

Section 2

VITAL STATISTICS AND HEALTH

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

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth was 74 years for males and 78 years for females in 1975. The crude death rate in 1980 was only 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.8 in 1979. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for over one-fifth. The 1980 crude birth rate was 18.7 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 1,821 in 1975. Over 99 percent of all babies were born in hospitals in 1979, and over one-fifth were born to military couples. One out of six births was illegitimate. There were 8,238 fetal deaths in 1980, including 6,462 elective abortions. Marriages numbered 11,856 in 1980, with about 23 percent accounted for by nonresidents. Divorces reached a 1980 total of 4,438. The State had 24 acute care civilian hospitals (with 2,330 beds), 49 skilled nursing and intermediate care facilities (with 3,185 beds), 22 special treatment facilities (with 531 beds) and 277 care homes (with 1,444 beds) in 1979. There were 1,781 physicians and surgeons, 627 dentists, 6,024 professional nurses, and 384 pharmacists licensed and living in Hawaii as of March 1981. Acute conditions per 100 persons numbered 209 in 1979, with respiratory conditions the most common complaint (at 139 cases per 100 persons). Among chronic conditions reported in the 1979 survey data, the most frequently mentioned were hypertension without heart involvement (6.7 per 100 persons), hay fever (5.4), and asthma (3.7). The most common communicable disease reported to authorities in 1979 was gonorrhea, with 4,373 cases. State mental health facilities served 10,713 patients in 1979, but the number of in-patients at the end of the year was only 333. 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.

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: 1980 contain similar data for the nation as a whole.

Table 32.-- BIRTHS AND DEATHS: 1970 TO 1980

[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	18.8	5.5	93.0	22.8	17.5
1973 ...	15,358	4,579	18.3	5.4	104.0	16.4	13.7
1974 ...	15,528	4,598	18.1	5.3	108.8	16.3	16.0
1975 ...	15,766	4,572	18.0	5.2	123.2	18.9	13.7
1976 ...	16,409	4,717	18.3	5.3	125.0	20.8	11.2
1977 ...	16,983	4,725	18.6	5.2	143.3	21.6	12.3
1978 ...	16,762	4,860	17.9	5.2	160.1	13.5	12.0
1979 ...	17,568	5,138	18.3	5.4	163.5	13.1	10.9
1980 ...	18,216	5,204	18.7	5.4	175.6	15.3	10.8

1/ Includes armed forces.

2/ Based on provisional intercensal estimates in the Hawaii State Department of Planning and Economic Development, "Provisional Intercensal Population Estimates, 1970-1980" (Statistical Memorandum 81-4, May 22, 1981), table 1.

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 1973-1980.

Table 33.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:
1970 TO 1980

[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 <u>1/</u>	18,216	-	18,216	3,750	14,466	3,750
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 <u>1/</u>	5,204	69	5,135	154	4,981	223
Birth rate: <u>2/</u>						
1970	20.5	-	22.0	66.2	18.3	34.5
1971	19.1	-	20.3	59.0	17.0	32.5
1972	17.9	-	19.1	53.5	16.0	30.0
1973	17.2	-	18.5	53.2	15.2	29.1
1974	17.0	-	18.1	55.3	14.9	30.0
1975	16.9	-	18.0	60.0	14.7	31.1
1976	17.1	-	18.2	56.8	15.1	30.5
1977	17.2	-	18.2	58.0	15.2	31.0
1978	16.4	-	17.4	59.8	14.5	30.6
1979	16.7	-	17.7	58.9	14.9	31.0
1980 <u>1/</u>	17.3	-	18.4	58.6	15.6	30.0

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Table 33.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:
1970 TO 1980 - Con.

[Place of occurrence basis.]

Subject	All groups	Armed forces	Civilians			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Death rate: <u>2/</u>						
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	5.5	2.4	5.8	1.8
1973	5.1	1.2	5.4	2.4	5.7	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	5.4	1.8
1977	4.8	1.3	5.0	2.4	5.2	1.9
1978	4.8	1.4	5.0	2.4	5.1	1.9
1979	4.9	1.5	5.1	2.4	5.3	2.0
1980 <u>1/</u>	4.9	1.1	5.2	2.4	5.4	1.8

1/ Preliminary.

