

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases and accidents, nutrition, substance abuse, height and weight, hospitals, dental care, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1980 was 74.8 years for males and 81.2 years for females. The crude death rate in 1981 was only 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.5 in 1981. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. The 1981 crude birth rate was 18.6 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,903 in 1980. Over 98 percent of all babies were born in hospitals in 1980, and almost one-fifth were born to military couples. One out of six births was illegitimate. There were 8,178 fetal deaths in 1980, including 6,462 elective abortions. Marriages numbered 12,218 in 1981, with about 23 percent accounted for by nonresidents. Divorces reached a 1981 total of 4,254. The State had 22 acute care civilian hospitals (with 2,316 beds), 57 skilled nursing and intermediate care facilities (with 4,532 beds), 24 special treatment facilities (with 609 beds) and 296 care homes (with 1,532 beds) in 1980. There were 1,707 physicians and surgeons, 686 dentists, 5,925 professional nurses, and 387 pharmacists licensed and living in Hawaii as of March 1982. Acute conditions per 100 persons numbered 169 in 1980, with respiratory conditions the most common complaint (at 114 cases per 100 persons). Among chronic conditions reported in the 1980 survey data, the most frequently mentioned were hypertension without heart involvement (7.6 per 100 persons), hay fever (5.4), and asthma (3.0). The most common communicable disease reported to authorities in 1980 was scarlet fever, with 5,102 cases. State mental health facilities served 10,625 patients in 1980, but the number of in-patients at the end of the year was only 440. Dental health was only fair: according to a 1979 survey, 275,000 had not visited a dentist within the previous year, and 176,000 persons reported one or more dental problems, chiefly cavities. Among persons 12 years old and over in 1979, 55 percent had used alcohol in the preceding month, 33 percent had smoked cigarettes, 14 percent had used marijuana, and 5 percent had used cocaine. 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.

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. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1981 contain similar data for the nation as a whole.

Table 32.-- BIRTHS AND DEATHS: 1970 TO 1981

[Place of occurrence basis.]

| Calendar year | Births | Deaths <u>1/</u> | Rates per 1,000 resident population <u>2/</u> | | Rates per 1,000 live births | | |
|---------------|--------|------------------|-----------------------------------------------|------------------|-----------------------------|------------------------|-------------------------|
| | | | Births | Deaths <u>1/</u> | Illegitimate births | Fetal deaths <u>3/</u> | Infant deaths <u>4/</u> |
| 1970 ... | 16,467 | 4,197 | 21.2 | 5.4 | 95.8 | 20.6 | 19.1 |
| 1971 ... | 15,845 | 4,351 | 19.8 | 5.4 | 88.4 | 23.5 | 16.0 |
| 1972 ... | 15,413 | 4,483 | 18.6 | 5.4 | 93.0 | 22.8 | 17.5 |
| 1973 ... | 15,358 | 4,579 | 18.0 | 5.4 | 104.0 | 16.4 | 13.7 |
| 1974 ... | 15,528 | 4,598 | 17.9 | 5.3 | 108.8 | 16.3 | 16.0 |
| 1975 ... | 15,766 | 4,572 | 17.8 | 5.2 | 123.2 | 18.9 | 13.7 |
| 1976 ... | 16,409 | 4,717 | 18.2 | 5.2 | 125.0 | 20.8 | 11.2 |
| 1977 ... | 16,983 | 4,725 | 18.5 | 5.2 | 143.3 | 21.6 | 12.3 |
| 1978 ... | 16,762 | 4,860 | 18.0 | 5.2 | 160.1 | 13.5 | 12.0 |
| 1979 ... | 17,568 | 5,138 | 18.5 | 5.4 | 163.5 | 13.1 | 10.9 |
| 1980 ... | 18,216 | 5,204 | 18.8 | 5.4 | 175.6 | 15.3 | 10.8 |
| 1981 ... | 18,230 | 5,269 | 18.6 | 5.4 | 181.8 | 13.1 | 10.5 |

1/ Includes armed forces.

2/ Based on intercensal estimates in the Hawaii State Department of Planning and Economic Development, "Preliminary Intercensal Population Estimates, 1970-1980" (Statistical Report 147, July 9, 1981), table 1, and postcensal estimates in U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 911, April 1982.

3/ 20 weeks gestation and over. Includes elective abortions.

4/ Under 1 year of age.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Statistical Report for 1973-1981; and records.

Table 33.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:
1970 TO 1981

[Place of occurrence basis.]

| Subject | All groups | Armed forces | Civilians | | | Armed forces and dependents |
|------------------------------|------------|--------------|---------------|---------------------|-----------------|-----------------------------|
| | | | All civilians | Military dependents | Other civilians | |
| Live births: | | | | | | |
| 1970 | 16,467 | - | 16,467 | 3,828 | 12,639 | 3,828 |
| 1971 | 15,845 | - | 15,845 | 3,668 | 12,177 | 3,668 |
| 1972 | 15,413 | - | 15,413 | 3,543 | 11,870 | 3,543 |
| 1973 | 15,358 | - | 15,358 | 3,739 | 11,619 | 3,739 |
| 1974 | 15,528 | - | 15,528 | 3,774 | 11,754 | 3,774 |
| 1975 | 15,766 | - | 15,766 | 3,821 | 11,945 | 3,821 |
| 1976 | 16,409 | - | 16,409 | 3,803 | 12,606 | 3,803 |
| 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 |
| Deaths: | | | | | | |
| 1970 | 4,197 | 72 | 4,125 | 139 | 3,986 | 211 |
| 1971 | 4,351 | 47 | 4,304 | 150 | 4,154 | 197 |
| 1972 | 4,483 | 50 | 4,433 | 160 | 4,273 | 210 |
| 1973 | 4,579 | 70 | 4,509 | 169 | 4,340 | 239 |
| 1974 | 4,598 | 49 | 4,549 | 165 | 4,384 | 214 |
| 1975 | 4,572 | 83 | 4,489 | 153 | 4,336 | 236 |
| 1976 | 4,717 | 67 | 4,650 | 161 | 4,489 | 228 |
| 1977 | 4,724 | 76 | 4,648 | 157 | 4,491 | 233 |
| 1978 | 4,852 | 80 | 4,772 | 147 | 4,625 | 227 |
| 1979 | 5,137 | 85 | 5,052 | 155 | 4,897 | 240 |
| 1980 | 5,204 | 69 | 5,135 | 154 | 4,981 | 223 |
| 1981 | 5,269 | 73 | 5,196 | 154 | 5,042 | 227 |
| Birth rate: <u>1</u>/ | | | | | | |
| 1970 | 20.5 | 0 | 22.0 | 66.2 | 18.3 | 34.5 |
| 1971 | 19.0 | 0 | 20.3 | 59.0 | 16.9 | 32.5 |
| 1972 | 17.7 | 0 | 18.9 | 53.5 | 15.8 | 30.0 |
| 1973 | 17.1 | 0 | 18.2 | 53.2 | 15.0 | 29.1 |
| 1974 | 16.8 | 0 | 17.9 | 55.3 | 14.7 | 30.0 |
| 1975 | 16.7 | 0 | 17.9 | 60.0 | 14.6 | 31.1 |

Continued on next page.

Table 33.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:
1970 TO 1981 - Con.

[Place of occurrence basis.]

| Subject | All groups | Armed forces | Civilians | | | Armed forces and dependents |
|----------------|------------|--------------|---------------|---------------------|-----------------|-----------------------------|
| | | | All civilians | Military dependents | Other civilians | |
| Birth rate | | | | | | |
| -- Con.: 1/ | | | | | | |
| 1976 | 16.9 | 0 | 18.0 | 56.8 | 14.9 | 30.5 |
| 1977 | 17.2 | 0 | 18.2 | 58.0 | 15.2 | 31.0 |
| 1978 | 16.6 | 0 | 17.6 | 59.8 | 14.7 | 30.6 |
| 1979 | 16.9 | 0 | 17.9 | 58.9 | 15.0 | 31.0 |
| 1980 | 17.3 | 0 | 18.3 | 58.5 | 15.5 | 30.7 |
| 1981 | 17.1 | 0 | 18.1 | 54.5 | 15.6 | 29.0 |
| Death rate: 1/ | | | | | | |
| 1970 | 5.2 | 1.4 | 5.5 | 2.4 | 5.8 | 1.9 |
| 1971 | 5.2 | 0.9 | 5.5 | 2.4 | 5.8 | 1.7 |
| 1972 | 5.2 | 1.0 | 5.4 | 2.4 | 5.7 | 1.8 |
| 1973 | 5.1 | 1.2 | 5.4 | 2.4 | 5.6 | 1.9 |
| 1974 | 5.0 | 0.9 | 5.3 | 2.4 | 5.5 | 1.7 |
| 1975 | 4.9 | 1.4 | 5.1 | 2.4 | 5.3 | 1.9 |
| 1976 | 4.9 | 1.2 | 5.1 | 2.4 | 5.3 | 1.8 |
| 1977 | 4.8 | 1.3 | 5.0 | 2.4 | 5.2 | 1.9 |
| 1978 | 4.8 | 1.4 | 5.0 | 2.4 | 5.2 | 1.9 |
| 1979 | 4.9 | 1.5 | 5.1 | 2.4 | 5.3 | 2.0 |
| 1980 | 4.9 | 1.2 | 5.1 | 2.4 | 5.3 | 1.8 |
| 1981 | 4.9 | 1.3 | 5.2 | 2.4 | 5.3 | 1.9 |

1/ Per 1,000 de facto population, from present report, tables 2 and 3.

