 28 stories | 389 | 389 | - | - | - | - | - | - |
| 29 to 38 stories | 213 | 213 | - | - | - | - | - | - |
| 39 stories or more | 86 | 86 | - | - | - | - | - | - |
| Escalators and moving walks. | 356 | 335 | 6 | - | 13 | - | - | 2 |
| Inclined lifts | 9 | 4 | 3 | 1 | 1 | - | - | - |
| Private industrial elevators | 11 | 1 | - | 3 | 7 | - | - | - |
| Manlifts..... | 12 | 10 | - | 2 | - | - | - | - |
| Handicap chair lifts | 75 | 59 | 1 | 5 | 4 | - | - | 6 |
| Dumbwaiters..... | 329 | 273 | 17 | 1 | 28 | 2 | 2 | 6 |
| Material lifts..... | 2 | - | - | 1 | 1 | - | - | - |

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 21.38-- TALLEST STRUCTURES, BY ISLANDS: MARCH 1995

| 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: | | | | |
| Nauru Tower..... | 1330 Ala Moana | 1991 | 45 | 400 |
| Waterfront Towers | 425 South Street | 1990 | 46 | 400 |
| Kauai: | | | | |
| Westin Kauai Hotel..... | Lihue | 1959 | 10 | 107 |
| OTHER STRUCTURES | | | | |
| Hawaii: | | | | |
| Coast Guard Loran Station | Upolu Point..... | 1958 | ... | 625 |
| Maui: | | | | |
| KMVI Radio Tower..... | Wailuku | 1947 | ... | 455 |
| Lanai: | | | | |
| Storage tanks | Manele Harbor..... | ... | ... | 50 |
| Molokai: | | | | |
| KAIM Radio Tower..... | Kalua Koi..... | 1981 | ... | 410 |
| Oahu: | | | | |
| VLF Antenna..... | Lualualei..... | 1972 | ... | 1,503 |
| Kauai: | | | | |
| Communication Engineers Tower..... | Mana | 1964 | ... | 400 |

^{1/} Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

Source: Compiled by DBEDT from Hawaii County Department of Research and Development, Maui County Department of Public Works, City and County of Honolulu Building Department, and Kauai County Department of Public Works.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning. Additional information on manufacturing workers appears in Sections 12 and 15.

The number of manufacturing establishments in Hawaii increased from 773 in 1972 to 1,020 in 1992. The value added by manufacture rose from \$410 million in 1972 to \$1.12 billion in 1982, \$1.41 billion in 1987, and \$1.56 billion in 1992. More than three-fourths of all manufacturing activity in the State in 1992 was on Oahu. Food processing--mostly sugar and pineapple--accounted for 39 percent of the value added by manufacture in 1992. In 1994, the general excise and use tax base for diversified manufacturing (that is, manufacturing exclusive of sugar processing, pineapple canning, and petroleum refining) was \$628 million. There were 10 sugar mills and one pineapple cannery in Hawaii in 1994. Canned and fresh pineapple sales in 1994 totaled \$134 million. Sugar production in 1994 amounted to 659,000 short tons, well below the totals for a decade or so earlier. The value of sugar production (including commercial molasses) in 1994 was \$248 million, compared with the record of \$677 million set in 1974. Important manufactures other than food processing include apparel, printing and publishing, and stone, clay, and glass products. Industrial and technology parks and areas in 1990 numbered 40, with 7,591 acres.

Sources for data on this subject include the quinquennial United States Census of Manufactures, most recently published for 1992, the Annual Survey of Manufactures, publications of the Hawaii State Department of Agriculture and Department of Taxation, and the Hawaiian Sugar Planters' Association's annual report, *HSPA Sugar Manual*. *Historical Statistics of Hawaii*, Section 16, contains the figures for earlier years. Statistics for the nation as a whole appear in Section 26 of the *Statistical Abstract of the United States: 1995*.

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1992**

| Subject | 1963 | 1967 | 1972 | 1977 | 1982 |
|---|-------|-------|-------|---------|---------|
| All establishments: <u>1/</u> | | | | | |
| Total..... | 672 | 697 | 773 | 949 | 967 |
| With 20 employees or more | 203 | 215 | 238 | 231 | 237 |
| All employees: | | | | | |
| Number (1,000) | 25.1 | 25.4 | 24.8 | 25.0 | 23.6 |
| Payroll (million dollars)..... | 109.0 | 139.6 | 191.1 | 276.8 | 360.4 |
| Production workers: | | | | | |
| Number (1,000) | 18.7 | 19.0 | 17.7 | 17.4 | 16.0 |
| Hours (millions) | 33.2 | 35.9 | 33.1 | 31.3 | 29.9 |
| Wages (million dollars)..... | 67.5 | 86.9 | 113.7 | 160.5 | 217.5 |
| Value added by manufacture <u>2/</u> | | | | | |
| (million dollars)..... | 261.1 | 326.2 | 410.0 | 785.5 | 1,119.6 |
| Cost of materials <u>3/</u> | | | | | |
| (million dollars)..... | (NA) | 399.6 | 548.3 | 1,176.1 | 2,357.5 |
| Value of shipments <u>3/</u> | | | | | |
| (million dollars)..... | (NA) | 723.4 | 955.6 | 1,974.0 | 3,443.0 |
| New capital expenditures | | | | | |
| (million dollars)..... | 15.4 | 26.0 | 46.7 | 44.4 | 89.4 |

Continued on next page.

**Table 22.01-- STATISTICAL SUMMARY OF MANUFACTURES:
1963 TO 1992 -- Con.**

| Subject | 1987 | 1989 | 1990 | 1991 | 1992 |
|--|---------|---------|---------|---------|-----------------|
| All establishments: <u>1/</u> | | | | | |
| Total..... | 1,022 | (NA) | (NA) | (NA) | <u>4/</u> 1,020 |
| With 20 employees or more | 225 | (NA) | (NA) | (NA) | 225 |
| All employees: | | | | | |
| Number (1,000) | 22.2 | 20.5 | 20.7 | 19.3 | 20.6 |
| Payroll (million dollars) | 440.2 | 432.6 | 476.7 | 466.1 | 547.4 |
| Production workers: | | | | | |
| Number (1,000) | 15.2 | 13.0 | 13.2 | 11.5 | 12.9 |
| Hours (millions) | 28.8 | 25.2 | 26.1 | 22.9 | 26.0 |
| Wages (million dollars)..... | 254.2 | 244.2 | 263.1 | 248.6 | 290.1 |
| Value added by manufacture <u>2/</u> (million dollars)..... | 1,405.3 | 1,609.8 | 1,557.5 | 1,383.3 | 1,556.4 |
| Cost of materials <u>3/</u> (million dollars)..... | 2,048.8 | 2,220.7 | 2,680.5 | 2,368.8 | 2,228.3 |
| Value of shipments <u>3/</u> (million dollars)..... | 3,447.9 | 3,813.4 | 4,202.9 | 3,805.3 | 3,791.7 |
| New capital expenditures (million dollars)..... | 102.0 | 98.4 | 126.9 | 64.1 | 107.1 |

NA Not available.

1/ Establishments with payroll at any time during year.

2/ Data for 1982 and later years not directly comparable to data for earlier years; see source for discussion.

3/ Aggregate of cost of materials and value of shipments includes extensive duplication since products of some industries are used as materials by others.

4/ Companies numbered 963.

Source: U.S. Bureau of the Census, *1982 Census of Manufactures, Geographic Area Series, Hawaii*, MC82-A-12 (April 1985), table 2a; *1987 Census of Manufactures, Geographic Area Series, Hawaii*, MC87-A-12 (October 1990), table 2a; *1989 Annual Survey of Manufactures, Geographic Area Statistics*, M89 (AS)-3 (September 1991), table 1; *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; *1992 Census of Manufactures, Geographic Area Series, Hawaii*, MC 92-A-12 (August 1995), tables 2a and 3a.

**Table 22.02-- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES:
1992**

[Includes operating manufacturing establishments and auxiliaries]

| Subject | State total | City and County of Honolulu | Hawaii County | Kauai County | Maui County |
|---|-------------|-----------------------------------|------------------|-----------------|----------------|
| All establishments <u>1/</u> (number)..... | 1,020 | 768 | 114 | 40 | 98 |
| With 20 employees or more..... | 225 | 183 | 24 | 7 | 11 |
| All employees: | | | | | |
| Number (1,000) | 20.6 | 15.0 | 2.6 | 0.9 | 2.2 |
| Payroll (million dollars) | 547.4 | 409.8 | 54.7 | 21.0 | 61.9 |
| Production workers: | | | | | |
| Number (1,000) | 12.9 | 9.2 | 1.8 | 0.6 | 1.3 |
| Hours (millions) | 26.0 | 18.0 | 3.6 | 1.3 | 3.1 |
| Wages (million dollars) | 290.1 | 211.4 | 36.7 | 13.0 | 29.0 |
| Value added by manufacture (million dollars)..... | 1,556.4 | 1,228.6 | 141.4 | 42.0 | 144.3 |
| Cost of materials <u>2/</u> (million dollars) | 2,228.3 | 1,911.4 | 140.6 | 45.9 | 130.5 |
| Value of shipments <u>2/</u> (million dollars) | 3,791.7 | 3,150.7 | 278.4 | 87.7 | 275.0 |
| New capital expenditures (million dollars) | 107.1 | 81.8 | 6.3 | 7.3 | 11.6 |

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate of cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, *1992 Census of Manufactures, Geographic Area Series, Hawaii*, MC92-A-12 (August 1995), table 4.

Table 22.03-- MANUFACTURES, BY SELECTED INDUSTRY GROUPS: 1992

[Includes operating manufacturing establishments and auxiliaries]

| Subject | Food and kindred products (SIC 20) | | | Apparel, other textile products (SIC 23) | Printing and publishing (SIC 27) | Stone, clay, and glass products (SIC 32) |
|---|---------------------------------------|---|---|--|---|--|
| | Total | Canned fruits and vegeta- bles (SIC 2033) | Sugar, confec- tionery products (SIC 206) | | | |
| All establishments: | | | | | | |
| Total..... | 233 | 10 | 29 | 145 | 199 | 51 |
| With 20 employees or more | 83 | 4 | 21 | 29 | 37 | 16 |
| All employees: | | | | | | |
| Number (1,000) | 9.0 | 1.3 | 3.4 | 2.1 | 3.6 | 1.1 |
| Payroll (million dollars) | 217.9 | 37.8 | 78.2 | 31.1 | 108.2 | 45.2 |
| Production workers: | | | | | | |
| Number (1,000) | 5.8 | 0.9 | 2.5 | 1.8 | 1.9 | 0.8 |
| Hours (million) | 11.9 | 1.9 | 5.3 | 3.2 | 3.6 | 1.8 |
| Wages (million dollars) | 119.6 | 17.4 | 53.7 | 22.8 | 50.2 | 32.4 |
| Value added by manufacture (million dollars) | 611.5 | 98.8 | 224.3 | 84.4 | 362.6 | 85.0 |
| Cost of materials (million dollars) | 717.0 | 95.8 | 212.0 | 62.3 | 95.2 | 138.6 |
| Value of shipments (million dollars) | 1,325.5 | 194.6 | 433.9 | 147.0 | 458.1 | 223.6 |
| New capital expenditures (million dollars) | 41.5 | 2.1 | 18.8 | 1.9 | 12.5 | (D) |

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1992 Census of Manufactures, Geographic Area Series, Hawaii, MC 92-A-12* (August 1995), table 5.

**Table 22.04-- OPERATING MANUFACTURING ESTABLISHMENTS AND
AUXILIARIES: 1977 TO 1992**

[Auxiliaries are establishments whose employees are primarily engaged in performing supporting services for other establishments of the same company, rather than for the general public or for other business firms]

| Subject | 1977 | 1982 | 1987 | 1992 ^{1/} |
|--|-------|-------|-------|--------------------|
| Employees (1,000) | 25.0 | 23.6 | 22.2 | 20.6 |
| Operating manufacturing establishments | 23.6 | 22.9 | 21.7 | 20.0 |
| Auxiliaries..... | 1.4 | 0.7 | 0.5 | 0.6 |
| Payroll (million dollars)..... | 276.8 | 360.4 | 440.2 | 547.4 |
| Operating manufacturing establishments | 254.1 | 341.7 | 421.8 | 523.4 |
| Auxiliaries..... | 22.9 | 18.7 | 18.3 | 24.0 |

^{1/} In 1992, 21 of the 1,020 manufacturing establishments were auxiliaries.

