

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 75.04 years for males and 81.45 years for females. The crude death rate in 1982 was only 5.5 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 8.9 in 1982. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. The 1982 crude birth rate was 18.9 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 1982, and more than one-fifth were born to military couples. One out of six births was illegitimate. There were 8,278 fetal deaths in 1981, including 6,617 elective abortions. Marriages numbered 13,483 in 1982, with about 25 percent accounted for by nonresidents. Divorces reached a 1982 total of 4,233. The State had 25 acute care civilian hospitals (with 2,925 beds), 34 long-term care facilities (with 2,670 beds), nine specialty care facilities (with 893 beds) and 292 care homes (with 1,555 beds) in 1981. There were 1,862 physicians and surgeons, 724 dentists, 6,478 professional nurses, and 411 pharmacists licensed and living in Hawaii as of January 1983. Acute conditions per 100 persons numbered 224 in 1982, with respiratory conditions the most common complaint (at 156 cases per 100 persons). Among chronic conditions reported in the 1982 survey data, the most frequently mentioned were hypertension without heart involvement (7.1 per 100 persons), hay fever (4.8), and impairments of the back or spine (4.7). The most common communicable disease reported to authorities in 1981 was scarlet fever, with 4,348 cases. State mental health facilities served 10,689 patients in 1981, but the number of in-patients at the end of the year was only 408. Dental health was only fair: according to a 1979 survey, 275,000 residents had not visited a dentist within the previous year, and 176,000 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: 1982-83 contain similar data for the nation as a whole.

Table 42.-- BIRTHS AND DEATHS: 1970 TO 1982

[Place of occurrence basis.]

Calendar year	Births	Deaths <u>1/</u>	Rates per 1,000 resident population		Rates per 1,000 live births		
			Births	Deaths <u>1/</u>	Illegitimate births	Fetal deaths <u>2/</u>	Infant deaths <u>3/</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
1982 ...	18,735	5,495	18.9	5.5	186.3	12.7	8.9

1/ Includes armed forces.

2/ 20 weeks gestation and over. Includes elective abortions.

3/ Under 1 year of age.

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

Table 43.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:
1970 TO 1982

[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
1982	18,735	-	18,735	4,007	14,728	4,007
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	155	5,041	228
1982	5,495	74	5,421	161	5,260	235
Birth rate: 1/						
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

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Table 43.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:
1970 TO 1982 - Con.

Subject	All groups	Armed forces	Civilians			Armed forces and dependents
			All ci- vilians	Military depend- ents	Other civilians	
Birth rate						
— Con.: 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
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
1982	17.3	0	18.2	60.1	15.3	33.0
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	5.0	1.3	5.2	2.4	5.3	1.9
1982	5.1	1.3	5.3	2.4	5.5	1.9

1/ Per 1,000 de facto population.

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 44.-- 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 44.-- 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 45.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1971, 1980, AND 1981

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

Subject	1971	1980	1981
Number of resident births	15,780	18,129	18,174
Rate per 1,000 population	20.1	18.6	18.5
Percent on Oahu	82.9	77.7	76.7
Percent attended by M.D. in hospital 1/	99.4	98.5	98.4
Males per 100 females	107.4	107.0	105.8
Median weight of single births (grams) 1/	3,242	3,280	3,283
Percent premature (under 2,500 grams) 1/	7.8	6.4	6.1
Percent single births under 40 weeks gestation .	(NA)	50.7	49.7
Percent plural 1/	1.5	1.6	1.7
Percent with 1 or more congenital malformations 1/	1.1	1.0	0.9
Percent illegitimate	8.8	17.6	18.2
Percent with prenatal visit in first three months 1/	62.9	76.5	76.9
Percent first child born to mother 1/	38.4	32.8	33.0
Percent first child born alive to mother	(NA)	42.8	43.2
Median age of mothers (years) 1/	24.9	26.0	26.1
Median age of known fathers (years) 1/	27.9	28.8	28.8

NA Not available.

1/ Data for 1971 are on a place of occurrence basis.

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

Table 46.-- BIRTHS, MIXED AND UNMIXED: 1956 TO 1982

[By place of occurrence through 1973 and place of mother's residence thereafter. Based on data for 7 specified races through 1962, 9 for 1963-1977, 11 for 1978-1981, and 18 for 1982.]

