

## 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 1983 was only 5.6 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.0 in 1983. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. The 1983 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 1,871 in 1980. Over 98 percent of all babies were born in hospitals in 1983, and more than one-fifth were born to military couples. One out of six births was illegitimate. There were 7,793 fetal deaths in 1982, including 6,175 elective abortions. Marriages numbered 14,062 in 1983, with about 27 percent accounted for by nonresidents. Divorces reached a 1983 total of 4,583. The State had 25 acute care civilian hospitals (with 2,875 beds), 34 long-term care facilities (with 2,668 beds), nine specialty care facilities (with 881 beds) and 295 care homes (with 1,614 beds) in 1982. There were 1,976 physicians and surgeons, 746 dentists, 6,208 professional nurses, and 437 pharmacists licensed and living in Hawaii as of January 1984. Acute conditions per 100 persons numbered 209 in 1983, with respiratory conditions the most common complaint (at 154 cases per 100 persons). Among chronic conditions reported in the 1983 survey data, the most frequently mentioned were hypertension without heart involvement (7.3 per 100 persons), impairments of the back or spine (5.4), and hay fever (5.2). The most common communicable disease reported to authorities in 1983 was scarlet fever, with 4,814 cases. State mental health facilities served 9,946 patients in 1983, but the number of in-patients at the end of the year was only 268. 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: 1984 contain similar data for the nation as a whole.

Table 63.-- BIRTHS AND DEATHS: 1970 TO 1983

[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 ...	18,734	5,495	18.8	5.5	186.3	12.7	8.9
1983 ...	19,164	5,725	18.7	5.6	197.8	11.5	10.0

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 1973-1982; and records.

Table 64.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:  
1970 TO 1983

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians <u>1/</u>			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
1983 .....	19,164	-	19,164	4,093	15,071	4,093
Deaths:						
1970 .....	4,197	72	4,125	103	4,022	175
1971 .....	4,351	47	4,304	108	4,196	155
1972 .....	4,483	50	4,433	111	4,322	161
1973 .....	4,579	70	4,509	115	4,394	185
1974 .....	4,598	49	4,549	108	4,441	157
1975 .....	4,572	83	4,489	98	4,391	181
1976 .....	4,717	67	4,650	99	4,551	166
1977 .....	4,724	76	4,648	93	4,555	169
1978 .....	4,852	80	4,772	85	4,687	165
1979 .....	5,137	85	5,052	86	4,966	171
1980 .....	5,204	69	5,135	82	5,053	151
1981 .....	5,269	73	5,196	83	5,113	156
1982 .....	5,495	74	5,421	86	5,335	160
1983 .....	5,725	97	5,628	85	5,543	182
Birth rate: <u>2/</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

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Table 64.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:  
1970 TO 1983 - Con.

Subject	All groups	Armed forces	Civilians <sup>1/</sup>			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Birth rate						
-- Con.: <sup>2/</sup>						
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
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 .....	17.2	0	18.1	60.1	15.2	33.0
1983 .....	17.1	0	18.0	61.7	15.1	33.7
Death rate: <sup>2/</sup>						
1970 .....	5.2	1.4	5.5	1.8	5.8	1.6
1971 .....	5.2	0.9	5.5	1.7	5.8	1.4
1972 .....	5.2	1.0	5.4	1.7	5.8	1.4
1973 .....	5.1	1.2	5.4	1.6	5.7	1.4
1974 .....	5.0	0.9	5.3	1.6	5.6	1.2
1975 .....	4.9	1.4	5.1	1.5	5.4	1.5
1976 .....	4.9	1.2	5.1	1.5	5.4	1.3
1977 .....	4.8	1.3	5.0	1.4	5.2	1.4
1978 .....	4.8	1.4	5.0	1.4	5.3	1.4
1979 .....	4.9	1.5	5.1	1.3	5.4	1.4
1980 .....	4.9	1.2	5.1	1.3	5.3	1.2
1981 .....	4.9	1.3	5.1	1.3	5.4	1.3
1982 .....	5.1	1.3	5.2	1.3	5.5	1.3
1983 .....	5.1	1.8	5.3	1.3	5.6	1.5

<sup>1/</sup> Deaths and death rates revised from Data Book 1983, table 43.

<sup>2/</sup> Per 1,000 de facto population.

Source: Hawaii State Department of Health, Statistical Report (annual), and records. Deaths of military dependents estimated by DPED from 1970 and 1980 data on the age composition of military dependents, age-specific death rates in those years for the total civilian population, and annual counts of the military dependent population.

