

SECTION 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, morbidity, hospitals, and health personnel.

Vital indices generally reflect the high health standards of Hawaii. Expectation of life at birth was 70.46 years for males and 77.18 years for females in 1969-1971, about twice the 1884-1885 average of 36.5 years. The provisional crude death rate in 1971 was only 5.8, half the 1930 level and four-fifths below mortality rates at the turn of the century. Deaths under one year of age per 1,000 live births dropped from 205 in 1910 to 16.2 in 1971. The provisional 1971 crude birth rate was 21.5. Over 99 percent of all babies were born in hospitals, and a fourth were born to military couples. One out of eleven births was illegitimate. Marriages numbered 9,675 in 1971, with about a third accounted for by nonresidents. Divorces reached a 1971 total of 3,690. The State had 31 hospitals (with 5,021 beds) and 161 nursing and care homes (with 2,162 beds) when most recently surveyed. Average length of stay in the largest of the hospitals was 7.5 days in 1971, compared with 13.0 in 1920 and 59 in the 1870's. State licensing boards listed 1,051 physicians and surgeons, 494 dentists, 3,702 professional nurses, and 220 pharmacists.

Major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health and various publications of the U.S. Public Health Service. Section 2 of the *Statistical Abstract of the United States: 1972* contains similar data for the nation as a whole.

Table 25.—BIRTHS, DEATHS, AND INFANT DEATHS: 1849 TO 1972

(Place of occurrence basis. Not adjusted for underregistration, known to have been significant before 1920. All data refer to calendar years unless otherwise specified)

| Year | Live births | Deaths ¹ | Rate per 1,000 pop. ² | | Infant death rate ³ | Percent of births in hospitals | Illegitimate birth per 1,000 live births |
|----------------------|-------------|---------------------|----------------------------------|--------------------|--------------------------------|--------------------------------|--|
| | | | Birth | Death ¹ | | | |
| 1849 | 1,422 | 4,320 | 16.6 | 50.5 | (NA) | (NA) | (NA) |
| 1855 | 1,642 | 1,685 | 22.5 | 23.1 | (NA) | (NA) | (NA) |
| 1860 | 1,672 | 2,343 | 23.8 | 33.4 | (NA) | (NA) | (NA) |
| 1866 | 1,713 | 2,941 | 26.9 | 46.2 | (NA) | (NA) | (NA) |
| 1870 | 2,413 | 3,819 | 40.8 | 64.6 | (NA) | (NA) | (NA) |
| 1875 | 2,558 | 2,988 | 47.2 | 55.1 | (NA) | (NA) | (NA) |
| 1880-81 ⁴ | 2,350 | 2,550 | 35.6 | 38.6 | (NA) | (NA) | (NA) |
| 1884-85 ⁴ | 1,589 | 1,792 | 19.7 | 22.2 | (NA) | (NA) | (NA) |
| 1890 | (NA) | (NA) | (NA) | 30.6 | (NA) | (NA) | (NA) |
| 1895 | (NA) | (NA) | (NA) | 26.5 | (NA) | (NA) | (NA) |
| 1900 | (NA) | (NA) | (NA) | 32.8 | (NA) | (NA) | (NA) |
| 1905 ⁵ | 2,609 | 2,686 | 15.7 | 16.1 | 319.5 | (NA) | (NA) |
| 1910 ⁶ | 4,302 | 2,941 | 22.8 | 15.6 | 205.5 | (NA) | (NA) |
| 1915 ⁷ | 7,278 | 3,556 | 33.1 | 16.2 | 156.8 | (NA) | (NA) |
| 1920 ⁷ | 10,165 | 4,564 | 40.4 | 18.1 | 108.8 | (NA) | (NA) |
| 1925 ⁷ | 13,109 | 4,017 | 43.3 | 13.3 | 112.2 | (NA) | 12.6 |
| 1930 ⁷ | 10,873 | 3,976 | 31.1 | 11.4 | 82.3 | 10.0* | 26.6 |
| 1935 ⁷ | 9,252 | 3,236 | 25.1 | 8.8 | 67.4 | 37.0 | 52.0 |
| 1940 ⁷ | 9,524 | 3,025 | 24.1 | 7.6 | 43.7 | 69.5 | 62.5 |
| 1945 ⁷ | 12,299 | 2,829 | 26.7 | 6.2 | 27.6 | 91.2 | 72.9 |
| 1950 | 14,059 | 2,883 | 29.4 | 6.0 | 23.8 | 97.1 | 49.7 |
| 1955 | 16,305 | 3,087 | 33.8 | 6.4 | 20.6 | 98.8 | 49.5 |
| 1960 | 17,193 | 3,540 | 29.5 | 6.1 | 23.2 | 99.1 | 51.3 |
| 1961 | 17,558 | 3,367 | 29.4 | 5.6 | 21.7 | 99.1 | 57.6 |
| 1962 | 17,932 | 3,512 | 29.7 | 5.8 | 20.6 | 99.3 | 60.3 |
| 1963 | 17,744 | 3,643 | 28.5 | 5.9 | 22.5 | 99.3 | 64.1 |
| 1964 | 17,284 | 3,638 | 27.6 | 5.8 | 19.8 | 99.5 | 66.6 |
| 1965 | 16,259 | 3,705 | 25.0 | 5.7 | 21.5 | 99.3 | 72.1 |
| 1966 | 14,943 | 3,770 | 22.8 | 5.7 | 18.9 | 99.4 | 83.8 |
| 1967 | 14,765 | 3,897 | 22.2 | 5.8 | 16.9 | 99.5 | 87.5 |
| 1968 | 14,595 | 4,192 | 21.5 | 6.2 | 19.0 | 99.3 | 94.8 |
| 1969 | 15,755 | 4,146 | 22.5 | 5.9 | 19.2 | 99.5 | 94.5 |
| 1970 | 16,467 | 4,125 | 22.9 | 5.7 | 19.1 | 99.5 | 94.6 |
| 1971 | 15,845 | 4,304 | 21.4 | 5.8 | 16.0 | 99.4 | 88.4 |
| 1972 ⁸ | 15,300 | 4,433 | 20.2 | 5.8 | 17.6 | (NA) | (NA) |