Calendar year	Total births	Unmixed births	Mixed births <u>1/</u>	Not certain <u>2/</u>	Percent distribution		
					Unmixed	Mixed <u>1/</u>	Not certain <u>2/</u>
1956 <u>3/</u>	17,122	10,844	5,703	575	63.3	33.3	3.4
1957 ...	17,040	10,462	5,977	601	61.4	35.1	3.5
1958 ...	16,710	10,157	5,917	636	60.8	35.4	3.8
1959 ...	17,050	10,144	6,183	723	59.5	36.3	4.2
1960 ...	17,193	10,082	6,379	732	58.6	37.1	4.3
1961 ...	17,558	10,142	6,561	855	57.8	37.4	4.9
1962 ...	17,932	10,085	6,803	1,044	56.2	37.9	5.8
1963 ...	17,744	10,267	6,809	668	57.9	38.4	3.8
1964 ...	17,284	9,923	6,681	680	57.4	38.7	3.9
1965 ...	16,259	9,097	6,467	695	56.0	39.8	4.3
1966 ...	14,943	7,905	6,289	749	52.9	42.1	5.0
1967 ...	14,765	7,850	6,149	766	53.2	41.6	5.2
1968 ...	14,595	7,721	5,927	947	52.9	40.6	6.5
1969 ...	15,690	8,203	6,463	1,024	52.3	41.2	6.5
1970 ...	16,467	8,744	6,799	924	53.1	41.3	5.6
1971 ...	15,845	8,479	6,573	793	53.5	41.5	5.0
1972 ...	15,413	8,195	6,443	775	53.2	41.8	5.0
1973 ...	15,358	7,922	6,559	877	51.6	42.7	5.7
1974 ...	15,472	7,989	6,654	829	51.6	43.0	5.4
1975 ...	15,689	8,007	6,726	956	51.0	42.9	6.1
1976 ...	16,292	8,118	7,199	975	49.8	44.2	6.0
1977 ...	16,874	8,130	7,727	1,017	48.2	45.8	6.0
1978 ...	16,717	7,905	7,732	1,080	47.3	46.3	6.5
1979 ...	17,513	8,081	8,267	1,165	46.1	47.2	6.7
1980 ...	18,129	8,281	8,586	1,262	45.7	47.4	7.0
1981 ...	18,174	7,965	8,914	1,295	43.8	49.0	7.1
1982 ...	18,675	8,570	9,107	998	45.9	48.8	5.3

Footnotes and source follow next table.

Table 47.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1982

[Based on data for 18 specified races.]

Military status of father	Total births	Unmixed	Mixed <u>1/</u>			Not certain <u>2/</u>
			Total	Part Haw'n	Not Haw'n	
All groups	18,675	8,570	9,107	5,556	3,551	998
Military	3,998	2,959	1,039	273	766	-
Civilian	12,916	5,611	7,303	4,518	2,785	2
Not reported	1,761	-	765	765	-	996
PERCENT DISTRIBUTION						
All groups	100.0	45.9	48.8	29.8	19.0	5.3
Military	100.0	74.0	26.0	6.8	19.2	0
Civilian	100.0	43.4	56.5	35.0	21.6	0.0
Not reported	100.0	0	43.4	43.4	0	56.6

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

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

3/ Earliest year available.

Source: Hawaii State Department of Health, Statistical Report (annual) and special tabulation of 1982 data.

Table 48.-- MOST COMMON NAMES ON BIRTH CERTIFICATES: 1909-1914,
1950, AND 1982

Sex and rank	1982 ^{1/}		1950	1909-1914
	Name	Number		
Boys' names:				
1	Christopher	266	John	John
2	Michael	255	Michael	William
3	David	198	Robert	George
4	Jason	186	William	Antonio
5	Justin	160	Dennis	Joseph
Girls' names:				
1	Jennifer	222	Linda	Maria
2	Jessica	135	Kathleen	Mary
3	Nicole	108	Sharon	Amelia
4	Crystal	100	Carol	Helen
5	Melissa	87	Charlene	Elizabeth

^{1/} A total of 5,293 first names (including variant spellings) was reported for the 18,734 babies born in Hawaii in 1982.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1982 records; Bob Krauss, "Today's lesson: the name game," Honolulu Advertiser, September 14, 1979, p. A-3.

Table 49.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE
DIRECTORY: 1969 AND 1983

Rank	1983		1969: name
	Name	Columns	
1	Lee	19.5	Lee
2	Wong	16.5	Wong
3	Young	11.5	Chun
4	Chang	10.5	Young
5	Chun	9.5	Chang
6	Smith	8.75	Ching
7	Ching	8.5	Nakamura
8	Kim	8.33	Smith
9	Lum	7.75	Lum
10	Nakamura	7.5	Yamamoto; Johnson .

