

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases, accidents, alcohol and drug use, height and weight, hospitals, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1984-86 was 75.37 years for males and 80.92 years for females. There were 6,149 resident deaths in 1987, or 5.7 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 9.2 in 1987. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. Resident live births in 1987 numbered 18,555, or 17.1 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 1,891 in 1985. Fully 98 percent of all babies were born in hospitals in 1987, and 21 percent were born to military couples. One out of five births was to an unmarried woman. There were 7,264 fetal deaths in 1987, including 5,971 elective abortions. Marriages numbered 16,597 in 1987, with about 41 percent accounted for by nonresidents. Divorces reached a 1987 total of 4,419. The State had 22 acute care hospitals (with 2,855 beds), 36 long-term care facilities (with 2,995 beds), and nine specialty care facilities (with 821 beds) in 1988. There were 2,277 physicians and surgeons, 881 dentists, 7,070 professional nurses, and 520 pharmacists licensed and living in Hawaii as of February 1988. Acute conditions per 100 persons numbered 210 in 1986, with respiratory conditions the most common complaint (at 148 cases per 100 persons). Among chronic conditions reported in the 1986 survey data, the most frequently mentioned were hypertension without heart involvement (7.7 per 100 persons), hayfever (5.7), and impairments of the back or spine (5.1). The most common communicable diseases reported to authorities in 1987 were scarlet fever, with 3,620 cases, and chickenpox, with 1,484, but the most fatal was AIDS (41 deaths). State mental health facilities served 8,220 patients in 1987, but the number of in-patients at the end of the year was only 248. Among persons 18 years old and over in 1984, 53 percent used alcohol, eight percent were heavy drinkers, 43 percent used drugs, and three percent were heavy drug users. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

The major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 3 of the Statistical Abstract of the United States: 1988 contain similar data for the nation as a whole.

Table 50.-- BIRTHS AND DEATHS: 1970 TO 1987

| Calendar year | Resident births <u>1/</u> | Resident deaths <u>1/</u> | Rates per 1,000 resident population <u>2/</u> | | Rates per 1,000 live births <u>3/</u> | | |
|---------------|---------------------------|---------------------------|---|--------|---------------------------------------|------------------------|-------------------------|
| | | | Births | Deaths | Illegitimate births | Fetal deaths <u>4/</u> | Infant deaths <u>5/</u> |
| 1970 ... | 16,361 | 3,971 | 21.2 | 5.1 | 95.8 | 20.6 | 19.1 |
| 1971 ... | 15,780 | 4,130 | 19.7 | 5.2 | 88.4 | 23.5 | 16.0 |
| 1972 ... | 15,364 | 4,245 | 18.5 | 5.1 | 93.0 | 22.8 | 17.5 |
| 1973 ... | 15,328 | 4,356 | 18.0 | 5.1 | 104.0 | 16.4 | 13.7 |
| 1974 ... | 15,472 | 4,286 | 17.8 | 4.9 | 108.8 | 16.3 | 16.0 |
| 1975 ... | 15,689 | 4,272 | 17.7 | 4.8 | 123.2 | 18.9 | 13.7 |
| 1976 ... | 16,292 | 4,349 | 18.0 | 4.8 | 125.0 | 20.8 | 11.2 |
| 1977 ... | 16,874 | 4,349 | 18.4 | 4.7 | 143.3 | 21.6 | 12.3 |
| 1978 ... | 16,717 | 4,508 | 17.9 | 4.8 | 160.1 | 13.5 | 12.0 |
| 1979 ... | 17,513 | 4,791 | 18.4 | 5.0 | 163.5 | 13.1 | 10.9 |
| 1980 ... | 18,129 | 4,903 | 18.7 | 5.1 | 175.6 | 15.3 | 10.8 |
| 1981 ... | 18,174 | 4,927 | 18.5 | 5.0 | 181.8 | 13.1 | 10.5 |
| 1982 ... | 18,675 | 5,123 | 18.7 | 5.1 | 186.3 | 12.7 | 8.9 |
| 1983 ... | 19,090 | 5,409 | 18.7 | 5.3 | 197.8 | 11.4 | 10.0 |
| 1984 ... | 18,667 | 5,571 | 18.0 | 5.4 | 191.8 | 9.5 | 10.9 |
| 1985 ... | 18,267 | 5,751 | 17.4 | 5.5 | 201.3 | 9.7 | 9.1 |
| 1986 ... | 18,253 | 5,788 | 17.1 | 5.4 | 203.9 | 11.0 | 9.2 |
| 1987 ... | 18,555 | 6,149 | 17.1 | 5.7 | 213.7 | 9.2 | 8.8 |

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 estimates in present report, table 2.

3/ Place of occurrence basis.

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

5/ Under 1 year of age.

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

Table 51.-- BIRTHS AND BIRTH RATES, BY MILITARY STATUS: 1977 TO 1987

[Place of occurrence basis]

| Subject and year | All groups | Civilians | | | Armed forces and dependents |
|-----------------------------------|------------|---------------|---------------------|-----------------|-----------------------------|
| | | All civilians | Military dependents | Other civilians | |
| Live births: | | | | | |
| 1977 | 16,983 | 16,983 | 3,771 | 13,212 | 3,771 |
| 1978 | 16,762 | 16,762 | 3,656 | 13,106 | 3,656 |
| 1979 | 17,568 | 17,568 | 3,797 | 13,771 | 3,797 |
| 1980 | 18,216 | 18,216 | 3,750 | 14,466 | 3,750 |
| 1981 | 18,230 | 18,230 | 3,502 | 14,728 | 3,502 |
| 1982 | 18,735 | 18,735 | 4,007 | 14,728 | 4,007 |
| 1983 | 19,164 | 19,164 | 4,093 | 15,071 | 4,093 |
| 1984 | 18,756 | 18,756 | 3,976 | 14,780 | 3,976 |
| 1985 | 18,329 | 18,329 | 4,043 | 14,286 | 4,043 |
| 1986 | 18,341 | 18,341 | 3,952 | 14,389 | 3,952 |
| 1987 | 18,698 | 18,698 | 3,966 | 14,732 | 3,966 |
| Birth rates: ^{1/} | | | | | |
| 1977 | 17.1 | 18.1 | 58.0 | 15.2 | 31.0 |
| 1978 | 16.5 | 17.5 | 59.8 | 14.6 | 30.6 |
| 1979 | 16.8 | 17.8 | 58.9 | 15.0 | 31.0 |
| 1980 | 17.3 | 18.3 | 58.5 | 15.5 | 30.7 |
| 1981 | 17.1 | 18.1 | 54.5 | 15.6 | 29.0 |
| 1982 | 17.2 | 18.1 | 60.1 | 15.2 | 33.0 |
| 1983 | 17.2 | 18.1 | 61.8 | 15.2 | 33.7 |
| 1984 | 16.5 | 17.3 | 59.3 | 14.6 | 32.0 |
| 1985 | 15.9 | 16.8 | 62.9 | 13.9 | 33.5 |
| 1986 | 15.5 | 16.3 | 59.7 | 13.6 | 31.8 |
| 1987 | 15.6 | 16.4 | 61.2 | 13.7 | 32.3 |

^{1/} Per 1,000 de facto population in each group, based on estimates in present report, tables 2 and 3.