*1931 estimate.

NA Not available.

¹Death data include armed forces through 1940 but exclude them thereafter. The 1890, 1895, and 1900 rates are for Honolulu only.

²Based on total resident population through 1900 and civilian resident population thereafter.

³Deaths under one year per 1,000 live births. The 1905 rate is for Honolulu and Hilo Districts.

⁴Annual averages for two-year period.

⁵The infant death rate refers to the year ended June 30.

⁶All data refer to the year ended June 30.

⁷All data except the infant death rate refer to the year ended June 30.

⁸Preliminary.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 165-167 and 171; Hawaii State Department of Health, *Annual Report for 1925-1950, Annual Report, Statistical Supplement for 1955 and later years, and records.*

**Table 26.—BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:
1971 AND 1972**

| Military status | Live births ¹ | | Deaths ¹ | | Birth rate ² | | Death rate ² | |
|-----------------------|--------------------------|-------------------|---------------------|-------------------|-------------------------|-------------------|-------------------------|-------------------|
| | 1971 | 1972 ³ | 1971 | 1972 ³ | 1971 | 1972 ³ | 1971 | 1972 ³ |
| Total population .. | 15,845 | 15,500 | 4,351 | 4,493 | 19.3 | 18.2 | 5.3 | 5.3 |
| Armed forces | — | — | 47 | 60 | 0 | 0 | 0.9 | 1.2 |
| Civilians | 15,845 | 15,500 | 4,304 | 4,433 | 20.6 | 19.4 | 5.6 | 5.6 |
| Military | | | | | | | | |
| dependents | 3,668 | 3,543 | 149 | 159 | 59.0 | 53.5 | 2.4 | 2.4 |
| Other civilians | 12,177 | 11,957 | 4,155 | 4,274 | 17.2 | 16.3 | 5.9 | 5.8 |

¹Place of occurrence basis.

²Per 1,000 de facto population. For rates based on resident population, see the preceding table.

³Provisional.

Source: Vital events from Hawaii State Department of Health, *Statistical Report, 1971*, pp. 1, 8, and 28, and records. Deaths of military dependents based on an estimated crude death rate of 2.4. Rates based on estimates in the Hawaii State Department of Planning and Economic Development, *Statistical Report 95* (May 2, 1973).

Table 27.—CHARACTERISTICS OF BIRTHS AND DEATHS: 1961 AND 1971
(Place of occurrence basis)

| Subject | 1971 | 1961 |
|--|--------|--------|
| LIVE BIRTHS | | |
| Number | 15,845 | 17,558 |
| Percent on Oahu | 83.1 | 84.6 |
| Males per 100 females | 107.6 | 108.4 |
| Percent attended by physician | 99.7 | 99.6 |
| Percent with prenatal visit in first 3 months | 62.9 | 47.5 |
| Percent of mixed race ¹ | 41.7 | 36.9 |
| Median age of mother (years) | 24.9 | 26.0 |
| Percent first births | 38.4 | 22.3 |
| Median weight of single births (lb., oz.) ² | 7-2 | 7-0 |
| Percent to father with education of 12 years or more | 82.8 | (NA) |
| Percent of births plural | 1.5 | 1.7 |
| Percent premature | 8.4 | 9.1 |
| Percent with one or more congenital malformations | 1.1 | (NA) |
| Illegitimate births per 1,000 unmarried women 14-44 ³ | 21.9 | 18.7 |
| CIVILIAN DEATHS | | |
| Number | 4,304 | 3,367 |
| Percent on Oahu | 75.2 | 72.9 |
| Males per 100 females | 156.7 | 153.3 |
| Median age (years) | 66.0 | 63.4 |
| INFANT DEATHS | | |
| Number | 254 | 381 |
| Rate per 1,000 live births | 16.0 | 21.7 |
| Under 1 day | 7.7 | 9.9 |
| 1 to 6 days | 3.2 | 5.8 |
| 7 to 27 days | 1.3 | 1.1 |
| 28 days to 11 months | 3.8 | 4.9 |

NA Not available.

¹Includes Part Hawaiian. Based on births of known parentage.

²Includes plural births for 1961.

³Data refer to 1970 and 1960.

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1961 and 1971.

