

## 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 1984-86 was 75.37 years for males and 80.92 years for females. There were 5,788 resident deaths in 1986, or 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.9 in 1986. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. Resident live births in 1986 numbered 18,253, or 17.2 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. Fully 98 percent of all babies were born in hospitals in 1986, and 22 percent were born to military couples. One out of five births was to an unmarried woman. There were 7,178 fetal deaths in 1986, including 5,700 elective abortions. Marriages numbered 16,219 in 1986, with about 30 percent accounted for by nonresidents. Divorces reached a 1986 total of 4,674. The State had 23 acute care hospitals (with 2,887 beds), 36 long-term care facilities (with 2,977 beds), and nine specialty care facilities (with 956 beds) in 1987. There were 2,150 physicians and surgeons, 847 dentists, 7,088 professional nurses, and 469 pharmacists licensed and living in Hawaii as of November 1986. Acute conditions per 100 persons numbered 246 in 1985, with respiratory conditions the most common complaint (at 186 cases per 100 persons). Among chronic conditions reported in the 1985 survey data, the most frequently mentioned were hypertension without heart involvement (8.0 per 100 persons), hayfever (6.6), and impairments of the back or spine (5.1). The most common communicable diseases reported to authorities in 1986 were scarlet fever, with 4,892 cases, and gonorrhoea, with 1,619, but the most fatal was AIDS (15 deaths). State mental health facilities served 8,342 patients in 1986, but the number of in-patients at the end of the year was only 252. 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 18 years old and over in 1984, 53 percent used alcohol, eight percent were heavy drinkers, 43 percent used drugs, and three percent were heavy drug users. 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.

The major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 3 of the Statistical Abstract of the United States: 1987 contain similar data for the nation as a whole.

Table 55.-- BIRTHS AND DEATHS: 1970 TO 1986

Calendar year	Resident births <u>1/</u>	Resident deaths <u>1/</u>	Rates per 1,000 resident population <u>2/</u>		Rates per 1,000 live births <u>3/</u>		
			Births	Deaths	Illegitimate births	Fetal deaths <u>4/</u>	Infant deaths <u>5/</u>
1970 ...	16,361	3,971	21.2	5.1	95.8	20.6	19.1
1971 ...	15,780	4,130	19.7	5.2	88.4	23.5	16.0
1972 ...	15,364	4,245	18.5	5.1	93.0	22.8	17.5
1973 ...	15,328	4,356	18.0	5.1	104.0	16.4	13.7
1974 ...	15,472	4,286	17.8	4.9	108.8	16.3	16.0
1975 ...	15,689	4,272	17.7	4.8	123.2	18.9	13.7
1976 ...	16,292	4,349	18.0	4.8	125.0	20.8	11.2
1977 ...	16,874	4,349	18.4	4.7	143.3	21.6	12.3
1978 ...	16,717	4,508	17.9	4.8	160.1	13.5	12.0
1979 ...	17,513	4,791	18.4	5.0	163.5	13.1	10.9
1980 ...	18,129	4,903	18.7	5.1	175.6	15.3	10.8
1981 ...	18,174	4,927	18.5	5.0	181.8	13.1	10.5
1982 ...	18,675	5,123	18.7	5.1	186.3	12.7	8.9
1983 ...	19,090	5,409	18.7	5.3	197.8	11.5	10.0
1984 ...	18,667	5,571	18.0	5.4	191.8	10.0	10.9
1985 ...	18,267	5,751	17.4	5.5	201.3	9.7	9.1
1986 ...	18,253	5,788	17.2	5.4	203.9	10.9	9.2

1/ Events occurring in Hawaii. Data include births to military couples and deaths of armed forces and their dependents, but exclude nonresident births and deaths, as well as resident births and deaths occurring out of State.

2/ Based on estimates in DPED, Statistical Reports 172 and 195.

3/ Place of occurrence basis.

4/ 20 weeks gestation and over. Includes elective abortions.

5/ Under 1 year of age.