Source: U.S. Bureau of the Census, *1992 Census of Manufactures, Geographic Area Series, Hawaii*, MC92-A-12 (August 1995), tables 1 and 5.

Table 22.05-- MANUFACTURING SALES RECEIPTS: 1990 TO 1993

[Millions of dollars]

| Category | 1990 | 1991 | 1992 | 1993 |
|--------------------------------|---------|---------|---------|---------|
| Total manufacturing | 2,615.1 | 2,402.6 | 2,263.0 | 2,106.6 |
| Sugar processing | 353.3 | 302.0 | 280.5 | 292.9 |
| Pineapple canning..... | 161.6 | 172.7 | 141.8 | 86.6 |
| Petroleum..... | 1,345.9 | 1,214.8 | 1,144.4 | 1,007.3 |
| Diversified manufacturing..... | 754.4 | 713.2 | 696.4 | 719.7 |

Source: Bank of Hawaii, *Hawaii 1994, Annual Economic Report* (1994), p. 39.

**Table 22.06-- GENERAL EXCISE TAX BASE FOR MANUFACTURING:
1985 TO 1995**

[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 <u>1/</u> | Tax base | Year reported <u>1/</u> | Tax base | Year reported <u>1/</u> | Tax base |
|--------------------------------|-----------------|--------------------------------|-----------------|--------------------------------|-----------------|
| 1985 | 527,673 | 1989 | 630,997 | 1993 | 717,423 |
| 1986 | 568,532 | 1990 | 728,387 | 1994 | 618,238 |
| 1987 | 595,140 | 1991 | 714,407 | 1995 | 614,771 |
| 1988 | 629,303 | 1992 | 714,470 | | |

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release, as revised).

**Table 22.07-- INDUSTRIAL AND TECHNOLOGY PARKS AND AREAS, BY
ISLANDS: 1990**

[Includes existing industrial areas, industrial parks and subdivisions, and technology parks and centers]

| Subject | State total | Hawaii | Maui | Oahu | Kauai |
|---------------------------------|--------------------|---------------|-------------|-------------|--------------|
| Number of parks and areas | 40 | 10 | 5 | 22 | 3 |
| Acres | 7,591 | 2,066 | 626 | 4,847 | 52 |

Source: Hawaii State Department of Business, Economic Development & Tourism, *State of Hawaii Directory of Industrial and Technology Parks 1991* (1990).

Table 22.08-- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1940 TO 1994

| Year | Pineapple (end of canning season) | | Sugar (December 31) | |
|---------------|--------------------------------------|-----------|------------------------|-------|
| | Companies | Canneries | Companies <u>1/</u> | Mills |
| 1940..... | 8 | 8 | 38 | 34 |
| 1945..... | 7 | 7 | 36 | 32 |
| 1950..... | 9 | 8 | 28 | 26 |
| 1955..... | 10 | 8 | 28 | 26 |
| 1960..... | 8 | 9 | 27 | 27 |
| 1965..... | 6 | 6 | 25 | 27 |
| 1970..... | 4 | 4 | 23 | 26 |
| 1975..... | 3 | 3 | 16 | 17 |
| 1980..... | 3 | 3 | 15 | 14 |
| 1985..... | 3 | 2 | 14 | 12 |
| 1990..... | 4 | 2 | 12 | 12 |
| 1993..... | 3 | 1 | 11 | 12 |
| 1994..... | 3 | 1 | 9 | 10 |
| ISLANDS: 1994 | | | | |
| Hawaii..... | - | - | 1 | 1 |
| Maui..... | 1 | 1 | 2 | 3 |
| Oahu..... | 2 | - | 2 | 2 |
| Kauai..... | - | - | 4 | 4 |

1/ In operation; excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, *Hawaiian Sugar Manual* (annual); Hawaii State Department of Agriculture, records; Dole Food Company, records.

Table 22.09-- SUGAR AND MOLASSES PRODUCTION: 1984 TO 1994

| Year | Cane land (acres) | | Cane used for sugar (short tons) | Sugar produced (short tons) | | Molasses produced (short tons) |
|-----------|-------------------|--------------------------|----------------------------------|-----------------------------|--------------------|--------------------------------|
| | Total area | Harvested area <u>1/</u> | | 96° raw value | Equivalent refined | |
| 1984..... | 188,396 | 89,541 | 8,453,721 | 1,061,814 | 992,371 | 314,202 |
| 1985..... | 187,858 | 83,029 | 7,916,459 | 1,012,249 | 946,048 | 271,645 |
| 1986..... | 184,181 | 83,583 | 8,379,463 | 1,042,452 | 974,276 | 290,422 |
| 1987..... | 180,966 | 79,498 | 8,012,899 | 979,209 | 915,169 | 283,250 |
| 1988..... | 177,693 | 78,861 | 7,602,414 | 928,195 | 867,491 | 274,375 |
| 1989..... | 170,813 | 74,660 | 7,078,479 | 863,614 | 807,134 | 229,377 |
| 1990..... | 161,991 | 71,998 | 6,540,925 | 819,631 | 766,027 | 220,859 |
| 1991..... | 155,609 | 67,716 | 5,852,668 | 724,100 | 676,744 | 202,214 |
| 1992..... | 145,790 | 62,123 | 5,432,286 | 652,304 | 609,643 | 203,739 |
| 1993..... | 121,322 | 64,705 | 5,506,702 | 677,405 | 623,103 | 211,658 |
| 1994..... | 98,413 | 64,951 | 5,268,859 | 658,538 | 615,470 | 200,835 |

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 1993-1994*, pp. 6-7, and records.

**Table 22.10-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY
EMPLOYMENT AND EARNINGS: 1973 TO 1993**

| Year | Average raw sugar price <u>1/</u> (cents per lb.) | Hourly-rated employees | | Average daily earnings <u>2/</u> (dollars) | |
|----------------------|--|--------------------------|----------------|---|-------------------|
| | | Average number <u>3/</u> | Total man-days | Cash wages | Employee benefits |
| 1973..... | 10.30 | 7,900 | 1,897,369 | 30.86 | 12.48 |
| 1974..... | 29.43 | 7,700 | 1,744,346 | 34.41 | 15.81 |
| 1975..... | 22.49 | 7,800 | 1,937,973 | 37.34 | 15.66 |
| 1976..... | 13.31 | 7,500 | 1,854,272 | 43.12 | 17.28 |
| 1977..... | 11.11 | 7,200 | 1,660,298 | 43.92 | 19.97 |
| 1978..... | 13.74 | 7,200 | 1,771,530 | 47.06 | 21.28 |
| 1979..... | 15.20 | 7,065 | 1,762,838 | 50.49 | 22.21 |
| 1980..... | 30.18 | 7,076 | 1,793,237 | 56.72 | 24.68 |
| 1981..... | 19.74 | 7,282 | 1,806,020 | 61.51 | 27.71 |
| 1982..... | 19.94 | 6,816 | 1,519,732 | 65.11 | 30.83 |
| 1983..... | 22.04 | 6,543 | 1,565,928 | 66.80 | 32.00 |
| 1984..... | 21.74 | 6,319 | 1,467,127 | 68.88 | 34.71 |
| 1985..... | 20.39 | 5,751 | 1,323,525 | 68.72 | 35.99 |
| 1986..... | 20.90 | 5,413 | 1,290,067 | 69.28 | 34.24 |
| 1987..... | 21.83 | 5,222 | 1,261,209 | 71.36 | 41.83 |
| 1988..... | 22.12 | 5,110 | 1,204,708 | 72.46 | 34.56 |
| 1989..... | 22.76 | 4,721 | 1,129,526 | 74.64 | 41.92 |
| 1990..... | 23.26 | 4,453 | 1,065,794 | 76.42 | 43.07 |
| 1991..... | 21.57 | 4,263 | 1,024,534 | 80.26 | 44.02 |
| 1992..... | 21.30 | 4,101 | 1,003,876 | 84.11 | 46.00 |
| 1993 <u>4/</u> | 21.62 | (NA) | (NA) | (NA) | (NA) |

NA Not available.

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices. New York spot price "nearby futures" used beginning June 1985.

2/ For non-supervisory employees.

3/ Adults only.

4/ HSPA employee data no longer compiled after 1992.

Source: Hawaiian Sugar Planters' Association, *HSPA Sugar Manual* (annual), as revised and corrected.

**Table 22.11-- VALUE OF SALES FOR PINEAPPLE AND SUGAR
PRODUCTION: 1980 TO 1994**

[In millions of dollars. Calendar year data unless otherwise specified]

| Year | Pineapple | | Sugar | |
|-----------|-----------------------------------|------------------------------|---------------------------|---------------------|
| | Canned fruit and juices <u>1/</u> | Fresh market sales <u>2/</u> | Raw sugar 96 ⁰ | 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 |

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.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services, including the motion picture industry. Related data are included in Sections 7, 12, 14 and 15.

These activities have undergone rapid growth in recent decades, largely because of surging tourism and higher price levels. Retail sales increased from \$5.2 billion in 1982 to \$8.3 billion in 1987 and over \$11.5 billion in 1992. Wholesale sales rose from \$4.1 billion in 1982 to \$8.0 billion in 1992. Hotels, amusements, and other services have reported similar increases during this period. General excise and use tax base data indicate continued increases; between 1990 and 1995, the retailing tax base rose 17 percent, the wholesaling base by 14 percent, and the base for services by 25 percent. Major retail concentrations include Waikiki, Ala Moana Center, Pearlridge Center, and downtown Honolulu. In addition to civilian retail outlets, there are many commissaries, exchanges, clubs, package stores, gasoline stations and food services maintained by the armed forces; these facilities had sales of \$558 million in 1988.

Growth has been especially rapid for hotels and related facilities. The number of units in the State rose from 62,400 in 1984 to 70,700 in 1994. There were 693 hotels, motels, transient condominiums, and apartment-hotels in Hawaii on the latter date, including 492 on the Neighbor Islands. Thirty percent of all transient units were in condominium structures. Occupancy rates averaged 82 percent in Waikiki and 69 percent on the Neighbor Islands during 1995. The average daily room rate was \$110 in 1995. Total hotel rentals in 1995 amounted to \$1.8 billion.

Fully 40 feature motion pictures and television specials and series were filmed in Hawaii in 1994, accounting for local expenditures of \$96 million.

The major sources of these data are the United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently published for 1992. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell Kerr Forster. The Film Industry Branch of the Department of Business, Economic Development & Tourism compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in *Historical Statistics of Hawaii*, Section 20. The *Statistical Abstract of the United States: 1995*, 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 1995**

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

| Year reported <u>1/</u> | Retailing | Services <u>2/</u> | Amusement, etc. <u>3/</u> | Intermediary services | Wholesaling |
|--------------------------------|------------------|---------------------------|----------------------------------|------------------------------|--------------------|
| 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 |

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, as revised).

**Table 23.02-- RETAIL ESTABLISHMENTS, BY PAYROLL STATUS:
1972 TO 1992**

[Coverage differed somewhat from census to census]

| Year | Number of establishments | | | Sales (million dollars) | | |
|-----------|--------------------------|--------------|-----------------|-------------------------|--------------|-----------------|
| | Total | With payroll | Without payroll | Total | With payroll | Without payroll |
| 1972..... | 6,392 | 4,491 | 1,901 | 1,865 | 1,820 | 45 |
| 1977..... | 7,388 | 5,273 | 2,115 | 3,294 | 3,223 | 71 |
| 1982..... | 8,917 | 6,139 | 2,778 | 5,193 | 5,102 | 92 |
| 1987..... | 11,143 | 7,195 | 3,948 | 8,267 | 8,084 | 183 |
| 1992..... | 13,185 | 7,807 | 5,378 | 11,510 | 11,250 | 260 |

Source: U.S. Bureau of the Census, *1972 Census of Retail Trade, Hawaii*, RC72-A-12 (July 1974), table 1; *1977 Census of Retail Trade, Hawaii*, RC77-A-12 (June 1979), table 1; *1982 Census of Retail Trade, Hawaii*, RC82-A-12 (September 1984), table 1; *1987 Census of Retail Trade, Hawaii*, RC87-A-12 (May 1989), table 1, and *Nonemployer Statistics Series, West*, RC87-N-4 (February 1990), table 2; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 1, and *Nonemployer Statistics Series, Summary*, RC92-N-1 (February 1995), table 3.