Table 28.—CHILDREN EVER BORN: 1890 TO 1970

| Age of women and year | All women | Women ever married | Mothers ¹ | Children ever born ¹ | | | |
|-------------------------|-----------|--------------------|----------------------|---------------------------------|-----------------|------------------------------|-------------------|
| | | | | Total | Per 1,000 women | Per 1,000 women ever married | Per 1,000 mothers |
| 15 and over: | | | | | | | |
| 1890 | 19,891 | 16,595 | 10,664 | 46,100 | 2,318 | 2,778 | 4,323 |
| 1896 | 22,021 | 17,969 | 12,391 | 54,039 | 2,454 | 3,007 | 4,361 |
| 1960 | 188,842 | 150,451 | 132,612 | 462,682 | 2,450 | 3,075 | 3,489 |
| 1970 | 256,725 | 196,245 | 168,005 | 549,335 | 2,140 | 2,799 | 3,270 |
| 15 to 24: | | | | | | | |
| 1960 | 44,813 | 16,240 | 12,014 | 22,537 | 503 | 1,388 | 1,876 |
| 1970 | 69,037 | 22,904 | 13,504 | 21,642 | 313 | 945 | 1,603 |
| 25 to 34: | | | | | | | |
| 1960 | 46,963 | 42,198 | 37,597 | 105,676 | 2,250 | 2,504 | 2,811 |
| 1970 | 53,438 | 46,859 | 39,799 | 106,654 | 1,996 | 2,276 | 2,680 |
| 35 to 44: | | | | | | | |
| 1960 | 42,590 | 40,165 | 36,584 | 120,853 | 2,838 | 3,009 | 3,303 |
| 1970 | 48,168 | 45,224 | 41,874 | 141,507 | 2,938 | 3,129 | 3,379 |
| 45 and over: | | | | | | | |
| 1950 ² | 37,620 | 36,045 | 31,260 | 164,370 | 4,566 | 4,775 | 5,258 |
| 1960 | 54,476 | 51,848 | 46,417 | 213,616 | 3,921 | 4,120 | 4,602 |
| 1970 | 86,082 | 81,258 | 72,828 | 279,532 | 3,247 | 3,440 | 3,838 |

¹Available only for census years and age groups reported in table. Omitted entirely from the 1900-1940 censuses and for women under 45 in 1950.

²Data on mothers and children ever born (including computed ratios) exclude 1,620 women ever married not reporting number of children.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 73, 78, and 126. U.S. Bureau of the Census, *U.S. Census of Population: 1950*, Bulletin P-C52, table 44; *U.S. Census of Population: 1960*, Final Report PC(1)-13D, table 113; *U.S. Census of Population: 1970*, Final Report PC(1)-D13, table 161.

Table 29.—FETAL AND MATERNAL DEATHS: 1915 TO 1972

(Place of occurrence basis)

| Year | Fetal deaths ¹ | | | Maternal deaths |
|-------------------------|---------------------------|--------------------------|--------------------------------|-----------------|
| | Total | Stillbirths ² | Induced abortions ³ | |
| 1915 | (NA) | 222 | (NA) | 49 |
| 1920 | (NA) | 370 | (NA) | 87 |
| 1925 | (NA) | 433 | (NA) | 76 |
| 1930 | (NA) | 326 | (NA) | 67 |
| 1935 | (NA) | 232 | (NA) | 37 |
| 1940 | (NA) | 190 | (NA) | 23 |
| 1945 | (NA) | 192 | (NA) | 20 |
| 1950 | (NA) | 175 | (NA) | 12 |
| 1955 | 1,004 | 266 | (NA) | 9 |
| 1960 | 1,026 | 261 | 3 | 5 |
| 1961 | 1,095 | 249 | 4 | 4 |
| 1962 | 1,223 | 234 | 9 | 5 |
| 1963 | 1,194 | 211 | 9 | 3 |
| 1964 | 1,200 | 223 | 13 | 2 |
| 1965 | 1,070 | 234 | 45 | 2 |
| 1966 | 899 | 172 | 15 | 3 |
| 1967 | 1,007 | 202 | 12 | 1 |
| 1968 | 1,114 | 209 | 11 | 3 |
| 1969 | 1,231 | 215 | 19 | 1 |
| 1970 ⁴ | 4,287 | 340 | 2,741 | 3 |
| 1971 | 5,739 | 372 | 4,135 | 3 |
| 1972 ⁵ | 6,227 | (NA) | 4,541 | (NA) |

NA Not available.

¹Not adjusted for underreporting, known to have been appreciable for induced abortions before 1970 and for all fetal deaths under 20 weeks gestation in all years.

²Fetal deaths of 20 or more weeks gestation.

³Includes all reported therapeutic, criminal, and other elective abortions.

⁴Most legal restrictions against induced abortions were removed as of March 11, 1970.

⁵Preliminary.

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1955-1971, and records.