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1969, p. A-11, and January 19, 1983, p. A-3.

Table 50.-- CHARACTERISTICS OF RESIDENT DEATHS: 1971, 1980, AND 1981

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

Subject	1971	1980	1981
Number of resident deaths <u>1/</u>	4,107	4,903	4,927
Rate per 1,000 population <u>1/</u>	5.6	5.0	5.1
Percent on Oahu <u>1/</u>	73.1	75.0	74.2
Males per 100 females <u>1/</u>	154.9	154.4	155.5
Median age (years) <u>1/</u> , <u>2/</u>	66.0	69.2	70.0
Number of deaths under 1 year	249	183	178
Per 1,000 live births	15.8	10.1	9.8
Fetal deaths <u>3/</u>	5,696	<u>6/</u> 8,112	8,278
Per 1,000 deliveries <u>3/</u>	265	<u>6/</u> 309	313
Fetal deaths, 20 or more weeks gestation <u>3/</u> , <u>4/</u>	372	<u>6/</u> 278	238
Per 1,000 live births <u>4/</u>	23.4	<u>6/</u> 15.3	13.1
Standard fetal deaths <u>5/</u>	1,561	<u>6/</u> 1,716	1,661
Elective abortions	4,135	<u>6/</u> 6,396	6,617
Per 1,000 live births	262	<u>6/</u> 353	364

1/ Data for 1971 exclude armed forces.

2/ Data for 1971 are on a place of occurrence basis.

3/ Includes elective abortions.

4/ Data are on a place of occurrence basis.

5/ Excludes elective abortions.

6/ Corrected from Data Book 1982, table 38, p. 63.

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

Table 51.-- CAUSE OF DEATH: 1961, 1971, AND 1981

[Place of residence basis. Data for 1961 and 1971 exclude armed forces.]

Cause of death <u>1/</u>	Number, 1981	Percent distribution			Rate per 100,000 resident population		
		1981	1971	1961	1981	1971	1961
All causes	4,927	100.0	100.0	100.0	502.2	583.5	549.6
Diseases of the heart ..	1,611	32.7	34.3	32.3	164.2	200.4	177.6
Malignant neoplasms	1,213	24.6	18.0	16.8	123.6	105.1	92.1
Cerebrovascular diseases	365	7.4	10.0	9.2	37.2	58.6	50.8
All accidents	287	5.8	6.5	5.9	29.3	37.8	32.5
Influenza and pneumonia	156	3.2	4.0	4.8	15.9	23.3	26.1
Diabetes mellitus	127	2.6	2.9	3.0	12.9	16.9	16.3
Suicide	87	1.8	2.3	1.6	8.9	13.2	8.7
Perinatal conditions ...	87	1.8	3.1	7.5	8.9	18.0	41.5
Congenital anomalies ...	80	1.6	1.9	2.3	8.2	11.0	12.7
Cirrhosis of liver	70	1.4	2.1	1.3	7.1	12.2	7.2
Other circulatory diseases	52	1.1	1.1	2.7	5.3	6.5	14.9
Homicide and legal intervention	47	1.0	0.8	0.4	4.8	4.6	2.0
All other causes	759	15.0	13.0	12.2	77.4	75.9	67.2

1/ The leading causes of death in 1981, listed according to rank.

Source: Hawaii State Department of Health, Statistical Report, 1981, p. 23.

Table 52.-- CATASTROPHIC MORTALITY: 1977 TO 1983

[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
1983: June 16	Honopu, Kauai	Airplane crash	14

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 53.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1971, 1980, AND 1981

Method	1971	1980	1981	Percent distribution		
				1971	1980	1981
All methods	4,350	5,204	5,269	100.0	100.0	100.0
Burial	2,243	2,343	2,284	51.6	45.0	43.3
Cremation	1,618	2,241	2,342	37.2	43.1	44.4
Removal	451	567	613	10.4	10.9	11.6
Entombment	31	44	23	0.7	0.8	0.4
Educational purpose .	5	-	-	0.1	0	0
Other	2	1	-	0.0	0.0	0
Unknown	-	8	7	0	0.2	0.1