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

Table 52.-- DEATHS AND DEATH RATES, BY MILITARY STATUS: 1977 TO 1987

[Place of occurrence basis]

| Subject and year | All groups | Armed forces | Civilians <u>1/</u> | | | Armed forces and dependents |
|------------------------|------------|--------------|---------------------|---------------------|-----------------|-----------------------------|
| | | | All civilians | Military dependents | Other civilians | |
| Deaths: | | | | | | |
| 1977 | 4,724 | 76 | 4,648 | 93 | 4,555 | 169 |
| 1978 | 4,852 | 80 | 4,772 | 85 | 4,687 | 165 |
| 1979 | 5,137 | 85 | 5,052 | 86 | 4,966 | 171 |
| 1980 | 5,204 | 69 | 5,135 | 82 | 5,053 | 151 |
| 1981 | 5,269 | 73 | 5,196 | 83 | 5,113 | 156 |
| 1982 | 5,495 | 74 | 5,421 | 86 | 5,335 | 160 |
| 1983 | 5,725 | 97 | 5,628 | 85 | 5,543 | 182 |
| 1984 | 5,942 | 73 | 5,869 | 86 | 5,783 | 159 |
| 1985 | 6,116 | 63 | 6,053 | 83 | 5,970 | 146 |
| 1986 | 6,171 | 59 | 6,112 | 85 | 6,027 | 144 |
| 1987 | 6,490 | 64 | 6,426 | 83 | 6,343 | 147 |
| Death rates: <u>2/</u> | | | | | | |
| 1977 | 4.8 | 1.3 | 5.0 | 1.4 | 5.2 | 1.4 |
| 1978 | 4.8 | 1.4 | 5.0 | 1.4 | 5.2 | 1.4 |
| 1979 | 4.9 | 1.5 | 5.1 | 1.3 | 5.4 | 1.4 |
| 1980 | 4.9 | 1.2 | 5.1 | 1.3 | 5.4 | 1.2 |
| 1981 | 4.9 | 1.3 | 5.2 | 1.3 | 5.4 | 1.3 |
| 1982 | 5.0 | 1.3 | 5.2 | 1.3 | 5.5 | 1.3 |
| 1983 | 5.1 | 1.8 | 5.3 | 1.3 | 5.6 | 1.5 |
| 1984 | 5.2 | 1.3 | 5.4 | 1.3 | 5.7 | 1.3 |
| 1985 | 5.3 | 1.1 | 5.5 | 1.3 | 5.8 | 1.2 |
| 1986 | 5.2 | 1.0 | 5.4 | 1.3 | 5.7 | 1.2 |
| 1987 | 5.4 | 1.1 | 5.6 | 1.3 | 5.9 | 1.2 |

1/ Death rates for military dependents based on 1970 and 1980 age and sex composition of military dependents and 1970 and 1980 age-sex-specific death rates for all civilians. Deaths of civilians other than military dependents calculated as residual.

2/ Per 1,000 de facto population in each group, based on estimates in present report, tables 2 and 3.

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

Table 53.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1970 TO 1987

[Place of residence basis]

| Calendar year | Total deliveries | | Live births | Standard fetal deaths | Elective abortions <u>2/</u> |
|--------------------|------------------|----------------|-------------|-----------------------|------------------------------|
| | Number | Rate <u>1/</u> | | | |
| 1970 <u>3/</u> ... | 20,578 | 26.7 | 16,361 | 1,458 | 2,759 |
| 1971 | 21,476 | 26.8 | 15,780 | 1,575 | 4,121 |
| 1972 | 21,468 | 25.9 | 15,364 | 1,582 | 4,522 |
| 1973 | 21,374 | 25.1 | 15,328 | 1,560 | 4,486 |
| 1974 | 21,071 | 24.3 | 15,472 | 1,572 | 4,027 |
| 1975 | 21,481 | 24.2 | 15,689 | 1,476 | 4,316 |
| 1976 | 22,915 | 25.3 | 16,292 | 1,675 | 4,948 |
| 1977 | 23,502 | 26.6 | 16,874 | 1,578 | 5,050 |
| 1978 | 23,990 | 25.8 | 16,717 | 1,467 | 5,806 |
| 1979 | 25,213 | 26.4 | 17,513 | 1,683 | 6,017 |
| 1980 | 26,241 | 27.1 | 18,129 | 1,716 | 6,396 |
| 1981 | 26,452 | 27.0 | 18,174 | 1,661 | 6,617 |
| 1982 | 26,468 | 26.5 | 18,675 | 1,618 | 6,175 |
| 1983 | 26,709 | 26.2 | 19,090 | 1,627 | 5,992 |
| 1984 | 25,573 | 24.7 | 18,667 | 1,629 | 5,277 |
| 1985 | 25,335 | 24.1 | 18,267 | 1,473 | 5,595 |
| 1986 | 25,312 | 23.8 | 18,253 | 1,412 | 5,647 |
| 1987 | 25,931 | 24.0 | 18,555 | 1,405 | 5,971 |

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

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

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

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

Table 54.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE:
1986 AND 1987

| Event and year | Occurring in Hawaii | | | | Hawaii residents | |
|----------------|---------------------|----------|--------------|--------------|------------------|------------------------|
| | Total | Resident | Non-resident | Not reported | Total | Out of State <u>1/</u> |
| Births: | | | | | | |
| 1986 ... | 18,341 | 18,253 | 86 | 2 | 18,277 | 24 |
| 1987 ... | 18,698 | 18,555 | 143 | - | 18,595 | 40 |
| Deaths: | | | | | | |
| 1986 ... | 6,171 | 5,788 | 382 | 1 | 5,837 | 49 |
| 1987 ... | 6,490 | 6,147 | 343 | - | 6,214 | 67 |

1/ Mainland U.S., U.S. territories and possessions, and Canada.
Source: Hawaii State Department of Health, Statistical Report, 1986 and records.

Table 55.-- FERTILITY RATES, BY MILITARY STATUS: 1980 AND 1985

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

| Military status | Crude birth rate <u>1/</u> | | General fertility rate <u>2/</u> | | Total fertility rate <u>3/</u> | |
|-----------------|----------------------------|------|----------------------------------|-------|--------------------------------|-------|
| | 1980 | 1985 | 1980 | 1985 | 1980 | 1985 |
| Total | 18.8 | 17.4 | 78.7 | 73.1 | 2,084 | 2,082 |
| Civilian | 16.5 | 15.3 | 68.9 | 64.3 | 1,871 | 1,891 |
| Military | 35.0 | 33.5 | 147.5 | 141.5 | 3,496 | 3,190 |

1/ Annual number of live births per 1,000 resident population.
2/ Annual number of live births per 1,000 women 15-44 years of age.
3/ Average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

Source: 1980 calculated by Eleanor C. Nordyke, East-West Population Institute; 1985 estimated by Hawaii State Data Center.