Table 30.—CIVILIAN DEATHS, BY CAUSE: 1931 TO 1971

| Cause of death ¹ | Number, 1971 | Percent distribution | | | Rate per 100,000 population | | |
|---|-----------------|----------------------|-------|-------|-----------------------------|-------|-------|
| | | 1971 | 1961 | 1931 | 1971 | 1961 | 1931 |
| All causes | 4,304 | 100.0 | 100.0 | 100.0 | 583.5 | 549.6 | 994.4 |
| Diseases of the heart | 1,478 | 34.3 | 32.3 | 10.7 | 200.4 | 177.6 | 106.9 |
| Malignant neoplasms | 775 | 18.0 | 16.8 | 6.1 | 105.1 | 92.1 | 61.0 |
| Cerebrovascular diseases | 432 | 10.0 | 9.2 | 5.3 | 58.6 | 50.8 | 52.8 |
| All accidents | 279 | 6.5 | 5.9 | 6.9 | 37.8 | 32.5 | 68.2 |
| Influenza and pneumonia | 172 | 4.0 | 4.8 | 11.6 | 23.3 | 26.1 | 114.9 |
| Certain causes of mortality in early infancy | 133 | 3.1 | 7.5 | 6.8 | 18.0 | 41.5 | 67.7 |
| Diabetes mellitus | 125 | 2.9 | 3.0 | 1.3 | 16.9 | 16.3 | 12.5 |
| Suicides | 97 | 2.3 | 1.6 | 1.8 | 13.2 | 8.7 | 17.6 |
| Cirrhosis of liver | 90 | 2.1 | 1.3 | 1.3 | 12.2 | 7.2 | 12.5 |
| Congenital anomalie | 81 | 1.9 | 2.3 | 1.7 | 11.0 | 12.7 | 17.1 |
| Bronchitis, asthma, and emphysema | 70 | 1.6 | (NA) | (NA) | 9.5 | (NA) | (NA) |
| Aneurisms and other diseases of arteries | 43 | 1.0 | (NA) | (NA) | 5.8 | (NA) | (NA) |
| Other external causes | 40 | 0.9 | (NA) | (NA) | 5.4 | (NA) | (NA) |
| Homicide and legal intervention ... | 34 | 0.8 | 0.4 | 0.6 | 4.6 | 2.0 | 5.9 |
| Arteriosclerosis | 32 | 0.8 | 1.0 | 0.6 | 4.3 | 5.5 | 6.4 |
| All other causes | 423 | 9.8 | 13.9 | 45.3 | 57.4 | 76.7 | 450.9 |

NA Not available.

¹The fifteen leading causes of death in 1971 listed in order of deaths for that year.

Source: Hawaii State Department of Health, *Statistical Report, 1971*, p. 34.

Table 31.—EPIDEMIC MORTALITY: 1804 TO 1972

| Year | Disease | Deaths ¹ |
|------------------------------|---|---------------------|
| 1804 | “Okuu” (cholera?) | < 15,000 |
| 1818 | “Catarrhs and fevers” | 60 |
| 1825 | Unnamed | “Great” |
| 1826 | Influenza | “Thousands” |
| 1839 | Mumps | “Great numbers” |
| 1848-1849 | Measles, whooping cough, influenza | 10,000 |
| 1853 | Smallpox | 5,000-6,000 |
| 1857 | Influenza, dengue | “Many” |
| 1870-1871 | Scarlet fever | “Great” |
| 1878-1880 | Whooping cough | 68 |
| 1881 | Smallpox | 282 |
| 1888 | Whooping cough | 104 |
| 1889-1890 | Measles, dysentery | 26 |
| 1895 | Cholera | 64 |
| 1899-1900 | Bubonic plague | 61 |
| 1918-1920 | Influenza | 1,700 |
| 1928-1929 | Cerebrospinal meningitis | 68 |
| 1936-1937 ² | Measles | 205 |

¹Excludes deaths primarily resulting from famine; see Robert C. Schmitt, “Famine Mortality in Hawaii,” *The Journal of Pacific History*, Vol. 5 (1970), pp. 109-115.

²Most recent of record as of early 1973.

Source: Robert C. Schmitt, “The *Okuu*—Hawaii’s Greatest Epidemic,” *Hawaii Medical Journal*, Vol. 29, No. 5, May-June 1970, pp. 359-364.

**Table 32.—ACCIDENTS AND NATURAL DISASTERS CAUSING FIVE OR MORE DEATHS:
1779 TO 1972**

| Kind of disaster | Worst disaster | | All disasters | |
|--------------------------------------|----------------|--------|---------------|--------|
| | Year | Deaths | Number | Deaths |
| All categories | 1941 | 2,500 | 121 | 5,704 |
| Natural disasters | 1790 | 400 | 11 | 755 |
| Tsunami | 1946 | 159 | 5 | 287 |
| Flood, wind, or earth movement | 1868 | 31 | 5 | 68 |
| Volcano | 1790 | 400 | 1 | 400 |
| Fire or explosion | 1944 | 163 | 6 | 219 |
| Transportation | 1830 | 250 | 97 | 2,058 |
| Marine | 1830 | 250 | 51 | 1,501 |
| Air | 1955 | 66 | 39 | 517 |
| Railroad or motor vehicle | 1944, 1969 | 7 | 7 | 40 |
| Violence | 1941 | 2,500 | 7 | 2,672 |
| Pearl Harbor attack | 1941 | 2,500 | 1 | 2,500 |
| Assault, murder, or riot | 1790 | 100+ | 6 | 172 |

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *Hawaiian Journal of History*, Vol.III, 1969, pp. 66-86, as updated to December 31, 1972.