Source: Hawaii State Department of Planning and Economic Development, Fluctuations in Island Birth Rates and Some of Their Consequences (Hawaii Economic Research Reports, 1980), table 5; Hawaii State Department of Health, Statistical Report (annual), and records. Deaths of military dependents based on an assumed rate of 2.41, as calculated from 1970 data on the age composition of military dependents and age-specific death rates for the total civilian population.

Table 34.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

| Type of rate and military status <u>1/</u> | 1960 | 1970 | 1980 |
|---------------------------------------------------|---------|---------|---------|
| Crude birth rate, all groups <u>2/</u> | 27.2 | 21.4 | 18.8 |
| Civilian | 22.9 | 19.1 | 16.6 |
| Military | 48.8 | 35.1 | 33.7 |
| General fertility rate, all groups <u>3/</u> | 127.8 | 96.1 | 78.8 |
| Civilian | 106.2 | 84.8 | 68.5 |
| Military | 250.5 | 169.5 | 157.2 |
| Total fertility rate, all groups <u>4/</u> | 3,886.5 | 2,728.5 | 2,090.5 |
| Civilian | 3,360.5 | 2,461.5 | 1,903.5 |
| Military | 6,480.5 | 4,275.0 | 3,789.5 |
| Gross reproduction rate, all groups <u>5/</u> ... | 1,884.0 | 1,318.0 | 1,009.0 |
| Civilian | 1,628.0 | 1,189.5 | 919.0 |
| Military | 3,140.0 | 2,065.5 | 1,830.0 |

| Military status and year <u>1/</u> | Age-specific fertility rates <u>2/</u> | | | | | |
|---------------------------------------|----------------------------------------|-------|-------|-------|-------|-------|
| | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40-44 |
| All groups: | | | | | | |
| 1960 | 75.4 | 284.3 | 221.0 | 125.1 | 54.8 | 15.8 |
| 1970 | 62.5 | 173.8 | 169.8 | 91.7 | 38.5 | 8.8 |
| 1980 | 51.1 | 125.6 | 122.3 | 82.9 | 30.4 | 5.5 |
| Civilian: | | | | | | |
| 1960 | 55.8 | 229.1 | 204.3 | 116.1 | 52.0 | 14.8 |
| 1970 | 56.3 | 151.9 | 158.0 | 81.3 | 36.6 | 8.2 |
| 1980 | 37.7 | 100.9 | 121.7 | 83.3 | 31.7 | 5.1 |
| Military: | | | | | | |
| 1960 | 257.9 | 464.7 | 297.6 | 164.6 | 74.1 | 37.2 |
| 1970 | 135.1 | 281.6 | 227.2 | 135.3 | 49.0 | 26.8 |
| 1980 | 184.3 | 279.3 | 172.0 | 87.3 | 28.4 | 6.6 |

Footnotes and source on next page.

Table 34.-- FERTILITY RATES, BY MILITARY STATUS:
1960, 1970, AND 1980 -- Con.

- 1/ Military dependents are included in the military category.
2/ The annual number of live births per 1,000 resident population in the group.
3/ The annual number of live births per 1,000 women of childbearing age.
4/ The 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. Equals the sum of single year age-specific birth rates.
5/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years. Equals the sum of single year female age-specific birth rates.

Source: Calculations by Eleanor C. Nordyke, Community Population Specialist, East-West Population Institute, based on vital statistics from the Hawaii State Department of Health and decennial census data from the U.S. Bureau of the Census.

Table 35.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1970, 1979, AND 1980

[Excludes births to Hawaii residents occurring out of state.]

| Subject | 1970 | 1979 | 1980 |
|-------------------------------------------------------------------|--------|--------|--------|
| Number of resident births | 16,361 | 17,513 | 18,129 |
| Rate per 1,000 population | 21.3 | 19.1 | 18.6 |
| Percent on Oahu | 83.0 | 78.2 | 77.7 |
| Percent attended by M.D. in hospital <u>1/</u> | 99.5 | 98.3 | 98.5 |
| Males per 100 females | 106.8 | 106.2 | 106.9 |
| Percent of mixed race <u>1/</u> , <u>2/</u> | 41.7 | 47.7 | 47.8 |
| Median weight of single births (grams) <u>1/</u> | 3,232 | 3,282 | 3,280 |
| Percent premature (under 2,500 grams) <u>1/</u> | 7.7 | 7.2 | 6.4 |
| Percent single births under 40 weeks gestation . | (NA) | 48.0 | 50.7 |
| Percent plural <u>1/</u> | 1.5 | 1.6 | 1.6 |
| Percent with 1 or more congenital malformations <u>1/</u> | 1.3 | 1.0 | 1.0 |
| Percent illegitimate | 9.5 | 16.4 | 17.6 |
| Percent with prenatal visit in first three months <u>1/</u> | 67.2 | 74.6 | 76.5 |
| Percent first child born to mother <u>1/</u> | 38.2 | 33.5 | 32.8 |
| Percent first child born alive to mother | (NA) | 42.3 | 42.8 |
| Median age of mothers (years) <u>1/</u> | 25.0 | 25.9 | 26.0 |
| Median age of known fathers (years) | 28.1 | 28.7 | 28.8 |

NA Not available.

1/ Data for 1970 are on a place of occurrence basis.

2/ All Part Hawaiian babies are classified as mixed. Base excludes births with unknown parentage.

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

Table 36.-- MOST COMMON NAMES ON BIRTH CERTIFICATES: 1909-1914,
1950, AND 1981

| Sex and rank | 1981 ^{1/} | | 1950 | 1909-1914 |
|----------------------|--------------------|--------|----------------|-----------------|
| | Name | Number | | |
| Boys' names: | | | | |
| 1 | Michael | 223 | John | John |
| 2 | Christopher | 199 | Michael | William |
| 3 | Jason | 197 | Robert | George |
| 4 | David | 171 | William | Antonio |
| 5 | Jonathan | 155 | Dennis | Joseph |
| Girls' names: | | | | |
| 1 | Jennifer | 241 | Linda | Maria |
| 2 | Jessica | 117 | Kathleen | Mary |
| 3 | Nicole | 108 | Sharon | Amelia |
| 4 | Melissa | 94 | Carol | Helen |
| 5 | Kimberly | 88 | Charlene | Elizabeth |

^{1/} A total of 5,301 first names (including variant spellings) was reported for the 17,068 babies born in Hawaii in 1981. There were 2,106 boys' names and 3,195 girls' names.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1981 records; Bob Krauss, "Today's lesson: the name game," Honolulu Advertiser, September 14, 1979, p. A-3.

Table 37.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE
 DIRECTORY: 1969 AND 1982

| Rank | 1982 | | 1969: name |
|----------|----------------|-------------------|--------------------|
| | Name | Column- inches | |
| 1 | Lee | 207 | Lee |
| 2 | Wong | 168 | Wong |
| 3 | Young | 115 | Chun |
| 4 | Chang | 107 | Young |
| 5 | Chun | 102 | Chang |
| 6 | Smith | 97 | Ching |
| 7 | Kim | 94 | Nakamura |
| 8 | Ching | 84 | Smith |
| 9 | Nakamura | 81 | Lum |
| 10 | Lum | 81 | Yamamoto; Johnson. |

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1969, p. A-11, and Sunday Star-Bulletin and Advertiser January 24, 1982, p. A-6.

Table 38.-- CHARACTERISTICS OF RESIDENT DEATHS: 1970, 1979, AND 1980

[Excludes deaths of Hawaii residents occurring out of state.]

| Subject | 1970 | 1979 | 1980 |
|----------------------------------------------------------------|-------|-------|-------|
| Number of resident deaths <u>1/</u> | 3,942 | 4,791 | 4,903 |
| Rate per 1,000 population <u>1/</u> | 5.5 | 5.2 | 5.0 |
| Percent on Oahu <u>1/</u> | 73.2 | 74.5 | 75.0 |
| Males per 100 females <u>1/</u> | 163.3 | 148.0 | 154.4 |
| Median age (years) <u>1/</u> , <u>2/</u> | 65.3 | 68.7 | 69.2 |
| Number of deaths under 1 year <u>2/</u> | 315 | 179 | 183 |
| Per 1,000 live births <u>2/</u> | 19.1 | 10.2 | 10.1 |
| Fetal deaths <u>3/</u> | 4,221 | 7,700 | 8,178 |
| Per 1,000 deliveries <u>3/</u> | 205 | 305 | 311 |
| Fetal deaths, 20 or more weeks gestation <u>2/</u> , <u>3/</u> | 340 | 230 | 186 |
| Per 1,000 live births <u>2/</u> , <u>3/</u> | 20.6 | 13.1 | 10.3 |
| Standard fetal deaths <u>4/</u> | 1,458 | 1,683 | 1,716 |
| Elective abortions | 2,763 | 6,017 | 6,462 |
| Per 1,000 live births | 169 | 344 | 356 |

1/ Data for 1970 exclude armed forces.