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

Table 56.-- BIRTHS AND BIRTH RATES, BY MILITARY STATUS: 1976 TO 1986

[Place of occurrence basis]

Subject and year	All groups	Civilians			Armed forces and dependents
		All civilians	Military dependents	Other civilians	
<b>Live births:</b>					
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
1984 .....	18,756	18,756	3,976	14,780	3,976
1985 .....	18,329	18,329	4,043	14,286	4,043
1986 .....	18,341	18,341	3,952	14,389	3,952
<b>Birth rates: <u>1/</u></b>					
1976 .....	16.9	18.0	56.8	14.9	30.5
1977 .....	17.1	18.1	58.0	15.2	31.0
1978 .....	16.5	17.5	59.8	14.6	30.6
1979 .....	16.8	17.8	58.9	15.0	31.0
1980 .....	17.3	18.3	58.5	15.5	30.7
1981 .....	17.1	18.1	54.5	15.6	29.0
1982 .....	17.2	18.1	60.1	15.2	33.0
1983 .....	17.2	18.1	61.8	15.2	33.7
1984 .....	16.5	17.3	59.3	14.6	32.0
1985 .....	15.9	16.8	62.9	13.9	33.5
1986 .....	15.6	16.4	59.7	13.7	31.8

1/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Reports 172 and 195, as revised.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 57.-- DEATHS AND DEATH RATES, BY MILITARY STATUS: 1976 TO 1986

[Place of occurrence basis]

Subject and year	All groups	Armed forces	Civilians <u>1/</u>			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Deaths:						
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
1984 .....	5,942	73	5,869	86	5,783	159
1985 .....	6,116	63	6,053	83	5,970	146
1986 .....	6,171	59	6,112	85	6,027	144
Death rates: <u>2/</u>						
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	5.2	1.4
1979 .....	4.9	1.5	5.1	1.3	5.4	1.4
1980 .....	4.9	1.2	5.1	1.3	5.4	1.2
1981 .....	4.9	1.3	5.2	1.3	5.4	1.3
1982 .....	5.0	1.3	5.2	1.3	5.5	1.3
1983 .....	5.1	1.8	5.3	1.3	5.6	1.5
1984 .....	5.2	1.3	5.4	1.3	5.7	1.3
1985 .....	5.3	1.1	5.5	1.3	5.8	1.2
1986 .....	5.2	1.0	5.5	1.3	5.7	1.2

1/ Death rates for military dependents based on 1970 and 1980 age and sex composition of military dependents and 1970 and 1980 age-sex-specific death rates for all civilians. Deaths of civilians other than military dependents calculated as residual.

2/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Reports 172 and 195, as revised.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 58.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1970 TO 1986

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions <u>2/</u>
	Number	Rate <u>1/</u>			
1970 <u>3/</u> ...	20,578	26.7	16,361	1,458	2,759
1971 .....	21,476	26.8	15,780	1,575	4,121
1972 .....	21,468	25.9	15,364	1,582	4,522
1973 .....	21,374	25.1	15,328	1,560	4,486
1974 .....	21,071	24.3	15,472	1,572	4,027
1975 .....	21,481	24.2	15,689	1,476	4,316
1976 .....	22,915	25.3	16,292	1,675	4,948
1977 .....	23,502	26.6	16,874	1,578	5,050
1978 .....	23,990	25.8	16,717	1,467	5,806
1979 .....	25,213	26.4	17,513	1,683	6,017
1980 .....	26,241	27.1	18,129	1,716	6,396
1981 .....	26,452	27.0	18,174	1,661	6,617
1982 .....	26,468	26.5	18,675	1,618	6,175
1983 .....	26,709	26.2	19,090	1,627	5,992
1984 .....	25,573	24.7	18,667	1,629	5,277
1985 .....	25,335	24.1	18,267	1,473	5,595
1986 .....	25,312	23.8	18,253	1,412	5,647

1/ Per 1,000 resident population, July 1. From DPED Statistical Reports 172 and 195.

2/ Most legal restrictions on abortion were abolished as of March 11, 1970.

3/ For earlier years, 1952-1969, see Data Book 1986, table 59.

Source: Hawaii State Department of Health, Annual Report, Statistical Supplement, 1970-1986.