2/ Per 1,000 de facto population. Based on population estimates in the Hawaii State Department of Planning and Economic Development, "Provisional Intercensal Population Estimates, 1970-1980" (Statistical Memorandum 81-4, May 22, 1981), tables 1 and 2.

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 1975

Type of rate and military status <u>1/</u>	1960	1970	1975
Crude birth rate, all groups <u>2/</u>	27.2	21.4	18.1
Civilian	22.9	19.1	15.9
Military	48.8	35.1	31.0
General fertility rate, all groups <u>3/</u>	127.8	96.1	77.9
Civilian	106.2	84.8	66.6
Military	250.5	169.5	165.4
Total fertility rate, all groups <u>4/</u>	3,886.5	2,728.5	2,095.0
Civilian	3,360.5	2,461.5	1,821.5
Military	6,480.5	4,275.0	4,130.5
Gross reproduction rate, all groups <u>5/</u> ...	1,884.0	1,318.0	1,017.0
Civilian	1,628.0	1,189.5	885.5
Military	3,140.0	2,065.5	2,007.0

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 of the East-West Population Institute in the Hawaii State Department of Planning and Economic Development, Fluctuations in Island Birth Rates and Some of Their Consequences (1980), pp. 43-44.

Table 35.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1969, 1978, AND 1979

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

Subject	1969 ^{1/}	1978	1979
Number of resident births	15,550	16,717	17,513
Rate per 1,000 population	20.7	18.6	19.1
Percent on Oahu	84.4	77.8	78.2
Percent attended by M.D. in hospital	99.5	98.6	98.3
Males per 100 females	106.3	110.3	106.2
Percent of mixed race ^{2/}	41.6	46.6	47.7
Median weight of single births (grams)	3,232	3,400	3,282
Percent premature (under 2,500 grams)	8.8	7.4	7.2
Percent single births under 40 weeks gestation ..	(NA)	47.6	48.0
Percent plural	1.8	1.7	1.6
Percent with 1 or more congenital malformations .	1.1	0.9	1.0
Percent illegitimate	9.4	16.0	16.4
Percent with prenatal visit in first three months	65.0	71.6	74.6
Percent first child born to mother	37.5	34.5	33.5
Percent first child born alive to mother	(NA)	42.4	42.3
Median age of mothers (years)	25.0	25.7	25.9
Median age of known fathers (years)	28.2	28.6	28.7

NA Not available.

^{1/} Place of occurrence basis, except number of resident births, birth rate, sex ratio, and percent illegitimate.

^{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 1980

Sex and rank	1980 ^{1/}		1950	1909-1914
	Name	Number		
Boys' names:				
1	Michael	236	John	John
2	Jason	210	Michael	William
3	Christopher	188	Robert	George
4	David	167	William	Antonio
5	James	141	Dennis	Joseph
Girls' names:				
1	Jennifer	222	Linda	Maria
2	Michelle	123	Kathleen	Mary
3	Melissa	97	Sharon	Amelia
4	Nicole	94	Carol	Helen
5	Jessica	86	Charlene	Elizabeth

^{1/} A total of 5,148 first names (including variant spellings) was reported for the 18,216 babies born in Hawaii in 1980. There were 2,082 boys' names and 3,066 girls' names.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1980 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 1981

Rank	1981		1969: name
	Name	Column- inches	
1	Lee	195	Lee
2	Wong	172	Wong
3	Young	116	Chun
4	Chang	111	Young
5	Chun	101	Chang
6	Smith	101	Ching
7	Kim	91	Nakamura
8	Ching	89	Smith
9	Nakamura	86	Lum
10	Lum	81	Yamamoto; Johnson.

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1969, p. A-11, and January 29, 1981, p. C-1.