Table 56.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1984 TO 1987

[Excludes births to Hawaii residents occurring out of state]

| Subject | 1984 | 1985 | 1986 | 1987 |
|--|--------|--------|--------|--------|
| Number of resident births | 18,667 | 18,267 | 18,253 | 18,555 |
| City and County of Honolulu | 14,375 | 14,021 | 14,074 | 14,160 |
| Percent on Oahu | 77.0 | 76.8 | 77.1 | 76.3 |
| Hawaii County | 1,895 | 1,873 | 1,800 | 1,915 |
| Kauai County | 778 | 778 | 822 | 865 |
| Maui County (incl. Kalawao) | 1,619 | 1,595 | 1,557 | 1,615 |
| Percent attended by M.D. or O.D. in hospital ^{1/} | 98.3 | 98.0 | 98.3 | 98.3 |
| Males per 100 females | 107.1 | 108.2 | 105.7 | 107.6 |
| Median weight of single births (grams) | 3,293 | 3,307 | 3,306 | 3,308 |
| Percent low birth weight (under 2,500 grams) ... | 7.3 | 6.6 | 6.1 | 7.2 |
| Percent single births under 40 weeks gestation . | 51.7 | 51.3 | 51.3 | 52.2 |
| Percent plural | 1.8 | 1.8 | 2.0 | 2.4 |
| Percent with 1 or more congenital malformations | 1.1 | 1.0 | 1.1 | 1.4 |
| Percent illegitimate | 19.2 | 20.0 | 20.4 | 21.4 |
| Percent with prenatal visit in first three months | 75.4 | 74.7 | 76.4 | 73.9 |
| Percent first child born to mother | 32.4 | 31.9 | 31.6 | 29.7 |
| Percent first child born alive to mother | 42.6 | 41.7 | 42.5 | 41.3 |
| Median age of mothers (years) | 25 | 26 | 26 | 26.8 |
| Median age of known fathers (years) | 29 | 29 | 29 | 29.3 |

^{1/} Place of occurrence basis.

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

Table 57.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1987

[Based on data for 12 specified races]

| Military status of father | Total births | Unmixed | Mixed <u>1/</u> | | | Not certain <u>2/</u> |
|---------------------------|--------------|---------|-----------------|------------|----------------|-----------------------|
| | | | Total | Part Haw'n | No Haw'n blood | |
| All groups | 18,555 | 8,336 | 9,005 | 5,630 | 3,375 | 1,214 |
| Military | 3,917 | 3,058 | 831 | 190 | 641 | 28 |
| Civilian <u>3/</u> | 14,638 | 5,278 | 8,174 | 5,440 | 2,734 | 1,186 |
| PERCENT DISTRIBUTION | | | | | | |
| All groups | 100.0 | 44.9 | 48.5 | 30.3 | 18.2 | 6.5 |
| Military | 100.0 | 78.1 | 21.2 | 4.9 | 16.4 | 0.7 |
| Civilian <u>3/</u> | 100.0 | 36.1 | 55.8 | 37.2 | 18.7 | 8.1 |

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

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

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

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

Table 58.-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX: 1987

[A total of 5,279 first names, including variant spellings, was reported for the 18,575 babies born in Hawaii in 1987]

| Rank | Boys' names <u>1/</u> | | Girls' names <u>2/</u> | |
|----------|-----------------------|--------|------------------------|--------|
| | Name | Number | Name | Number |
| 1 | Christopher | 246 | Ashley | 223 |
| 2 | Michael | 198 | Jessica | 172 |
| 3 | Joshua | 187 | Nicole | 124 |
| 4 | Matthew | 187 | Jennifer | 120 |
| 5 | Justin | 175 | Amanda | 104 |
| 6 | Ryan | 152 | Sarah | 93 |
| 7 | Brandon | 156 | Michelle | 74 |
| 8 | David | 127 | Lauren | 70 |
| 9 | James | 125 | Rachel | 67 |
| 10 | Daniel | 123 | Samantha | 67 |
| | | | Stephanie | 67 |

1/ The shortest were A, E, H, and J (one of each). The longest was Keliihokulanileikulamanakea.

2/ The shortest was I (one); the longest, Ke'alohikaumakaokeanuenue.

Source: Hawaii State Department of Health, Research and Statistics Office, July 11, 1988.

Table 59.-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1987

| Rank | Birth certificates | | Death certificates | |
|----------|--------------------|--------|--------------------|--------|
| | Surname | Births | Surname | Deaths |
| 1 | Lee | 93 | Lee | 44 |
| 2 | Smith | 87 | Wong | 35 |
| 3 | Wong | 71 | Ching | 30 |
| 4 | Kim | 62 | Kim | 25 |
| 5 | Brown | 57 | Higa | 24 |
| 6 | Williams | 57 | Nakamura | 24 |
| 7 | Young | 53 | Smith | 24 |
| 8 | Silva | 52 | Young | 24 |
| 9 | Johnson | 47 | Chun | 23 |
| 10 (tie) | Jones | 44 | Yamamoto | 21 |
| | Miller | 44 | Silva | 21 |

Source: Hawaii State Department of Health, special tabulation.

Table 60.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY: 1978 AND 1988

| Rank | 1978 | | 1988 | |
|----------|----------------|---------|----------------------|---------|
| | Name | Columns | Name | Columns |
| 1 | Lee | 18.5 | Lee | 20.5 |
| 2 | Wong | 16.0 | Wong | 17.0 |
| 3 | Young | 11.0 | Young (tie) | 11.0 |
| 4 | Chang | 10.5 | Kim (tie) | 11.0 |
| 5 | Smith | 9.5 | Chang | 10.75 |
| 6 | Chun | 9.5 | Chun (tie) | 9.67 |
| 7 | Ching | 8.75 | Smith (tie) | 9.67 |
| 8 | Kim | 8.67 | Ching | 8.50 |
| 9 | Nakamura | 8.5 | Johnson | 7.67 |
| 10 | Lum | 7.5 | Lum (tie) | 7.5 |
| | | | Nakamura (tie) | 7.5 |

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1978 p. A-11, and January 14, 1988, p. A-3.

Table 61.-- SELECTED LIFE TABLE VALUES, BY SEX: 1984-1986

[For earlier years and rankings relative to other States, see
Data Book 1987, tables 69 and 70]

| Age in years (period of life between two exact ages stated) | Of 100,000 born alive | | | | Average remaining lifetime at beginning of year of age <u>1</u> / ₁ | |
|---|--|---------|------------------------------------|-----------------------------|---|--------|
| | Number living at be- ginning of year of age | | Number dying during year of age | | Male | Female |
| | Male | Female | Male | Female | | |
| 0-1 | 100,000 | 100,000 | 1,020 | 833 | 75.37 | 80.92 |
| 5-6 | 98,814 | 99,023 | 17 | 22 | 71.27 | 76.72 |
| 15-16..... | 98,573 | 98,831 | 57 | 31 | 61.43 | 66.85 |
| 25-26 | 97,650 | 98,453 | 117 | 36 | 51.96 | 57.09 |
| 35-36 | 96,469 | 98,013 | 134 | 67 | 42.53 | 47.32 |
| 45-46 | 94,660 | 96,998 | 281 | 162 | 33.24 | 37.76 |
| 55-56 | 90,060 | 94,310 | 719 | 430 | 24.64 | 28.67 |
| 65-66 | 80,321 | 88,116 | 1,387 | 923 | 16.95 | 20.29 |
| 75-76 | 61,250 | 75,146 | 2,492 | 1,946 | 10.53 | 12.83 |
| 85-86 | 31,274 | 49,110 | (<u>2</u> / ₁) | (<u>2</u> / ₁) | 5.56 | 6.73 |

1/₁ For males and females combined, the average remaining lifetime at birth was 77.98 years. For the entire United States in 1985, the corresponding figure was 74.7 years (71.2 years for males and 78.2 years for females).