Table 59.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE:  
1982 TO 1986

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State <u>1/</u>
<b>Births:</b>						
1982 ...	18,734	18,675	57	2	18,704	29
1983 ...	19,164	19,090	73	1	19,124	34
1984 ...	18,756	18,667	89	-	18,706	39
1985 ...	18,329	18,267	62	-	18,302	35
1986 ...	18,341	18,253	86	2	18,277	24
<b>Deaths:</b>						
1982 ...	5,495	5,123	370	2	5,188	65
1983 ...	5,725	5,409	315	1	5,478	69
1984 ...	5,942	5,571	369	2	5,639	68
1985 ...	6,116	5,751	363	2	5,825	74
1986 ...	6,171	5,788	382	1	5,837	49

1/ Mainland U.S., U.S. territories and possessions, and Canada.  
Source: Hawaii State Department of Health, Statistical Report  
(annual).

Table 60.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

[Military dependents are included in the military category]

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

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.

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 61.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1983 TO 1986

[Excludes births to Hawaii residents occurring out of state]

Subject	1983	1984	1985	1986
Number of resident births .....	19,090	18,667	18,267	18,253
City and County of Honolulu .....	14,712	14,375	14,021	14,074
Percent on Oahu .....	77.1	77.0	76.8	77.1
Hawaii County .....	1,921	1,895	1,873	1,800
Kauai County .....	836	778	778	822
Maui County (incl. Kalawao) .....	1,621	1,619	1,595	1,557
Percent attended by M.D. or O.D. in hospital <u>1/</u>	98.1	98.3	98.0	98.3
Males per 100 females .....	107.4	107.1	108.2	105.7
Median weight of single births (grams) .....	3,292	3,293	3,307	3,306
Percent low birth weight (under 2,500 grams) ...	6.4	7.3	6.6	6.1
Percent single births under 40 weeks gestation .	49.7	51.7	51.3	51.3
Percent plural .....	1.6	1.8	1.8	2.0
Percent with 1 or more congenital malformations .....	1.2	1.1	1.0	1.1
Percent illegitimate .....	19.8	19.2	20.0	20.4
Percent with prenatal visit in first three months .....	73.6	75.4	74.7	76.4
Percent first child born to mother .....	32.3	32.4	31.9	31.6
Percent first child born alive to mother .....	43.1	42.6	41.7	42.5
Median age of mothers (years) .....	25	25	26	26
Median age of known fathers (years) .....	29	29	29	29

1/ Place of occurrence basis.

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



Table 62.-- MEDIAN AND MEAN AGE OF MOTHERS, BY MILITARY STATUS OF FATHERS, FOR RESIDENT BIRTHS OCCURRING IN HAWAII: 1960 TO 1986

Year	Median age (years)			Mean age (years)		
	All births	Military	Civilian	All births	Military	Civilian
1960 <sup>1/</sup> ...	26.0	...	...	26.7	...	...
1970 .....	25.0	24.3	25.4	25.8	25.2	25.9
1980 .....	26.0	24.6	26.4	26.3	25.2	26.6
1984 .....	26.3	24.5	26.9	26.7	25.3	27.1
1986 .....	26.7	24.9	27.3	27.0	25.7	27.4

<sup>1/</sup> Includes nonresident births occurring in Hawaii. Not available by military status.

Source: Calculated by DBED from tabulations by 5-year age periods supplied by Hawaii State Department of Health.

Table 63.-- LIVE BIRTHS OCCURRING IN HAWAII, SINGLE AND PLURAL: 1980 TO 1986

[Individuals, not sets. Excludes stillbirths]

Year	All types	Single births	Twins	Triplets	Quadruplets <sup>1/</sup>	Unknown
1980 ....	18,216	17,920	280	9	4	3
1981 ....	18,230	17,910	312	5	2	1
1982 ....	18,734	18,400	331	3	-	-
1983 ....	19,164	18,866	292	6	-	-
1984 ....	18,756	18,423	333	-	-	-
1985 ....	18,329	18,004	325	-	-	-
1986 ....	18,341	17,974	356	6	4	1

<sup>1/</sup> One set each in 1980, 1981 (only 2 born alive), and 1986. The first recorded quadruplet birth in Hawaii occurred in 1930. No quintuplet or higher-order births have ever been recorded.