Table 65.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

[Military dependents are included in the military category. The 1980 rates have been revised from Data Book 1983, table 44]

Type of rate and military status	1960	1970	1980			
Crude birth rate, all groups <u>1/</u> .....	27.2	21.4	18.8			
Civilian .....	22.9	19.1	16.5			
Military .....	48.8	35.1	35.0			
General fertility rate, all groups <u>2/</u> ....	127.8	96.1	78.7			
Civilian .....	106.2	84.8	68.9			
Military .....	250.5	169.5	147.5			
Total fertility rate, all groups <u>3/</u> .....	3,886.5	2,728.5	2,084.0			
Civilian .....	3,360.5	2,461.5	1,871.0			
Military .....	6,480.5	4,275.0	3,496.0			
Gross reproduction rate, all groups <u>4/</u> ...	1,884.0	1,318.0	1,006.5			
Civilian .....	1,628.0	1,189.5	903.5			
Military .....	3,140.0	2,065.5	1,688.0			
	Age-specific fertility rates <u>5/</u>					
Military status and year	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 .....	51.7	125.4	121.2	82.9	29.7	5.6
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 .....	41.8	102.1	112.1	82.3	30.1	5.4
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 .....	164.5	243.7	172.1	86.8	25.9	6.2

Footnotes and source on next page.

Table 65.-- FERTILITY RATES, BY MILITARY STATUS:  
1960, 1970, AND 1980 -- Con.

- 1/ The annual number of live births per 1,000 resident population.  
 2/ The annual number of live births per 1,000 women of childbearing age.  
 3/ 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.  
 4/ 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.

5/ Annual live births per 1,000 females in each age group.

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 special tabulations of decennial census data by military status.

Table 66.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1980 TO 1982

[Excludes births to Hawaii residents occurring out of state]

Subject	1980	1981	1982
Number of resident births .....	18,129	18,174	18,675
Rate per 1,000 population .....	18.6	18.5	18.8
Percent on Oahu .....	77.7	76.7	77.1
Percent attended by M.D. or O.D. in hospital ...	98.5	98.4	98.0
Males per 100 females .....	107.0	105.8	105.8
Median weight of single births (grams) .....	3,280	3,283	3,278
Percent premature (under 2,500 grams) .....	6.4	6.1	6.6
Percent single births under 40 weeks gestation .	50.7	49.7	50.2
Percent plural .....	1.6	1.7	1.8
Percent with 1 or more congenital malformations .....	1.0	0.9	0.8
Percent illegitimate .....	17.6	18.2	18.6
Percent with prenatal visit in first three months .....	76.5	76.9	74.2
Percent first child born to mother .....	32.8	33.0	31.9
Percent first child born alive to mother .....	42.8	43.2	42.4
Median age of mothers (years) .....	26.0	26.1	26.1
Median age of known fathers (years) .....	28.8	28.8	28.8

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

Table 67.-- BIRTHS, MIXED AND UNMIXED: 1956 TO 1983

[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 and 1983]

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
1983 ...	19,090	8,751	9,060	1,279	45.8	47.5	6.7

Footnotes and source follow next table.

Table 68.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1983

[Based on data for 18 specified races]

Military status of father	Total births	Unmixed	Mixed <sup>1/</sup>			Not certain <sup>2/</sup>
			Total	Part Haw'n	No Haw'n blood	
All groups ....	19,090	8,751	9,060	5,618	3,442	1,279
Military .....	4,077	3,098	978	225	753	1
Civilian <sup>4/</sup> .....	15,013	5,653	8,082	5,393	2,689	1,278
PERCENT DISTRIBUTION						
All groups ....	100.0	45.8	47.5	29.4	18.0	6.7
Military .....	100.0	76.0	24.0	5.5	18.5	0.0
Civilian <sup>4/</sup> .....	100.0	37.7	53.8	35.9	17.9	8.5

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

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

<sup>3/</sup> Earliest year available.

<sup>4/</sup> Includes births in which father's military status was not reported.

Source: Hawaii State Department of Health, Statistical Report (annual) and special tabulations of 1982 and 1983 data.