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

Table 54.-- SELECTED LIFE TABLE VALUES: 1980

Exact age in years (x)	Average expectation of life in years (e_x)			Number surviving to specified age per 100,000 born alive (l_x)		
	Both sexes	Male	Female	Both sexes	Male	Female
0 ^{1/}	78.02	75.04	81.45	100,000	100,000	100,000
1	77.81	74.90	81.15	99,001	98,870	99,147
5	73.97	71.08	77.27	98,796	98,617	98,997
15	64.12	61.26	67.40	98,579	98,358	98,824
25	54.66	51.99	57.50	97,674	97,095	98,350
35	45.14	42.61	48.00	96,741	95,810	97,791
45	35.81	33.40	38.53	95,125	93,806	96,582
55	27.12	25.05	29.50	91,142	88,554	93,788
65	19.19	17.50	21.11	83,153	78,637	87,879
75	12.23	11.02	13.40	67,037	60,056	75,343
85	7.20	6.54	7.68	39,284	31,099	49,188
95	3.97	3.70	4.12	9,639	5,492	14,464

^{1/} For the entire United States, expectation of life at birth in 1980 was 73.8 years for males and females combined, 70.0 for males, and 77.7 for females; see U.S. Department of Health and Human Services, National Center for Health Statistics, "Annual Summary of Births, Deaths, Marriages, and Divorces: United States, 1981," NCHS Monthly Vital Statistics Report, Vol. 30, No. 13, December 20, 1982, pp. 3-4.

Source: Robert W. Gardner, Life Tables for Hawaii, 1980 (East-West Population Institute, July 1983).

Table 55.-- ACUTE CONDITIONS: 1982

Condition	Incidence of condition per year	Conditions per 111 persons per year
All acute conditions	2,141,939	224.1
Infective parasitic diseases	147,634	15.4
Respiratory condition	1,494,118	156.3
Upper respiratory	1,112,298	115.9
Influenza	391,113	41.8
Other respiratory condition ...	91,617	9.6
Digestive system condition	31,243	3.3
Injuries	212,739	21.2
All other acute conditions	266,315	27.9

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 56.-- CHRONIC CONDITIONS: 1982

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition	22,178	23.2
Impairments of back or spine	44,646	46.7
Hypertension without heart involvement	67,620	70.7
Arthritis/rheumatism	29,312	30.7
Hearing impairment	30,139	31.5
Asthma with or without hayfever	35,441	37.1
Diabetes	18,590	19.4
Mental and nervous condition	16,956	17.7
Visual impairment	12,015	12.6
Malignant neoplasms	6,060	6.3
Chronic and allergic skin conditions ..	28,770	30.1
Chronic sinusitis	27,717	29.0
Hayfever without asthma	45,792	47.9
Stomach ulcer	6,248	6.5
Bronchitis/emphysema	15,459	16.2
Benign and unspecified neoplasms	6,539	6.8
Hemorrhoids	16,969	17.7
Thyroid/goiter	5,450	5.7
Varicose veins	10,948	11.5
Gout	10,072	10.5

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 57.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE
CONDITIONS: 1982

Type of limitation	Number
Persons with one or more chronic conditions	352,492
No limitation of activity	289,308
Limited, but not in major activity	27,726
Limited in amount or kind of activity	22,234
Unable to carry on major activity	13,224
Restricted days in past 12 months <u>1/</u>	12,383,934
Per person <u>2/</u>	13.0
Bed days in past 12 months	4,272,937
Per person <u>2/</u>	4.5
Work days lost by persons 17 years of age and older in past 12 months	2,090,050
Per employed person 17 years and older <u>2/</u>	5.3
School days lost by persons 6 to 16 years of age in past 12 months	609,665
Per pupil 6 to 16 years of age <u>2/</u>	3.6

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, Hawaii Health Surveillance Survey Program, special tabulation.

Table 58.-- SPECIFIED COMMUNICABLE DISEASES: 1971, 1980, AND 1981

Disease	Cases			Deaths		
	1971	1980	1981	1971	1980	1981
All reportable diseases ..	16,171	12,270	11,438	26	30	19
Chickenpox	1,468	926	809	-	-	-
Gonorrhoea	1,976	4,383	4,289	-	-	-
Hepatitis, infect. and serum ..	298	232	247	1	8	2
Influenza	3,287	118	96	-	2	1
Leprosy	33	34	49	-	-	2
Measles (Rubeola)	532	6	7	-	-	-
Measles, German (Rubella)	187	5	15	-	-	-
Meningitis, all types	52	195	225	1	6	6
Mumps	937	24	26	-	-	-
Salmonellosis	522	405	513	2	-	-
Scarlet fever, other strep. ...	5,683	5,102	4,348	-	-	-
Syphilis	83	225	141	-	-	-
Tuberculosis	329	127	197	21	14	7
All others	784	488	476	1	-	1