Table 33.—DEATHS, BY METHOD OF DISPOSITION: 1956, 1964, AND 1971

| Method of disposition | 1956 | 1964 | 1971 | Percent distribution | | | | | | | | | | |
|---------------------------|-------|-------|-------|----------------------|-------|-------|------|----|-------|-----|-----|---|-------|-----|
| | | | | 1956 | 1964 | 1971 | | | | | | | | |
| All deaths | 3,084 | 3,638 | 4,304 | 100.0 | 100.0 | 100.0 | | | | | | | | |
| Burial | 1,812 | 2,092 | 2,237 | 58.8 | 57.5 | 52.0 | | | | | | | | |
| Cremation | 1,117 | 1,274 | 1,614 | 36.2 | 35.0 | 37.5 | | | | | | | | |
| Removal | } 155 | { 254 | 415 | } 5.0 | { 7.0 | 9.6 | | | | | | | | |
| Entombment | | | | | | | { 18 | 31 | { 0.5 | 0.7 | | | | |
| Educational purpose | | | | | | | | | | | { — | 5 | { 0.0 | 0.1 |
| Other methods | | | | | | | | | | | | | | |

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1956 and 1964, and records.

Table 34.—AVERAGE REMAINING LIFETIME AT SPECIFIED AGES: 1884-1885 TO 1969-1971

| Sex and year | Birth | 1 | 15 | 25 | 45 | 65 |
|--------------------------------|-------|-------|-------|-------|-------|-------|
| Both sexes:¹ | | | | | | |
| 1884-1885 | 36.5 | 41.2 | 33.9 | 27.8 | 18.4 | 5.1 |
| Male: | | | | | | |
| 1919-1920 | 47.79 | — | — | — | — | — |
| 1929-1931 | 52.63 | 57.24 | 46.43 | 38.03 | 22.01 | 8.71 |
| 1939-1941 | 59.46 | 61.79 | 49.38 | 40.31 | 23.37 | 9.10 |
| 1949-1951 | 67.76 | 68.77 | 55.54 | 46.20 | 28.01 | 13.70 |
| 1959-1961 | 69.79 | 70.64 | 57.14 | 47.75 | 29.18 | 14.05 |
| 1969-1971 | 70.46 | 71.09 | 57.52 | 48.21 | 29.97 | 14.80 |
| Female: | | | | | | |
| 1919-1920 | 47.27 | — | — | — | — | — |
| 1929-1931 | 55.31 | 58.55 | 47.38 | 39.10 | 23.63 | 9.16 |
| 1939-1941 | 62.60 | 64.32 | 51.67 | 42.51 | 25.26 | 9.85 |
| 1949-1951 | 71.27 | 71.84 | 58.51 | 48.93 | 30.50 | 15.11 |
| 1959-1961 | 74.01 | 74.50 | 60.97 | 51.27 | 32.33 | 16.28 |
| 1969-1971 | 77.18 | 77.45 | 63.88 | 54.21 | 35.37 | 18.64 |

¹City of Honolulu only.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), p. 172; Hawaii State Department of Health, *Statistical Report, 1971*, p. 6.

Table 35.—ABORTIONS: MARCH 13, 1970 TO MARCH 12, 1971

(Covers the first year of experience following legalization of induced abortion by Act I, Session Laws of 1970, which became effective March 11, 1970)

| Subject | Number | Subject | Number |
|---|--------|--|--------|
| Number performed | 3,643 | Average age of woman (years) | 24.6 |
| Abortions per 1,000 live births | 221 | Currently married (percent) | 36.4 |
| Performed on Oahu (percent) | 94.1 | Hawaii resident under 1 year (percent) | 19.8 |
| Gestation 13 weeks or over (percent) | 13.0 | Protestant (percent) | 40.4 |
| By dilatation and curettage and/or suction (percent) | 89.3 | Roman Catholic (percent) | 29.0 |
| With complications (percent) | 4.6 | Income under \$6,000 (percent) | 32.8 |
| Deaths | 0 | First pregnancy (percent) | 50.8 |
| In hospital 13 hours or more (percent) | 45.5 | First abortion (percent) | 91.8 |
| Usual cost (dollars) | 350 | Mean age at first coitus (years) | 18 |

Source: Pregnancy, Birth Control, and Abortion Study, University of Hawaii, *Abortion in Hawaii: The First Year. Report to the Legislature* (January 24, 1972).

Table 36.—HOSPITAL FACILITIES AND USE: 1931 TO 1971

| Subject | Hospitals ¹ | | | | | Nursing and care homes: 1971 |
|------------------------------|------------------------|-----------|-----------|-----------|-----------|------------------------------|
| | 1931 | 1947 | 1960 | 1970 | 1971 | |
| Number of institutions | 36 | 41 | 34 | 31 | 31 | 157 |
| Oahu | 12 | 15 | 19 | 17 | 17 | 129 |
| Other islands | 24 | 26 | 15 | 14 | 14 | 28 |
| Total beds | 2,968 | 4,687 | 5,087 | 5,021 | 4,641 | 2,104 |
| Acceptable beds | — | — | 4,145 | 2,698 | 2,681 | — |
| Bassinets | 107 | 396 | 393 | 326 | 332 | — |
| Percent occupancy | 75 | 76 | 71 | 77 | 80 | 93 |
| Average census | 2,212 | 3,541 | 3,626 | 3,848 | 3,721 | 1,957 |
| Patient days | 807,380 | 1,292,465 | 1,323,823 | 1,405,019 | 1,356,789 | 646,399 |
| Admissions | 31,053 | 65,198 | 83,327 | 88,861 | 90,696 | 1,914 |
| Average stay (days) | 26.0 | 19.8 | 15.9 | 15.8 | 15.0 | 337.7 |

¹Excludes Waimano Home, Kalaupapa Settlement, and hospitals not registered with the American Medical Association, 1931 and 1947, and military hospitals in all years.