**Table 23.03-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS WITH
PAYROLL, FOR THE STATE, 1987 AND 1992, AND OAHU AND THE
NEIGHBOR ISLANDS, 1992**

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

| Subject | 1987 | 1992 | | |
|--|-----------|-------------|-----------|------------------|
| | | State total | Oahu | Neighbor islands |
| Number of establishments | 7,195 | 7,807 | 5,181 | 2,626 |
| Sales (\$1,000) | 8,084,416 | 11,250,217 | 8,341,630 | 2,908,587 |
| Annual payroll (\$1,000) | 1,016,127 | 1,481,034 | 1,078,685 | 402,349 |
| First quarter payroll (\$1,000) | 242,236 | 361,560 | 261,844 | 99,716 |
| Paid employees for pay period including March 12..... | 101,969 | 110,411 | 79,307 | 31,104 |

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), tables 1, 3, 7, and 8.

Table 23.04-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND URBAN PLACES: 1992

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

| Geographic area | Number of establishments | Sales (\$1,000) | Annual payroll (\$1,000) | Paid employees for pay period including March 12 |
|-------------------------|--------------------------|-----------------|--------------------------|--|
| State total | 7,807 | 11,250,217 | 1,481,034 | 110,411 |
| Hawaii County | 1,012 | 1,057,639 | 140,267 | 11,313 |
| Captain Cook | 8 | 15,295 | 1,320 | 89 |
| Hilo | 397 | 506,527 | 67,047 | 5,385 |
| Holualoa | 2 | (D) | (D) | (D) |
| Kailua | 294 | 270,607 | 36,646 | 3,046 |
| Kalaoa | 1 | (D) | (D) | (D) |
| Mountain View | - | - | - | - |
| Waimea | 4 | 4,791 | 714 | 32 |
| Balance of county | 306 | (D) | (D) | (D) |
| Honolulu County | 5,181 | 8,341,630 | 1,078,685 | 79,307 |
| Ahuimanu | 1 | (D) | (D) | (D) |
| Aiea | 326 | 473,230 | 58,727 | 4,886 |
| Ewa Beach | 24 | 31,196 | 3,985 | 353 |
| Ewa Villages | - | - | - | - |
| Halawa | - | - | - | - |
| Hauula | 12 | 13,348 | 1,529 | 112 |
| Heeia | 1 | (D) | (D) | (D) |
| Hickam Housing | - | - | - | - |
| Honolulu | 3,693 | 5,983,036 | 771,703 | 54,834 |
| Kahaluu | 2 | (D) | (D) | (D) |
| Kailua | 189 | 244,104 | 36,112 | 2,922 |
| Kaneohe | 223 | 361,995 | 47,626 | 3,766 |
| Kaneohe Station | 1 | (D) | (D) | (D) |
| Laie | 11 | 7,233 | 1,280 | 149 |
| Maile | 2 | (D) | (D) | (D) |
| Makaha | 1 | (D) | (D) | (D) |
| Makakilo City | 3 | (D) | (D) | (D) |
| Maunawili | - | - | - | - |
| Mililani Town | 68 | 104,623 | 12,905 | 1,041 |
| Nanakuli | 6 | 5,996 | 676 | 63 |
| Pearl City | 85 | 144,243 | 18,317 | 1,475 |
| Pupukea | - | - | - | - |

Continued on next page.

Table 23.04-- RETAIL ESTABLISHMENTS WITH PAYROLL, FOR COUNTIES AND URBAN PLACES: 1992 -- Con.

| Geographic area | Number of establishments | Sales (\$1,000) | Annual payroll (\$1,000) | Paid employees for pay period including March 12 |
|--------------------------|--------------------------|-----------------|--------------------------|--|
| Honolulu County - Cont. | | | | |
| Schofield Barracks | 3 | 611 | 136 | 7 |
| Wahiawa | 104 | 101,996 | 15,767 | 1,317 |
| Waialua | 12 | 5,646 | 954 | 86 |
| Waianae | 61 | 99,405 | 12,072 | 1,038 |
| Waimalu | 14 | 216,400 | 25,484 | 1,697 |
| Waimanalo | 16 | 15,635 | 2,389 | 160 |
| Waimanalo Beach | 6 | 7,490 | 808 | 58 |
| Waipahu | 178 | 349,473 | 41,117 | 2,761 |
| Waipio | 1 | (D) | (D) | (D) |
| Whitmore Village | - | - | - | - |
| Balance of county | 138 | 130,468 | 22,756 | 2,357 |
| Kauai County | 517 | 526,176 | 73,463 | 6,287 |
| Hanamaulu | 4 | 3,384 | 601 | 64 |
| Kalaheo | 9 | 4,824 | 793 | 74 |
| Kapaa | 133 | 130,712 | 17,534 | 1,414 |
| Kekaha | 4 | 1,527 | 152 | 17 |
| Lihue | 178 | 224,265 | 30,789 | 2,298 |
| Wailua Homesteads | - | - | - | - |
| Balance of county | 189 | 161,464 | 23,594 | 2,420 |
| Maui County | 1,097 | 1,324,772 | 188,619 | 13,504 |
| Haiku-Pauwela | 4 | (D) | (D) | (D) |
| Island of Lanai | 6 | 5,700 | 747 | 78 |
| Island of Molokai | 18 | 14,423 | 1,846 | 131 |
| Kahului | 223 | 478,844 | 56,254 | 3,635 |
| Kaunakakai | 8 | 14,730 | 1,365 | 90 |
| Kihei | 138 | 132,562 | 20,857 | 1,668 |
| Lahaina | 375 | 348,499 | 60,230 | 4,435 |
| Makawao | 19 | 10,383 | 1,970 | 154 |
| Napili-Honokowai | 6 | 3,001 | 693 | 51 |
| Pukalani | 21 | 41,106 | 5,005 | 425 |
| Wailea-Makena | 8 | 6,661 | 1,489 | 114 |
| Wailuku | 131 | 141,355 | 17,512 | 1,170 |
| Balance of county | 140 | (D) | (D) | (D) |

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii, RC92-A-12* (October 1990), table 4.

Table 23.05-- RETAIL ESTABLISHMENTS WITH PAYROLL, BY KIND OF BUSINESS: 1987 AND 1992

[Excludes establishments without payroll. Also excludes establishments operated by the armed forces]

| SIC code | Kind of business | Number of establishments | | Sales | | |
|------------|--|--------------------------|-------|----------------|----------------|----------------|
| | | 1987 | 1992 | 1987 (\$1,000) | 1992 (\$1,000) | Percent change |
| | Retail trade | 7,195 | 7,807 | 8,084,416 | 11,250,217 | 39.2 |
| 52 | Building materials and garden supplies | 149 | 157 | 230,051 | 327,967 | 42.6 |
| 53 | General merchandise | 151 | 147 | 1,253,965 | 1,868,516 | 49.0 |
| 54 | Food stores | 921 | 870 | 1,571,829 | 2,078,986 | 32.3 |
| 55 ex. 554 | Automotive dealers..... | 281 | 286 | 1,221,516 | 1,489,925 | 22.0 |
| 554 | Gasoline service stations..... | 355 | 326 | 427,232 | 550,193 | 28.8 |
| 56 | Apparel and accessory stores | 963 | 1,093 | 578,467 | 966,813 | 67.1 |
| 57 | Furniture and home-furnishings stores | 402 | 466 | 280,781 | 459,651 | 63.7 |
| 58 | Eating and drinking places | 2,209 | 2,576 | 1,350,648 | 1,841,416 | 36.3 |
| 591 | Drug and proprietary stores | 112 | 131 | 441,584 | 648,949 | 47.0 |
| 59 ex. 591 | Miscellaneous retail stores | 1,682 | 1,755 | 728,343 | 1,017,801 | 39.7 |

Source: U.S. Bureau of the Census, *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 3.

Table 23.06-- RETAIL SALES, BY TYPE OF STORE: 1992 AND 1993

[In millions of dollars]

| Kind of store | 1992 | 1993 |
|--|--------|------------------|
| All stores <u>1/</u> | 12,086 | <u>2/</u> 13,244 |
| Food stores | 2,194 | 2,474 |
| Supermarkets..... | 2,009 | 2,263 |
| General merchandise stores..... | 1,994 | 2,203 |
| Department stores..... | 1,593 | 1,764 |
| Automotive dealers | 1,673 | 1,947 |
| Eating and drinking places..... | 1,949 | 1,966 |
| Gasoline service stations..... | 698 | 792 |
| Building materials, hardware dealers..... | 364 | 426 |
| Apparel and accessories stores | 899 | 971 |
| Furniture, home furnishings, appliance stores..... | 475 | 521 |

1/ Includes other types of stores, not shown separately.

2/ Sales per household were \$34,454, highest of the 50 States. The U.S. ratio was \$21,683.

Source: Market Statistics estimates cited in *Statistical Abstract of the United States: 1995*, pp. 788-789.

Table 23.07-- SHOPPING CENTER CHARACTERISTICS: 1990 TO 1994

| Characteristic | 1990 | 1991 | 1992 | 1993 | 1994 |
|---|------|------|------|------|------|
| Number | 148 | 152 | 153 | 160 | 165 |
| Gross leasable area (mil. sq. ft.)..... | 14 | 14 | 15 | 16 | 17 |
| Retail sales (bil. dol.) | 2.6 | 2.6 | 2.7 | 2.9 | 3.1 |

Source: National Research Bureau data cited in *Statistical Abstract of the United States: 1995* (p. 786) and earlier editions.

Table 23.08-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1995

[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 | 220 |
| Kahala Mall | Honolulu | 1970 | 26 | 365 | 1,700 | 80 |
| Koko Marina S.C. | Honolulu | 1963 | 15 | 278 | 855 | 76 |
| Pearl City S.C. | Pearl City | 1965 | 14 | 251 | 864 | 36 |
| Pearl Highlands Ctr. | Pearl City | 1993 | 15 | 410 | 1,956 | 13 |
| Pearlridge Center | Aiea | 1972 | 67 | 1,200 | 6,273 | 185 |
| Waikiki Shopping Plaza..... | Honolulu | 1977 | 1 | 380 | 300 | 60 |
| Waialeale Center..... | Waipahu | 1994 | 60 | 720 | 9,100 | 67 |
| Windward Mall S.C. | Kaneohe | 1982 | 32 | 530 | 2,300 | 100 |
| Hawaii: | | | | | | |
| Keauhou Shopping Village.... | Kailua | 1985 | 8 | 163 | 826 | 25 |
| Makalapua Center. | Kailua | 1994 | 50 | 321 | (NA) | (NA) |
| Prince Kuhio Plaza | Hilo | 1985 | 46 | 505 | 2,891 | 115 |
| Maui: | | | | | | |
| Kaahumanu Center | Kahului | 1972 | 32 | 573 | 1,575 | 64 |
| Lahaina Center Factory Stores..... | Lahaina | 1990 | (NA) | 150 | (NA) | 5 |
| Maui Mall..... | Kahului | 1971 | 27 | 190 | 1,300 | 50 |
| Kauai: | | | | | | |
| Kukui Grove Center..... | Lihue | 1982 | 35 | 314 | 1,590 | 57 |

NA Not available.

Source: National Research Bureau, *Shopping Center Directory 1995, Western Volume*, 35th edition.

Table 23.09-- DUTY-FREE STORE REVENUES: 1984 TO 1994

[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 | 1990 | 413,932,037 |
| 1985 | 180,126,919 | 1991 | 378,587,469 |
| 1986 | 270,891,959 | 1992 | 421,953,644 |
| 1987 | 369,788,429 | 1993 | 397,322,968 |
| 1988 | 445,072,755 | 1994 | 413,417,555 |
| 1989 | 451,185,041 | | |

Source: DFS Hawaii, records.

Table 23.10-- ALCOHOLIC BEVERAGE SALES, BY TYPE: 1992 TO 1994

| Category | Wine gallons of 128 fluid ounces | | | Wholesale value, 1994 (dollars) |
|-----------------------------|----------------------------------|------------|------------|---------------------------------|
| | 1992 | 1993 | 1994 | |
| All types | 36,299,029 | 35,418,339 | 34,842,677 | 282,023,159 |
| Distilled spirits | 1,546,441 | 1,479,093 | 1,431,270 | 44,740,459 |
| Sparkling wine | 278,900 | 255,405 | 247,081 | 9,474,020 |
| Still wine | 2,212,174 | 2,168,233 | 2,301,420 | 45,082,336 |
| Cooler beverage | 294,924 | 277,787 | 223,325 | 1,793,814 |
| Draft beer | 1,631,686 | 1,569,064 | 1,552,134 | 5,904,429 |
| Beer other than draft | 30,334,904 | 29,668,757 | 29,087,447 | 175,028,101 |

Source: Hawaii State Department of Taxation, Tax Research and Planning, records.