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

Table 59.-- LEPROSY PATIENTS REGISTERED: 1979 TO 1981

Subject	1979	1980	1981
Patients on register, Dec. 31 ..	458	474	506
Medically released	458	474	506
At home	328	349	385
Kalaupapa	124	119	115
Hale Mohalu or Leahi	6	6	6
Not medically released	-	-	-
Net annual increase	21	16	32
New cases added	33	34	49
Cases returned to register ...	2	3	4
Deaths	5	8	6
Left the State	1	4	1
Discharged	8	9	14

Source: Hawaii State Department of Health, Statistical Report, 1981, p. 107.

Table 60.-- 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 61.-- 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 62.-- CHARACTERISTICS OF ACUTE AND LONG TERM CARE
HOSPITALS: BY ISLANDS: 1980

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total <u>1/</u> , <u>2/</u>	117,404	2,046.6	6.4	70.9
Oahu <u>2/</u>	93,838	1,763.0	6.9	<u>4/</u> 76.4
Civilian only <u>3/</u> ...	75,875	1,342.2	6.5	<u>4/</u> 77.1
Hawaii	11,599	121.8	3.8	46.0
Kauai	4,633	65.9	5.2	48.7
Maui	<u>4/</u> 6,885	<u>4/</u> 92.7	<u>4/</u> 4.9	<u>4/</u> 63.6
Molokai	426	3.1	2.7	20.8
Lanai	23	0.1	2.3	2.5
LONG TERM CARE				
State total <u>1/</u> ...	2,653	2,390.9	328.9	90.0
Oahu	1,605	1,591.1	362.8	91.4
Hawaii	567	371.6	239.8	92.9
Kauai	173	114.7	242.7	94.8
Maui	<u>4/</u> 296	<u>4/</u> 301.4	<u>4/</u> 317.7	89.2
Molokai	7	5.6	409.2	46.6
Lanai	5	6.5	342.3	81.8

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

2/ Includes Tripler Army Medical Center.

3/ Excludes Tripler.

4/ Estimated by Hawaii State Health Planning and Development Agency.

Source: Hawaii State Department of Health, Statistical Report 1981, pp. 80-83, and Statistical Report, 1980, p. 77.

Table 63.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: 1981

[Except for Tripler Army Medical Center, data are for facilities regulated and licensed by the Hospital and Medical Facilities Branch of the Hawaii State Department of Health and recognized by the Hawaii State Health Planning and Development Agency.]

Category and island	All facilities	Acute care <u>1/</u>	Long term care	Specialty care	Care homes	
					Residential <u>2/</u>	Family <u>3/</u>
NUMBER OF FACILITIES						
State total ..	360	25	34	9	14	278
Oahu	282	12	21	6	9	234
Hawaii	29	5	6	-	1	17
Kauai	25	3	3	1	3	15
Maui	16	3	2	1	-	10
Molokai	6	1	1	1	1	2
Lanai	2	1	1	-	-	-
NUMBER OF BEDS						
State total ..	8,043	2,925	2,670	893	500	1,055
Oahu	6,276	2,346	1,785	850	412	883
Hawaii	740	265	406	-	13	56
Kauai	397	143	121	11	61	61
Maui	543	150	338	8	-	47
Molokai	73	15	12	24	14	8
Lanai	14	6	8	-	-	-

1/ Includes Tripler Army Medical Center which had a bed capacity of 566.

2/ Five or more beds.

3/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1981, pp. 79, 80 and 158.

Table 64.-- 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 65.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1977 TO 1982

Year	Patients active, end of period			Admissions		Termina- tions	Patients served (undup.)
	Total	In- patients	Out- patients	Total	Undupli- cated		
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
1981 ..	6,642	408	6,213	4,947	4,474	5,062	10,689
1982 ..	6,287	336	5,951	4,885	4,163	5,155	10,312

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

Table 66.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1978 TO 1983

[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
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
1983	220	1,070	445	239	243

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

Table 67.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1978 TO 1983

[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	
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
1983	426	10	365	375	613

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 68.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: JANUARY 13, 1983

Place of residence	Physicians and surgeons <u>1/</u>	Dentists	Regis- tered nurses	Pharma- cists
Total licensed	2,965	958	9,241	665
Hawaii addresses ...	1,862	724	6,478	411
Hawaii	141	56	540	38
Maui	120	38	454	33
Lanai	3	1	12	0
Molokai	6	8	27	3
Oahu	1,521	588	5,186	320
Kauai	71	33	259	17
Niihau	-	-	-	-
Out of State	1,103	234	2,763	254

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

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 69.-- 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 70.-- EXPENDITURES BY CIVILIAN FAMILIES AND INDIVIDUALS FOR
HEALTH SERVICES: 1978-1979

[Annual out-of-pocket expenses.]