2/ Data for 1970 are on a place of occurrence basis.

3/ Includes elective abortions.

4/ Excludes elective abortions.

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

Table 39.-- CAUSE OF DEATH: 1960, 1970, AND 1980

[Place of residence basis. Data for 1960 and 1970 exclude armed forces.]

| Cause of death <u>1/</u> | Number, 1980 | Percent distribution | | | Rate per 100,000 population | | |
|-------------------------------------------|-----------------|----------------------|-------|-------|--------------------------------|-------|-------|
| | | 1980 | 1970 | 1960 | 1980 | 1970 | 1960 |
| All causes | 4,903 | 100.0 | 100.0 | 100.0 | 504.1 | 546.9 | 568.3 |
| Diseases of the heart .. | 1,544 | 31.5 | 32.9 | 33.0 | 158.7 | 180.0 | 187.7 |
| Malignant neoplasms | 1,411 | 23.3 | 18.1 | 17.2 | 117.3 | 99.2 | 97.7 |
| Cerebrovascular diseases | 376 | 7.7 | 9.5 | 10.4 | 38.7 | 52.1 | 59.1 |
| All accidents | 326 | 6.6 | 7.1 | 7.5 | 33.5 | 38.1 | 43.5 |
| Influenza and pneumonia | 178 | 3.6 | 4.1 | 3.6 | 18.3 | 22.5 | 20.5 |
| Diabetes mellitus | 128 | 2.6 | 2.3 | 2.6 | 13.2 | 12.7 | 14.9 |
| Suicide | 111 | 2.3 | 2.0 | 1.3 | 11.4 | 11.0 | 7.4 |
| Perinatal conditions ... | 94 | 1.9 | 4.9 | 7.5 | 9.7 | 26.6 | 42.7 |
| Cirrhosis of liver | 83 | 1.7 | 1.8 | 1.3 | 8.5 | 9.6 | 7.1 |
| Homicide and legal intervention | 71 | 1.4 | 0.8 | 0.6 | 7.3 | 4.3 | 3.2 |
| Congenital anomalies ... | 67 | 1.4 | 1.8 | 2.2 | 6.9 | 9.6 | 12.5 |
| Bronchitis, emphysema and asthma | 47 | 1.0 | 1.6 | 1.3 | 4.8 | 8.6 | 7.1 |
| All other causes | 737 | 15.0 | 13.1 | 11.4 | 75.8 | 72.0 | 64.9 |

1/ The leading causes of death in 1980, listed according to rank.

Source: Hawaii State Department of Health, Statistical Report, 1980,
p. 23.

Table 40.-- CATASTROPHIC MORTALITY: 1977 TO 1982

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents, such as the Chicago airplane crash which killed 273 persons, including 10 residents of Hawaii, on May 25, 1979.]

| Date | Place | Kind of disaster | Deaths |
|-----------------------|--------------------------|-----------------------|--------|
| 1977: April 13 1/ ... | At sea off Waikiki | Airplane crash | 5 |
| 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 | 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 | 3-car auto crash | 5 |

1/ For earlier events, see Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. 3, 1969, pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976," unpublished paper filed in DPED Library, 1976.

Source: DPED file of newspaper accounts.

Table 41.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1970, 1979, AND 1980

| Method | 1970 | 1979 | 1980 | Percent distribution | | |
|-----------------------|-------|-------|-------|----------------------|-------|-------|
| | | | | 1970 | 1979 | 1980 |
| All methods | 4,197 | 5,138 | 5,204 | 100.0 | 100.0 | 100.0 |
| Burial | 2,197 | 2,322 | 2,343 | 52.3 | 45.2 | 45.0 |
| Cremation | 1,509 | 2,180 | 2,241 | 36.0 | 42.4 | 43.1 |
| Removal | 470 | 582 | 567 | 11.2 | 11.3 | 10.9 |
| Entombment | 13 | 38 | 44 | 0.3 | 0.7 | 0.8 |
| Educational purpose . | 3 | - | - | 0.1 | 0 | 0 |
| Other | - | 5 | 1 | 0 | 0.1 | 0.0 |
| Unknown | 5 | 11 | 8 | 0.1 | 0.2 | 0.2 |

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

Table 42.-- SELECTED LIFE TABLE VALUES: 1979-1981

| Exact age in years (x) | Average expectation of life in years (e_x) | | Number surviving to specified age per 1,000 born alive (l_x) | |
|---------------------------|------------------------------------------------------|--------|---------------------------------------------------------------------------|--------|
| | Male | Female | Male | Female |
| Birth $\frac{1}{}$ | 74.80 | 81.22 | 1,000 | 1,000 |
| Age 25 | 51.74 | 57.46 | 971 | 984 |
| Age 45 | 33.14 | 38.28 | 938 | 966 |
| Age 65 | 17.20 | 20.84 | 786 | 879 |

$\frac{1}{}$ For both sexes combined, the expectation of life at birth in Hawaii was 77.79 years. The corresponding figure for the United States, based on 1979 data, was 73.7 years; see U.S. Department of Health and Human Services, National Center for Health Statistics, "Advance Report of Final Mortality Statistics, 1979," NCHS Monthly Vital Statistics Report, Vol. 31, No. 6, Supp., September 30, 1982, p. 2.

Source: Preliminary estimates by Robert W. Gardner, East-West Population Institute, October 12, 1982.

Table 43.-- ACUTE CONDITIONS: 1980

| Condition | Incidence of condition per year | Conditions per 100 persons per year |
|-----------------------------------|------------------------------------------|----------------------------------------------|
| All acute conditions | 1,570,820 | 168.8 |
| Infective parasitic diseases | 94,888 | 10.2 |
| Respiratory condition | 1,060,336 | 114.0 |
| Upper respiratory | 744,014 | 80.0 |
| Influenza | 283,147 | 30.4 |
| Other respiratory condition ... | 33,174 | 3.6 |
| Digestive system condition | 29,939 | 3.2 |
| Injuries | 196,730 | 21.1 |
| All other acute conditions | 188,928 | 20.3 |

Source: Hawaii State Department of Health, Statistical Report, 1980, p. 69.

Table 44.-- CHRONIC CONDITIONS: 1980

| Selected chronic conditions | Prevalence of condition | Conditions per 1,000 persons |
|-----------------------------------------|-------------------------------|------------------------------------|
| Heart condition | 18,715 | 20.1 |
| Impairments of back or spine | 30,144 | 32.4 |
| Hypertension without heart involvement | 70,282 | 75.6 |
| Arthritis/rheumatism | 25,882 | 27.8 |
| Hearing impairment | 24,334 | 26.2 |
| Asthma with or without hayfever | 27,740 | 29.8 |
| Diabetes | 21,386 | 23.0 |
| Mental and nervous condition | 8,729 | 9.4 |
| Visual impairment | 11,407 | 12.3 |
| Malignant neoplasms | 5,480 | 5.9 |
| Chronic and allergic skin conditions .. | 17,521 | 18.8 |
| Chronic sinusitis | 19,197 | 20.6 |
| Hayfever without asthma | 50,370 | 54.1 |
| Stomach ulcer | 7,529 | 8.1 |
| Bronchitis/emphysema | 9,658 | 10.4 |
| Benign and unspecified neoplasms | 5,495 | 5.9 |
| Hemorrhoids | 14,055 | 15.1 |
| Thyroid/goiter | 5,411 | 5.8 |
| Varicose veins | 3,358 | 3.6 |
| Gout | 9,927 | 10.7 |

Source: Hawaii State Department of Health, Statistical Report, 1980, p. 61.

Table 45.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE
CONDITIONS: 1980

| Type of limitation | Number |
|--------------------------------------------------------------------------------|------------|
| Persons with one or more chronic conditions | 319,102 |
| No limitation of activity | 268,247 |
| Limited, but not in major activity | 21,986 |
| Limited in amount or kind of activity | 16,884 |
| Unable to carry on major activity | 11,985 |
| Restricted days in past 12 months <u>1/</u> | 12,521,532 |
| Per person <u>2/</u> | 13.5 |
| Bed days in past 12 months | 3,710,282 |
| Per person <u>2/</u> | 4.0 |
| Work days lost by persons 17 years of age and older in past 12 months | 1,596,936 |
| Per employed person 17 years and older <u>2/</u> | 3.8 |
| School days lost by persons 6 to 16 years of age in past 12 months | 481,840 |
| Per pupil 6 to 16 years of age <u>2/</u> | 2.8 |

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: State Department of Health, Statistical Report, 1980, pp. 68, 72 and 73.