2/₁ Not calculated for this and higher ages.

Source: Robert W. Gardner, East-West Population Institute, Complete Life Tables by Age and Sex for Hawaii, 1984-86 (unpublished, September 11, 1987); Statistical Abstract of the United States: 1988, p. 70.

Table 62.-- CHARACTERISTICS OF RESIDENT DEATHS: 1984 TO 1987

[Excludes deaths of Hawaii residents occurring out of state]

| Subject | 1984 | 1985 | 1986 | 1987 |
|---|-------|-------|-------|-------|
| Number of resident deaths | 5,571 | 5,751 | 5,788 | 6,147 |
| City and County of Honolulu | 4,122 | 4,294 | 4,248 | 4,534 |
| Hawaii County | 707 | 715 | 719 | 784 |
| Kauai County | 272 | 256 | 313 | 305 |
| Maui County (incl. Kalawao) | 470 | 486 | 508 | 522 |
| Males per 100 females | 146.7 | 146.3 | 138.0 | 144.4 |
| Median age (years) | 71.1 | 71.9 | 73.2 | 72.2 |
| Centenarian deaths: Male | 7 | 10 | 10 | 14 |
| Female | 13 | 23 | 19 | 21 |
| Oldest (years): Male | 110 | 114 | 106 | 107 |
| Female | 105 | 109 | 106 | 103 |
| Percent married | 47.4 | 47.5 | 47.0 | 46.9 |
| Deaths under 1 year | 186 | 159 | 168 | 164 |
| Per 1,000 live births | 10.0 | 8.7 | 9.2 | 8.8 |
| Fetal deaths <u>1</u> / | 6,906 | 7,068 | 7,178 | 7,264 |
| Per 1,000 deliveries | 270 | 279 | 281 | 392 |
| Fetal deaths, 20 or more weeks gestation <u>2</u> / | 178 | 177 | 202 | 183 |
| Per 1,000 live births | 9.5 | 9.7 | 11.0 | 9.2 |
| Standard fetal deaths <u>3</u> / | 1,629 | 1,473 | 1,478 | 1,405 |
| Elective abortions | 5,277 | 5,595 | 5,700 | 5,971 |
| Per 1,000 live births | 282.7 | 306.3 | 312.3 | 321.8 |

1/ Includes elective abortions.

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

3/ Excludes elective abortions.

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

Table 63.-- CAUSE OF DEATH, BY SEX: 1987

[Place of residence basis]

| Cause of death | Both sexes | Males | Females |
|-------------------------------------|------------|-------|---------|
| Total deaths | 6,147 | 3,632 | 2,515 |
| Tuberculosis | 13 | 8 | 5 |
| Syphilis | 2 | 2 | - |
| Other infective | 122 | 82 | 40 |
| Malignant neoplasm | 1,416 | 830 | 586 |
| Digestive organs | 466 | 290 | 176 |
| Respiratory system | 381 | 266 | 115 |
| Breast | 103 | - | 103 |
| Genital organs | 115 | 67 | 48 |
| Urinary organs | 59 | 39 | 20 |
| Leukemia | 51 | 29 | 22 |
| Other | 241 | 139 | 102 |
| Diabetes mellitus | 178 | 84 | 94 |
| Heart disease | 2,012 | 1,219 | 793 |
| Rheumatic | 25 | 8 | 17 |
| Hypertensive | 70 | 36 | 34 |
| Ischemic | 1,129 | 700 | 429 |
| Other heart | 788 | 475 | 313 |
| Hypertension | 18 | 10 | 8 |
| Cerebrovascular disease | 451 | 219 | 232 |
| Arteriosclerosis | 45 | 18 | 27 |
| Aneurysm | - | - | - |
| Other circulatory | 94 | 62 | 32 |
| Influenza/pneumonia | 223 | 112 | 111 |
| Bronchitis/emphysema/asthma | 68 | 33 | 35 |
| Peptic ulcer | 23 | 14 | 9 |
| Cirrhosis of liver | 83 | 57 | 26 |
| Nephritis and nephrosis | 52 | 35 | 17 |
| Pregnancy, birth & puerperium | 1 | - | 1 |
| Congenital anomalies | 62 | 32 | 30 |
| Perinatal conditions | 67 | 42 | 25 |
| Ill-defined conditions | 45 | 37 | 18 |
| Other diseases | 697 | 385 | 312 |
| Accidents | 264 | 197 | 67 |
| Motor vehicles | 128 | 97 | 31 |
| Other | 136 | 100 | 36 |
| Suicide | 124 | 97 | 27 |
| Homicide & legal intervention | 46 | 35 | 11 |
| Other external causes | 31 | 22 | 9 |