Table 69.-- CHILDREN EVER BORN TO WOMEN EVER MARRIED: 1950 TO 1980

Age of woman and year	All women	Women ever married		Children ever born to women ever married <sup>1/</sup>			
		Total	Mothers	Total	Per 1,000 women	Per 1,000 women ever married	Per 1,000 mothers ever married
15 years and over:							
1960 <sup>2/</sup> .....	188,842	150,451	132,612	462,682	2,450	3,075	3,489
1970 .....	256,725	196,245	168,005	549,335	2,140	2,799	3,270
1980 .....	360,707	268,003	224,146	674,637	1,870	2,517	3,010
15 to 24 years:							
1960 .....	44,813	16,240	12,014	22,537	503	1,388	1,876
1970 .....	69,037	22,904	13,504	21,642	313	945	1,603
1980 .....	87,008	22,663	13,625	21,391	246	944	1,570
25 to 34 years:							
1960 .....	46,963	42,198	37,597	105,676	2,250	2,504	2,811
1970 .....	53,438	46,859	39,799	106,654	1,996	2,276	2,680
1980 .....	88,168	70,352	53,779	114,240	1,296	1,624	2,124
35 to 44 years:							
1960 .....	42,590	40,165	36,584	120,853	2,838	3,009	3,303
1970 .....	48,168	45,224	41,874	141,507	2,938	3,129	3,379
1980 .....	55,285	51,012	45,351	136,045	2,461	2,667	3,000
45 years and over:							
1950 <sup>3/</sup> .....	37,620	36,045	31,260	164,370	4,566	4,775	5,258
1960 .....	54,476	51,848	46,417	213,616	3,921	4,120	4,602
1970 .....	86,082	81,258	72,828	279,532	3,247	3,440	3,838
1980 .....	130,246	123,976	111,391	402,961	3,094	3,250	3,618

<sup>1/</sup> Excluding stillbirths. Data for 1950 limited to women 45 years old and over.

<sup>2/</sup> For earlier years, see Historical Statistics of Hawaii, p. 49.

<sup>3/</sup> Data on mothers and children ever born (including computed ratios) exclude 1,620 women ever married not reporting number of children.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 49; U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii (October 1983), table 211.

Table 70.-- CHILDREN EVER BORN, BY MARITAL STATUS AND AGE OF MOTHERS: 1980

Subject	15 years and over	15 to 24 years	25 to 34 years	35 to 44 years	45 years and over
All women .....	360,707	87,008	88,168	55,285	130,246
Childless .....	129,611	69,521	32,274	9,411	18,405
Mothers .....	231,096	17,487	55,894	45,874	111,841
Children ever born <sup>1/</sup> ....	684,779	26,273	117,508	137,037	403,961
Per 1,000 women .....	1,898	302	1,333	2,479	3,102
Per 1,000 mothers .....	2,963	1,502	2,102	2,987	3,612
Single (never married) women .	92,704	64,345	17,816	4,273	6,270
Childless .....	85,754	60,483	15,701	3,750	5,820
Mothers .....	6,950	3,862	2,115	523	450
Children ever born <sup>1/</sup> ....	10,142	4,882	3,268	992	1,000
Per 1,000 single women .	109	76	183	232	159
Per 1,000 single mothers	1,459	1,264	1,545	1,897	2,222
Women ever married .....	268,003	22,663	70,352	51,012	123,976
Childless .....	43,857	9,038	16,573	5,661	12,585
Mothers .....	224,146	13,625	53,779	45,351	111,391
Children ever born <sup>1/</sup> ....	674,637	21,391	114,240	136,045	402,961
Per 1,000 women ever					
married .....	2,517	944	1,624	2,667	3,250
Per 1,000 mothers ever					
married .....	3,010	1,570	2,124	3,000	3,618

<sup>1/</sup> Excluding stillbirths.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii (October 1983), table 211.

Table 71.-- WOMEN 14 to 44 YEARS OLD, DELIVERIES, ILLEGITIMATE BIRTHS,  
AND ABORTIONS: 1950 TO 1980

Subject	1950	1960	1970	1980
Women 14 to 44 years old, April 1 .....	116,100	140,312	178,578	237,698
Married, except separated .....	69,577	93,260	106,460	120,035
Single, widowed, separated, or divorced	46,523	47,052	72,118	117,663
Deliveries 1/ .....	14,229	18,219	20,753	26,454
Live births .....	14,054	17,193	16,467	18,216
Fetal deaths, including abortions 2/ ..	175	1,026	4,286	8,238
Illegitimate births 1/ .....	698	881	1,577	3,198
Per 1,000 live births .....	49.7	51.2	95.8	175.6
Per 1,000 unmarried women 14 to 44 ....	15.0	18.7	21.9	27.2
Elective abortions 1/, 3/ .....	(NA)	3	2,741	6,462
Per 1,000 deliveries .....	(NA)	0.2	132.1	244.3
Per 1,000 live births .....	(NA)	0.2	166.5	354.7
Per 1,000 women 14 to 44 .....	(NA)	0.0	15.3	27.2

NA Not available.

1/ Place of occurrence basis. Calendar year data.

2/ Data for 1950 exclude fetal deaths with gestation period less than 20 weeks.