Source: Hawaii State Department of Health, records; Honolulu Star-Bulletin, April 16, 1930, p. 3; Honolulu Advertiser, June 16, 1931, p. 7, and March 14, 1980, p. A-1.

Table 64.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1986

[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	No Haw'n blood	
All groups ....	18,253	8,281	8,937	5,503	3,434	1,035
Military .....	3,923	3,038	881	189	692	4
Civilian <u>3/</u> .....	14,330	5,243	8,056	5,314	2,742	1,031
PERCENT DISTRIBUTION						
All groups ....	100.0	45.4	49.0	30.1	18.8	5.7
Military .....	100.0	77.4	22.5	4.8	17.6	0.1
Civilian <u>3/</u> .....	100.0	36.6	56.2	37.1	19.1	7.2

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/ Includes births in which father's military status was not reported.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 65.-- CHILDREN EVER BORN, BY MARITAL STATUS AND AGE OF MOTHERS: 1980

[For earlier years, 1950-1970, see Data Book 1984, table 69]

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
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
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

<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 66.-- MOST COMMON NAMES ON BIRTH CERTIFICATES, BY SEX: 1986

[A total of 5,262 first names, including variant spellings, was reported for the 18,341 babies born in Hawaii in 1986. For leading names in 1909-1914, 1950, and 1983, see Data Book 1984, table 72]

Rank	Boys' names <u>1/</u>		Girls' names <u>2/</u>	
	Name	Number	Name	Number
1 .....	Michael .....	266	Ashley .....	222
2 .....	Christopher .....	224	Jessica .....	143
3 .....	Ryan .....	179	Jennifer .....	135
4 .....	Matthew .....	172	Nicole .....	132
5 .....	Joshua .....	171	Amanda .....	91
6 .....	Brandon .....	156	Michelle .....	87
7 .....	Justin .....	154	Tiffany .....	87
8 .....	David .....	130	Sarah .....	80
9 .....	James .....	127	Stephanie .....	65
10 .....	John .....	110	Christina .....	63

1/ The shortest were B and D (one of each). The longest was Kananiōmaunalokukiekiema.

2/ The shortest was K; the longest, Kauanoekalaniulumahiehi.

Source: Hawaii State Department of Health, Research and Statistics Office, April 29, 1987.

Table 67.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY:  
1978 AND 1987

Rank	1978		1987	
	Name	Columns	Name	Columns
1 .....	Lee .....	18.5	Lee .....	20.67
2 .....	Wong .....	16.0	Wong .....	17.12
3 .....	Young .....	11.0	Young .....	11.33
4 .....	Chang .....	10.5	Chang .....	10.67
5 .....	Smith .....	9.5	Kim .....	10.33
6 .....	Chun .....	9.5	Chun .....	10.0
7 .....	Ching .....	8.75	Smith .....	9.75
8 .....	Kim .....	8.67	Ching .....	8.88
9 .....	Nakamura .....	8.5	Lum (tie) .....	7.5
10 .....	Lum .....	7.5	Johnson (tie).....	7.5

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 25, 1978 p. A-11, and January 15, 1987, p. A-3.

Table 68.-- MOST COMMON SURNAMES ON BIRTH AND DEATH  
CERTIFICATES: 1986

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1 .....	Lee .....	106	Lee .....	43
2 .....	Smith .....	84	Wong .....	37
3 .....	Wong .....	75	Chang .....	35
4 .....	Johnson .....	61	Nakamura .....	25
5 .....	Kim .....	53	Young .....	25
6 .....	Young .....	50	Ching .....	24
7 .....	Brown .....	50	Chun .....	24
8 .....	Williams .....	47	Smith .....	22
9 .....	Silva .....	43	Silva .....	22
10 .....	Higa .....	38	Chung .....	18

Source: Hawaii State Department of Health, special tabulation.

Table 69.-- AVERAGE LIFETIME, BY SEX: 1959-61 TO 1984-86

Period	Years			Rank (50 States and D.C.)		
	Both sexes	Male	Female	Both sexes	Male	Female
1959-1961 ....	71.55	69.79	74.01	7	(NA)	(NA)
1969-1971 ....	73.60	71.02	76.79	1	1	3
1979-1981 ....	77.02	74.08	80.33	1	1	1
1984-1986 <u>1/</u> .	77.98	75.37	80.92	(NA)	(NA)	(NA)

NA Not available.