Table 38.-- CHARACTERISTICS OF RESIDENT DEATHS: 1969, 1978, AND 1979

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

Subject	1969	1978	1979
Number of resident deaths	4,056	4,508	4,791
Rate per 1,000 population	5.4	5.0	5.2
Percent on Oahu <u>1/</u>	73.1	73.8	74.5
Males per 100 females <u>1/</u>	161.3	151.8	148.0
Median age (years) <u>1/</u> <u>2/</u>	65.8	68.8	68.7
Number of deaths under 1 year <u>2/</u>	298	185	179
Per 1,000 live births <u>2/</u>	19.0	11.1	10.2
Fetal deaths <u>3/</u>	1,199	7,273	7,700
Per 1,000 deliveries	72	303	305
Fetal deaths, 20 or more weeks gestation <u>2/</u> <u>3/</u> .	215	226	230
Per 1,000 live births <u>2/</u> <u>3/</u>	13.7	13.5	13.1
Standard fetal deaths <u>4/</u>	1,180	1,467	1,683
Elective abortions	19	5,806	6,017
Per 1,000 live births	1.2	347	344

1/ Data for 1969 exclude armed forces.

2/ Data for 1969 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: 1959, 1969, AND 1979

[Place of residence basis. Data for 1959 and 1969 exclude armed forces.]

Cause of death ^{1/}	Number, 1979	Percent distribution			Rate per 100,000 population		
		1979	1969	1959	1979	1969	1959
All causes	4,791	100.0	100.0	100.0	523.8	598.8	542.9
Diseases of the heart ..	1,533	32.0	33.1	32.6	167.6	198.2	177.1
Malignant neoplasms	1,104	23.0	18.4	18.0	120.7	110.5	97.7
Cerebrovascular diseases	369	7.7	8.7	8.2	40.3	51.9	44.3
All accidents	332	6.9	5.9	5.0	36.3	35.4	27.4
Influenza and pneumonia	158	3.3	5.0	3.7	17.3	29.8	19.9
Diabetes mellitus	128	2.7	3.0	2.6	14.0	17.8	13.9
Suicide	128	2.7	1.8	1.3	14.0	11.0	7.0
Perinatal conditions ...	78	1.6	4.1	8.6	8.5	24.4	46.8
Cirrhosis of liver	76	1.6	1.5	1.3	8.3	9.1	7.2
Congenital anomalies ...	61	1.3	2.0	2.6	6.7	12.0	14.0
Homicide and legal intervention	61	1.3	0.8	0.6	6.7	5.1	3.0
Bronchitis, emphysema and asthma	48	1.0	1.8	0.6	5.2	10.7	3.2
All other causes	715	14.9	13.9	14.9	78.2	83.2	81.3

^{1/} The leading causes of death in 1979, listed according to rank.

Source: Hawaii State Department of Health, Statistical Report, 1979, p. 21.

Table 40.-- SHARK ATTACKS: 1880 TO 1980

Years	Total attacks	Fatal attacks
1880 to 1909	6	5
1910 to 1939	8	4
1940 to 1969	27	10
1970 to 1980	11	2

Source: George H. Balazs and Alan K. H. Kam, "A Review of Shark Attacks in the Hawaiian Islands," 'Elepaio, Vol. 41, No. 10, April 1981, pp. 97-106.

Table 41.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1969 TO 1979

Method	1969	1978	1979	Percent distribution		
				1969	1978	1979
All methods	4,214	4,860	5,138	100.0	100.0	100.0
Burial	2,190	2,255	2,322	52.0	46.4	45.2
Cremation	1,542	1,995	2,180	36.6	41.0	42.4
Removal	451	574	582	10.7	11.8	11.3
Entombment	20	21	38	0.5	0.4	0.7
Educational purpose .	2	-	-	0.0	0	0
Other	1	6	5	0.0	0.1	0.1
Unknown	8	9	11	0.2	0.2	0.2

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

Table 42.-- SELECTED LIFE TABLE VALUES: 1975

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	74.03	77.85	1,000	1,000
Age 25	51.36	54.36	966	980
Age 45	32.97	35.32	929	958
Age 65	17.43	17.94	768	863

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1920-1970" (by Chai Bin Park, Robert W. Gardner, and Eleanor C. Nordyke), R & S Report, No. 26, June 1979, p. 27.

Table 43.-- ACUTE CONDITIONS: 1979

Condition	Incidences of condition	Incidence per 100 persons
All acute conditions	1,840,801	209.2
Infective parasitic diseases	124,208	14.1
Respiratory condition	1,221,329	138.7
Upper respiratory	824,385	93.7
Influenza	346,947	39.4
Other respiratory condition ...	49,997	5.7
Digestive system condition	32,894	3.7
Injuries	244,357	27.7
All other acute conditions	218,013	24.7

Source: Hawaii State Department of Health, Statistical Report, 1979, p. 65.