Table 46.-- SPECIFIED COMMUNICABLE DISEASES: 1970, 1979, AND 1980

| Disease | Cases | | | Deaths | | |
|---------------------------------|--------|--------|--------|--------|------|------|
| | 1970 | 1979 | 1980 | 1970 | 1979 | 1980 |
| All reportable diseases .. | 14,945 | 11,957 | 12,270 | 41 | 30 | 30 |
| Chickenpox | 1,680 | 835 | 926 | - | 2 | - |
| Gonorrhoea | 1,494 | 4,373 | 4,383 | - | - | - |
| Hepatitis, infect. and serum .. | 243 | 242 | 232 | 4 | 1 | 8 |
| Influenza | 1,326 | 464 | 118 | - | 6 | 2 |
| Leprosy | 16 | 33 | 34 | 5 | 1 | - |
| Measles (Rubeola) | 205 | 68 | 6 | - | - | - |
| Measles, German (Rubella) | 207 | 16 | 5 | - | - | - |
| Meningitis, all types | 182 | 141 | 195 | 13 | 6 | 6 |
| Mumps | 1,669 | 117 | 24 | - | - | - |
| Salmonellosis | 767 | 406 | 405 | - | - | - |
| Scarlet fever, other strep. ... | 4,708 | 4,348 | 5,102 | - | - | - |
| Syphilis | 92 | 196 | 225 | 2 | - | - |
| Tuberculosis | 270 | 311 | 127 | 14 | 14 | 14 |
| All others | 2,086 | 407 | 488 | 3 | - | - |

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

Table 47.-- LEPROSY PATIENTS REGISTERED: 1978 TO 1980

| Subject | 1978 | 1979 | 1980 |
|----------------------------------|------|------|------|
| Patients on register, Dec. 31 .. | 437 | 458 | 474 |
| Medically released | 434 | 458 | 474 |
| At home | 304 | 328 | 349 |
| Kalaupapa | 127 | 124 | 119 |
| Hale Mohalu or Leahi | 3 | 6 | 6 |
| Not medically released | 3 | - | - |
| Net annual increase | 16 | 21 | 16 |
| New cases added | 31 | 33 | 34 |
| Cases returned to register ... | 2 | 2 | 3 |
| Deaths | 5 | 5 | 8 |
| Left the State | 10 | 1 | 4 |
| Discharged | 2 | 8 | 9 |

Source: Hawaii State Department of Health, Statistical Report, 1980, p. 105.

Table 48.-- PERSONS 12 YEARS OLD AND OVER WHO HAD EVER USED SPECIFIED SUBSTANCES: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands.]

| Substance | 12 years old and over | | 12 to 17 years old: percent | 18 to 25 years old: percent | 26 years old and over: percent |
|----------------------------------|-----------------------|---------|-----------------------------|-----------------------------|--------------------------------|
| | Number (1,000) | Percent | | | |
| Coffee | 661 | 93.5 | 83.4 | 91.8 | 96.1 |
| Cigarettes | 427 | 60.5 | 35.2 | 63.5 | 64.9 |
| Alcohol | 560 | 79.2 | 52.1 | 87.2 | 82.8 |
| Marijuana | 222 | 31.4 | 31.8 | 55.7 | 24.7 |
| Over the counter drugs . | 235 | 33.2 | 35.8 | 35.9 | 31.9 |
| Sedatives | 96 | 13.5 | 6.1 | 21.3 | 12.9 |
| Stimulants | 90 | 12.8 | 3.5 | 17.9 | 13.3 |
| Tranquilizers | 178 | 25.2 | 5.8 | 26.7 | 28.9 |
| Inhalants | 55 | 7.8 | 10.9 | 15.9 | 4.9 |
| Opiates | 232 | 32.8 | 19.0 | 37.9 | 34.4 |
| Hallucinogens | 77 | 10.8 | 4.2 | 25.3 | 8.3 |
| PCP | 38 | 5.3 | 3.6 | 14.2 | 3.3 |
| Cocaine | 89 | 12.6 | 5.1 | 27.1 | 10.2 |
| Heroin | 20 | 2.8 | 0.4 | 5.6 | 2.6 |
| Stimulants <u>1</u> / | 44 | 6.3 | 1.7 | 12.2 | 5.6 |
| Sedatives <u>1</u> / | 46 | 6.6 | 3.8 | 16.1 | 4.5 |
| Tranquilizers <u>1</u> / | 43 | 6.0 | 3.4 | 12.4 | 4.9 |
| Over the counter <u>1</u> / | 24 | 3.4 | 2.5 | 4.9 | 3.2 |
| Opiates <u>1</u> / | 24 | 3.4 | 1.6 | 7.9 | 2.5 |

Footnote and source follow next table.

Table 49.-- PERSONS 12 YEARS OLD AND OVER WHO HAD USED SPECIFIED
SUBSTANCES IN THE PRECEDING MONTH: 1979

[Based on anonymous questionnaires completed by 3,127 household
members on six major islands.]

| Substance | 12 years old and over | | 12 to 17 years old: percent | 18 to 25 years old: percent | 26 years old and over: percent |
|---------------------------------|-----------------------|---------|-----------------------------|-----------------------------|--------------------------------|
| | Number (1,000) | Percent | | | |
| Coffee | 576 | 81.5 | 53.9 | 73.7 | 89.4 |
| Cigarettes | 235 | 33.3 | 15.3 | 40.0 | 35.2 |
| Alcohol | 389 | 55.1 | 27.4 | 68.2 | 57.3 |
| Marijuana | 102 | 14.4 | 17.9 | 30.7 | 9.2 |
| Over the counter drugs . | 45 | 6.4 | 10.1 | 6.7 | 5.5 |
| Sedatives | 21 | 3.0 | 0.9 | 5.1 | 3.0 |
| Stimulants | 14 | 1.9 | 0.9 | 3.0 | 2.0 |
| Tranquilizers | 44 | 6.2 | 1.5 | 5.5 | 7.0 |
| Inhalants | 9 | 1.2 | 2.9 | 1.2 | 0.8 |
| Opiates | 39 | 5.5 | 6.1 | 5.9 | 5.5 |
| Hallucinogens | 10 | 1.4 | 1.8 | 4.2 | 0.5 |
| PCP | 3 | 0.4 | 0.8 | 1.2 | 0.1 |
| Cocaine | 33 | 4.7 | 2.5 | 12.6 | 3.0 |
| Heroin | 2 | 0.3 | 0 | 1.1 | 0.2 |
| Stimulants <u>1/</u> | 8 | 1.1 | 0.7 | 3.0 | 0.7 |
| Sedatives <u>1/</u> | 9 | 1.2 | 0.5 | 3.8 | 0.7 |
| Tranquilizers <u>1/</u> | 8 | 1.1 | 0.7 | 3.1 | 0.7 |
| Over the counter <u>1/</u> | 6 | 0.8 | 0.3 | 1.3 | 0.7 |
| Opiates <u>1/</u> | 5 | 0.7 | 1.0 | 1.5 | 0.4 |

1/ Non-medical use.

Source: Hawaii State Department of Health, Mental Health Division, Alcohol and Drug Abuse Branch, Hawaii State Survey on Substance Abuse - 1979. Preliminary Findings (December 1980), tables 7 and 13.

Table 50.-- ACUTE CARE HOSPITALS, BY ISLANDS: 1980

| Island | Number of hospitals | Licensed beds | Admissions | Average daily census | Average length of stay (days) | Average daily percent occupancy |
|----------------------------|---------------------|---------------|------------|----------------------|-------------------------------|---------------------------------|
| State <u>1/</u> | 23 | 2,882 | 117,726 | 2,050.3 | <u>2/</u> 6.4 | <u>2/</u> 71.1 |
| Oahu <u>1/</u> | 11 | 2,307 | 94,157 | 1,766.4 | <u>2/</u> 6.8 | <u>2/</u> 76.6 |
| Civilian only <u>3/</u> .. | 10 | 1,741 | 76,194 | 1,345.6 | 6.5 | 77.3 |
| Hawaii | 5 | 265 | 11,599 | 121.8 | 3.8 | 46.0 |
| Kauai | 3 | 143 | 4,633 | 65.9 | 5.2 | 46.1 |
| Maui | 2 | 146 | 6,888 | 93.0 | <u>2/</u> 4.9 | <u>2/</u> 63.7 |
| Molokai | 1 | 15 | 426 | 3.1 | 2.7 | 20.8 |
| Lanai | 1 | 6 | 23 | 0.1 | 2.3 | 2.5 |

NA Not available.