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

Table 64.-- MAJOR CAUSES OF DEATH: 1908-1912 TO 1987

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

| Year | All causes | Major causes <u>1/</u> | | | | | |
|-----------------|------------|------------------------|-----------------------------|-------------------------|---------------------------------|-------------------------|--|
| | | Tubercu- losis | Malignant neo- plasms | Diseases of heart | Cerebro- vascular disease | Influenza, pneumonia | Gastritis, enteritis, etc. <u>2/</u> |
| Number: | | | | | | | |
| 1908-12 | 3,100 | 365 | 81 | 181 | 70 | 335 | 305 |
| 1918-22 | 4,430 | 499 | 164 | 274 | 165 | 896 | 486 |
| 1928-32 | 4,073 | 400 | 236 | 506 | 233 | 522 | 277 |
| 1938-42 | 3,075 | 263 | 292 | 683 | 248 | 230 | 41 |
| 1948-52 | 2,923 | 108 | 435 | 868 | 258 | 102 | 23 |
| 1958-62 | 3,377 | 22 | 575 | 1,111 | 296 | 135 | 15 |
| 1970 .. | 4,211 | 14 | 764 | 1,386 | 401 | 173 | ... |
| 1980 .. | 4,903 | 15 | 1,141 | 1,544 | 376 | 178 | ... |
| 1987 .. | 6,147 | 13 | 1,416 | 2,012 | 451 | 223 | ... |
| Percent: | | | | | | | |
| 1908-12 | 100.0 | 11.8 | 2.6 | 5.8 | 2.3 | 10.8 | 9.8 |
| 1918-22 | 100.0 | 11.3 | 3.7 | 6.2 | 3.7 | 20.2 | 11.0 |
| 1928-32 | 100.0 | 9.8 | 5.8 | 12.4 | 5.7 | 12.8 | 6.8 |
| 1938-42 | 100.0 | 8.6 | 9.5 | 22.2 | 8.1 | 7.5 | 1.3 |
| 1948-52 | 100.0 | 3.7 | 14.9 | 29.7 | 8.8 | 3.5 | 0.8 |
| 1958-62 | 100.0 | 0.7 | 17.0 | 32.9 | 8.8 | 4.0 | 0.4 |
| 1970 .. | 100.0 | 0.3 | 18.1 | 32.9 | 9.5 | 4.1 | ... |
| 1980 .. | 100.0 | 0.3 | 23.3 | 31.5 | 7.7 | 3.6 | ... |
| 1987 .. | 100.0 | 0.2 | 23.0 | 32.7 | 7.3 | 3.6 | ... |
| Rate: <u>3/</u> | | | | | | | |
| 1908-12 | 1,601 | 188 | 42 | 93 | 36 | 173 | 158 |
| 1918-22 | 1,663 | 187 | 62 | 103 | 62 | 336 | 182 |
| 1928-32 | 1,105 | 109 | 64 | 137 | 63 | 142 | 75 |
| 1938-42 | 739 | 63 | 70 | 164 | 60 | 55 | 10 |
| 1948-52 | 616 | 23 | 92 | 183 | 54 | 21 | 5 |
| 1958-62 | 582 | 4 | 99 | 192 | 51 | 23 | 3 |
| 1970 .. | 546 | 2 | 99 | 180 | 52 | 22 | ... |
| 1980 .. | 506 | 2 | 118 | 159 | 39 | 18 | ... |
| 1987 .. | 568 | 1 | 131 | 186 | 42 | 21 | ... |

Continued on next page.

Table 64.-- MAJOR CAUSES OF DEATH: 1908-1912 TO 1987 -- Con.

1/ Includes the three leading causes in each listed year.
 2/ Gastritis, duodenitis, enteritis, and colitis, except diarrhea of newborn. Not separately reported in 1970 and later years.
 3/ Per 100,000 resident population, 1908-1939 and 1970-1986; per 100,000 civilian population, 1940-1962. Data for periods before 1970 based on 5-year average populations. Population estimates through 1939 from Robert C. Schmitt, Historical Statistics of Hawaii, p. 10; 1940 and later years from DPED, Statistical Report 172, and present report, table 2. Rates not adjusted for age.
 Source: Hawaii State Department of Health, "Mortality Trends in Hawaii, 1908-1962," R & S Report, No. 2 (April 1973), and Statistical Report for 1970 (pp. 33-34), 1980 (pp. 23-25), and 1987 (forthcoming).

Table 65.-- CATASTROPHIC MORTALITY: 1978 TO 1988

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents. Complete through July 10, 1988]

| Date | Place | Kind of disaster | Deaths |
|-----------------------|--------------------------|------------------------|--------|
| 1978: Dec. 9 (?) | At sea off West Hawaii . | Ship disappearance ... | 10 |
| 1979: Feb. 11 (?) ... | At sea out of Hana | Boat disappearance ... | 5 |
| Nov. 24 | Near Wahiawa, Oahu | 2-car auto crash | 5 |
| 1980: May 18 | Molokai | Helicopter crash | 7 |
| 1981: Dec. 5 | Pearl Harbor | Airplane crash | 11 |
| 1982: July 24 | Near Wahiawa, Oahu | 3-car auto crash | 5 |
| 1983: June 16 | Honopu, Kauai | Airplane crash | 14 |
| 1985: Jan. 15 | 540 mi. N. of Honolulu . | Helicopter crash | 7 |
| 1987: Dec. 23 | At sea W. of Molokai ... | Airplane disappearance | 8 |
| 1988: June 9 | Near Waimanalo, Oahu ... | 2-car auto crash | 5 |
| July 9 | Near Kawaihae, Hawaii .. | 2-car auto crash | 6 |

Source: DBED file of newspaper accounts.

Table 66.-- DEATHS OCCURRING IN HAWAII, BY METHOD
OF DISPOSITION: 1982 TO 1987

| Method | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 |
|---------------------------|-------|-------|-------|-------|-------|-------|
| All methods | 5,495 | 5,725 | 5,942 | 6,116 | 6,171 | 6,490 |
| Burial | 2,324 | 2,513 | 2,517 | 2,610 | 2,512 | 2,690 |
| Cremation | 2,515 | 2,588 | 2,808 | 2,886 | 3,002 | 3,185 |
| Removal | 613 | 594 | 587 | 586 | 614 | 565 |
| Entombment | 33 | 25 | 26 | 27 | 41 | 39 |
| Educational purpose | - | - | - | - | - | - |
| Other | - | 3 | - | - | - | - |
| Unknown | 10 | 2 | 4 | 7 | 2 | 11 |

Source: Hawaii State Department of Health, Statistical Report for 1981-1986, and records.

Table 67.-- PERCENT OF ADULT POPULATION AFFECTED BY SPECIFIED
HEALTH RISK FACTORS, BY SEX AND ISLANDS: 1987

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

| Health risk factor | State | Island | | Sex | |
|----------------------------|-------|--------|--------|------|--------|
| | | Oahu | Others | Male | Female |
| Seatbelt nonuse | 7.3 | 5.9 | 12.2 | 9.1 | 5.6 |
| Current hypertension | 15.7 | 15.7 | 15.7 | 15.2 | 16.1 |
| Sedentary lifestyle | 51.7 | 51.6 | 52.0 | 45.3 | 57.9 |
| Obesity | 18.1 | 17.5 | 20.3 | 21.3 | 15.0 |
| Smoking | 22.3 | 21.4 | 25.5 | 23.6 | 21.1 |
| Acute drinking | 22.6 | 21.2 | 27.7 | 35.3 | 10.2 |
| Heavier drinking | 8.9 | 7.4 | 13.9 | 15.2 | 2.7 |
| Drinking and driving | 3.7 | 3.0 | 6.2 | 5.5 | 1.9 |

Source: Hawaii State Department of Health, Health Promotion and Education Office, HPEO Report - 1987 Statistical Annual Report, tables 2 and 3.