Table 44.-- CHRONIC CONDITIONS: 1979

Selected chronic conditions	Incidences of condition	Incidence per 1,000 persons
Heart condition	18,437	20.9
Impairments of back or spine	30,453	34.6
Hypertension without heart involvement	58,783	66.8
Arthritis/rheumatism	23,028	26.2
Hearing impairment	22,960	26.1
Asthma with or without hayfever	32,149	36.5
Diabetes	19,408	22.1
Mental and nervous condition	8,459	9.6
Visual impairment	9,201	10.5
Malignant neoplasms	5,380	6.1
Chronic and allergic skin conditions ..	21,057	23.9
Chronic sinusitis	17,629	20.0
Hayfever without asthma	47,890	54.4
Stomach ulcer	7,288	8.3
Bronchitis/emphysema	8,068	9.2
Benign and unspecified neoplasms	6,005	6.8
Hemorrhoids	10,859	12.3
Thyroid/goiter	4,564	5.2
Varicose veins	3,679	4.2
Gout	9,984	11.3

Source: Hawaii State Department of Health, Statistical Report, 1979, p. 57.

Table 45.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE
CONDITIONS: 1979

Type of limitation	Number
Persons with one or more chronic conditions	305,893
No limitation of activity	250,741
Limited, but not in major activity	24,115
Limited in amount or kind of activity	20,136
Unable to carry on major activity	10,901
Restricted days in past 12 months <u>1/</u>	14,570,930
Per person <u>2/</u>	16.6
Bed days in past 12 months	4,530,957
Per person <u>2/</u>	5.1
Work days lost by persons 17 years of age and older in past 12 months	2,155,186
Per employed person 17 years and older <u>2/</u>	5.5
School days lost by persons 6 to 16 years of age in past 12 months	744,402
Per pupil 6 to 16 years of age <u>2/</u>	4.4

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: State Department of Health, Statistical Report, 1979, pp. 64, 68 and 69.

Table 46.-- SPECIFIED COMMUNICABLE DISEASES: 1969, 1978, AND 1979

Disease	Cases			Deaths		
	1969	1978	1979	1969	1978	1979
All reportable diseases ..	11,558	11,079	11,957	44	16	30
Chickenpox	1,655	685	835	-	-	2
Gonorrhea	996	3,409	4,373	-	-	-
Hepatitis, infect. and serum ..	144	253	242	4	2	1
Influenza	1,391	352	464	6	-	6
Leprosy	9	31	33	2	1	1
Measles (Rubeola)	53	9	68	-	-	-
Measles, German (Rubella)	1,129	13	16	-	-	-
Meningitis, all types	68	94	141	6	4	6
Mumps	627	38	117	-	-	-
Salmonellosis	463	485	406	-	-	-
Scarlet fever, other strep. ...	4,069	4,959	4,348	-	-	-
Syphilis	87	105	196	-	-	-
Tuberculosis	306	290	311	18	8	14
All others	561	356	407	8	1	-

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

Table 47.-- LEPROSY PATIENTS REGISTERED: 1975 TO 1979

Subject	1975	1976	1977	1978	1979
Patients on register, Dec. 31 ..	405	421	421	437	458
Medically released	400	417	417	434	458
At home	264	284	288	304	328
Kalaupapa	135	131	128	127	124
Hale Mohalu or Leahi	1	2	1	3	6
Not medically released	5	4	4	3	-
Net annual increase	12	16	-	16	21
New cases added	30	34	27	31	33
Cases returned to register ...	5	6	3	2	2
Deaths	11	6	5	5	5
Left the State	10	15	14	10	1
Discharged	2	3	11	2	8

Source: Hawaii State Department of Health, Statistical Report, 1979, p. 89.

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: 1979

Island	Number of hospitals	Licensed beds	Admissions <u>1/</u>	Average daily census <u>2/</u>	Average length of stay <u>2/</u> (days)	Average daily percent occupancy <u>2/</u>
State <u>3/</u>	25	2,850	132,381	2,030.8	5.6	71.3
Oahu <u>3/</u>	13	2,253	110,387	1,754.1	5.8	(NA)
Civilian only <u>4/</u> ..	12	1,733	73,954	1,337.2	6.6	77.2
Hawaii	5	265	10,447	114.5	4.0	43.2
Kauai	3	143	4,634	71.1	5.6	49.7
Maui	2	158	6,400	87.7	5.0	55.5
Molokai	1	25	439	2.8	2.3	11.2
Lanai	1	6	74	0.6	2.9	1.0

NA Not available.