1/ Includes Tripler Army Medical Center.

2/ Estimated by Hawaii State Department of Planning and Economic Development.

3/ Excludes Tripler.

Source: Hawaii State Health Planning and Development Agency, records.

Table 51.-- SKILLED NURSING, INTERMEDIATE CARE AND SPECIAL TREATMENT FACILITIES, CARE HOMES, AND BEDS, BY ISLANDS: 1980

[Data are only for civilian facilities licensed by the Hospital and Medical Facilities Branch of the Hawaii State Department of Health.]

| Category and island | Total, all facilities | Skilled nursing, intermediate care facilities | Special treatment facilities <u>1/</u> | Care homes | |
|----------------------|-----------------------|-----------------------------------------------|----------------------------------------|-----------------------|------------------|
| | | | | Residential <u>2/</u> | Family <u>3/</u> |
| NUMBER OF FACILITIES | | | | | |
| State total .. | 377 | 57 | 24 | 15 | 281 |
| Oahu | 289 | 31 | 16 | 10 | 232 |
| Hawaii | 29 | 9 | 2 | 1 | 17 |
| Kauai | 32 | 7 | 3 | 3 | 19 |
| Lanai | 3 | 3 | - | - | - |
| Maui | 20 | 6 | 3 | - | 11 |
| Molokai | 4 | 1 | - | 1 | 2 |
| NUMBER OF BEDS | | | | | |
| State total .. | 6,673 | 4,532 | 609 | 490 | 1,042 |
| Oahu | 4,741 | 2,973 | 481 | 402 | 885 |
| Hawaii | 723 | 638 | 22 | 13 | 50 |
| Kauai | 504 | 351 | 31 | 61 | 61 |
| Lanai | 24 | 24 | - | - | - |
| Maui | 647 | 534 | 75 | - | 38 |
| Molokai | 34 | 12 | - | 14 | 8 |

1/ These include alcohol and drug abuse treatment centers, centers for runaway children, and facilities for physically or emotionally disturbed individuals. Data are for August 1981.

2/ Five or more beds.

3/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1980, pp. 152, 153, as revised November 3, 1981.

Table 52.-- HEALTH SERVICES: 1977

| Kind of business or operation | All taxable establishments | | Taxable establishments with payroll | | Tax-exempt establishments with payroll | |
|----------------------------------------------|----------------------------|--------------------|-------------------------------------|--------------------|----------------------------------------|--------------------|
| | Number | Receipts (\$1,000) | Number | Receipts (\$1,000) | Number | Expenses (\$1,000) |
| Total | 1,797 | 264,175 | 1,101 | 248,561 | 65 | 149,107 |
| Offices of physicians | 713 | 145,328 | 551 | 139,842 | - | - |
| Offices of dentists | 487 | 61,518 | 397 | 58,087 | - | - |
| Offices of osteopathic physicians | 10 | 640 | 7 | 546 | - | - |
| Offices of chiropractors | 22 | 1,238 | 10 | 903 | - | - |
| Offices of optometrists | 59 | 5,953 | 41 | 5,045 | - | - |
| Nursing and personal care facilities | 210 | 15,990 | 12 | 13,908 | 6 | 6,575 |
| Skilled nursing care facilities | (NT) | (NT) | 7 | 11,484 | 4 | (D) |
| Nursing and care facilities, n.e.c. | (NT) | (NT) | 5 | 2,424 | 2 | (D) |
| Hospitals | 1 | (D) | 1 | (D) | 14 | 130,447 |
| General medical and surgical | 1 | (D) | 1 | (D) | 10 | 110,257 |
| Psychiatric | - | - | - | - | - | - |
| Specialty, except psychiatric | - | - | - | - | 4 | 20,190 |
| Medical and dental laboratories | 74 | 11,373 | 43 | 10,705 | - | - |
| Medical | 22 | 6,921 | 14 | 6,667 | - | - |
| Dental | 52 | 4,452 | 29 | 4,038 | - | - |
| Other health services | 221 | (D) | 39 | (D) | 45 | 12,085 |
| Offices of health practitioners, n.e.c. | (NT) | (NT) | 21 | 1,600 | - | - |
| Outpatient care facilities .. | (NT) | (NT) | 11 | 1,359 | 34 | 8,200 |
| Health and allied services, n.e.c. | (NT) | (NT) | 7 | (D) | 11 | 3,885 |

D Withheld to avoid disclosing data for individual establishments.

NT Not tabulated.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-8, Health Services (May 1981), tables 1 and 2.

Table 53.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1975 TO 1980

| Year | Patients active, end of period | | | Admissions | | Termina- tions | Patients served (undup.) |
|---------|-----------------------------------|-----------------|------------------|------------|-------------------|-------------------|--------------------------------|
| | Total | In- patients | Out- patients | Total | Undupli- cated | | |
| 1975 .. | 7,090 | 367 | 6,723 | 5,233 | 4,947 | 4,633 | 11,101 |
| 1976 .. | 6,979 | 321 | 6,658 | 5,533 | 5,174 | 5,684 | 11,935 |
| 1977 .. | 6,905 | 226 | 6,679 | 5,453 | 5,171 | 5,529 | 11,806 |
| 1978 .. | 6,886 | 263 | 6,623 | 5,441 | 5,068 | 5,522 | 11,642 |
| 1979 .. | 6,392 | 333 | 6,059 | 4,564 | 4,265 | 5,057 | 10,713 |
| 1980 .. | 6,328 | 440 | 5,886 | 5,112 | 4,696 | 4,759 | 10,625 |

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

Table 54.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1977 TO 1982

[Hawaii State Hospital is the only large psychiatric hospital in
Hawaii.]

| Year | Number of beds, June 30 | Admissions <u>1/</u> | | Patients in hospital | |
|------------|-------------------------------|----------------------|-------|----------------------|---------|
| | | Total | First | Average <u>1/</u> | June 30 |
| 1977 | 199 | 994 | 470 | 243 | 192 |
| 1978 | 199 | 737 | 350 | 179 | 169 |
| 1979 | 199 | 787 | 315 | 184 | 204 |
| 1980 | 199 | 816 | 321 | 226 | 239 |
| 1981 | 220 | 804 | 322 | 214 | 222 |
| 1982 | 220 | 990 | 402 | 226 | 221 |

1/ Year ended June 30.

Source: Hawaii State Hospital, records.

Table 55.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1977 TO 1982

[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 | |
| 1977 | 600 | 12 | 529 | 535 | 572 |
| 1978 | 600 | 13 | 491 | 482 | 599 |
| 1979 | 600 | 13 | 441 | 446 | 613 |
| 1980 | 575 | 12 | 437 | 423 | 627 |
| 1981 | 575 | 7 | 406 | 397 | 635 |
| 1982 | 575 | 6 | 387 | 385 | 621 |

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

2/ Year ended June 30.

Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 56.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF RESIDENCE: MARCH 19, 1982

| Place of residence | Physicians and surgeons <u>1/</u> | Dentists | Regis- tered nurses | Pharma- cists |
|----------------------|-----------------------------------------|----------|---------------------------|------------------|
| Total licensed | 2,592 | 900 | 8,088 | 617 |
| Hawaii residents ... | 1,707 | 686 | 5,925 | 387 |
| Hawaii | 133 | 61 | 507 | 36 |
| Maui | 112 | 36 | 405 | 32 |
| Lanai | 2 | 1 | 13 | - |
| Molokai | 4 | 4 | 25 | 3 |
| Oahu | 1,393 | 561 | 4,730 | 299 |
| Kauai | 63 | 23 | 245 | 17 |
| Niihau | - | - | - | - |
| Nonresidents | 885 | 214 | 2,163 | 230 |

1/ Permanent licenses only. Does not include interns, residents, or the 26 physicians who provided State government services only.

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

Table 57.-- DRUG STORES, PHARMACISTS, AND PRESCRIPTIONS: 1977

[Data are shown only for establishments with payroll.]

| Subject | State total | Oahu only |
|-------------------------------------------------------------------------------------|----------------|--------------|
| Number of establishments | 87 | 70 |
| Sales (\$1,000) | 170,717 | (D) |
| Prescriptions, total (1,000) | 2,911 | 2,185 |
| Refills (1,000) | 638 | 473 |
| Pharmacists, total, mid-March | 168 | 138 |
| Part-time, working less than 35 hours per week | 36 | 29 |
| Establishments which filled prescriptions paid for by third parties, total | 76 | 59 |
| Third-party prescriptions less than 15 percent of total prescriptions | 17 | 15 |
| 15 to 24 percent | 13 | 11 |
| 25 percent or more | 46 | 33 |

D Withheld to avoid disclosure.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 22, 23, 24, and 25.