**Table 23.11-- WHOLESALE TRADE ESTABLISHMENTS AND SALES:
1939 TO 1992**

[Based on then-current definition]

| Year | No of estab. | Sales (\$1,000) | Year | No. of estab. | Sales (\$1,000) |
|-----------|--------------|-----------------|-----------|---------------|-----------------|
| 1939..... | 704 | 97,045 | 1972..... | 1,336 | 1,538,429 |
| 1948..... | 702 | 480,734 | 1977..... | 1,569 | 2,571,489 |
| 1954..... | 594 | 581,940 | 1982..... | 1,737 | 4,084,369 |
| 1958..... | 793 | 618,155 | 1987..... | 1,998 | 5,362,490 |
| 1963..... | 974 | 735,205 | 1992..... | 2,202 | 8,001,621 |
| 1967..... | 1,030 | 1,013,813 | | | |

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (1977), table 20.7; U.S. Bureau of the Census, *1977 Census of Wholesale Trade, WC77-A-12* (Rev.), *1982 Census of Wholesale Trade, WC82-A-12*, *1987 Census of Wholesale Trade, WC87-A-12*, and *1992 Census of Wholesale Trade, WC92-A-12*.

**Table 23.12-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS,
FOR THE STATE, 1987 AND 1992, AND OAHU AND THE NEIGHBOR
ISLANDS, 1992**

| Subject | 1987 | 1992 | | |
|---|-----------|-------------|-----------|------------------|
| | | State total | Oahu | Neighbor Islands |
| Number of establishments..... | 1,998 | 2,202 | 1,690 | 512 |
| Sales (\$1,000)..... | 5,362,490 | 8,001,621 | 6,757,480 | 1,244,141 |
| Annual payroll (\$1,000)..... | 415,114 | 624,541 | 520,472 | 104,069 |
| First quarter payroll (\$1,000)..... | 100,963 | 150,772 | (NA) | (NA) |
| Paid employees for pay period including March 12 (number)..... | 20,157 | 23,308 | 18,847 | 4,461 |
| Operating expenses (\$1,000)..... | 883,223 | 1,332,892 | (NA) | (NA) |
| Inventories (\$1,000): | | | | |
| Beginning of year..... | 472,167 | 794,259 | (NA) | (NA) |
| End of year..... | 579,212 | 787,828 | (NA) | (NA) |

NA Not available.

Source: U.S. Bureau of the Census, *1987 Census of Wholesale Trade, Hawaii, WC87-A-12* (April 1989), table 1; *1992 Census of Wholesale Trade, Hawaii, WC92-A-12* (November 1994), tables 1, 3, 7, and 8.

Table 23.13-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1992

| Type of operation and kind of business | Number of establishments | Sales (\$1,000) |
|--|--------------------------|-----------------|
| Wholesale trade | 2,202 | 8,001,621 |
| Type of operation: | | |
| Merchant wholesalers | 1,885 | 5,334,775 |
| Manufacturers' sales branches and sales offices | 141 | 1,849,467 |
| Agents, brokers, and commission merchants | 176 | 817,379 |
| Kind of business: | | |
| Motor vehicles and motor vehicle parts and supplies..... | 121 | 354,209 |
| Furniture and homefurnishings..... | 80 | 166,265 |
| Lumber and other construction materials..... | 181 | 465,861 |
| Professional and commercial equipment and supplies | 123 | 457,866 |
| Metals and minerals, except petroleum..... | 23 | 81,988 |
| Electrical goods | 130 | 553,741 |
| Hardware, and plumbing and heating equipment and supplies .. | 107 | 241,480 |
| Machinery, equipment, and supplies | 153 | 343,191 |
| Miscellaneous durable goods | 213 | 396,691 |
| Paper and paper products | 100 | 350,724 |
| Drugs, drug proprietaries, and druggists' sundries | 50 | 349,716 |
| Apparel, piece goods, and notions..... | 125 | 196,947 |
| Groceries and related products | 404 | 2,046,337 |
| Farm-product raw materials | 13 | 18,102 |
| Chemicals and allied products..... | 44 | 164,997 |
| Petroleum and petroleum products..... | 56 | 1,023,655 |
| Beer, wine, and distilled alcoholic beverages | 37 | 348,616 |
| Miscellaneous nondurable goods | 242 | 441,235 |

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 1.

Table 23.14-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1992

| Geographic area | All wholesalers | | Merchant wholesalers | |
|------------------------|--------------------------|-----------------|--------------------------|-----------------|
| | Number of establishments | Sales (\$1,000) | Number of establishments | Sales (\$1,000) |
| State total | 2,202 | 8,001,621 | 1,885 | 5,334,775 |
| Hawaii County | 228 | 537,485 | 204 | 430,234 |
| Hilo | 121 | 371,154 | 108 | 276,073 |
| Kailua..... | 60 | 90,299 | 55 | 80,376 |
| Honolulu County..... | 1,690 | 6,757,480 | 1,426 | 4,343,180 |
| Aiea | 101 | 324,272 | 87 | 251,348 |
| Ewa Beach..... | 36 | 407,662 | 31 | 353,905 |
| Honolulu..... | 1,303 | 5,276,318 | 1,094 | 3,139,135 |
| Kailua..... | 39 | 45,367 | 29 | 33,984 |
| Kaneohe..... | 34 | 53,836 | 30 | 41,846 |
| Mililani Town..... | 13 | 47,699 | 9 | 44,791 |
| Pearl City | 39 | 158,511 | 33 | 78,235 |
| Waipahu | 77 | 312,820 | 69 | 295,870 |
| Kauai County..... | 92 | 194,257 | 83 | 133,942 |
| Lihue..... | 49 | 113,237 | 43 | (D) |
| Maui County | 192 | 512,399 | 172 | 427,419 |
| Island of Lanai..... | 2 | (D) | - | - |
| Island of Molokai..... | 4 | (D) | 3 | 2,826 |
| Kahului..... | 70 | 272,494 | 63 | 227,813 |
| Wailuku..... | 56 | 131,963 | 52 | 120,157 |

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 4.

**Table 23.15-- SERVICE ESTABLISHMENTS, BY PAYROLL STATUS:
1972 TO 1992**

[Data not adjusted for changing coverage over time. Data exclude firms exempt from Federal income tax for all years, hospitals prior to 1987, and most other health services before 1982]

| Year | Number of establishments | | | Receipts (million dollars) | | |
|-----------|--------------------------|--------------|-----------------|----------------------------|--------------|-----------------|
| | Total | With payroll | Without payroll | Total | With payroll | Without payroll |
| 1972..... | 6,348 | 3,031 | 3,317 | 683 | 648 | 35 |
| 1977..... | 8,023 | 3,306 | 4,717 | 1,276 | 1,216 | 60 |
| 1982..... | (NA) | 6,124 | (NA) | (NA) | 2,660 | (NA) |
| 1987..... | 30,114 | 7,458 | 22,656 | 4,902 | 4,456 | 446 |
| 1992..... | 41,584 | 8,468 | 33,116 | 8,027 | 7,291 | 736 |

NA Not available.

Source: U.S. Bureau of the Census, *1972 Census of Selected Service Industries, Hawaii*, SC72-A-12 (July 1974), table 1; *1977 Census of Service Industries, Hawaii*, SC77-A-12 (December 1979), table 1; *1982 Census of Service Industries, Hawaii*, SC82-A-12 (September 1984), table 1; *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989), table 1, and *Nonemployer Statistics Series, West*, SC87-N-4 (March 1990), table 2; and *1992 Census of Service Industries, Nonemployer Statistics Series, Summary*, SC92-N-1 (March 1995), table 3.

Table 23.16-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH PAYROLL, FOR THE STATE, 1987 AND 1992, AND OAHU AND THE NEIGHBOR ISLANDS, 1992

| Subject | 1987 | 1992 | | |
|---|-----------|-------------|-----------|------------------|
| | | State total | Oahu | Neighbor islands |
| FIRMS SUBJECT TO FEDERAL INCOME TAX | | | | |
| Number of establishments | 7,458 | 8,468 | 6,248 | 2,220 |
| Receipts (\$1,000) | 4,455,953 | 7,290,719 | 5,368,982 | 1,921,737 |
| Annual payroll (\$1,000) | 1,499,500 | 2,654,278 | 1,944,260 | 710,018 |
| First quarter payroll (\$1,000) | 356,723 | 617,437 | 443,438 | 173,999 |
| Paid employees <u>1/</u> | 91,673 | 117,965 | 81,084 | 36,881 |
| FIRMS EXEMPT FROM FEDERAL INCOME TAX | | | | |
| Number of establishments | 998 | 1,032 | 690 | 342 |
| Revenue (\$1,000) | 1,222,359 | 2,081,077 | 1,718,951 | 362,126 |
| Expenses (\$1,000) | 1,155,012 | 1,937,721 | (NA) | (NA) |
| Annual payroll (\$1,000) | 521,108 | 923,630 | 768,048 | 155,582 |
| First quarter payroll (\$1,000) | 128,303 | 227,965 | 189,433 | 38,532 |
| Paid employees <u>1/</u> | 28,541 | 37,492 | 30,622 | 6,870 |

NA Not available.

1/ For pay period including March 12.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii, SC92-A-12* (August 1994), tables la, lb, 3a, 3b, 7a, 7b, 8a, and 8b.

Table 23.17-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1992

| Geographic area | Number of establishments | | Receipts (\$1,000) | |
|------------------------|--------------------------|------------------|--------------------|------------------|
| | All services | Hotels <u>1/</u> | All services | Hotels <u>1/</u> |
| State total | 8,468 | 267 | 7,290,719 | 2,248,082 |
| Hawaii County | 974 | 37 | 651,105 | (D) |
| Hilo | 430 | 9 | 204,396 | (D) |
| Kailua | 252 | 10 | 149,521 | 38,422 |
| Honolulu County | 6,248 | 135 | 5,368,982 | (D) |
| Aiea | 288 | 3 | 165,156 | 3,906 |
| Ewa Beach | 51 | - | 38,564 | - |
| Honolulu | 4,797 | 123 | 4,559,049 | 1,236,343 |
| Kailua | 259 | 1 | 98,330 | (D) |
| Kaneohe | 226 | 1 | 81,928 | (D) |
| Mililani Town..... | 65 | - | 28,210 | - |
| Pearl City..... | 118 | - | 65,224 | - |
| Wahiawa | 92 | - | 30,426 | - |
| Waianae | 43 | 1 | 25,687 | (D) |
| Waipahu | 165 | - | 67,314 | - |
| Kauai County..... | 366 | 28 | 352,279 | 191,548 |
| Kapaa | 71 | 8 | 31,911 | 18,636 |
| Lihue | 149 | 9 | 140,529 | (D) |
| Maui County | 880 | 67 | 918,353 | (D) |
| Island of Lanai | 2 | - | (D) | - |
| Island of Molokai..... | 20 | 3 | 11,803 | (D) |
| Kahului | 195 | 3 | 128,700 | (D) |
| Kihei | 121 | 17 | 149,065 | 112,386 |
| Lahaina..... | 137 | 20 | 167,454 | 118,132 |
| Wailuku | 254 | 2 | 131,363 | (D) |

D Withheld to avoid disclosing data for individual companies.

1/ Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), table 4.