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

2/ Estimated (except Hawaii and Molokai).

3/ Includes Tripler Army Medical Center.

4/ Excludes Tripler.

Source: Hawaii State Health Planning and Development Agency, Hawaii Inpatient Utilization 1975-79 and Projections for 1980-85, Hawaii Inpatient Facilities Utilization Working Paper #1 (November 1980).

Table 51.-- SKILLED NURSING, INTERMEDIATE CARE AND SPECIAL TREATMENT FACILITIES, CARE HOMES, AND BEDS, BY ISLANDS: 1979

[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 ..	348	49	22	14	263
Oahu	274	29	15	10	220
Hawaii	24	8	2	1	13
Kauai	28	5	3	3	17
Lanai	2	2	-	-	-
Maui	16	4	2	-	10
Molokai	4	1	-	-	3
NUMBER OF BEDS					
State total ..	5,160	3,185	531	453	991
Oahu	3,974	2,304	453	386	831
Hawaii	482	400	22	14	46
Kauai	267	121	29	53	64
Lanai	8	8	-	-	-
Maui	411	346	27	-	38
Molokai	18	6	-	-	12

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

2/ Five or more beds.

3/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1979, pp. 138-140.

Table 52.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1977 TO 1979

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
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

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

Table 53.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1976 TO 1981

[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
1976	235	1,008	484	273	232
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

1/ Year ended June 30.

Source: Hawaii State Hospital, records.

Table 54.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1976 TO 1981

[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	
1976	754	10	602	587	546
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

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 55.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF RESIDENCE: MARCH 6, 1981

Place of residence	Physicians and surgeons <u>1/</u>	Dentists	Regis- tered nurses	Pharma- cists
Total licensed	2,836	831	8,158	600
Hawaii residents ...	1,781	627	6,024	384
Hawaii	125	54	502	30
Maui	109	29	398	29
Lanai	5	1	12	0
Molokai	4	4	27	2
Oahu	1,476	519	4,864	304
Kauai	62	20	221	19
Niihau	-	-	-	-
Nonresidents	1,055	204	2,134	216

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 56.-- 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 ^{1/}	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
Times visited in past 12 months:					
None	247,773	82,186	88,207	58,573	44,695
1	205,081	74,430	68,016	41,523	17,912
2	185,438	75,217	65,186	33,140	11,550
3	62,738	20,937	23,572	14,738	3,491
4	39,981	11,739	16,033	6,794	5,415
5 or more	53,698	14,893	22,840	11,376	4,245
1 or more, unspecified	19,205	9,350	3,330	3,908	2,617
Unknown	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: ^{2/}					
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

Continued on next page.

Table 56.-- DENTAL CARE, BY AGE GROUP: 1979 -- Continued

[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
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 57.-- MARRIAGES AND DIVORCES: 1970 TO 1980

[Place of occurrence basis.]

Calendar year	Marriages	Divorces and annulments <u>1/</u>	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces <u>1/</u>	Resident groomers	Inter-racial
1970 ...	10,599	2,589	13.7	3.3	69.3	33.7
1971 ...	9,734	3,691	12.2	4.6	77.3	38.7
1972 ...	9,750	3,891	11.9	4.7	81.3	38.6
1973 ...	9,776	4,170	11.6	5.0	84.7	40.6
1974 ...	9,649	4,111	11.2	4.8	84.6	40.1
1975 ...	9,673	4,265	11.0	4.9	84.4	39.6
1976 ...	9,769	4,712	10.9	5.3	82.4	38.8
1977 ...	10,266	4,601	11.2	5.0	79.3	37.5
1978 ...	10,736	4,837	11.4	5.2	77.7	37.9
1979 ...	11,678	5,055	12.2	5.3	78.1	38.2
1980 ...	11,856	4,438	12.2	4.6	77.4	37.6

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.

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.

Table 58.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1969, 1978, AND 1979

[Place of occurrence basis.]