Table 58.-- EXPENDITURES BY CIVILIAN FAMILIES AND INDIVIDUALS FOR
HEALTH SERVICES: 1978-1979

[Annual out-of-pocket expenses.]

| Service | Percent utilizing service | | Average expense <u>1/</u> (dollars) | | Median expense <u>1/</u> (dollars) | |
|---------------------------------|---------------------------|---------------|-------------------------------------|---------------|------------------------------------|---------------|
| | Fam-ilies | Unrel. indiv. | Fam-ilies | Unrel. indiv. | Fam-ilies | Unrel. indiv. |
| All health services | ... | ... | 834 | 437 | 629 | 278 |
| Excluding insurance premiums .. | ... | ... | 626 | 337 | 404 | 155 |
| Doctor care | 88.9 | 78.3 | 233 | 113 | 150 | 75 |
| Hospital care | 24.7 | 12.8 | 381 | 646 | 190 | 209 |
| Medicine | 83.6 | 69.9 | 106 | 74 | 60 | 30 |
| Dental care | 71.3 | 45.6 | 299 | 196 | 195 | 90 |
| Other health services | 43.2 | 29.4 | 149 | 130 | 100 | 100 |
| Health insurance premiums | ... | ... | 316 | 179 | 276 | 152 |

1/ For families with expense.

Source: Hawaii State Department of Health, Cost of Medical Care (R & S Report, No. 36, October 1981), pp. 24, 28, 31, 34, 37, 40, 43, 46, and 49.

Table 59.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979 as part of the Hawaii Health Surveillance Program.]

| Subject | All ages <u>1/</u> | Under 20 years | 20 to 39 years | 40 to 59 years | 60 years and over |
|------------------------------------------------|--------------------|----------------|----------------|----------------|-------------------|
| Population surveyed | 867,755 | 293,667 | 300,852 | 175,113 | 92,666 |
| Months since last visit: | | | | | |
| Less than 6 | 312,781 | 111,515 | 113,509 | 63,300 | 22,983 |
| 6 to 12 | 138,438 | 52,918 | 52,923 | 20,147 | 12,127 |
| Less than 12, unspecified | 114,922 | 42,132 | 32,545 | 28,031 | 10,119 |
| Over 12 | 219,379 | 34,942 | 84,555 | 56,284 | 42,578 |
| Never | 55,394 | 47,244 | 3,653 | 2,290 | 2,118 |
| Unknown | 26,842 | 4,916 | 13,667 | 5,061 | 2,742 |
| Services received in past 12 months: <u>2/</u> | | | | | |
| Checkup | 23,601 | 12,394 | 6,124 | 4,272 | 811 |
| X-Ray | 344,731 | 119,090 | 133,835 | 65,831 | 22,428 |
| Cleaning teeth | 434,384 | 160,282 | 158,072 | 83,836 | 28,742 |
| Fillings | 291,238 | 105,669 | 114,037 | 49,970 | 21,217 |
| Fluoride treatment | 155,870 | 97,968 | 47,498 | 8,220 | 2,183 |
| Extractions | 66,266 | 24,683 | 25,831 | 10,512 | 5,161 |
| Root canal treatment | 27,081 | 3,033 | 12,894 | 6,633 | 4,175 |
| Dentures and/or bridges | 35,048 | 376 | 7,629 | 14,641 | 12,323 |
| Crowns and capping | 53,243 | 8,701 | 22,939 | 14,214 | 7,376 |
| Straightening teeth | 16,192 | 11,913 | 3,130 | 1,148 | - |
| Treating gum and/or bone | 13,016 | 867 | 3,918 | 5,243 | 2,987 |
| Other | 8,128 | 4,224 | 1,796 | 699 | 1,409 |
| Unknown | 17,642 | 7,135 | 4,917 | 4,189 | 1,056 |
| Dental problems: <u>2/</u> | | | | | |
| Cavities | 85,192 | 19,904 | 44,345 | 14,491 | 6,451 |
| Toothache | 11,132 | 1,683 | 4,666 | 2,808 | 1,974 |
| Wisdom tooth | 22,066 | 6,109 | 13,928 | 1,513 | 516 |
| Dentures | 32,651 | 1,547 | 2,644 | 12,399 | 16,061 |
| Crooked teeth or bad bite | 33,595 | 20,436 | 9,049 | 2,726 | 1,384 |
| Disease of gum and/or bone | 8,861 | 452 | 2,555 | 4,789 | 1,040 |
| Other | 18,324 | 5,903 | 6,918 | 3,081 | 2,422 |
| None | 636,968 | 220,371 | 213,235 | 135,848 | 62,908 |
| Unknown | 54,917 | 24,001 | 18,857 | 6,063 | 5,171 |

1/ Includes 5,456 persons not reporting age.

2/ Some respondents reported two or more categories.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 60.-- MARRIAGES AND DIVORCES: 1970 TO 1981

[Place of occurrence basis.]

| Calendar year | Marriages | Divorces and annulments <u>1/</u> | Rate per 1,000 resident population <u>2/</u> | | Percent of marriages | |
|---------------|-----------|-----------------------------------|----------------------------------------------|--------------------|-----------------------|--------------|
| | | | Marriages | Divorces <u>1/</u> | Nonresident <u>3/</u> | Inter-racial |
| 1970 ... | 10,599 | 2,589 | 13.7 | 3.3 | 25.6 | 33.7 |
| 1971 ... | 9,734 | 3,691 | 12.2 | 4.6 | 16.7 | 38.7 |
| 1972 ... | 9,750 | 3,891 | 11.8 | 4.7 | 13.0 | 38.6 |
| 1973 ... | 9,776 | 4,170 | 11.5 | 4.9 | 11.5 | 40.6 |
| 1974 ... | 9,649 | 4,111 | 11.1 | 4.7 | 11.9 | 40.1 |
| 1975 ... | 9,673 | 4,265 | 10.9 | 4.8 | 12.7 | 39.6 |
| 1976 ... | 9,769 | 4,712 | 10.8 | 5.2 | 14.9 | 38.8 |
| 1977 ... | 10,266 | 4,601 | 11.2 | 5.0 | 17.9 | 37.5 |
| 1978 ... | 10,736 | 4,837 | 11.6 | 5.2 | 19.4 | 37.9 |
| 1979 ... | 11,678 | 5,055 | 12.3 | 5.3 | 19.3 | 38.2 |
| 1980 ... | 11,856 | 4,438 | 12.2 | 4.6 | 20.4 | 37.6 |
| 1981 ... | 12,218 | 4,253 | 12.5 | 4.3 | 22.7 | 36.1 |

NA Not available.

1/ Final decrees only. An interlocutory decree of one year was established May 8, 1965, reduced to six months on July 3, 1969, and abolished July 1, 1971.

2/ Based on intercensal and postcensal estimates cited in table 32, footnote 2.

3/ Both partners nonresidents of Hawaii.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Annual Report, Statistical Supplement for 1970-1980 and records.

Table 61.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1970, 1979, AND 1980

[Place of occurrence basis.]

| Subject | 1970 | 1979 | 1980 |
|-------------------------------------------|--------|--------|--------|
| MARRIAGES | | | |
| Number | 10,599 | 11,678 | 11,856 |
| Percent on Oahu | 85.6 | 73.3 | 73.2 |
| Percent Hawaii residents: | | | |
| Both bride and groom | 66.0 | 75.6 | 75.1 |
| One partner only | 8.4 | 5.1 | 4.6 |
| Neither bride nor groom | 25.5 | 19.3 | 20.4 |
| Median age (years): | | | |
| Groom | 24.5 | 27.9 | 28.1 |
| Bride | 22.9 | 25.5 | 25.8 |
| Percent previously married: | | | |
| Groom | 21.9 | 35.5 | 34.6 |
| Bride | 22.3 | 35.0 | 34.5 |
| DIVORCES AND ANNULMENTS | | | |
| Number <u>1/</u> | 2,589 | 5,055 | 4,438 |
| Divorces | 2,563 | 5,042 | 4,423 |
| Annulments | 26 | 11 | 14 |
| Percent occurring on Oahu | 86.6 | 80.7 | 77.7 |
| Percent nonresident: | | | |
| Husband | 11.1 | 12.9 | 11.8 |
| Wife | 12.7 | 12.9 | 12.4 |
| Neither partner | 75.7 | 73.9 | 75.7 |
| Median age (years): | | | |
| Husband | 33.0 | 32.6 | 33.0 |
| Wife | 30.4 | 29.9 | 30.4 |
| Percent interracial <u>2/</u> | 35.9 | 37.2 | 39.3 |
| Percent with children under 18 years | 63.9 | 55.0 | 45.2 |
| Median years married | 7.6 | 6.0 | 6.0 |

1/ Includes unspecified type of decree (2 in 1979 and 1 in 1980).