Source: Raymond G. Nebelung and Robert C. Schmitt, *Hawaii's Hospitals, Past, Present and Future* (1948), pp. 29-38, 48, and 64; *Statistical Report, Department of Health*, for 1960, 1970, and 1971.

Table 37.—BEDS IN HOSPITALS AND NURSING AND CARE HOMES, BY TYPE AND ISLAND: 1971

| Type of facility and bed | State total | Hawaii | Maui | Lanai | Molokai | Oahu | Kauai |
|------------------------------|-------------|--------|------|-------|---------|-------|-------|
| HOSPITALS¹ | | | | | | | |
| All beds | 4,641 | 502 | 303 | 12 | 296 | 3,259 | 269 |
| General or acute | 1,953 | 257 | 162 | 12 | 31 | 1,363 | 128 |
| Matern.-gyn. | 138 | — | — | — | — | 138 | — |
| Pediatric | 80 | — | — | — | — | 80 | — |
| Mental | 1,329 | 20 | 41 | — | — | 1,198 | 70 |
| Tuberculosis | 145 | 36 | 9 | — | — | 84 | 16 |
| Orthopedic | 40 | — | — | — | — | 40 | — |
| Leprosy | 372 | — | — | — | 265 | 107 | — |
| Long-term | 520 | 189 | 91 | — | — | 185 | 55 |
| Rehabilitation | 64 | — | — | — | — | 64 | — |
| HOMES | | | | | | | |
| All types | 2,104 | 36 | 139 | — | — | 1,870 | 59 |
| Nursing homes | 1,126 | — | 124 | — | — | 1,002 | — |
| Care homes | 978 | 36 | 15 | — | — | 868 | 59 |

¹Excludes Tripler General Hospital, a 900-bed armed services hospital on Oahu.

Source: Hawaii State Department of Health, *Statistical Report, 1971*, pp. 139-141.

Table 38.—AVERAGE LENGTH OF STAY AND COST PER PATIENT DAY AT THE QUEEN'S HOSPITAL: 1859 TO 1972

| Year ¹ | Average stay (days) | Cost per patient day (dollars) | Year | Average stay (days) | Cost per patient day (dollars) |
|-------------------|---------------------|--------------------------------|------------|---------------------|--------------------------------|
| 1859-1861 | 42 | 0.83 | 1950 | 7.3 | 21.16 |
| 1877-1879 | 59 | 0.61 | 1960 | 6.5 | 37.90 |
| 1903 | 33.7 | 1.78 | 1970 | 7.9 | 82.04 |
| 1920 | 13.0 | 4.20 | 1971 | 7.5 | 95.17 |
| 1940 | 8.3 | 6.20 | 1972 | 7.8 | 113.65 |

¹August 1, 1859-June 20, 1861; 24-month period ended in mid-1879; calendar years 1903-1940; years ended June 30, 1950 and thereafter.

Source: Robert C. Schmitt, "Medical Costs in Hawaii, 1859-1967," *Hawaii Medical Journal*, January-February 1968, pp. 236-239; The Queen's Medical Center, records.

Table 39.—SELECTED LONG-TERM CONDITIONS: 1870 TO 1972

| Year | Hawaii State Hospital ¹ | | | Waimano Training School & Hospital ² | | Kalaupapa Settlement ³ | | | Tuberculosis | | |
|------------|------------------------------------|-------|-----------------------------|---|-----------------------------|-----------------------------------|--------|---------------------------|------------------|--------|-----------------------------|
| | Admissions ⁴ | | Average census ⁵ | First admissions ⁶ | Average census ⁷ | Admissions | Deaths | Active cases, end of year | Active new cases | Deaths | On TB register, end of year |
| | Total | First | | | | | | | | | |
| 1870 | 21 | (NA) | 32 | — | — | 57 | 58 | 279 | (NA) | (NA) | — |
| 1880 | 24 | (NA) | 36 | — | — | 51 | 152 | 606 | (NA) | (NA) | — |
| 1890 | 33 | (NA) | 70 | — | — | 202 | 158 | 1,213 | (NA) | (NA) | — |
| 1900 | 57 | (NA) | 155 | — | — | 101 | 85 | 1,023 | (NA) | 249 | — |
| 1910 | 94 | (NA) | 225 | — | — | 47 | 90 | 621 | (NA) | 330 | — |
| 1920 | 108 | (NA) | 368 | — | — | 1 | 53 | 546 | 1,056 | 531 | 944 |
| 1930 | 236 | 208 | 560 | 18 | 190 | 98 | 36 | 510 | 1,060 | 379 | 2,325 |
| 1940 | 289 | 218 | 901 | 34 | 364 | (NA) | (NA) | 350 | 717 | 257 | 1,474 |
| 1950 | 509 | 426 | 1,088 | 16 | 665 | (NA) | (NA) | 180 | 339 | 114 | 1,106 |
| 1960 | 389 | 257 | 1,173 | 46 | 833 | 9 | 2 | 80 | 293 | 13 | 701 |
| 1970 | 1,052 | 714 | 577 | 82 | 747 | 5 | 2 | 30 | 270 | 13 | 312 |
| 1971 | 1,015 | 691 | 568 | 49 | 749 | 8 | — | 29 | 328 | 13 | 315 |
| 1972 | 726 | 480 | 371 | 36 | 723 | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |

NA Not available.