Table 68.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1986 AND 1987

| Date | State total | City and Co. of Honolulu | County of Hawaii | County of Kauai | County of Maui |
|---------------------|-------------|--------------------------|------------------|-----------------|----------------|
| 1986: June 30 | 2,000 | 1,631 | 147 | 66 | 156 |
| 1987: June 30 | 2,008 | 1,643 | 147 | 66 | 152 |

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

Table 69.-- CHRONIC CONDITIONS: 1986

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

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

Table 70.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE
CONDITIONS: 1986

| Type of limitation | Number |
|---|------------|
| Persons with one or more chronic conditions | 378,440 |
| No limitation of activity | 313,730 |
| Limited, but not in major activity | 26,073 |
| Limited in amount or kind of activity | 18,797 |
| Unable to carry on major activity | 10,893 |
| Restricted days in past 12 months <u>1/</u> | 12,697,600 |
| Per person <u>2/</u> | 12.4 |

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 71.-- ACUTE CONDITIONS: 1986

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

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

Table 72.-- SPECIFIED COMMUNICABLE DISEASES: 1985 TO 1987

| Disease | Cases | | | Deaths | | |
|----------------------------------|--------|-------|-------|--------|------|------|
| | 1985 | 1986 | 1987 | 1985 | 1986 | 1987 |
| All reportable diseases .. | 11,358 | 9,762 | 8,153 | 42 | 39 | 71 |
| AIDS <u>1/</u> | 32 | 58 | 79 | 26 | 27 | 41 |
| Chickenpox | 1,494 | 1,386 | 1,484 | - | - | - |
| Gonorrhea | 2,162 | 1,619 | 1,159 | - | - | - |
| Hansen's Disease <u>2/</u> | 31 | 37 | 25 | - | - | - |
| Hepatitis, all types | 260 | 101 | 110 | 7 | 2 | 13 |
| Influenza | 1,009 | 316 | 332 | - | 3 | 5 |
| Leptospirosis <u>3/</u> | 13 | 15 | 24 | 1 | - | - |
| Malaria <u>4/</u> | 17 | 1 | 3 | - | - | 1 |
| Measles (Rubeola) | 31 | 37 | 5 | - | - | - |
| Meningitis, all types | 167 | 222 | 137 | - | - | - |
| Mumps | 19 | 24 | 12 | - | - | - |
| Rubella | 44 | 8 | 32 | - | - | - |
| Salmonellosis | 337 | 428 | 475 | - | 1 | - |
| Scarlet fever, other strep. ... | 5,036 | 4,892 | 3,620 | - | - | - |
| Syphilis | 123 | 56 | 64 | - | - | - |
| Tuberculosis | 189 | 180 | 195 | 8 | 6 | 11 |
| All others | 394 | 382 | 397 | - | - | - |

1/ In 1983, there were 8 AIDS cases and 3 deaths; in 1984, 13 cases and 8 deaths.

2/ Excludes reinstated cases.

3/ Includes previously unreported cases.

4/ Acquired outside the State.

Source: Hawaii State Department of Health, Statistical Report, 1987.

Table 73.-- ALCOHOL AND DRUG USE, BY AGE AND SEX: 1984

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

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

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

2/ Based on total ethanol consumption.

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

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

Table 74.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,
BY TYPE OF FACILITY: 1980 TO 1988

[Includes Tripler Army Medical Center]

| Category and year | Hospitals | | | | Care homes | |
|-----------------------|-----------------|------------|----------------|----------------|-----------------------|------------------|
| | Total <u>1/</u> | Acute care | Long-term care | Specialty care | Residential <u>2/</u> | Family <u>3/</u> |
| Number of facilities: | | | | | | |
| 1980 | 49 | 25 | 33 | 8 | 15 | 281 |
| 1981 | 49 | 25 | 34 | 9 | 14 | 278 |
| 1982 | 49 | 25 | 34 | 9 | 15 | 280 |
| 1983 | 45 | 23 | 34 | 9 | 16 | 282 |
| 1984 | 48 | 24 | 32 | 10 | 16 | 272 |
| 1985 | 47 | 23 | 32 | 10 | 16 | 299 |
| 1986 | 48 | 23 | 33 | 9 | 17 | 633 |
| 1987 | 51 | 23 | 36 | 9 | 17 | 633 |
| 1988 | 51 | 22 | 36 | 9 | 16 | 531 |
| Number of beds: | | | | | | |
| 1980 | 6,416 | 2,886 | 2,656 | 874 | 490 | 1,042 |
| 1981 | 6,488 | 2,925 | 2,670 | 893 | 500 | 1,055 |
| 1982 | 6,424 | 2,875 | 2,668 | 881 | 516 | 1,098 |
| 1983 | 6,379 | 2,848 | 2,640 | 891 | 549 | 1,096 |
| 1984 | 6,512 | 2,896 | 2,648 | 967 | 549 | 1,082 |
| 1985 | 6,504 | 2,894 | 2,650 | 960 | 559 | 1,258 |
| 1986 | 6,595 | 2,870 | 2,769 | 956 | 540 | 2,547 |
| 1987 | 6,820 | 2,887 | 2,977 | 956 | 540 | 2,547 |
| 1988 | 6,671 | 2,855 | 2,995 | 821 | 490 | 2,235 |

NA Not available.

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

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

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

Source: Hawaii State Department of Health, Statistical Report (annual); State Health Planning and Development Agency, records; Hospital and Medical Facilities Branch, records.

Table 75.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE
CIVILIAN HOSPITALS: 1980 TO 1987

[Excludes Tripler Army Medical Center]

| Type of facility and year | Beds <u>1/</u> | Admissions | Average daily census | Average length of stay (days) | Average daily percent occupancy |
|---------------------------|----------------|------------|----------------------|-------------------------------|---------------------------------|
| Acute care: | | | | | |
| 1980 | 2,359 | 117,404 | 2,047 | 6.4 | 70.9 |
| 1981 | 2,366 | 99,247 | 1,675 | 6.2 | 71.0 |
| 1982 | 2,366 | 102,374 | 1,728 | 6.2 | 73.0 |
| 1983 | 2,387 | 102,331 | 1,654 | 5.9 | 69.3 |
| 1984 | 2,385 | 96,530 | 1,558 | 5.9 | 65.3 |
| 1985 | 2,361 | 84,473 | 1,566 | 6.8 | 66.3 |
| 1986 <u>2/</u> | 2,378 | 91,704 | 1,586 | 6.3 | 66.7 |
| 1987 | 2,346 | 93,256 | 1,661 | 6.5 | 70.8 |
| Long-term care: | | | | | |
| 1980 | 2,670 | 2,653 | 2,391 | 328.9 | 90.0 |
| 1981 | 2,668 | 2,478 | 2,487 | 366.4 | 93.2 |
| 1982 | 2,640 | 2,498 | 2,523 | 368.7 | 95.6 |
| 1983 | 2,648 | 2,574 | 2,519 | 357.3 | 95.2 |
| 1984 | 2,650 | 2,606 | 2,552 | 357 | 96.3 |
| 1985 | 2,769 | 2,575 | 2,590 | 367 | 93.5 |
| 1986 <u>2/</u> | 2,977 | 2,901 | 2,602 | 327 | 87.4 |
| 1987 | 2,995 | 2,553 | 2,779 | 397 | 92.8 |

NA Not available.

1/ Civilian bed count of succeeding year.

2/ Excludes statistics for Lanai.