1/ Average lifetime for all States combined in 1985 was 74.7 years for both sexes combined, 71.2 years for males, and 78.2 years for females.

Source: U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, Life Tables: 1959-61, Vol. 2, No. 12, Hawaii State Life Tables: 1959-61 (June 1966), p. 160, and unpublished tabulations; U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, U.S. Decennial Life Tables for 1969-71, Vol. II, No. 12, Hawaii State Life Tables: 1969-71 (June 1975), p. 12-6; and U.S. Department of Health and Human Services, National Center for Health Statistics, U.S. Decennial Life Tables for 1979-81, Vol. II, State Life Tables, No. 12, Hawaii (December 1985), p. 12-3; Robert W. Gardner, East-West Population Institute, Complete Life Tables by Age and Sex for Hawaii, 1984-86 (unpublished, September 11, 1987); U.S. Department of Health and Human Services, National Center for Health Statistics, "Advance Report of Final Mortality Statistics, 1985," Monthly Vital Statistics Report, Vol. 36, No. 5, Supp., August 28, 1987, pp. 2-3.

Table 70.-- SELECTED LIFE TABLE VALUES, BY SEX: 1979-1981

Age in years	Of 100,000 born alive				Average remaining lifetime (years)	
	Number living at beginning of year of age		Number dying during year of age		Male	Female
	Male	Female	Male	Female		
0-1 .....	100,000	100,000	1,121	889	74.08	80.33
1-2 .....	98,879	99,111	93	64	73.92	80.05
5-6 .....	98,607	98,920	38	25	70.11	76.20
10-11 ...	98,467	98,828	17	13	65.21	71.27
15-16 ...	98,303	98,733	81	34	60.31	66.34
20-21 ...	97,755	98,513	137	54	55.64	61.48
25-26 ...	97,054	98,235	131	52	51.02	56.65
30-31 ...	96,430	97,981	132	58	46.34	51.79
35-36 ...	95,720	97,644	155	85	41.66	46.96
40-41 ...	94,857	97,134	218	133	37.02	42.19
45-46 ...	93,529	96,341	327	190	32.50	37.52
50-51 ...	91,508	95,250	582	277	28.16	32.92
55-56 ...	88,125	93,616	759	420	24.14	28.44
60-61 ...	83,935	91,126	1,051	629	20.22	24.15
65-66 ...	77,746	87,417	1,483	930	16.61	20.06
70-71 ...	69,466	81,987	1,962	1,331	13.28	16.21
75-76 ...	58,516	74,108	2,536	2,009	10.28	12.65
80-81 ...	44,728	62,633	3,084	2,725	7.66	9.49
85-86 ...	28,579	47,208	3,168	3,831	5.56	6.73
90-91 ...	13,630	27,228	2,454	3,681	3.99	4.84
95-96 ...	4,201	11,023	1,099	2,405	2.98	3.48
100-101 .	779	2,701	248	761	2.49	2.81
105-106 .	101	448	36	147	2.22	2.44

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, U.S. Decennial Life Tables for 1979-81, Vol. II, State Life Tables, No. 12, Hawaii, DHHS Pub. No. (PHS) 86-1151-12 (December 1985), tables 2 and 3.

Table 71.-- DEATHS OCCURRING IN HAWAII, BY PLACE OF DEATH:  
1968 AND 1986

Year	All deaths	Hospital	Nursing or care home	Other specif. places <u>1/</u>	Home, street, etc.	Unknown
1968 .....	4,275	3,274	152	113	736	-
1986 .....	6,171	4,205	435	165	1,364	2

1/ Clinic, doctor's office, enroute to Hawaii, etc.  
Source: Hawaii State Department of Health, records.