¹This is the only major mental hospital in Hawaii. It was opened, as Oahu Insane Asylum, at School and Lanakila Streets, Honolulu, in September 1866. It was renamed Territorial Hospital in 1925 and State Hospital in 1959. Most of the patients were moved to the new site near Kaneohe in January 1930.

²This is the only institution for mental deficiency in Hawaii. It was opened, as the Home for Feeble-Minded Persons, in March 1921. It was renamed Waimano Home in 1923 and Waimano Training School and Hospital in 1961.

³This was for many years the major facility for leprosy patients in Hawaii. It received its first patients in January 1866. Other patients were cared for at Kalihi Hospital (November 1865 to October 1949) and Hale Mohalu (October 1949 to the present). The latter institution had 23 active patients as of December 31, 1971.

⁴Excludes returns from conditional discharge or escape. Data for 1870-1890 are annual averages for four-year periods centered on April 1.

⁵Data for 1870-1900 and 1920 are end-of-year totals (March 31, 1870 to 1890, December 31, 1900, and June 30, 1920).

⁶Excludes returns from community placement.

⁷Data for 1960 and 1972 are end-of-year totals (December 31, 1960; June 30, 1972).

Source: *Annual Report of the Board of Health, 1868-1950*; *Statistical Report, Department of Health, 1959-1971*; *Report of the Governor of Hawaii to the Secretary of the Interior, 1930 and 1940*; *Annual Report of the Department of Institutions, 1940-1950*; Raymond G. Nebelung and Robert C. Schmitt, *Hawaii's Hospitals, Past, Present and Future* (1948); Hawaii State Department of Health, records; Hawaii State Hospital, records; Waimano Training School and Hospital, records.

✓ **Table 40.—STATISTICS FROM THE HAWAII HEALTH SURVEILLANCE PROGRAM SURVEY, FOR OAHU: 1964-1967**

| Subject | Number ¹ |
|--|---------------------|
| Average non-institutional, non-barracks population | 565,000 |
| Hospital discharges, annual average | 66,500 |
| Median length of stay per discharged person (days) | 5.0 |
| Acute conditions, annual average | 1,040,700 |
| Per 100 population | 182.6 |
| Persons with one or more chronic conditions, average | 205,100 |
| Percent of population | 36.3 |
| Restricted activity days, annual average per person | 12.0 |
| Bed days, annual average per person | 4.8 |
| Injuries, annual average per person ² | 28.1 |
| Home accidents, annual average per person ² | 8.3 |

¹Based on sample of non-institutional non-barracks population surveyed April 1964-March 1967, unless otherwise specified.

²Surveyed April 1964-September 1965.

Source: Hawaii State Department of Health, unpublished tabulations.

Table 41.—PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY ISLAND: MARCH 28, 1973

| Professional group | Permanently licensed, Hawaii residents | | | | | | | Perma- nently licensed, non- residents | Limited and tem- porary licenses |
|-------------------------|--|--------|------|-------|---------|-------|-------|--|---|
| | State total | Hawaii | Maui | Lanai | Molokai | Oahu | Kauai | | |
| Physicians (M.D.) | 1,142 | 64 | 44 | 2 | 5 | 993 | 34 | 569 | 190 |
| Dentists | 497 | 33 | 18 | 1 | 1 | 428 | 16 | 165 | — |
| Registered nurses | 3,405 | 230 | 173 | 7 | 21 | 2,868 | 106 | 616 | — |
| Pharmacists | 250 | 14 | 15 | — | 2 | 211 | 8 | 71 | — |

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, records.

Table 42.—MARRIAGES AND DIVORCES: 1845 TO 1972
(Place of occurrence basis. Data are for calendar years unless otherwise specified.)