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

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

Table 62.-- AGE DIFFERENCES IN MARRIAGE AND DIVORCE: 1980

| Age difference | Marriages <u>1/</u> | | | Divorces | |
|-------------------------------|---------------------|----------|------------------|----------|-----------------|
| | Total | Resident | Nonres- ident | Number | Ratio <u>2/</u> |
| Total | 11,856 | 9,446 | 2,410 | 4,438 | 47.0 |
| Man older: | | | | | |
| 20 years or more . | 201 | 122 | 79 | 79 | 64.8 |
| 10 to 19 years ... | 1,171 | 767 | 404 | 385 | 50.2 |
| 5 to 9 years | 2,193 | 1,623 | 570 | 753 | 46.4 |
| 1 to 4 years | 4,291 | 3,578 | 713 | 1,716 | 48.0 |
| Both same age | 1,241 | 1,080 | 161 | 542 | 50.2 |
| Woman older: | | | | | |
| 1 to 4 years | 1,915 | 1,590 | 325 | 620 | 39.0 |
| 5 to 9 years | 597 | 481 | 116 | 191 | 39.7 |
| 10 years or more . | 246 | 204 | 42 | 67 | 32.8 |
| Not available | 1 | 1 | - | 85 | ... |
| Median difference (years): | | | | | |
| Absolute | 3.5 | 3.3 | 4.5 | 3.3 | ... |
| Algebraic <u>3/</u> | 2.3 | 2.0 | 3.6 | 2.3 | ... |

1/ Resident marriages are those in which one or both partners are Hawaii residents; nonresident marriages, those in which neither partner is a Hawaii resident.

2/ Divorces per 100 resident marriages.

3/ Age of groom less age of bride. All values are positive.

Source: Hawaii State Department of Health, special tabulation.

Table 63.-- MARRIAGES, MIXED AND UNMIXED, BY RESIDENCE STATUS OF PARTNERS: 1980

[Data refer to marriages occurring in Hawaii.]

| Residence status | Ethnic stock of bride and groom <u>1/</u> | | | | Percent different <u>3/</u> |
|---------------------------------------|-------------------------------------------|-------|-----------|-------------------------|-----------------------------|
| | Total | Same | Different | Not re-ported <u>2/</u> | |
| All marriages | 11,856 | 7,232 | 4,053 | 571 | 35.9 |
| Resident marriages <u>4/</u> | 9,446 | 5,098 | 3,841 | 507 | 43.0 |
| Nonresident marriages <u>5/</u> | 2,410 | 2,134 | 212 | 64 | 9.0 |

1/ Based on the following categories: Caucasian other than Portuguese, Hawaiian, Part Hawaiian, Chinese, Filipino, Japanese, Puerto Rican, Korean, Samoan, Portuguese, Negro or Black, Vietnamese, Other races, and Unknown.

2/ Both partners "other races," or one or both "unknown."

3/ Base excludes "not reported."

4/ One or both partners classified as residents of Hawaii.

5/ Both partners classified as nonresidents.

Source: Hawaii State Department of Health, special tabulation.

Table 64.-- MARRIAGES OCCURRING IN HAWAII, BY TYPE OF CEREMONY: 1978 TO 1980

| Year and residence status | All marriages | Civil | Religious | Not stated | Percent civil |
|------------------------------------|---------------|-------|-----------|------------|---------------|
| 1978 | 10,736 | 3,573 | 7,160 | 3 | 33.3 |
| 1979 | 11,678 | 4,011 | 7,664 | 3 | 34.3 |
| 1980 | 11,856 | 4,163 | 7,693 | - | 35.1 |
| Residence status: 1980 | | | | | |
| Resident marriages <u>1/</u> | 9,446 | 3,530 | 5,916 | - | 37.4 |
| Nonresident marriages <u>2/</u> .. | 2,410 | 633 | 1,777 | - | 26.3 |

1/ One or both partners classified as Hawaii residents.

2/ Both partners classified as nonresidents.

Source: Hawaii State Department of Health, special tabulations.

Table 65.-- AVERAGE HEIGHTS AND WEIGHTS, BY SEX, FOR THE PERIOD OF RECORD

| Group | Stature (cm.) <u>1/</u> | | Weight (lb.) | |
|---------------------------------------------------|-------------------------|--------|--------------|--------|
| | Male | Female | Male | Female |
| Pre-contact adult burials at Mokapu, Oahu | 169.9 | 158.1 | (NA) | (NA) |
| Pupils in Honolulu schools, 1920-1921: | | | | |
| 6 years old | 113.0 | 112.3 | 43.0 | 42.2 |
| 9 years old | 126.6 | 126.4 | 56.1 | 56.0 |
| 12 years old | 140.8 | 143.9 | 74.3 | 80.4 |
| 15 years old | 159.0 | 154.4 | 107.5 | 106.4 |
| 18 years old | 165.7 | 157.6 | 127.2 | 114.7 |
| Hawaii adults of Japanese ancestry, 1931-1932: | | | | |
| Born in Japan <u>2/</u> | 158.7 | 148.5 | 124.0 | 113.0 |
| Born in Hawaii <u>3/</u> | 162.8 | 150.2 | 127.4 | 103.3 |
| Single live births: <u>4/</u> | | | | |
| 1974 | (NA) | (NA) | 7.2 | 7.0 |
| 1980 | (NA) | (NA) | 7.3 | 7.1 |
| Population 18 years old and over, 1975-1980 | 171.4 | 159.0 | 159.5 | 127.9 |

NA Not available.

1/ Without shoes.

2/ 20 to 64 years old.

3/ 20 to 49 years old.

4/ Median rather than arithmetic mean.

Source: Charles E. Snow, Early Hawaiians (The University Press of Kentucky, 1974), p. 119; Clark Wissler, Growth of Children in Hawaii (Bernice P. Bishop Museum, 1930), pp. 133-139 (as calculated by DPED from data reported separately by race); H. L. Shapiro, Migration and Environment (Oxford University Press, 1939), pp. 206, 212, 220, and 226; Hawaii State Department of Health, Statistical Report for 1974 (pp. 16-17) and 1980 (pp. 15-16), and Hawaii Health Surveillance Program, special tabulation.

Table 66.-- AVERAGE HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY AGE AND 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.]

| Age in years | Average height (inches) | | Average weight (lb.) | |
|------------------------|-------------------------|--------|----------------------|--------|
| | Male | Female | Male | Female |
| Total, 18 and over ... | 67.5 | 62.6 | 159.5 | 127.9 |
| 18 to 24 | 68.2 | 63.2 | 156.2 | 123.7 |
| 25 to 34 | 68.6 | 63.3 | 164.5 | 127.6 |
| 35 to 44 | 68.2 | 62.9 | 169.5 | 132.1 |
| 45 to 54 | 67.2 | 62.3 | 161.8 | 130.5 |
| 55 to 64 | 66.5 | 62.0 | 154.3 | 128.5 |
| 65 and over | 65.3 | 61.1 | 143.1 | 123.3 |
| Age not reported | 67.3 | 62.9 | 163.5 | 127.8 |

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

Table 67.-- AVERAGE HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY ETHNIC STOCK AND 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.]

| Ethnic stock | Average height (inches) | | Average weight (lb.) | |
|-----------------------------|-------------------------|--------|----------------------|--------|
| | Male | Female | Male | Female |
| All groups | 67.5 | 62.6 | 159.5 | 127.9 |
| Caucasian | 69.9 | 64.3 | 170.0 | 133.2 |
| Japanese | 65.7 | 61.0 | 146.3 | 116.5 |
| Chinese | 67.0 | 62.3 | 148.1 | 116.5 |
| Filipino | 64.7 | 61.0 | 143.1 | 119.1 |
| Hawaiian | 68.2 | 63.9 | 185.9 | 161.1 |
| Korean | 66.9 | 62.1 | 149.6 | 116.2 |
| Negro or black | 70.6 | 64.4 | 174.6 | 135.7 |
| Puerto Rican | 67.1 | 62.3 | 170.8 | 142.0 |
| Samoan | 68.5 | 64.5 | 191.0 | 170.7 |
| Other unmixed or unknown .. | 68.5 | 63.2 | 166.4 | 131.1 |
| Part Hawaiian | 68.6 | 63.7 | 178.4 | 145.7 |
| Mixed, non-Hawaiian | 67.6 | 62.5 | 159.9 | 127.5 |

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

Table 68.-- HEIGHT DISTRIBUTION, BY SEX, AND AVERAGE WEIGHT, BY HEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 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.]