Table 23.18-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION: 1987 AND 1992

| SIC code | Kind of business or operation | Number of establishments | | Receipts | | |
|-------------|---|--------------------------|-------|----------------|----------------|----------------|
| | | 1987 | 1992 | 1987 (\$1,000) | 1992 (\$1,000) | Percent change |
| | Total | 7,458 | 8,468 | 4,455,953 | 7,290,719 | 63.6 |
| 70 ex. 704 | Hotels, motels, other lodging | 237 | 267 | 1,562,043 | 2,248,082 | 43.9 |
| 72 | Personal services..... | 699 | 746 | 145,045 | 221,769 | 52.9 |
| 73 | Business services | 1,056 | 1,348 | 456,740 | 768,486 | 68.3 |
| 75 | Automotive repair, services, & parking | 653 | 720 | 416,441 | 598,685 | 43.8 |
| 76 | Miscellaneous repair services..... | 255 | 281 | 72,490 | 124,504 | 71.8 |
| 78, 79 | Amusement & recreation services, including motion pictures and museums..... | 532 | 688 | 229,608 | 456,200 | 98.7 |
| 80 | Health services | 1,981 | 2,225 | 742,548 | 1,310,880 | 76.5 |
| 81 | Legal services..... | 721 | 741 | 315,500 | 481,540 | 52.6 |
| 823, 4, 9 | Selected educational services..... | 62 | 93 | 11,829 | 20,225 | 71.0 |
| 83 | Social services..... | 90 | 105 | 19,319 | 33,546 | 73.6 |
| 87 ex. 8733 | Engineering and related services <u>1</u> /..... | 1,099 | 1,204 | 473,389 | 1,000,148 | 111.3 |
| 89 | Services, n.e.c. | 73 | 50 | 11,001 | 26,654 | 142.3 |

1/ Includes engineering, architectural, surveying, accounting, research, management, and related services (except noncommercial research organizations).

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), table 3a.

**Table 23.19-- ARRANGEMENT OF PASSENGER TRANSPORTATION
(SIC 472): 1992**

[Includes only establishments with payroll]

| Kind of business | Establishments | Revenue (\$1,000) | Annual payroll (\$1,000) | Paid employees, Mar. 12 |
|---|----------------|-------------------|--------------------------|-------------------------|
| All establishments..... | 553 | 362,211 | 123,571 | 5,789 |
| Travel agencies..... | 364 | 138,322 | 49,935 | 2,338 |
| Tour operators..... | 161 | 205,493 | 68,006 | 3,241 |
| Arrangement of passenger transportation, n.e.c..... | 28 | 18,396 | 5,630 | 210 |

n.e.c. Not elsewhere classified.

Source: U.S. Bureau of the Census, *1992 Census of Transportation, Communications, and Utilities, UC92-A-1, Summary* (March 1995), table 1.

**Table 23.20-- HOTELS, MOTELS, AND OTHER LODGING PLACES WITH
AND WITHOUT PAYROLL: 1992**

[Data apparently exclude condominium units in rental pools intended for transient use]

| SIC code | Kind of business | Number of establishments | | Receipts (million dollars) | |
|------------|-----------------------------------|--------------------------|-----------------|----------------------------|-----------------|
| | | With payroll | Without payroll | With payroll | Without payroll |
| 70 ex. 704 | Total..... | 267 | 369 | 2,248 | 11 |
| 7011 | Hotels and motels..... | 256 | 151 | 2,246 | 5 |
| 702,3 | Other lodging places..... | 11 | 218 | 2 | 6 |
| 702 | Rooming and boarding houses | 10 | 213 | (D) | 6 |
| 703 | Camps and rec. vehicle parks..... | 1 | 5 | (D) | (Z) |

D Withheld to avoid disclosing data for individual companies.

Z Less than \$500,000.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Nonemployer Statistics Series, Summary, SC92-N-1* (March 1995), table 3.

Table 23.21-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1992

[Includes only establishments with payroll. Apparently excludes condominium units in rental pools for transient use]

| Subject | Number of establishments | Receipts (\$1,000) | Annual payroll (\$1,000) | Paid employees, pay period including March 12 |
|--|--------------------------|--------------------|--------------------------|---|
| SUBJECT TO FEDERAL INCOME TAX | | | | |
| Hotels, motels, other lodging..... | 267 | 2,248,082 | 761,453 | 41,038 |
| Hotels..... | 226 | 2,233,841 | 758,533 | 40,792 |
| 25 guestrooms or more..... | 211 | 2,230,571 | 757,604 | 40,727 |
| Less than 25 guestrooms..... | 15 | 3,270 | 929 | 65 |
| Motels, motor hotels, tourist courts..... | 30 | 12,017 | 2,373 | 208 |
| Other lodging places <u>1/</u> | 11 | 2,224 | 547 | 38 |
| EXEMPT FROM FEDERAL INCOME TAX | | | | |
| Camps and membership lodging <u>2/</u> | 1 | (D) | (D) | (D) |

D Withheld to avoid disclosing data for individual companies.

1/ Rooming and boarding houses, 10 establishments; camps and recreational vehicle parks, 1.

2/ Sporting and recreational camps, 1; organization hotels and lodging houses on membership basis, none.

Source: U.S. Bureau of the Census, *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), tables 1a and 1b.

Table 23.22-- VISITOR ACCOMMODATIONS, BY TYPE, 1984 TO 1994, AND BY ISLANDS, 1994

[As of February 1984-1991, Spring 1992, June 1993, and December 1994]

| Year and island | Properties | | | Units | | |
|--------------------------|------------|------------------|-------------------------|--------|------------------|-------------------------|
| | Total | Hotels <u>1/</u> | Condo-miniums <u>2/</u> | Total | Hotels <u>1/</u> | Condo-miniums <u>2/</u> |
| 1984..... | 443 | 209 | 234 | 62,448 | 44,846 | 17,602 |
| 1985..... | 481 | 207 | 274 | 65,919 | 44,115 | 21,804 |
| 1986..... | 523 | 201 | 322 | 66,308 | 43,309 | 22,999 |
| 1987..... | 510 | 196 | 314 | 65,318 | 43,422 | 21,896 |
| 1988..... | 481 | 203 | 278 | 69,012 | 47,892 | 21,120 |
| 1989..... | 453 | 197 | 256 | 68,034 | 48,894 | 19,140 |
| 1990..... | 534 | 264 | 270 | 71,566 | 52,438 | 19,128 |
| 1991..... | 596 | 313 | 283 | 72,575 | 52,468 | 19,887 |
| 1992..... | 671 | 374 | 297 | 73,779 | 51,134 | 22,645 |
| 1993..... | 701 | 407 | 294 | 70,542 | 49,461 | 21,081 |
| 1994..... | 693 | 397 | 296 | 70,683 | 49,436 | 21,247 |
| ISLANDS: 1994 | | | | | | |
| Oahu..... | 201 | 146 | 55 | 36,194 | 29,359 | 6,835 |
| Waikiki <u>3/</u> | 123 | 76 | 47 | 31,033 | 24,883 | 6,150 |
| Rest of Oahu ... | 78 | 70 | 8 | 5,161 | 4,476 | 685 |
| Other islands..... | 492 | 251 | 241 | 34,489 | 20,077 | 14,412 |
| Hawaii..... | 149 | 93 | 56 | 9,595 | 7,112 | 2,483 |
| Maui..... | 206 | 76 | 130 | 18,141 | 9,359 | 8,782 |
| Lanai..... | 5 | 5 | - | 367 | 367 | - |
| Molokai..... | 9 | 4 | 5 | 516 | 249 | 267 |
| Kauai..... | 123 | 73 | 50 | 5,870 | 2,990 | 2,880 |

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.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory*, 1984 to 1994, as corrected.

Table 23.23-- VISITOR ACCOMMODATIONS, BY TYPE AND GEOGRAPHIC AREA: DECEMBER 1994

| Type of accommodation | Properties | | | Units | | |
|---------------------------|-------------|------|---------------|-------------|--------|---------------|
| | State total | Oahu | Other islands | State total | Oahu | Other islands |
| All types..... | 693 | 201 | 492 | 70,683 | 36,194 | 34,489 |
| Apartment-hotel..... | 20 | 12 | 8 | 528 | 417 | 111 |
| Bed and breakfast | 108 | 18 | 90 | 495 | 40 | 455 |
| Condominium..... | 209 | 25 | 184 | 10,588 | 1,936 | 8,652 |
| Condo and hotel..... | 87 | 30 | 57 | 10,659 | 4,899 | 5,760 |
| Cottage, bungalow..... | 52 | 20 | 32 | 318 | 46 | 272 |
| Hotel | 160 | 80 | 80 | 47,311 | 28,414 | 18,897 |
| Other ^{1/} | 57 | 16 | 41 | 784 | 442 | 342 |

^{1/} Hostel, lodge, etc.

Source: Hawaii Visitors Bureau, *1994 Visitor Plant Inventory*, p. 2.

Table 23.24-- HOTELS AND MOTELS (SIC 701), BY COUNTIES: 1988 TO 1993

| County | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 |
|-------------------|------|------|------|------|------|------|
| State total | 221 | 243 | 233 | 260 | 264 | 266 |
| Hawaii..... | 36 | 38 | 35 | 36 | 37 | 37 |
| Honolulu..... | 123 | 132 | 124 | 138 | 131 | 134 |
| Kauai..... | 22 | 27 | 24 | 33 | 30 | 29 |
| Maui..... | 40 | 46 | 50 | 53 | 66 | 66 |

Source: U.S. Bureau of the Census, *County Business Patterns, Hawaii* (annual report) and 1993 CD-ROM.

**Table 23.25-- VISITOR ACCOMMODATIONS, BY NIGHTLY PRICE:
DECEMBER 1994**

| Island and type of accommodation | All levels | \$100 or less | \$101 to \$250 | \$251 to \$500 | Over \$500 |
|---|-------------------|----------------------|-----------------------|-----------------------|-------------------|
| Number reporting | 69,137 | 21,935 | 30,588 | 15,448 | 1,166 |
| Island: | | | | | |
| Oahu | 35,358 | 12,831 | 16,250 | 5,866 | 411 |
| Hawaii | 9,161 | 2,726 | 3,870 | 2,376 | 189 |
| Kauai | 5,824 | 1,685 | 2,847 | 1,212 | 80 |
| Maui | 17,968 | 4,496 | 7,325 | 5,700 | 447 |
| Molokai..... | 459 | 195 | 260 | 4 | - |
| Lanai | 367 | 2 | 36 | 290 | 39 |
| Type of accommodation: | | | | | |
| Apartment, apartment-hotel | 506 | 449 | 57 | - | - |
| Bed and breakfast | 395 | 315 | 76 | 3 | 1 |
| Condominium | 9,807 | 3,845 | 5,265 | 659 | 38 |
| Hotel | 46,753 | 11,494 | 21,064 | 13,168 | 1,027 |
| Hotel/condominium..... | 10,618 | 5,072 | 3,861 | 1,587 | 98 |
| Other | 1,058 | 760 | 265 | 31 | 2 |

Source: Hawaii Visitors Bureau, *1994 Visitor Plant Inventory*, pp. 16 and 18.

**Table 23.26-- HOTEL ROOMS, OCCUPANCY RATES, AND DAILY ROOM
AND GUEST RATES: 1985 TO 1995**

[Includes condominium units in rental pools for transient occupancy]

| Year | Hotel units <u>1/</u> | | | Percent occupied <u>2/</u> | Daily rates per room <u>2/</u> (dollars) | Guests per room <u>2/</u> |
|-----------|-----------------------|--------|---------------|----------------------------|--|---------------------------|
| | State total | Oahu | Other islands | | | |
| 1985..... | 65,919 | 38,600 | 27,319 | 76.1 | 68.84 | 2.00 |
| 1986..... | 66,308 | 39,010 | 27,298 | 81.7 | 73.20 | 1.99 |
| 1987..... | 65,318 | 38,185 | 27,133 | 81.1 | 80.09 | 1.99 |
| 1988..... | 69,012 | 37,841 | 31,171 | 78.5 | 87.94 | 1.99 |
| 1989..... | 68,034 | 36,467 | 31,567 | 79.0 | 95.83 | 2.00 |
| 1990..... | 71,566 | 36,899 | 34,667 | 78.8 | 102.10 | 2.01 |
| 1991..... | 72,575 | 36,623 | 35,952 | 72.4 | 101.89 | 2.01 |
| 1992..... | 73,779 | 37,279 | 36,500 | 72.6 | 105.59 | 2.02 |
| 1993..... | 70,542 | 37,032 | 33,510 | 72.0 | 103.26 | 2.04 |
| 1994..... | 70,683 | 36,194 | 34,489 | 76.5 | 105.46 | 2.04 |
| 1995..... | (NA) | (NA) | (NA) | 76.6 | 110.27 | 2.05 |

NA Not available.

1/ February data through 1991; Spring 1992; June 1993; and December 1994.

2/ Annual averages for hotels in PKF sample.

Source: Hawaii Visitors Bureau, *1994 Visitor Plant Inventory Report*; PKF-Hawaii, *Trends in the Hotel Industry, Hawaii* (December issues), and records.