Service	Percent utilizing service		Average expense 1/ (dollars)		Median expense 1/ (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 and S Report, No. 36, October 1981), pp. 24, 28, 31, 34, 37, 40, 43, 46, and 49.

Table 71.-- PERSONAL HEALTH CARE EXPENDITURES: 1976 TO 1978

[In millions of dollars. Covers all expenditures for health services and supplies, except net cost of insurance and administration, government public health activities, and expenditures of philanthropic agencies for fund raising activities.]

Year and object of expenditure	Amount
1976, total	536
1977, total	619
1978, total	691
Hospital care	258
Physicians' services	204
Dentists' services	72
Drugs and medical sundries	64
Nursing home care	29
All other	64

Source: U. S. Health Care Financing Administration, Health Care Financing Review, December 1982, as cited in Statistical Abstract of the United States: 1982-83, p. 103.

Table 72.-- 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 73.-- MARRIAGES AND DIVORCES: 1970 TO 1982

[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>	Nonresident <u>2/</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
1982 ...	13,483	4,233	13.6	4.3	25.4	35.7

NA Not available.

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

2/ Both partners nonresidents of Hawaii.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R and S Report, No. 5 (June 1974); Annual Report, Statistical Supplement for 1970-1981 and records.

Table 74.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1971, 1980, AND 1981

[Place of occurrence basis.]

Subject	1971	1980	1981
MARRIAGES			
Number	9,734	11,856	12,218
Percent on Oahu	81.9	73.2	70.9
Percent Hawaii residents:			
Both bride and groom	73.6	75.1	72.5
One partner only	9.6	4.6	4.8
Neither bride nor groom	16.7	20.4	22.7
Median age (years):			
Groom	25.5	28.1	28.3
Bride	23.4	25.8	26.0
Percent previously married:			
Groom	25.9	34.6	35.6
Bride	24.7	34.5	34.8
DIVORCES AND ANNULMENTS			
Number <u>1/</u>	3,691	4,438	4,253
Divorces	3,659	4,423	4,235
Annulments	32	14	18
Percent occurring on Oahu	85.9	77.7	76.0
Percent nonresident:			
Husband	11.1	<u>3/</u> 11.6	11.7
Wife	11.7	12.4	12.8
Neither partner	77.2	<u>3/</u> 76.0	75.6
Median age (years):			
Husband	33.3	33.0	33.2
Wife	29.9	30.4	30.6
Percent interracial <u>2/</u>	36.1	39.3	40.3
Percent with children under 18 years	68.4	<u>3/</u> 54.8	54.1
Median years married	7.1	6.0	6.1

1/ Includes unspecified type of decree.

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

3/ Corrected from Data Book 1982, table 61, p. 81.

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

Table 75.-- MARRIAGES, MIXED AND UNMIXED, BY RESIDENCE STATUS OF PARTNERS: 1981

[Data refer to marriages occurring in Hawaii.]

Residence status	Ethnic stock of bride and groom <u>1/</u>				
	Total	Same	Different	Not re-ported <u>2/</u>	Percent differ-ent <u>3/</u>
All marriages	12,218	7,715	4,405	98	36.3
Resident marriages <u>4/</u>	9,445	5,194	4,157	94	44.5
Nonresident marriages <u>5/</u>	2,773	2,521	248	4	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 76.-- MARRIAGES OCCURRING IN HAWAII, BY TYPE OF CEREMONY: 1978 TO 1981

Year and residence status	All mar-riages	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
1981	12,218	4,222	7,995	1	34.6
Residence status: 1981					
Resident marriages <u>1/</u>	9,445	3,575	5,869	1	37.9
Nonresident marriages <u>2/</u> ..	2,773	647	2,126	-	23.3

1/ One or both partners classified as Hawaii residents.

2/ Both partners classified as nonresidents.

Source: Hawaii State Department of Health, special tabulation.

Table 77.-- 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 78.-- 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 79.-- 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 80.-- 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 ^{1/}		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 81.-- 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 82.-- 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 83.-- 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.