3/ Legal restrictions on elective abortions were removed by S.L.H. 1970, Act 1, effective March 11, 1970.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, Final Report PC(1)-13D, table 105; U.S. Census of Population: 1970, PC(1)-B13, tables 20 and 22; and 1980 Census of Population, PC80-1-B13, tables 19 and 21. Hawaii State Department of Health, Annual Report, 1950, pp. 36, 39, and 49; Annual Report, Statistical Supplement, 1960, pp. 11, 25, and 53; Annual Report, Statistical Supplement, 1970, pp. 6, 23, 50, and 58; and Annual Report, Statistical Supplement, 1980, pp. 9, 18, 40, and 45.

Table 72.-- MOST COMMON NAMES ON BIRTH CERTIFICATES: 1909-1914,  
1950, AND 1983

Sex and rank	1983 <sup>1/</sup>		1950	1909-1914
	Name	Number		
Boys' names:				
1 .....	Christopher .....	271	John .....	John .....
2 .....	Michael .....	264	Michael .....	William .....
3 .....	Justin .....	175	Robert .....	George .....
4 .....	Jason .....	173	William .....	Antonio .....
5 .....	Matthew .....	169	Dennis .....	Joseph .....
Girls' names:				
1 .....	Jennifer .....	224	Linda .....	Maria .....
2 .....	Jessica .....	167	Kathleen .....	Mary .....
3 .....	Ashley .....	134	Sharon .....	Amelia .....
4 .....	Nicole .....	114	Carol .....	Helen .....
5 .....	Melissa .....	110	Charlene .....	Elizabeth .....

<sup>1/</sup> A total of 5,251 first names (including variant spellings) was reported for the 19,164 babies born in Hawaii in 1983.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1983 records; Bob Krauss, "Today's lesson: the name game," Honolulu Advertiser, September 14, 1979, p. A-3.

Table 73.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY:  
1975 AND 1985

Rank	1985		1975	
	Name	Columns	Name	Columns
1 .....	Lee .....	20.0	Lee .....	18.0
2 .....	Wong .....	16.75	Wong .....	16.5
3 .....	Young .....	11.5	Young .....	11.5
4 .....	Chang .....	10.5	Chang .....	10.5
5 .....	Chun (tie) ....	9.75	Chun .....	10.0
6 .....	Smith (tie) ...	9.75	Smith .....	9.5
7 .....	Kim (tie) .....	9.75	Nakamura .....	9.0
8 .....	Ching .....	8.5	Ching .....	8.5
9 .....	Lum .....	7.67	Lum .....	8.0
10 .....	Nakamura .....	7.33	Yamamoto; Tanaka (tie) .....	6.5

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 22, 1975 p. A-3, and January 16, 1985, p. A-3.

Table 74.-- CHARACTERISTICS OF RESIDENT DEATHS: 1980 TO 1982

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1980	1981	1982
Number of resident deaths .....	4,903	4,927	5,123
Rate per 1,000 population .....	5.0	5.1	5.2
Percent on Oahu .....	75.0	74.2	73.6
Males per 100 females .....	154.4	155.5	143.6
Median age (years) .....	69.2	70.0	69.4
Number of deaths under 1 year .....	183	178	158
Per 1,000 live births .....	10.1	9.8	8.5
Fetal deaths <u>1/</u> .....	8,112	8,278	7,793
Per 1,000 deliveries .....	309	313	294
Fetal deaths, 20 or more weeks gestation <u>1/</u> , <u>3/</u>	278	238	262
Per 1,000 live births .....	15.3	13.1	14.0
Standard fetal deaths <u>2/</u> .....	1,716	1,661	1,618
Elective abortions .....	6,396	6,617	6,175
Per 1,000 live births .....	353	364	331

1/ Includes elective abortions.

2/ Excludes elective abortions.

3/ Place of occurrence basis.

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

Table 75.-- CAUSE OF DEATH: 1962, 1972, AND 1982

[Resident deaths. Data for 1982, however, exclude deaths of Hawaii residents out of State]