**Table 23.27-- HOTEL ROOM OCCUPANCY AND ROOM RATES, BY
GEOGRAPHIC AREAS: 1995**

[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 | 76.63 | 110.27 | 84.50 |
| Oahu | 81.45 | 101.37 | 82.56 |
| Waikiki | 81.79 | 102.70 | 84.00 |
| Other Oahu..... | 76.19 | 79.12 | 60.29 |
| Hawaii | 60.44 | 114.51 | 69.21 |
| Hilo..... | (NA) | (NA) | (NA) |
| Kona..... | 57.30 | 70.44 | 40.36 |
| Kohala | 61.43 | 166.04 | 102.00 |
| Maui | 75.30 | 135.01 | 101.66 |
| Kaanapali | 82.26 | 139.29 | 114.58 |
| West Maui | 73.60 | 117.45 | 86.44 |
| Other | 67.71 | 144.58 | 97.90 |
| Kauai..... | 65.23 | 126.67 | 82.62 |
| North | 66.78 | 174.34 | 116.43 |
| Central..... | 60.67 | 73.91 | 44.84 |
| South..... | 70.02 | 162.33 | 113.66 |
| Molokai | 37.47 | 71.85 | 26.92 |
| All Neighbor Islands..... | 68.62 | 127.87 | 87.75 |

NA Not available.

Source: PKF-Hawaii, *Trends in the Hotel Industry, Hawaii*, December 1995, and records.

**Table 23.28-- GENERAL EXCISE TAX BASE FOR RENTALS:
1985 TO 1995**

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

| Year reported <u>1/</u> | Total | Hotel rentals | All other rentals <u>2/</u> |
|--------------------------------|--------------|----------------------|------------------------------------|
| 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 |

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, as revised).

**Table 23.29-- COMPUTER AND SOFTWARE STORES AND SERVICES,
1992, AND COMPUTER OWNERSHIP, 1994**

| Type of establishment | No. of establishments | Sales (\$1,000) |
|--|-----------------------|-----------------|
| Wholesale trade, 1992: Computers and computer peripheral equipment and software (SIC 5045) | 49 | 177,123 |
| Retail trade, 1992: Computer and software stores (SIC 5734) | 29 | 43,766 |
| Services, 1992: Computer programming, prepackaged software, and integrated systems (SIC 7371, 2, 3) | 79 | 47,250 |
| Data processing services (SIC 7374, 5, 6) | 39 | 46,858 |
| Computer rental and leasing, maintenance, and related services (SIC 7377, 8, 9) | 47 | 18,857 |
| Subject | | Amount |
| Computer ownership by persons 18 and over, 1994: | | |
| Number of persons | | 341,204 |
| Percent of population 18 and over | | 38.4 |

Source: U.S. Bureau of the Census, *1992 Census of Wholesale Trade, Hawaii*, WC92-A-12 (November 1994), table 1; *1992 Census of Retail Trade, Hawaii*, RC92-A-12 (October 1994), table 1; *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994), table 1. Simmons/SMS Hawaii Media & Market Study 1994, cited in *Pacific Business News*, March 20, 1995, p. 34.

Table 23.30-- MOTION PICTURE SERVICES: 1977 TO 1993

[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 |
| 1993 | 53 | (NA) | 7,291 | 214 |
| Motion picture theaters (SIC 783): | | | | |
| 1977 <u>1/</u> | 50 | 17,444 | (D) | (D) |
| 1982 | 36 | 21,329 | 3,195 | 519 |
| 1987 | 35 | (D) | (D) | (D) |
| 1992 | 34 | (D) | (D) | (D) |
| 1993 | 34 | (NA) | 8,103 | 579 |
| Video tape rental (SIC 784): | | | | |
| 1987 | 78 | 12,319 | 2,456 | 376 |
| 1992 | 78 | 26,909 | 5,252 | 545 |
| 1993 | 80 | (NA) | 5,653 | 546 |

D Withheld to avoid disclosing data for individual companies.

NA Not available.

1/ Data include 3 establishments without payroll.

Source: U.S. Bureau of the Census, *1977 Census of Service Industries, Hawaii*, SC77-A-12 (December 1979); *1982 Census of Service Industries, Hawaii*, SC82-A-12 (September 1984); *1982 Census of Service Industries, Motion Picture Industry*, SC82-I-4 (December 1985); *1987 Census of Service Industries, Hawaii*, SC87-A-12 (July 1989); *1992 Census of Service Industries, Hawaii*, SC92-A-12 (August 1994); *County Business Patterns 1993, Hawaii*, CBP-93-13 (August 1993).

**Table 23.31-- MOTION PICTURE AND TELEVISION PRODUCTION:
1992 TO 1994**

| Subject | 1992 | 1993 | 1994 |
|---|-------|------|-------|
| Number of features and programs filmed <u>1/</u> | 27 | 20 | 40 |
| Feature films for theater viewing..... | 2 | 3 | 6 |
| TV movie of the week, television episodic, specials..... | 5 | 2 | 3 |
| Hawaii based TV network series | 20 | 15 | 31 |
| Expenditures in Hawaii (million dollars) | 56.8 | 45.0 | 96.5 |
| Commercials | 6.3 | 7.3 | 5.9 |
| Hawaii-based TV series | 12.9 | 3.9 | 24.2 |
| Feature films | 5.4 | 3.6 | 33.4 |
| TV specials/episodics/movie of week..... | 3.4 | 2.0 | 6.4 |
| Others (still photography, sports, exercise or music video, cable, misc.)..... | 4.8 | 2.7 | 4.4 |
| Documentaries/industrials/news/educational/ travelog/video stock..... | 2.0 | 1.7 | 2.1 |
| Annual permit holders..... | 4.9 | 6.5 | 6.1 |
| Private property projects..... | 8.5 | 7.2 | 5.7 |
| Sports events, annual (private) | 8.6 | 10.1 | 8.3 |
| Tax revenues generated (million dollars) | 9.1 | 6.7 | 14.4 |
| Spending effect on economy (million dollars) | 115.9 | 91.8 | 196.9 |

1/ Each program in a series counted separately. Includes Hawaii TV network affiliates' locally produced programs. However, expenditures do not reflect the costs of such production.

Source: Hawaii State Department of Business, Economic Development & Tourism, Hawaii Film Office, records.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Hawaii's imports from foreign nations increased from \$1.6 billion in 1984 to \$2.8 billion in 1994. Exports to foreign countries amounted to only \$317 million in 1984, but by 1994 reached \$985 million. These figures, it should be noted, refer to merchandise imports and exports through the Hawaii Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State. Exports actually originating in Hawaii, first compiled for 1987, totaled only \$178 million in 1994.

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from \$4.7 billion in 1982 to \$9.3 billion in 1992. Estimates of the value of merchandise shipped to the Mainland are no longer available.

Honolulu Foreign-Trade Zone No. 9 handled merchandise valued at \$55 million in fiscal 1995. Merchandise handled by Subzone No. 9A, the BHP refinery, was valued at \$1.0 billion, almost all of it in petroleum and petroleum products. The other four subzones accounted for a combined total of \$854 million.

Foreign-owned businesses in Hawaii had property, plant, and equipment with a gross book value of \$10.0 billion in 1992 and employed 54,000 persons. Foreign investments in Hawaii between 1959 and 1994 totaled \$16.4 billion, over 86 percent of it Japanese.

Sources for statistics on interstate and foreign commerce and foreign investment include the U.S. Bureau of the Census and Bureau of Economic Analysis, Foreign-Trade Zone No. 9 and its subzones, the DBEDT Business Development and Marketing Division, the Honolulu Department of Finance, and Kenneth Leventhal & Co. Further information is found in waterborne cargo data compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 28 of *Statistical Abstract of the United States: 1995*. Long-term Island trends are summarized in *Historical Statistics of Hawaii*, Section 21.

Table 24.01-- INTERSTATE AND FOREIGN TRADE: 1970 TO 1992

[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 ^{2/} | 10,455.0 | 8,484.9 | 8,015.3 | 469.6 | 1,970.1 | 1,498.5 |
| 1990 ^{2/} | 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..... | 11,779.5 | 9,285.6 | 8,705.4 | 580.2 | 2,493.9 | 1,635.0 |

^{1/} Not available separately for foreign and domestic exports.

^{2/} Revised from *Data Book 1993-94*, table 24.1.

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 1994**

[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 <u>1/</u> | Imports for consumption <u>1/</u> | Exports of domestic and foreign merchandise <u>2/</u> | |
|-----------|---------------------------|-----------------------------------|---|--------------------------------|
| | | | Total through Hawaii | Originated in Hawaii <u>3/</u> |
| 1984..... | 1,614.2 | 1,397.9 | 316.9 | ... |
| 1985..... | 1,756.3 | 1,553.1 | 388.8 | ... |
| 1986..... | 1,556.9 | 1,425.4 | 231.1 | ... |
| 1987..... | 1,770.1 | 1,558.6 | 392.8 | 151.7 |
| 1988..... | 1,839.6 | 1,559.1 | 572.6 | 130.7 |
| 1989..... | 1,970.1 | 1,735.9 | 537.4 | 160.0 |
| 1990..... | 2,260.6 | 2,100.3 | 512.2 | 178.7 |
| 1991..... | 1,620.9 | 1,892.4 | 568.3 | 147.7 |
| 1992..... | 2,395.8 | 2,119.8 | 604.2 | 206.2 |
| 1993..... | 2,426.0 | 2,218.1 | 1,099.7 | 186.6 |
| 1994..... | 2,802.0 | 2,530.8 | 985.4 | 177.6 |

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under \$251.

2/ Totals are on f.a.s. (free alongside ship) basis.

3/ Includes merchandise exports originated in Hawaii and exported through other customs districts. Not available before 1987.

Source: U.S. Bureau of the Census, *Highlights of U.S. Export and Import Trade*, FT990, cumulative totals in December issues, 1984-1988; *U.S. Merchandise Trade: Selected Highlights*, FT920, December 1989 to 1994; *U.S. Merchandise Trade*, FT900 Supplement, December 1989 to 1994; and records.

**Table 24.03-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS
DISTRICT, BY CLASSIFICATION: 1992 TO 1994**

[In millions of dollars]

| Classification | 1992 | 1993 | 1994 |
|---|----------|----------|----------|
| General imports by district of entry: | | | |
| Customs value <u>1/</u> | 2,395.77 | 2,426.04 | 2,802.00 |
| C.i.f. value <u>2/</u> | 2,510.07 | 2,536.99 | 2,923.06 |
| General imports by district of unloading: | | | |
| Customs value <u>1/</u> | 2,733.60 | 2,826.79 | 3,160.26 |
| C.i.f. value <u>2/</u> | 2,866.43 | 2,957.96 | 3,307.83 |
| Imports for consumption by district of entry (customs value <u>1/</u>)..... | 2,119.77 | 2,218.10 | 2,530.83 |
| Exports of domestic and foreign merchandise by district of export (f.a.s. value <u>3/</u>)..... | 604.23 | 1,099.70 | 985.42 |
| Exports of merchandise by State of origination <u>4/</u> | 206.2 | 186.6 | 177.6 |
| Manufactured commodities..... | 150.1 | 143.2 | 125.3 |
| Non-manufactured commodities..... | 56.1 | 43.4 | 52.3 |

1/ Prices paid by the buyer to the seller in accordance with the 1979 Trade Agreement Act amendments to the 1930 Tariff Act.

2/ Cost, insurance and freight.

3/ Free alongside ship value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges; excludes cost of loading merchandise aboard the exporting carrier and also excludes freight, insurance, etc., beyond the U.S. port of exportation.

4/ Includes merchandise exports originated in Hawaii and exported through other customs districts.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Selected Highlights*, FT920, for December 1992, 1993, and 1994, tables 1, 4, 5 and 6, and *U.S. Merchandise Trade*, FT900 Supplement, for December 1992, 1993, and 1994, exhibit 2.

Table 24.04-- FOREIGN TRADE THROUGH THE HAWAII CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1992 TO 1994

[Data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

| Category and year | Value (million dollars) | | | Shipping weight (mil. kgs.) | |
|-----------------------------------|-------------------------|----------|----------|-----------------------------|-------|
| | Total <u>1/</u> | Vessel | Air | Vessel | Air |
| General imports: <u>2/</u> | | | | | |
| 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 |
| Exports: <u>3/</u> | | | | | |
| 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 |

1/ Includes categories not tabulated by method of transportation, not shown separately.