| Height (in inches) | Cumulative percent ^{1/} | | Average weight (pounds) | |
|--------------------|----------------------------------|--------|-------------------------|--------|
| | Male | Female | Male | Female |
| Total | 100.0 | 100.0 | 159.5 | 127.9 |
| Under 54 | 0.1 | 0.7 | (B) | 111.0 |
| 54 | 0.1 | 0.8 | (B) | 106.0 |
| 55 | 0.1 | 1.0 | (B) | 112.9 |
| 56 | 0.2 | 1.7 | (B) | 107.3 |
| 57 | 0.3 | 2.7 | (B) | 107.8 |
| 58 | 0.4 | 5.2 | 122.7 | 107.9 |
| 59 | 0.7 | 11.4 | 124.2 | 113.6 |
| 60 | 2.1 | 24.4 | 126.7 | 116.3 |
| 61 | 3.5 | 34.9 | 131.7 | 121.3 |
| 62 | 7.3 | 51.2 | 133.6 | 124.6 |
| 63 | 12.1 | 63.3 | 136.1 | 128.7 |
| 64 | 19.8 | 74.7 | 140.8 | 133.9 |
| 65 | 27.8 | 82.8 | 145.1 | 138.5 |
| 66 | 39.3 | 89.9 | 150.0 | 140.3 |
| 67 | 51.2 | 94.6 | 155.8 | 144.4 |
| 68 | 61.8 | 97.4 | 161.6 | 148.5 |
| 69 | 70.7 | 98.6 | 168.4 | 156.5 |
| 70 | 78.4 | 99.3 | 170.7 | 153.2 |
| 71 | 85.7 | 99.7 | 177.7 | 156.8 |
| 72 | 92.7 | 99.9 | 182.4 | 167.4 |
| 73 | 95.7 | 99.9 | 188.7 | (B) |
| 74 | 98.1 | 100.0 | 193.9 | (B) |
| 75 | 99.0 | 100.0 | 198.9 | (B) |
| 76 | 99.6 | 100.0 | 201.8 | (B) |
| 77 | 99.8 | 100.0 | 205.9 | (B) |
| 78 | 99.9 | 100.0 | 210.8 | (B) |
| 79 and over | 100.0 | 100.0 | 192.2 | (B) |
| Not reported | ... | ... | 158.1 | 134.0 |

B Base figure too small to meet statistical standards for reliability of derived figure.

^{1/} Based on number reporting height.

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

Table 69.-- WEIGHT DISTRIBUTION, BY SEX, AND AVERAGE HEIGHT, BY WEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 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.]

| Weight (in pounds) | Cumulative percent <u>1/</u> | | Average height (in inches) | |
|--------------------|------------------------------|--------|-------------------------------|--------|
| | Male | Female | Male | Female |
| Total | 100.0 | 100.0 | 67.5 | 62.6 |
| Under 75 | 0.0 | 0.1 | (B) | 57.8 |
| 75 to 99 | 0.4 | 7.8 | 61.4 | 59.7 |
| 100 to 124 | 7.7 | 51.2 | 63.5 | 61.9 |
| 125 to 149 | 38.3 | 82.5 | 65.7 | 63.4 |
| 150 to 174 | 71.7 | 93.3 | 68.0 | 64.2 |
| 175 to 199 | 90.0 | 97.7 | 69.8 | 64.7 |
| 200 to 224 | 96.8 | 99.1 | 70.7 | 65.0 |
| 225 to 249 | 98.7 | 99.6 | 70.9 | 65.0 |
| 250 to 274 | 99.5 | 99.9 | 70.6 | 65.5 |
| 275 to 299 | 99.8 | 100.0 | 71.0 | 63.9 |
| 300 to 324 | 99.9 | 100.0 | 72.1 | (B) |
| 325 to 349 | 99.9 | 100.0 | (B) | (B) |
| 350 and over | 100.0 | 100.0 | (B) | (B) |
| Not reported | ... | ... | 65.9 | 62.8 |

B Base figure too small to meet statistical standards for reliability of derived figure.

1/ Based on number reporting weight.

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

Table 70.-- NUTRITION OF STUDENTS, BY GRADE LEVEL: 1979

| Subject | Elementary school | | Junior high school | | Senior high school | |
|-------------------------------------------|-------------------|--------|--------------------|--------|--------------------|--------|
| | Male | Female | Male | Female | Male | Female |
| Mean daily intake | | | | | | |
| Protein (g.) | 88 | 75 | 104 | 77 | 117 | 74 |
| Vitamin A (R.E.) <u>1/</u> | 1,086 | 774 | 924 | 619 | 1,115 | 835 |
| Vitamin C (mg.) | 99 | 94 | 101 | 93 | 156 | 120 |
| Thiamin (mg.) | 1.1 | 1.0 | 1.2 | 1.0 | 1.5 | 0.9 |
| Riboflavin (mg.) | 2.0 | 1.7 | 2.1 | 1.5 | 2.6 | 1.5 |
| Niacin <u>2/</u> (mg.) | 17 | 15 | 20 | 15 | 23 | 14 |
| Calcium (mg.) | 943 | 807 | 1,063 | 719 | 1,200 | 708 |
| Phosphorus (mg.) | 1,337 | 1,200 | 1,721 | 1,206 | 1,905 | 1,083 |
| Iron (mg.) | 12 | 10 | 14 | 10 | 15 | 10 |
| Calories (kcal.) | 2,180 | 1,942 | 2,654 | 2,057 | 3,079 | 2,028 |
| Breakfast | 345 | | 390 | | 356 | |
| Lunch | 550 | | 530 | | 529 | |
| Dinner | 645 | | 685 | | 732 | |
| Snacks | 522 | | 766 | | 1,028 | |
| Sugar (g.) | 44 | 41 | 61 | 58 | 70 | 57 |
| Cholesterol (mg.) | 388 | 325 | 466 | 310 | 535 | 297 |
| Fat (g.) | 90 | 82 | 111 | 85 | 128 | 81 |
| Mean intake as percent of RDA or standard | | | | | | |
| Protein | 258 | 221 | 231 | 167 | 209 | 161 |
| Vitamin A | 155 | 111 | 92 | 77 | 111 | 104 |
| Vitamin C | 220 | 209 | 203 | 186 | 260 | 199 |
| Thiamin | 95 | 82 | 85 | 90 | 106 | 82 |
| Riboflavin | 142 | 120 | 134 | 118 | 151 | 118 |
| Niacin <u>2/</u> | 108 | 93 | 110 | 97 | 128 | 103 |
| Calcium | 118 | 101 | 89 | 62 | 100 | 59 |
| Phosphorus | 167 | 150 | 143 | 100 | 159 | 90 |
| Iron | 118 | 104 | 77 | 56 | 83 | 55 |
| Calories | 91 | 81 | 98 | 93 | 110 | 97 |

1/ Retinol Equivalents.

2/ Data exclude the niacin value that could be contributed by tryptophan. Because students in the sample were consuming more than adequate amounts of protein, their niacin levels would be higher than those indicated.

Source: University of Hawaii, Curriculum Research and Development Group, Hawai'i Nutrition Education Needs Assessment, Final Report (May 1980), pp. 19-34.

Table 71.-- DAILY FOOD INTAKE OF INDIVIDUALS: WINTER 1978

| Food | Average daily intake (grams) | Percent using in a day |
|------------------------------------------------|------------------------------|------------------------|
| Meats, poultry, fish | 244 | 94.7 |
| Milk, milk products (calcium equivalent) | 273 | 69.8 |
| Eggs | 28 | 32.2 |
| Legumes, nuts, seeds | 38 | 25.8 |
| Grain products | 281 | 96.9 |
| Bread, rolls, biscuits | 49 | 70.4 |
| Rice | 116 | 58.7 |
| Fats, oils | 13 | 62.9 |
| Vegetables | 160 | 86.4 |
| Nonalcoholic beverages | 491 | 77.1 |
| Alcoholic beverages | 79 | 12.2 |
| Fruits | 169 | 58.5 |
| Sugar, sweets | 18 | 53.8 |

Source: U.S. Department of Agriculture, Science and Education Administration, Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 33-42.

Table 72.-- NUTRITIVE VALUE OF FOOD: WINTER 1978

| Nutrient | Average intake per individual in a day | | Percent of recommended dietary allowances in a day | Percent of households meeting recommended allowances |
|-------------------------------|----------------------------------------|--------|----------------------------------------------------|------------------------------------------------------|
| | Unit | Amount | | |
| Food energy | Kcal | 1,751 | 81 | 77 |
| Protein | G | 73.8 | 163 | 98 |
| Fat | G | 75.8 | ... | ... |
| Carbohydrate | G | 188.2 | ... | ... |
| Calcium | Mg | 625 | 73 | 50 |
| Iron | Mg | 12.6 | 103 | 88 |
| Magnesium | Mg | 236 | 79 | 70 |
| Phosphorus | Mg | 1,068 | 127 | 96 |
| Vitamin A value | IU | 5,429 | 122 | 83 |
| Thiamin | Mg | 1.23 | 110 | 88 |
| Riboflavin | Mg | 1.50 | 116 | 87 |
| Preformed niacin ... | Mg | 18.3 | 124 | ... |
| Vitamin B ₆ | Mg | 1.44 | 75 | 68 |
| Vitamin B ₁₂ | Mcg | 5.11 | 139 | 84 |
| Vitamin C | Mg | 96 | 166 | 96 |

Source: U.S. Department of Agriculture, Science and Education Administration, Food Consumption and Dietary Levels of Households in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 4, April 1981), p. 19, and Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 58 and 60.