Subject	1969	1978	1979
MARRIAGES			
Number	9,891	10,736	11,678
Percent on Oahu	86.9	73.0	73.3
Percent Hawaii residents:			
Both bride and groom	64.7	75.2	75.6
One partner only	10.0	5.3	5.1
Neither bride nor groom	25.3	19.4	19.3
Median age (years):			
Groom	24.4	27.9	27.9
Bride	22.8	25.3	25.5
Percent previously married:			
Groom	20.4	36.5	35.5
Bride	21.4	35.3	35.0
DIVORCES AND ANNULMENTS			
Number <u>1</u> /	2,314	4,837	5,055
Divorces	2,286	4,821	5,042
Annulments	28	10	11
Percent occurring on Oahu	86.9	81.8	80.7
Percent nonresident:			
Husband	12.2	12.4	12.9
Wife	12.3	11.8	12.9
Neither partner	74.3	75.9	74.3
Median age (years):			
Husband	34.8	32.3	32.6
Wife	31.5	29.6	29.9
Percent interracial <u>2</u> /	37.2	38.6	37.2
Percent with children under 18 years	64.0	54.7	55.0
Median years married	7.6	5.7	6.0

1/ Includes unspecified type of decree (6 in 1978 and 2 in 1979).

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

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

Table 59.-- AGE DIFFERENCES IN MARRIAGE AND DIVORCE: 1979

[For events occurring in Hawaii, regardless of residence of partners.]

Age difference	Marriages			Divorces	
	Total	First <u>1/</u>	Others	Number	Ratio <u>2/</u>
Total	11,678	6,114	5,564	5,055	43.3
Man older:					
20 years or more .	225	22	203	96	42.7
10 to 19 years ...	1,140	193	947	353	31.0
5 to 9 years	2,175	940	1,235	838	38.5
1 to 4 years	4,230	2,849	1,381	2,080	49.2
Both same age	1,228	905	323	616	50.2
Woman older:					
1 to 4 years	1,869	1,005	864	707	37.8
5 to 9 years	607	172	435	188	31.0
10 years or more .	204	28	176	65	31.9
Not available	-	-	-	112	...
Median difference <u>3/</u>	3.5	2.7	5.1	3.2	...

1/ First marriage for both partners.

2/ Divorces per 100 marriages.

3/ Absolute difference, in years.

Source: Hawaii State Department of Health, records.

Table 60.-- MARRIAGES, BY TYPE OF CEREMONY: 1978 AND 1979

Year married and residence, race, and previous marital status of bride and groom	Type of ceremony				
	All types	Civil	Religious	Not stated	Percent civil
Total marriages	22,414	7,584	14,824	6	33.8
1978	10,736	3,573	7,160	3	33.3
1979	11,678	4,011	7,664	3	34.3
Both Hawaii residents	16,896	6,007	10,883	6	35.6
Bride only	621	165	456	-	26.6
Groom only	559	262	297	-	46.9
Both nonresidents	4,338	1,150	3,188	-	26.5
Resident marriages <u>1/</u> .	18,076	6,434	11,636	6	35.6
Unmixed marriages	9,861	3,407	6,451	3	34.6
Interracial marriages	8,215	3,027	5,185	3	36.8
First marriage for both	10,570	3,186	7,379	5	30.1
First for bride	2,184	854	1,330	-	39.1
First for groom	2,192	988	1,204	-	45.1
Remarriage for both	3,130	1,406	1,723	1	44.9

1/ Excludes marriages in which both partners are nonresidents.

Source: Hawaii State Department of Health, records.

Table 61.-- 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
1979	(NA)	(NA)	7.3	7.1

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 1979 (pp. 14-15).

Table 62.-- NUTRITION OF STUDENTS, BY GRADE LEVEL: 1979

Subject	Elementary school		Junior high school		Senior high school	
	Male	Female	Male	Female	Male	Female
Students in sample	170	159	145	137	164	115
Mean age (years)	10		13		16	
Mean weight (lb.)	62		99	101	145	120
Mean height (in.)	52		62	62	69	64
Mean daily intake						
Protein (g.)	88	75	104	77	117	74
Vitamin A (R.E.) ^{1/}	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 ^{2/} (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 ^{2/}	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.