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

Table 76.-- NUMBER AND BED CAPACITY OF HOSPITALS,
BY TYPE OF FACILITY, BY ISLANDS: 1988

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

| Category and island | Hospitals | | | | Care homes | |
|----------------------|-----------------|----------------------|----------------|----------------|-------------------|------------------|
| | Total <u>1/</u> | Acute care <u>2/</u> | Long-term care | Specialty care | Type II <u>3/</u> | Type I <u>4/</u> |
| NUMBER OF FACILITIES | | | | | | |
| State total .. | 51 | 22 | 36 | 9 | 16 | 531 |
| Oahu | 33 | 10 | 21 | 7 | 11 | 422 |
| Hawaii | 6 | 4 | 6 | - | 1 | 53 |
| Kauai | 5 | 3 | 5 | - | 3 | 29 |
| Maui | 4 | 3 | 2 | 1 | - | 18 |
| Molokai | 2 | 1 | 1 | 1 | 1 | 9 |
| Lanai | 1 | 1 | 1 | - | - | - |
| NUMBER OF BEDS | | | | | | |
| State total .. | 6,671 | 2,855 | 2,995 | 821 | 490 | 2,235 |
| Oahu | 5,120 | 2,336 | 1,985 | 799 | 406 | 1,817 |
| Hawaii | 667 | 240 | 427 | - | 13 | 207 |
| Kauai | 328 | 114 | 214 | - | 57 | 102 |
| Maui | 498 | 151 | 339 | 8 | - | 75 |
| Molokai | 44 | 8 | 22 | 14 | 14 | 34 |
| Lanai | 14 | 6 | 8 | - | - | - |

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

2/ Includes Tripler Army Medical Center which had a bed capacity of 509 (plus 52 nursery beds).

3/ More than five beds.

4/ Five beds or less.

Source: Hawaii State Department of Health, Annual Summary of Acute, Long Term Care and Specialty Hospital Utilization, 1987; State Health Planning and Development Agency.

Table 77.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE
CIVILIAN HOSPITALS, BY ISLANDS: 1987

[Excludes Tripler Army Medical Center]

| Type of facility and island | Admissions | Average daily census | Average length of stay (days) | Average daily percent occupancy |
|-----------------------------|------------|----------------------|-------------------------------|---------------------------------|
| ACUTE CARE | | | | |
| State total | 93,256 | 1,661 | 6.5 | 70.8 |
| Oahu | 70,536 | 1,344 | 7.0 | 74.4 |
| Hawaii | 10,885 | 146 | 4.9 | 60.7 |
| Kauai | 5,158 | 60 | 4.3 | 51.5 |
| Maui | 6,260 | 108 | 4.8 | 70.1 |
| Molokai | 276 | 2 | 3.3 | 15.8 |
| Lanai | 141 | 1 | 2.8 | 12.9 |
| LONG-TERM CARE | | | | |
| State total | 2,553 | 2,779 | 397.3 | 92.8 |
| Oahu | 1,528 | 1,863 | 444 | 93.7 |
| Hawaii | 401 | 394 | 359 | 96.7 |
| Kauai | 312 | 178 | 201 | 92.1 |
| Maui | 283 | 323 | 417 | 95.7 |
| Molokai | 23 | 13 | 200 | 90.1 |
| Lanai | 6 | 8 | 496 | 100.0 |

NA Not available.

Source: Data by islands from Hawaii State Department of Health, State Health Planning and Development Agency, Annual Summary of Acute, Long Term Care and Specialty Hospital Utilization By County, 1987.

Table 78.-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES:
1981 TO 1987

| Year | Average length of stay (days) | Average cost to hospital | | Hospital semiprivate room charges 1/ (dollars) |
|------------|-------------------------------|------------------------------|-------------------------|--|
| | | Per in-patient day (dollars) | Per admission (dollars) | |
| 1981 | 7.9 | 276.80 | 2,187 | 169.19 |
| 1982 | 8.3 | 307.30 | 2,551 | 192.74 |
| 1983 | 8.2 | 357.87 | 2,964 | 215.84 |
| 1984 | 8.3 | 383.05 | 3,186 | 227.53 |
| 1985 | 8.3 | 420.11 | 3,522 | 230.82 |
| 1986 | 7.5 | 489.93 | 3,707 | 266.24 |
| 1987 | (NA) | (NA) | (NA) | 279.90 |

NA Not available.

1/ July data, except 1985, which refers to January.

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

Table 79.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1982 TO 1987

| Year | Patients active, end of period | | | Admissions | | Terminations | Patients served (undup.) |
|-------------|--------------------------------|-------------|--------------|------------|--------------|--------------|--------------------------|
| | Total | In-patients | Out-patients | Total | Unduplicated | | |
| 1982 | 6,287 | 336 | 5,951 | 4,885 | 4,163 | 5,155 | 10,312 |
| 1983 | 6,022 | 303 | 5,719 | 4,761 | 4,112 | 5,030 | 9,970 |
| 1984 1/ ... | 5,692 | 337 | 5,355 | 4,307 | 3,845 | 4,887 | 9,724 |
| 1985 | 6,328 | 251 | 6,077 | 3,933 | 3,268 | 4,221 | 8,891 |
| 1986 | 5,852 | 252 | 5,600 | 3,826 | 3,292 | 3,725 | 8,342 |
| 1987 | 5,754 | 248 | 5,506 | 3,678 | 3,122 | 3,452 | 8,220 |

1/ Year ended June 30.

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

Table 80.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1984 TO 1988

| Year | Number of beds, June 30 | Admissions <u>1/</u> | | Patients in hospital <u>2/</u> | |
|------------------|-------------------------|----------------------|-------|--------------------------------|---------|
| | | Total | First | Average <u>1/</u> | June 30 |
| 1984 | 220 | 744 | 276 | 221 | 240 |
| 1985 | 220 | 647 | 514 | 220 | 224 |
| 1986 <u>3/</u> . | 240 | 738 | 611 | 263 | 272 |
| 1987 <u>3/</u> . | 240 | 776 | 614 | 254 | 223 |
| 1988 <u>3/</u> . | 240 | 811 | 651 | 241 | 210 |

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

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

Source: Hawaii State Hospital, records.

Table 81.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1984 TO 1988

[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 | |
| 1984 | 410 | 2 | 356 | 364 | 603 |
| 1985 | 410 | 2 | 354 | 360 | 586 |
| 1986 | 410 | - | 331 | 333 | 593 |
| 1987 | 285 | - | 266 | 260 | 575 |
| 1988 | 285 | 2 | 225 | 199 | <u>3/</u> 3 |

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

2/ Year ended June 30.

3/ Reflects effect of deinstitutionalization of the facility; placement into community-based ICF/MR.

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

Table 82.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1983 TO 1987

| Subject | 1983 | 1984 | 1985 | 1986 | 1987 |
|----------------------------------|------|------|------|------|------|
| Patients on register, Dec. 31 .. | 578 | 661 | 651 | 653 | 633 |
| Medically released | 578 | 661 | 651 | 653 | 633 |
| At home | 462 | 555 | 546 | 549 | 532 |
| Kalaupapa | 110 | 101 | 100 | 99 | 97 |
| Hale Mohalu or Leahi | 6 | 5 | 5 | 5 | 4 |
| Hospital care days (1,000) | 39.3 | 36.6 | 35.2 | 34.5 | 33.4 |
| New cases | 41 | 43 | 31 | 37 | 24 |

Source: Hawaii State Department of Health, Statistical Report, 1987.