Cause of death <sup>1/</sup>	Number, 1982	Percent distribution			Rate per 100,000 population		
		1982	1972	1962	1982	1972	1962
All causes .....	5,123	100.0	100.0	100.0	515.5	519.8	516.8
Diseases of the heart ..	1,678	32.8	32.6	33.7	168.9	169.3	174.4
Malignant neoplasms ....	1,251	24.4	20.6	15.7	125.9	107.3	81.3
Cerebrovascular diseases	375	7.3	8.6	9.0	37.7	44.4	46.4
All accidents .....	279	5.4	6.5	7.1	28.1	33.8	36.6
Influenza and pneumonia	160	3.1	3.5	4.1	16.1	18.4	21.1
Diabetes mellitus .....	128	2.5	2.4	2.2	12.9	12.6	11.4
Suicide .....	104	2.0	2.0	1.9	10.5	10.1	9.8
Perinatal conditions ...	70	1.4	3.8	6.8	7.0	19.8	35.1
Other circulatory diseases .....	66	1.3	1.4	1.1	6.6	7.5	5.9
Bronchitis, emphysema, asthma .....	64	1.2	1.3	2.0	6.4	6.5	10.4
Cirrhosis of liver .....	60	1.2	1.7	1.4	6.0	8.7	7.2
Atherosclerosis .....	53	1.0	0.7	1.2	5.3	3.6	6.3
Congenital anomalies ...	51	1.0	1.3	2.7	5.1	6.5	14.0
All other causes .....	784	15.4	13.7	11.1	74.5	71.3	56.9

<sup>1/</sup> The leading causes of death in 1982, listed according to rank.

Source: Hawaii State Department of Health, Statistical Report, 1982, p. 23.

Table 76.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:  
1980 TO 1982

Method	1980	1981	1982	Percent distribution		
				1980	1981	1982
All methods ....	5,204	5,269	5,495	100.0	100.0	100.0
Burial .....	2,343	2,284	2,324	45.0	43.3	42.3
Cremation .....	2,241	2,342	2,515	43.1	44.4	45.8
Removal .....	567	613	613	10.9	11.6	11.2
Entombment .....	44	23	33	0.8	0.4	0.6
Educational purpose .	-	-	-	0	0	0
Other .....	1	-	-	0.0	0	0
Unknown .....	8	7	10	0.2	0.1	0.2

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

Table 77.-- CATASTROPHIC MORTALITY: 1977 TO 1984

[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. Complete through October 24, 1984]

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 78.-- EXPECTATION OF LIFE AT BIRTH:  
PRE-CONTACT TIMES TO 1980

[Average expectation of life ( $e_0$ ) in years]

Date	Both sexes <u>1/</u>	Male	Female
Pre-contact times <u>2/</u> .....	30	(NA)	(NA)
1847 <u>3/</u> .....	35-36	(NA)	(NA)
1878-1879 <u>4/</u> .....	21.88	(NA)	(NA)
1883-1886 <u>4/</u> .....	31.95	(NA)	(NA)
1889-1892 <u>4/</u> .....	33.65	(NA)	(NA)
1894-1898 <u>4/</u> .....	36.89	(NA)	(NA)
1910 .....	43.96	44.04	43.83
1920 .....	45.69	45.64	45.75
1930 .....	53.95	52.70	55.86
1940 .....	62.00	59.92	64.86
1950 .....	69.53	67.77	71.67
1960 .....	72.42	70.39	74.75
1970 .....	74.20	72.12	76.44
1980 .....	78.02	75.04	81.45

NA Not available.

1/ Corresponding values for the entire United States were as follows: 1920, 54.1; 1930, 59.7; 1940, 62.9; 1950, 68.2; 1960, 69.7; 1970, 70.9; and 1980, 73.7. See Statistical Abstract of the United States: 1984, p. 73.

2/ Based on skeletal remains found at Mokapu, Oahu.

3/ Data for northern and northeastern Kauai.

4/ Data for Honolulu.

Source: Robert W. Gardner and Robert C. Schmitt, "Ninety-Seven Years of Mortality in Hawaii," Hawaii Medical Journal, October 1978, pp. 297-302; 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), and Life Tables by Ethnic Group for Hawaii, 1980, by Robert W. Gardner (R&S Report, No. 47, March 1984).

Table 79.-- 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 <sup>1/</sup> .....	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

<sup>1/</sup> For the entire United States, expectation of life at birth in 1980 was 73.7 years for males and females combined, 70.0 for males, and 77.5 for females; see Statistical Abstract of the United States: 1984, p. 73.

Source: Hawaii State Department of Health, Life Tables by Ethnic Group for Hawaii, 1980, by Robert W. Gardner (R & S Report, No. 47, March 1984), p. 9.

Table 80.-- ACUTE CONDITIONS: 1983

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions .....	2,056,074	208.6
Infective parasitic diseases .....	99,727	10.1
Respiratory condition .....	1,518,636	154.1
Digestive system condition .....	38,579	3.9
Injuries .....	171,575	17.4
All other acute conditions .....	227,557	23.1

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

Table 81.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES: 1929 TO 1982

[The State Blind Register was established in 1935]

Year	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1929 (survey data) ..	(NA)	64	(NA)	(NA)	(NA)
1936: June 30 .....	355	171	78	30	76
1951: June 30 .....	620	398	70	54	98
1970: June 25 .....	1,001	785	87	44	85
1980: June 30 .....	1,568	1,322	85	49	112
1982: June 30 .....	1,751	1,475	93	54	129

NA Not available.