2/ By district of unloading. Value is on customs value basis.

3/ Exports of domestic and foreign merchandise, by district of export. Value is on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, *U.S. Merchandise Trade: Selected Highlights*, FT920, December 1992, 1993, and 1994, tables 1 and 6.

**Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1993 TO 1995**

[Years ended September 30, unless otherwise specified]

| Subject | 1993 | 1994 | 1995 |
|--|---------|---------|--------|
| Zone No. 9: | | | |
| Firms using zone..... | 327 | 323 | 310 |
| User employment at zone <u>1</u> /..... | 168 | 166 | 142 |
| Value of merchandise (\$1,000): <u>2</u> / | | | |
| In/out..... | 61,568 | 52,648 | 55,383 |
| Exports | 15,773 | 14,352 | 15,578 |
| Revenue <u>3</u> / (\$1,000)..... | 1,935 | 1,844 | 1,676 |
| Expenditures <u>3</u> / (\$1,000) | 1,534 | 1,475 | 1,490 |
| Subzone No. 9-A: | | | |
| User employment at subzone | 628 | 606 | 588 |
| Quantity (1,000 metric tons): | | | |
| Merchandise, in/out..... | 9,424.4 | 9,038.8 | (NA) |
| Exports | 2,043.9 | 2,271.4 | (NA) |
| Value (million dollars): <u>2</u> / | | | |
| Merchandise, in/out..... | 1,163.8 | 961.8 | 1,043 |
| Exports | 278.4 | 215.3 | 257 |
| Subzone No. 9-B: | | | |
| User employment at subzone | 14 | 19 | 19 |
| Value (\$1,000): <u>2</u> / | | | |
| Merchandise, in/out..... | 3,183 | 2,872 | 4,162 |
| Exports | 1,582 | 1,444 | 2,062 |
| Subzone No. 9-C: | | | |
| User employment at subzone | 225 | 18 | 18 |
| Value (\$1,000): <u>2</u> / | | | |
| Merchandise, in/out..... | 17,600 | 2,906 | 2,750 |
| Exports | 2,000 | 1,362 | 1,126 |
| Subzone No. 9-D: | | | |
| User employment at subzone | 785 | 595 | 597 |
| Value (\$1,000): <u>2</u> / | | | |
| Merchandise, in/out..... | 144,098 | 106,303 | 99,196 |
| Exports | 10,154 | 8,650 | 4,601 |

Continued on next page.

**Table 24.05-- FOREIGN-TRADE ZONE AND SUBZONE OPERATIONS:
1993 TO 1995 -- Con.**

| Subject | 1993 | 1994 | 1995 |
|------------------------------------|---------|---------|-------|
| Subzone No. 9-E: | | | |
| User employment at subzone | 332 | 329 | 338 |
| Quantity (1,000 metric tons): | | | |
| Merchandise, in/out..... | 5,544.0 | 5,753.4 | (NA) |
| Exports | 262.7 | 406.7 | (NA) |
| Value (million dollars): <u>2/</u> | | | |
| Merchandise, in/out..... | 718.3 | 653.5 | 747.6 |
| Exports | 32.9 | 46.0 | 55.4 |

NA Not available.

1/ For firms occupying facilities on a continuing basis only.

2/ For 1994 and 1995, method of calculating value of merchandise "(in)/out" and "exports" excludes value added in subzone manufacturing activity.

3/ Years ended June 30.

Source: Hawaii State Department of Business, Economic Development & Tourism, Foreign-Trade Zone No. 9, annual reports and records.

**Table 24.06-- EMPLOYMENT AND SHIPMENTS RELATED TO
MANUFACTURED EXPORTS: 1990 AND 1991**

| Subject | 1990 | 1991 |
|--|-------|-------|
| Employment related to manufactured exports..... | 9,400 | 9,600 |
| Percent of civilian employment | 1.8 | 1.7 |
| Manufacturing industries | 2,900 | 2,700 |
| Direct export related..... | 2,000 | 1,800 |
| Supporting exports..... | 900 | 900 |
| Nonmanufacturing industries | 6,500 | 6,900 |
| Trade | 4,700 | 5,300 |
| Other..... | 1,800 | 1,600 |
| Value of export related manufacturers' shipments <u>1/</u> | 694.9 | 620.6 |
| Percent of total manufacturers' shipments..... | 16.5 | 16.3 |
| Direct exports <u>1/</u> | 507.5 | 442.1 |
| Supporting exports <u>1/</u> | 187.4 | 178.5 |

1/ Million dollars.

Source: U.S. Bureau of the Census, "Exports from Manufacturing Establishments: 1990 and 1991," *Manufacturing, Analytical Report Series*, AR91-1 (December 1994), pp. 20-23.

Table 24.07-- EMPLOYMENT AND PROPERTY, PLANT AND EQUIPMENT OF HAWAII AFFILIATES OF FOREIGN-OWNED COMPANIES: 1990 TO 1993

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person]

| Subject | 1990 | 1991 <u>1/</u> | 1992 | 1993 |
|---|--------|----------------|-------|------|
| Employment by nonbank affiliates (1,000)... | 53.0 | 56.0 | 53.8 | 52.6 |
| Percent of all nonbank businesses..... | 12.0 | 12.4 | 11.9 | 11.8 |
| Employment by country of ultimate beneficial owner (1,000)..... | 53.0 | 56.0 | 53.8 | 52.6 |
| Canada..... | .7 | .7 | .5 | 1.5 |
| Europe..... | 6.2 | 6.1 | 6.5 | 3.7 |
| Latin America, other W. Hemisphere | 3.6 | 4.0 | 4.0 | 4.1 |
| Africa and Middle East..... | - | - | (Z) | (Z) |
| Asia and Pacific..... | 42.3 | 44.4 | 42.1 | 43.1 |
| Australia | 2.7 | 3.2 | 3.3 | 3.2 |
| Japan | 36.0 | 38.1 | 36.5 | 37.5 |
| United States..... | .3 | .3 | .7 | .2 |
| Gross property, plant, and equipment (million dollars)..... | 11,830 | 9,673 | 9,958 | (NA) |

Z Less than 50 employees.

NA Not available.

1/ Revised employment total for all countries; data for individual countries are unrevised.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, "U.S. Affiliates of Foreign Companies: Operations in 1991," *Survey of Current Business*, May 1993, pp. 89-112, and "Foreign Direct Investment in the United States," *Survey of Current Business*, May 1995, pp. 57-81; *Statistical Abstract of the United States: 1995*, p. 807.

Table 24.08-- FOREIGN OWNERSHIP OF HOTELS, BY ISLANDS: 1991

| Ownership | State total | Hawaii | Maui | Molokai, Lanai | Oahu | Kauai |
|-----------------------------|-------------|--------|-------|----------------|--------|-------|
| Total hotel rooms..... | 50,979 | 6,670 | 8,737 | 578 | 30,263 | 4,731 |
| U.S. owned..... | 17,389 | 2,024 | 1,645 | 401 | 11,824 | 1,495 |
| Foreign owned | 33,590 | 4,646 | 7,092 | 177 | 18,439 | 3,236 |
| Percent foreign owned | 65.89 | 69.65 | 81.17 | 30.62 | 60.93 | 68.40 |
| Japanese..... | 61.18 | 69.65 | 74.38 | 30.62 | 58.11 | 48.24 |
| Other..... | 4.71 | - | 6.79 | - | 2.82 | 20.16 |

Source: Pannell Kerr Forster survey cited in *Honolulu Star-Bulletin*, November 15, 1991, p. C-1.

Table 24.09-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 31, 1993 AND 1994

| Subject | 1993 | 1994 |
|--|---------|---------|
| Parcels owned by foreigners..... | 92 | 93 |
| Individuals | 22 | 23 |
| Organizations | 70 | 70 |
| Acres owned by foreigners | 179,960 | 179,971 |
| Percent of all privately owned agricultural land ^{1/} | 9.0 | 9.0 |
| Individuals | 2,055 | 2,066 |
| Organizations | 177,905 | 177,905 |
| Value of foreign-owned agricultural land (\$1,000): | | |
| At time of acquisition | 646,961 | 647,331 |
| Adjusted current value | 694,334 | 728,642 |

^{1/} The 1994 percent for Hawaii ranked second among the 50 States, exceeded only by Maine (11.4 percent), and well above the national percentage (1.1).

Source: U.S. Department of Agriculture, Economic Research Service, *Foreign Ownership of U.S. Agricultural Land Through December 31, 1993* (Statistical Bulletin No. 879, April 1994), pp. 6, 9, and 13 and *Foreign Ownership of U.S. Agricultural Land Through December 31, 1994* (Statistical Bulletin No. 919, June 1995), pp. 6, 9, and 13.

**Table 24.10-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND
JAPANESE: PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

| Year | Total foreign investments | Investments by Japanese |
|-------------------------|------------------------------|----------------------------|
| Total completed..... | 16,363,374 | 14,062,915 |
| Before 1970 | 35,000 | 31,900 |
| 1970-1974 | 438,589 | 328,689 |
| 1975-1979 | 522,160 | 264,740 |
| 1980-1984 | 895,416 | 576,180 |
| 1985 | 140,224 | 121,154 |
| 1986 | 1,150,354 | 1,106,854 |
| 1987 | 1,306,025 | 1,107,025 |
| 1988 | 1,866,563 | 1,727,582 |
| 1989 | 2,723,450 | 2,222,150 |
| 1990 | 1,990,530 | 1,944,330 |
| 1991 | 2,614,475 | 2,314,675 |
| 1992 | 671,952 | 633,452 |
| 1993 | 1,027,491 | 964,139 |
| 1994 | 981,145 | 720,045 |
| Future investments..... | 5,029,800 | 4,776,500 |

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii, 1994* (December 1995), table 1.

**Table 24.11-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR:
PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

| Country of investor | Pre-1970 through 1994 | 1991 | 1992 | 1993 | 1994 |
|---------------------------------|-----------------------------|-----------|---------|-----------|---------|
| All countries | 16,363,374 | 2,614,475 | 671,952 | 1,027,491 | 981,145 |
| Australia | 865,778 | 206,800 | - | 1,547 | 6,800 |
| Bermuda..... | 500 | - | - | - | - |
| British West Indies..... | 575 | - | - | - | - |
| Canada..... | 222,650 | 43,000 | - | 80 | - |
| Cayman Islands..... | 8,500 | - | - | - | - |
| China, Peoples Republic of..... | 118,600 | - | - | 600 | 118,000 |
| France..... | 19,900 | - | - | - | - |
| Germany..... | (NA) | - | - | - | - |
| Hong Kong | 448,845 | (NA) | 20,000 | 500 | 125,000 |
| Indonesia..... | 151,975 | - | 2,500 | 875 | - |
| Italy..... | 3,000 | - | - | 3,000 | - |
| Japan | 14,062,915 | 2,314,675 | 633,452 | 964,139 | 720,045 |
| Korea, Republic of..... | 13,750 | - | 1,000 | (NA) | 1,200 |
| Liechtenstein | (NA) | - | - | - | - |
| Netherlands | 19,600 | - | - | - | - |
| Netherlands Antilles..... | 70,735 | 50,000 | 3,000 | - | - |
| New Zealand | 68,900 | - | (NA) | - | 10,000 |
| Singapore..... | (NA) | - | - | - | - |
| Spain..... | (NA) | - | - | - | - |
| Switzerland..... | (NA) | (NA) | - | - | - |
| Taiwan..... | 90,100 | - | 12,000 | 56,000 | 100 |
| United Arab Emirates..... | (NA) | - | - | - | (NA) |
| United Kingdom..... | 193,801 | - | (NA) | - | (NA) |
| Vanuatu..... | 2,500 | - | - | - | - |
| Western Samoa..... | 750 | - | - | 750 | - |

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii, 1994* (December 1995), table 1.