Table 83.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED
IN HAWAII, BY PLACE OF ADDRESS: FEBRUARY 11, 1988

| Place of address | Physicians and surgeons <u>1/</u> | Dentists | Regis- tered nurses | Pharma- cists |
|----------------------|---|----------|---------------------------|------------------|
| Total licensed | 3,947 | 1,168 | 8,889 | 872 |
| Hawaii addresses ... | 2,277 | 881 | 7,070 | 520 |
| Hawaii | 185 | 79 | 583 | 47 |
| Maui | 162 | 55 | 524 | 38 |
| Lanai | 1 | 1 | 7 | 1 |
| Molokai | 7 | 4 | 29 | 2 |
| Oahu | 1,823 | 711 | 5,651 | 409 |
| Kauai | 99 | 31 | 276 | 23 |
| Niihau | - | - | - | - |
| Out of State | 1,670 | 287 | 1,819 | 352 |

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 84.-- MARRIAGES AND DIVORCES: 1970 TO 1987

[Place of occurrence basis]

| Calendar year | Marriages | | Divorces and annulments <u>2/</u> | Rates per 1,000 resident population | | Percent of marriages | |
|---------------|-----------|-------------------------|-----------------------------------|-------------------------------------|--------------------------------|----------------------------|----------------------------|
| | Total | Resi- dent <u>1/</u> | | Resident marriages | Divorces, annulments <u>2/</u> | Nonresi- dent <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 | 9.6 | 4.3 | 22.7 | 44.5 |
| 1982 ... | 13,483 | 10,053 | 4,233 | 10.1 | 4.2 | 25.4 | 45.0 |
| 1983 ... | 14,062 | 10,216 | 4,583 | 10.0 | 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 | 9.4 | 4.6 | 35.8 | 46.9 |
| 1986 ... | 16,219 | 9,571 | 4,674 | 9.0 | 4.4 | 30.4 | 46.5 |
| 1987 ... | 16,567 | 9,714 | 4,419 | 9.0 | 4.1 | 41.3 | 44.6 |

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 85.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1984 TO 1987

[Place of occurrence basis]

| Subject | 1984 | 1985 | 1986 | 1987 |
|--|--------|--------|--------|--------|
| MARRIAGES | | | | |
| Number | 14,982 | 15,421 | 16,219 | 16,567 |
| Percent on Oahu | 66.8 | 64.5 | 62.0 | 61.4 |
| Percent Hawaii residents: | | | | |
| Both bride and groom | 61.7 | 59.4 | 54.6 | 54.5 |
| One partner only | 5.2 | 4.7 | 4.4 | 4.2 |
| Neither bride nor groom | 33.1 | 35.8 | 41.0 | 41.3 |
| Median age (years): | | | | |
| Groom | 29.7 | 29.9 | 30.6 | 30.7 |
| Bride | 27.5 | 27.8 | 28.1 | 28.4 |
| Percent previously married: | | | | |
| Groom | 38.3 | 39.3 | 40.4 | 39.6 |
| Bride | 38.8 | 39.1 | 39.6 | 39.0 |
| DIVORCES AND ANNULMENTS | | | | |
| Number | 4,769 | 4,887 | 4,674 | 4,419 |
| Divorces | 4,758 | 4,875 | 4,652 | 4,404 |
| Annulments | 11 | 12 | 19 | 15 |
| Not reported | - | - | 3 | - |
| Percent occurring on Oahu | 79.2 | 77.2 | 76.2 | 75.3 |
| Residence: | | | | |
| Both residents of Hawaii | 74.2 | 75.3 | 74.4 | 75.0 |
| Only husband nonresident | 13.0 | 12.3 | 12.9 | 13.2 |
| Only wife nonresident | 12.8 | 12.4 | 12.5 | 11.5 |
| Both nonresidents | - | - | 0.1 | 0.2 |
| Median age (years): | | | | |
| Husband | 33.9 | 34.3 | 34.3 | 35.2 |
| Wife | 31.3 | 32.0 | 32.1 | 32.7 |
| Percent interracial ^{1/} | 41.1 | 39.0 | 38.2 | 38.9 |
| Percent with children under 18 years ... | 54.0 | 55.6 | 53.2 | 51.8 |
| Median years married | 6.1 | 6.3 | 6.4 | 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 86.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT,
BY RACE MIXTURE AND TYPE OF CEREMONY: 1987

| Race mixture and type of ceremony | Total | At least one partner Hawaii resident | Both partners nonresidents |
|-----------------------------------|--------|--------------------------------------|----------------------------|
| All marriages | 16,567 | 9,714 | 6,853 |
| Both partners same race | 11,616 | 5,388 | 6,228 |
| Different | 4,951 | 4,326 | 625 |
| Percent different | 29.9 | 44.5 | 9.1 |
| Civil ceremony | 4,831 | 3,840 | 991 |
| Religious ceremony | 11,735 | 5,873 | 5,862 |
| Unknown | 1 | 1 | - |

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

Table 87.-- DIVORCE AND WIDOWHOOD: 1950 TO 1986

| Subject | 1950 | 1960 | 1970 | 1980 | 1986 |
|----------------------------|--------|---------|---------|---------|---------|
| Married couples | 90,844 | 120,192 | 154,678 | 185,698 | 234,310 |
| Terminated marriages | (NA) | 2,713 | 4,466 | 6,782 | 7,397 |
| Divorces | 1,173 | 1,270 | 2,589 | 4,438 | 4,674 |
| Deaths 1/ | (NA) | 1,443 | 1,877 | 2,344 | 2,723 |
| Husbands | (NA) | 947 | 1,312 | 1,678 | 1,941 |
| Wives | (NA) | 496 | 565 | 666 | 782 |
| Percent terminated | (NA) | 2.3 | 2.9 | 3.7 | 3.2 |
| By divorce | 1.3 | 1.1 | 1.7 | 2.4 | 2.0 |
| By death 1/ | (NA) | 1.2 | 1.2 | 1.3 | 1.2 |
| Husbands | (NA) | 0.8 | 0.8 | 0.9 | 0.8 |
| Wives | (NA) | 0.4 | 0.4 | 0.4 | 0.3 |

NA Not available.

1/ Excludes armed forces, 1950-1970.

Source: Hawaii State Department of Health, Statistical Report (annual) and records; U.S. Bureau of the Census, decennial census, 1960-1980; Data Book 1987, table 40.

Table 88.-- PERSONAL HEALTH CARE EXPENDITURES: 1966 AND 1982

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

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

Table 89.-- HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY SEX: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward. For further information, see Data Book 1984, tables 104-107]

| Centile | Height (inches) | | Weight (pounds) | |
|---------------------|-----------------|-------|-----------------|-------|
| | Men | Women | Men | Women |
| 10th | 63.1 | 59.3 | 126.4 | 100.8 |
| 50th (median) | 67.4 | 62.4 | 158.3 | 123.8 |
| 90th | 72.1 | 66.5 | 199.5 | 166.9 |
| Average | 67.5 | 62.6 | 159.5 | 127.9 |

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