Source: Territorial Bureau of Sight Conservation and Work with the Blind, Their Tomorrows Have Become Our Today's 1935-1951, pp. 2-3; Hawaii State Department of Social Services and Housing, Services for the Blind Branch, tables provided May 14, 1984.

Table 82.-- CHRONIC CONDITIONS: 1983

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition .....	22,121	22.4
Impairment of back or spine .....	53,193	54.0
Hypertension without heart involvement	72,377	73.4
Arthritis/rheumatism .....	30,313	30.8
Hearing impairment .....	30,192	30.6
Asthma with or without hayfever .....	33,613	34.1
Diabetes .....	20,425	20.7
Mental and nervous condition .....	11,262	11.4
Visual impairment .....	11,373	11.5
Malignant neoplasms .....	7,816	7.9
Chronic and allergic skin conditions ..	32,869	33.3
Chronic sinusitis .....	24,042	24.4
Hayfever without asthma .....	51,481	52.2
Stomach ulcer .....	6,210	6.3
Bronchitis/emphysema .....	11,227	11.4
Benign and unspecified neoplasms .....	4,533	4.6
Hemorrhoids .....	11,447	11.6
Thyroid/goiter .....	2,621	2.7
Varicose veins .....	8,413	8.5
Gout .....	8,553	8.7

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

Table 83.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE  
CONDITIONS: 1983

Type of limitation	Number
Persons with one or more chronic conditions .....	336,694
No limitation of activity .....	282,116
Limited, but not in major activity .....	24,264
Limited in amount or kind of activity .....	19,832
Unable to carry on major activity .....	10,482
Restricted days in past 12 months <u>1/</u> .....	12,788,125
Per person <u>2/</u> .....	13.0
Bed days in past 12 months .....	4,114,394
Per person <u>2/</u> .....	4.2
Work days lost by persons 17 years of age and older in past 12 months .....	1,411,259
Per employed person 17 years and older <u>2/</u> .....	3.5
School days lost by persons 6 to 16 years of age in past 12 months .....	570,945
Per pupil 6 to 16 years of age <u>2/</u> .....	3.3

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 84.-- SPECIFIED COMMUNICABLE DISEASES: 1981 TO 1983

Disease	Cases			Deaths		
	1981	1982	1983	1981	1982	1983
All reportable diseases ..	11,438	10,310	11,299	19	18	14
Chickenpox .....	809	820	1,442	-	-	-
Gonorrhea .....	4,289	3,706	2,886	-	-	-
Hansen's Disease .....	49	59	46	2	1	-
Hepatitis, all types .....	247	187	153	2	5	1
Influenza .....	96	222	494	1	-	1
Measles (Rubeola) .....	7	6	2	-	-	-
Meningitis, all types .....	225	281	319	6	5	2
Mumps .....	26	21	20	-	-	-
Rubella .....	15	9	1	-	-	-
Salmonellosis .....	513	499	335	-	1	-
Scarlet fever, other strep. ...	4,348	3,474	4,814	-	-	-
Syphilis .....	141	191	159	-	-	-
Tuberculosis .....	197	252	236	7	6	10
All others .....	476	583	392	1	-	-

Source: Hawaii State Department of Health, Statistical Report, 1983, p. 126.

Table 85.-- 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

1/ Non-medical use.

Source follows next table.

Table 86.-- 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	74.0	89.0
Cigarettes .....	235	33.3	15.3	40.0	35.0
Alcohol .....	389	55.1	27.4	68.2	57.3
Marijuana .....	102	14.4	17.9	31.0	9.0
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	13.0	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 Substance Abuse Survey - 1979. (December 1980), tables 8 and 9.



Table 87.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: 1982

[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 <u>1/</u>	Acute care <u>2/</u>	Long-term care	Specialty care	Care homes	
					Residential <u>3/</u>	Family <u>4/</u>
<b>NUMBER OF FACILITIES</b>						
State total ..	341	25	34	9	15	280
Oahu .....	274	12	21	6	10	234
Hawaii .....	26	5	6	-	1	19
Kauai .....	18	3	3	1	3	12
Maui .....	18	3	2	1	-	14
Molokai .....	4	1	1	1	1	1
Lanai .....	1	1	1	-	-	-
<b>NUMBER OF BEDS</b>						
State total ..	8,038	2,875	2,668	881	516	1,098
Oahu .....	6,273	2,299	1,783	838	424	929
Hawaii .....	749	262	406	-	13	68
Kauai .....	387	143	121	11	65	47
Maui .....	547	150	338	8	-	51
Molokai .....	68	15	12	24	14	3
Lanai .....	14	6	8	-	-	-

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

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

3/ Five or more beds.