**Table 24.12-- FOREIGN INVESTMENTS IN HAWAII, BY TYPE OF INVESTMENT:
PRE-1970 TO 1994**

[In thousands of dollars. Data are estimates based on incomplete reporting, and do not include undisclosed amounts. For resold properties, each transaction is included]

| Type of investment | Pre-1970 through 1994 | | All countries | | |
|--------------------------------|-----------------------|----------------------|---------------|-----------|---------|
| | All countries | Japanese investments | 1992 | 1993 | 1994 |
| All types | 16,363,374 | 14,062,915 | 671,952 | 1,027,491 | 981,145 |
| Agriculture | 84,600 | 22,400 | - | 500 | - |
| Financial institutions | 34,301 | 22,501 | 2,500 | (NA) | - |
| Condominiums | 1,573,850 | 1,021,250 | - | 158,600 | 342,000 |
| Golf courses & club houses ... | 447,050 | 447,050 | (NA) | 23,400 | 18,000 |
| Hotels, resorts | 8,516,783 | 8,047,602 | 529,182 | 481,800 | 360,000 |
| Manufacturing..... | 503,955 | 71,405 | - | (NA) | 6,800 |
| Other real estate..... | 3,436,405 | 2,935,900 | 20,000 | 335,050 | 217,500 |
| Residential property..... | 473,500 | 461,500 | 12,270 | (NA) | 32,000 |
| Restaurants | 640,020 | 629,620 | 5,000 | 24,475 | 1,200 |
| Retailing, wholesaling | 317,961 | 254,656 | 103,000 | 80 | 2 |
| Science, education | 95,901 | 9,400 | (NA) | 1,000 | 900 |
| Miscellaneous..... | 239,048 | 139,631 | (NA) | 2,586 | 2,743 |

NA Not available.

Source: Hawaii State Department of Business, Economic Development & Tourism, Business Analysis & Marketing Branch, *A Listing of Foreign Investments in Hawaii, 1994* (December 1995), table 2.

**Table 24.13-- REAL PROPERTY HOLDINGS OF FOREIGN PERSONS ON
OAHU: 1992 AND 1994**

[Foreign investments in real property on Oahu, reported in accordance with Honolulu Ordinance No. 90-68, requiring all foreign persons to report their real property holdings to the City and County Director of Finance. Reporting is thought to be seriously incomplete]

| Subject | Parcels | | Assessed value (millions of dollars) | |
|---------------------------------|---------|---------|---|------------------|
| | 1992 | 1994 | 1992 | 1994 |
| All property..... | 231,893 | 240,652 | <u>1/</u> 84,520 | <u>1/</u> 89,059 |
| Foreign holdings | 4,642 | 5,833 | 5,828 | 6,491 |
| Percent | 2.0 | 2.4 | 6.9 | 7.3 |
| Foreign holdings by land class: | | | | |
| Improved residential | 753 | 678 | 702 | 712 |
| Apartment..... | 3,489 | 4,284 | 1,447 | 1,471 |
| Commercial | 209 | 212 | 1,661 | 1,730 |
| Industrial..... | 23 | 22 | 141 | 192 |
| Agricultural | 42 | 38 | 15 | 53 |
| Conservation | 26 | 20 | 122 | 91 |
| Hotel and resort | 89 | 571 | 1,716 | 2,223 |
| Unimproved residential | 11 | 8 | 25 | 18 |
| Foreign holdings by country: | | | | |
| Canada..... | 330 | 293 | 112 | 76 |
| Hong Kong..... | 128 | 89 | 58 | 59 |
| Japan | 3,763 | 4,893 | 5,413 | 6,067 |
| Korea..... | 42 | 70 | 87 | 38 |
| Other countries | 379 | 488 | 158 | 252 |

1/ Net taxable valuation.

Source: City and County of Honolulu, Department of Finance, *Foreign Investments in Real Property Within Honolulu* for 1992 (December 1, 1992) and 1994 (January 31, 1995), submitted to Honolulu City Council.

Table 24.14-- JAPANESE INVESTMENT IN REAL ESTATE, FOR THE UNITED STATES, HAWAII AND HONOLULU METROPOLITAN STATISTICAL AREA: 1993 AND EARLIER YEARS

| Period | United States (mil. dol.) | Hawaii | | Honolulu MSA | |
|---|------------------------------|-----------------------|------|-----------------------|------|
| | | Amount (mil. dol.) | Rank | Amount (mil. dol.) | Rank |
| INVESTMENT | | | | | |
| 1988..... | 16,544 | 1,825 | 4 | 1,325 | 4 |
| 1989..... | 14,775 | 4,437 | 2 | 1,064 | 4 |
| 1990..... | 13,059 | 2,860 | 2 | 1,325 | 2 |
| 1991..... | 5,060 | 1,656 | 1 | 662 | 2 |
| 1992..... | 807 | 328 | 1 | (NA) | (NA) |
| 1993..... | 705 | 521 | 1 | (NA) | (NA) |
| Cumulative: | | | | | |
| Through 1987..... | 26,340 | 7,240 | 1 | 4,420 | 3 |
| Through 1988..... | 42,884 | 9,065 | 2 | 5,745 | (NA) |
| Through 1989..... | 57,658 | 13,502 | 2 | 6,809 | (NA) |
| Through 1990..... | 70,717 | 16,362 | 2 | 8,134 | (NA) |
| Through 1991..... | 75,776 | 18,018 | 2 | 8,796 | (NA) |
| Through 1992..... | 76,583 | 18,346 | 2 | (NA) | (NA) |
| Through 1993..... | 77,288 | 18,867 | 2 | (NA) | (NA) |
| DISINVESTMENT AND RESTRUCTURING ACTIVITY | | | | | |
| 1993..... | 17,590 | 5,230 | 1 | (NA) | (NA) |

NA Not available.

Source: Kenneth Leventhal & Company, *1990 Japanese Investment in United States Real Estate* (1991), pp. 15, 16, and 23; and *1991 Japanese Investment in United States Real Estate* (1992), pp. 16, 17, and 24; *1992 Japanese Investment in United States Real Estate* (1993), pp. 15 and 17; and *1993 Japanese Disinvestment in U.S. Real Estate* (1994), pp. 7 and 12.

BIBLIOGRAPHY

This volume is the 28th 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 1993-94 edition are now out of print, but copies can be consulted in the DBEDT Library, Hawaii State Library, University of Hawaii and community college libraries, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in the underlying reports.

Although most of the series in the *Data Book* are shown only for recent years, many earlier figures appear in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century.

Statistical abstracts have also been published recently for the Big Island, Maui County, Molokai, and Kauai. In March 1995, the Hawaii County Department of Research & Development issued *1994 County of Hawaii Data Book*. A similar work for Maui, *Maui County Data Book*, published by the County of Maui Office of Economic Development and Maui Economic Development Board, Inc., appeared in December 1994. In 1990, the Cooperative Extension Service, College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa produced *The Moloka'i Data Book: A Statistical Abstract*. On Kauai, *Statistical Abstract of the Kauai Economy, 1993 Edition*, prepared by the Kauai County Office of Economic Development, was published in July 1993. H & S Publishing released the sixth edition of its *Kauai Data Book* as well in 1993.

Persons interested in data for other States or the nation as a whole should consult the *Statistical Abstract of the United States* and its companion volumes, the *State and Metropolitan Area Data Book* and *County and City Data Book*. The *Abstract* is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 115th, dated 1995; copies are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The *State and Metropolitan Area Data Book, 1991* and *County and City Data Book, 1994* are sold by the same agency.

**Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK:
1962 TO 1995**

| Edition | Number of pages | Number of tables | Price (dollars) | | Printing costs (dollars) | Number of copies printed |
|----------------------|-----------------|------------------|-----------------|-----------------|--------------------------|--------------------------|
| | | | Hawaii | Outside State | | |
| 1962 <u>1/</u> | 128 | 243 | 1.00 | 1.00 | (NA) | (NA) |
| 1967 | 66 | 95 | (NA) | (NA) | 1,969.45 | 3,000 |
| 1968 | 69 | 99 | 1.00 | 1.00 | 2,969.20 | 3,000 |
| 1970 | 136 | 135 | 1.00 | 1.00 | 2,470.92 | 2,030 |
| 1971 | 159 | 152 | 2.00 | 2.00 | 4,149.60 | 2,000 |
| 1972 <u>2/</u> | 227 | 210 | 4.00 | 5.00 | 6,245.00 | 3,000 |
| 1973 | 290 | 262 | 4.00 | 5.00 | 6,309.00 | 1,500 |
| 1974 | 306 | 292 | 4.00 | 5.00 | 9,330.00 | 2,000 |
| 1975 | 302 | 309 | 4.00 | 5.00 | 10,222.95 | 2,000 |
| 1976 | 312 | 335 | 4.00 | 5.00 | 9,901.13 | 2,000 |
| 1977 | 339 | 374 | 4.00 | 5.00 | 11,990.00 | 2,000 |
| 1978 | 379 | 425 | 4.00 | 5.00 | 8,900.00 | 2,000 |
| 1979 | 447 | 407 | 4.00 | 5.00 | 10,744.00 | 2,500 |
| 1980 | 545 | 496 | 5.00 | 10.00 | 12,335.00 | 2,500 |
| 1981 | 603 | 563 | 5.00 | 10.00 | 14,910.00 | 3,000 |
| 1982 | 596 | 566 | 5.00 | 10.00 | 15,633.00 | 3,000 |
| 1983 | 663 | 622 | 5.00 | 10.00 | 15,875.00 | 2,500 |
| 1984 | 762 | 724 | 5.00 | 15.00 | 32,003.00 | 3,000 |
| 1985 | 662 | 680 | 5.00 | 15.00 | 19,995.00 | 3,000 |
| 1986 | 705 | 721 | 5.00 | 15.00 | 19,980.00 | 3,000 |
| 1987 | 722 | 746 | 5.00 | 15.00 | 21,981.00 | 3,000 |
| 1988 | 694 | 737 | 5.00 | 15.00 | 21,700.00 | 3,000 |
| 1989 | 651 | 704 | 8.00 | <u>3/</u> 18.00 | 21,620.00 | 3,000 |
| 1990 | 667 | 732 | 8.00 | <u>3/</u> 18.00 | 22,500.00 | 3,000 |
| 1991 | 657 | 717 | 8.00 | <u>3/</u> 18.00 | 25,312.00 | 3,000 |
| 1992 | 618 | 707 | 8.00 | <u>4/</u> 12.00 | 24,673.00 | 3,000 |
| 1993-94 | 571 | 639 | 8.00 | <u>4/</u> 12.00 | 20,430.00 | 3,000 |
| 1995 | 626 | 685 | 15.00 | <u>5/</u> 19.00 | 23,000.00 | 3,000 |

NA Not available.

1/ The 1962 edition was titled *Statistical Abstract of Hawaii, 1962*. In addition, a 41-page, 57-table supplement, *Historical Statistics of Hawaii, 1778-1962*, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, *State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources*, was included with each copy of the regular edition, and was not sold separately.

3/ U.S. Mainland price; \$35.00 for foreign countries.

4/ U.S. Mainland price; \$15.00 for Canada, \$20.00 for Mexico, and \$40.00 for all other countries.

5/ U.S. Mainland price; \$21.00 for Canada, \$28.00 for Mexico, and \$48.00 for all other countries.

Source: DBEDT records.

ON-LINE AVAILABILITY OF DATA BOOK TABLES TO THE PUBLIC

Early in 1988, the Hawaii State Department of Business, Economic Development and Tourism initiated a pilot program to make *Data Book* tables and selected other statistical series available to anyone with a personal computer and a modem. The program incorporates the full text of *The State of Hawaii Data Book* (including available updates to the current edition).

The DBEDT electronic bulletin board is available free 24 hours a day, seven days a week.

Until now, getting updated *Data Book* tables was a time-consuming process. Now the almost daily updates are available on-demand and in a format that is more convenient for people who use many of the popular electronic spreadsheets.

The system is easy to use. It is menu-driven and contains numerous "prompts" which guide the user to the data sets. It also has electronic mail features that permit users to leave messages on the system. User comments and suggestions are welcome.

The bulletin board is maintained on a microcomputer which is located in the Department's Research and Economic Analysis Division. The system uses the PC Board version 15.1 software. The bulletin board can be accessed at either 300, 1200, 2400, 9600 or 14,400 baud. Anyone wishing to access the system can call (808) 586-2496. The bulletin board can also be accessed through Hawaii FYI. A users guide is available from the Department's Business Resource Center (586-2424) or can be retrieved from the system. The Data Book can also be accessed over the Internet at <http://kumu.icsd.hawaii.gov:8080/databook>.

For further information about available data or system specifications, users should call the Research and Economic Analysis Division at (808) 586-2486. For access information through Hawaii FYI call 586-1919 from Oahu or 1-800-252-1132 from the Neighbor Islands.

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DBEDT

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