| Year | Marriages | Divorces and annul- ments | Rate per 1,000 pop. ¹ | | Percent of marriages | |
|----------------------------|-----------|---------------------------------|----------------------------------|----------|----------------------|------------------|
| | | | Marriages | Divorces | Resident grooms | Inter- racial |
| 1845 | 1,831 | (NA) | 18.9 | (NA) | (NA) | (NA) |
| 1850 | (NA) | 7 | (NA) | 0.1 | (NA) | (NA) |
| 1855 | 933 | 78 | 12.8 | 1.1 | (NA) | (NA) |
| 1860 ² | 1,075 | 86 | 15.3 | 1.2 | (NA) | (NA) |
| 1864-65 ³ | (NA) | 26 | (NA) | 0.4 | (NA) | (NA) |
| 1870-71 ³ | (NA) | 38 | (NA) | 0.7 | (NA) | (NA) |
| 1874-75 ³ | (NA) | 4 | (NA) | 0.1 | (NA) | (NA) |
| 1880-81 ³ | (NA) | 79 | (NA) | 1.2 | (NA) | (NA) |
| 1884-85 ³ | (NA) | 54 | (NA) | 0.7 | (NA) | (NA) |
| 1890-91 ³ | (NA) | 48 | (NA) | 0.5 | (NA) | (NA) |
| 1895 | (NA) | 68 | (NA) | 0.7 | (NA) | (NA) |
| 1900 | (NA) | 48 | (NA) | 0.3 | (NA) | (NA) |
| 1905 ⁴ | 1,180 | 109 | 7.0 | 0.7 | (NA) | (NA) |
| 1910 ⁴ | 1,959 | 197 | 10.4 | 1.0 | (NA) | (NA) |
| 1915 ⁵ | 2,705 | 389 | 12.2 | 1.8 | (NA) | 11.5 |
| 1920 ⁵ | 2,127 | 570 | 8.4 | 2.2 | (NA) | 18.0 |
| 1925 ⁵ | 2,736 | 627 | 8.8 | 2.0 | (NA) | 21.9 |
| 1930 ⁵ | 2,443 | 529 | 6.9 | 1.5 | (NA) | 21.6 |
| 1935 ⁶ | 2,985 | 690 | 8.0 | 1.9 | (NA) | 20.0 |
| 1940 ⁶ | 5,355 | 946 | 13.5 | 2.4 | (NA) | 25.0 |
| 1945 ⁶ | 4,978 | 1,530 | 10.8 | 3.3 | (NA) | 32.2 |
| 1950 | 5,575 | 1,173 | 11.7 | 2.5 | (NA) | 29.7 |
| 1955 | 5,431 | 1,343 | 11.3 | 2.8 | (NA) | 31.3 |
| 1960 | 5,237 | 1,270 | 9.0 | 2.2 | 96.3 | 37.3 |
| 1961 | 5,298 | 1,556 | 8.9 | 2.6 | 96.3 | 36.1 |
| 1962 | 5,484 | 1,471 | 9.1 | 2.4 | 96.5 | 37.7 |
| 1963 | 5,750 | 1,515 | 9.2 | 2.4 | 95.9 | 38.6 |
| 1964 | 5,790 | 1,690 | 9.2 | 2.7 | 94.7 | 38.3 |
| 1965 ⁷ | 6,071 | 1,111 | 9.3 | 1.7 | 93.9 | 38.1 |
| 1966 ⁷ | 5,792 | 897 | 8.8 | 1.4 | 92.5 | 37.7 |
| 1967 ⁷ | 7,345 | 1,451 | 11.0 | 2.2 | 80.4 | 33.5 |
| 1968 ⁷ | 9,021 | 1,865 | 13.3 | 2.8 | 70.1 | 33.8 |
| 1969 ⁷ | 9,891 | 2,314 | 14.1 | 3.3 | 67.8 | 33.7 |
| 1970 ⁷ | 10,599 | 2,589 | 14.7 | 3.6 | 69.3 | 33.7 |
| 1971 ⁷ | 9,734 | 3,690 | 13.2 | 5.0 | 77.3 | 38.7 |
| 1972 ⁸ | 9,732 | 3,895 | 12.8 | 5.1 | (NA) | (NA) |

NA Not Available.

¹Based on resident civilian population.

²Divorce data are annual averages for 24-month period ended March 31, 1862.

³Annual averages for two-year period.

⁴Marriage data refer to year ended June 30.

⁵Interracial marriage percentage refers to four-year period ended June 30, 1916 (for 1915), 1924 (for 1920), 1928 (for 1925), and 1934 (for 1930).

⁶Interracial marriage percentage refers to year ended June 30.

⁷Divorce data are for final decrees only. An interlocutory decree of one year was established as of May 8, 1965; it was reduced to six months as of June 3, 1969 and abolished July 1, 1971.

⁸Preliminary.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 210-212; Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1966-1971, and records.

Table 43.—MARRIAGES, TOTAL AND INTERRACIAL, BY USUAL OCCUPATION OF GROOM: BIENNIAL PERIODS ENDED DECEMBER 31, 1957 AND 1968

| Usual occupation | All marriages | | Interracial marriages | | Percent interracial | |
|---|---------------|---------|-----------------------|---------|---------------------|---------|
| | 1956-57 | 1967-68 | 1956-57 | 1967-68 | 1956-57 | 1967-68 |
| All grooms | 10,055 | 16,368 | 3,499 | 5,404 | 34.8 | 33.0 |
| No occupation | 537 | 1,312 | 170 | 519 | 31.7 | 39.6 |
| Civilian occupation | 6,429 | 9,269 | 2,120 | 3,758 | 33.0 | 40.5 |
| Professional, technical, and kindred workers | 722 | 1,740 | 159 | 501 | 22.0 | 28.8 |
| Managers, officials, proprietors, including farmers | 562 | 974 | 165 | 300 | 29.4 | 30.8 |
| Clerical and kindred workers | 567 | 649 | 144 | 275 | 25.4 | 42.4 |
| Sales workers | 325 | 543 | 93 | 188 | 28.6 | 34.6 |
| Craftsmen, foremen, and kindred workers | 1,478 | 1,834 | 440 | 752 | 29.8 | 41.0 |
| Operatives and kindred workers | 1,388 | 1,663 | 546 | 810 | 39.3 | 48.7 |
| Private household and service workers | 422 | 813 | 183 | 409 | 43.4 | 50.3 |
| Farm laborers and foremen | 283 | 165 | 123 | 72 | 43.5 | 43.6 |
| Laborers, except farm and mine | 682 | 888 | 267 | 451 | 39.1 | 50.8 |
| Armed forces | 3,081 | 5,748 | 1,205 | 1,118 | 39.1 | 19.5 |
| Not stated | 8 | 39 | 4 | 9 | — | — |

Source: Robert C. Schmitt, "Recent Trends in Hawaiian Interracial Marriage Rates by Occupation," *Journal of Marriage and the Family*, Vol. 33, No. 2, May 1971, pp. 373-374.