4/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1982, pp. 101, 102, and 184.

Table 88.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE  
CIVILIAN HOSPITALS: BY ISLANDS: 1981

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total .....	99,247	1,675.0	6.2	71.0
Oahu .....	77,152	1,376.1	6.5	78.1
Hawaii .....	10,206	131.0	4.7	50.0
Kauai .....	4,565	74.0	4.7	51.8
Maui .....	6,868	90.7	4.8	62.1
Molokai .....	436	3.0	2.5	20.0
Lanai .....	20	0.1	4.9	1.7
LONG-TERM CARE				
State total .....	2,478	2,487.3	366.4	93.2
Oahu .....	1,537	1,644.2	390.5	94.4
Hawaii .....	464	386.8	304.3	95.3
Kauai .....	126	122.4	354.6	101.2
Maui .....	331	319.0	347.6	94.4
Molokai .....	13	9.4	263.0	78.3
Lanai .....	7	5.5	286.1	68.8

Source: Data by islands from Hawaii State Department of Health, Statistical Report 1982, pp. 102-105; state totals estimated by Hawaii State Department of Planning and Economic Development.

Table 89.-- 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 90.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1979 TO 1983

Subject	1979	1980	1981	1982	1983
Patients on register, Dec. 31 ..	458	474	506	550	578
Medically released .....	458	474	506	550	578
At home .....	328	349	385	432	462
Kalaupapa .....	124	119	115	112	110
Hale Mohalu or Leahi .....	6	6	6	6	6
Not medically released .....	-	-	-	-	-
Net annual increase .....	21	16	32	44	28
New cases added .....	33	34	49	49	41
Cases returned to register ...	2	3	4	11	5
Deaths .....	5	8	6	4	6
Left the State .....	1	4	1	12	12
Discharged .....	8	9	14	-	-

Source: Hawaii State Department of Health, Statistical Report, 1983, pp. 131-132.

Table 91.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:  
1978 TO 1983

Year	Patients active, end of period			Admissions		Termina- tions	Patients served (undup.)
	Total	In- patients	Out- patients	Total	Undupli- cated		
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
1983 ..	6,013	268	5,745	4,751	4,102	5,029	9,946

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

Table 92.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:  
1979 TO 1984

[Hawaii State Hospital is the only large public psychiatric hospital in Hawaii. Other facilities include Kahi Mohala, an 88-bed private psychiatric hospital opened in September 1983, and acute-care psychiatric beds in nine general hospitals]

Year	Number of beds, June 30	Admissions <u>1/</u>		Patients in hospital	
		Total	First	Average <u>1/</u>	June 30
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
1984 ....	220	744	276	221	240

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

Table 93.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1979 TO 1984

[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	
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
1984 ....	410	2	356	364	605

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 94.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED  
IN HAWAII, BY PLACE OF ADDRESS: JANUARY 1984

Place of residence	Physicians and surgeons <u>1/</u>	Dentists <u>2/</u>	Regis- tered nurses <u>3/</u>	Pharma- cists <u>2/</u>
Total licensed	3,273	996	8,156	708
Hawaii addresses ...	1,976	746	6,208	437
Hawaii .....	155	66	514	36
Maui .....	135	37	447	38
Lanai .....	2	1	12	-
Molokai .....	8	4	28	3
Oahu .....	1,606	615	4,954	341
Kauai .....	70	23	253	19
Niihau .....	-	-	-	-
Out of State .....	1,297	250	1,948	271

1/ As of January 13, 1984. Permanent licenses only. Does not include interns, residents, or the 26 physicians who provided State government services only.

2/ Eligible for renewal, December 31, 1983.

3/ As of January 13, 1984.

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

Table 95.-- DRUG STORES, PHARMACISTS, AND PRESCRIPTIONS: 1977

[Data limited to 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 96.-- ANNUAL OUT-OF-POCKET EXPENSES OF CIVILIAN FAMILIES  
AND INDIVIDUALS FOR HEALTH SERVICES: 1978-1979

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 97.-- 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 98.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979]

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 99.-- MARRIAGES AND DIVORCES: 1970 TO 1983

[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	13.5	4.2	25.4	35.7
1983 ...	14,062	4,583	13.7	4.5	27.3	35.5

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, Statistical Supplement (annual), and records.

Table 100.-- MARRIAGE AND DIVORCE RATES BASED ON RISK POPULATION: 1910 TO 1980

Census year	Females 15 years old and over <u>1/</u>		Marriages <u>2/</u>		Divorces <u>2/</u>	
	Unmarried <u>3/</u>	Married <u>4/</u>	Number	Rate <u>5/</u>	Number	Rate <u>6/</u>
1910 .....	9,667	31,380	2,112	218	210	7
1920 .....	14,616	45,550	2,070	142	548	12
1930 .....	26,059	53,948	2,504	96	546	10
1940 .....	51,669	66,569	4,659	90	906	14
1950 .....	58,995	94,520	5,446	92	1,112	12
1960 .....	65,156	128,528	5,098	78	1,324	10
1970 .....	98,016	166,596	7,312	75	2,452	15
1980 .....	150,166	210,085	9,148	61	4,144	20

1/ Females 14 years old and over for 1940-1970.

2/ Annual averages for two-year periods centering on each census date. Place of occurrence basis. Marriage data for 1969-1970 and 1979-1980 exclude marriages of nonresident brides.

3/ Single, widowed or divorced.

4/ Includes separated persons.

5/ Per 1,000 unmarried females 15 (or 14) years old and over.

6/ Per 1,000 married females 15 (or 14) years old and over.

Source: Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), pp. 214-215 and underlying data; U.S. Census of Population: 1970, Final Report PC(1)-B13, table 22; U.S. Census of Population; 1980, PC80-1-B13, table 21; Hawaii State Department of Health, Annual Report, Statistical Supplement for 1969, 1970, 1979, and 1980.

Table 101.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1980 TO 1982

[Place of occurrence basis]

Subject	1980	1981	1982
MARRIAGES			
Number .....	11,856	12,218	13,483
Percent on Oahu .....	73.2	70.9	70.5
Percent Hawaii residents:			
Both bride and groom .....	75.1	72.5	70.0
One partner only .....	4.6	4.8	4.6
Neither bride nor groom .....	20.4	22.7	25.4
Median age (years):			
Groom .....	28.1	28.3	28.8
Bride .....	25.8	26.0	26.6
Percent previously married:			
Groom .....	34.6	35.6	36.7
Bride .....	34.5	34.8	36.2
DIVORCES AND ANNULMENTS			
Number <sup>1/</sup> .....	4,438	4,253	4,233
Divorces .....	4,423	4,235	4,219
Annulments .....	14	18	11
Percent occurring on Oahu .....	77.7	76.0	77.0
Percent nonresident:			
Husband .....	11.6	11.7	12.1
Wife .....	12.4	12.8	12.4
Neither partner .....	76.0	75.6	75.7
Median age (years):			
Husband .....	33.0	33.2	33.8
Wife .....	30.4	30.6	31.2
Percent interracial <sup>2/</sup> .....	39.3	40.3	35.7
Percent with children under 18 years ...	54.8	54.1	54.0
Median years married .....	6.0	6.1	6.3

<sup>1/</sup> Includes unspecified type of decree.

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

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

Table 102.-- MARRIAGES OCCURRING IN HAWAII, MIXED AND UNMIXED,  
BY RESIDENCE STATUS OF PARTNERS: 1982

Residence status	Ethnic stock of bride and groom <u>1/</u>				Percent differ-ent <u>3/</u>
	Total	Same	Different	Not re-ported <u>2/</u>	
All marriages .....	13,483	8,601	4,807	75	35.9
Resident marriages <u>4/</u> .....	10,056	5,494	4,493	69	45.0
Nonresident marriages <u>5/</u> .....	3,427	3,107	314	6	9.2

1/ Based on 14 categories, including "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 103.-- MARRIAGES OCCURRING IN HAWAII, BY TYPE OF CEREMONY:  
1978 TO 1982

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
1982 .....	13,483	4,949	8,534	-	36.7
Residence status: 1982					
Resident marriages <u>1/</u> .....	10,056	4,066	5,990	-	40.4
Nonresident marriages <u>2/</u> ..	3,427	883	2,544	-	25.8

1/ One or both partners classified as Hawaii residents.

2/ Both partners classified as nonresidents.

Source: Hawaii State Department of Health, special tabulation.

Table 104.-- 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 105.-- 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
Black or Negro .....	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 106.-- 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 (inches)	Cumulative percent		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)

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

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

Table 107.-- 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 (pounds)	Cumulative percent		Average height (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)

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

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

Table 108.-- 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.) <sup>1/</sup> .....	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 <sup>2/</sup> (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 <sup>2/</sup> .....	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

<sup>1/</sup> Retinol Equivalents.

<sup>2/</sup> 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 109.-- 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 110.-- 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 <sub>6</sub> .....	Mg	1.44	75	68
Vitamin B <sub>12</sub> .....	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.