Table 72.-- CHARACTERISTICS OF RESIDENT DEATHS: 1983 TO 1986

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1983	1984	1985	1986
Number of resident deaths .....	5,409	5,571	5,751	5,788
City and County of Honolulu .....	4,070	4,122	4,294	4,248
Hawaii County .....	590	707	715	719
Kauai County .....	284	272	256	313
Maui County (incl. Kalawao) .....	465	470	486	508
Males per 100 females .....	143.1	146.7	146.3	138.0
Median age (years) .....	70.6	71.1	71.9	73.2
Percent married .....	48.4	47.4	47.5	47.0
Deaths under 1 year .....	175	186	159	168
Per 1,000 live births .....	9.2	10.0	8.7	9.2
Fetal deaths <u>1/</u> .....	7,619	6,906	7,068	7,178
Per 1,000 deliveries .....	285	270	279	281
Fetal deaths, 20 or more weeks gestation <u>2/</u>	219	178	177	202
Per 1,000 live births .....	11.4	9.5	9.7	11.0
Standard fetal deaths <u>3/</u> .....	1,627	1,629	1,473	1,478
Elective abortions .....	5,992	5,277	5,595	5,700
Per 1,000 live births .....	313.9	282.7	306.3	312.3

1/ Includes elective abortions.

2/ Place of occurrence basis. Includes elective abortions if 20 weeks or more.

3/ Excludes elective abortions.

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



Table 73.-- CAUSE OF DEATH, BY SEX: 1986

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths .....	5,788	3,356	2,432
Tuberculosis .....	6	4	2
Syphilis .....	-	-	-
Other infective .....	68	38	30
Malignant neoplasm .....	1,396	790	606
Digestive organs .....	438	272	166
Respiratory system .....	353	233	120
Breast .....	104	1	103
Genital organs .....	148	83	65
Urinary organs .....	51	31	20
Leukemia .....	39	26	13
Other .....	263	144	119
Diabetes mellitus .....	163	86	77
Heart disease .....	1,890	1,116	774
Rheumatic .....	22	12	10
Hypertensive .....	62	33	29
Ischemic .....	1,135	685	450
Other heart .....	671	386	285
Hypertension .....	21	11	10
Cerebrovascular disease .....	400	204	196
Arteriosclerosis .....	47	26	21
Aneurysm .....	60	41	19
Other circulatory .....	13	6	7
Influenza/pneumonia .....	240	135	105
Bronchitis/emphysema/asthma .....	61	33	28
Peptic ulcer .....	14	12	2
Cirrhosis of liver .....	68	40	28
Nephritis and nephrosis .....	45	24	21
Pregnancy, birth & puerperium .....	1	-	1
Congenital anomalies .....	51	31	20
Perinatal conditions .....	85	51	34
Ill-defined conditions .....	53	24	29
Other diseases .....	690	393	297
Accidents .....	215	150	65
Motor vehicles .....	115	79	36
Other .....	100	71	29
Suicide .....	110	75	35
Homicide & legal intervention .....	47	31	16
Other external causes .....	44	35	9

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 74.-- MAJOR CAUSES OF DEATH: 1908-1912 TO 1986

[Annual averages. Excludes armed forces, 1940-1962]

Year	All causes	Major causes <u>1/</u>					
		Tuberculosis	Malignant neoplasms	Diseases of heart	Cerebrovascular disease	Influenza, pneumonia	Gastritis, enteritis, etc. <u>2/</u>
Number:							
1908-12	3,100	365	81	181	70	335	305
1918-22	4,430	499	164	274	165	896	486
1928-32	4,073	400	236	506	233	522	277
1938-42	3,075	263	292	683	248	230	41
1948-52	2,923	108	435	868	258	102	23
1958-62	3,377	22	575	1,111	296	135	15
1970 ..	4,211	14	764	1,386	401	173	...
1980 ..	4,903	15	1,141	1,544	376	178	...
1986 ..	5,788	6	1,396	1,890	400	240	...
Percent:							
1908-12	100.0	11.8	2.6	5.8	2.3	10.8	9.8
1918-22	100.0	11.3	3.7	6.2	3.7	20.2	11.0
1928-32	100.0	9.8	5.8	12.4	5.7	12.8	6.8
1938-42	100.0	8.6	9.5	22.2	8.1	7.5	1.3
1948-52	100.0	3.7	14.9	29.7	8.8	3.5	0.8
1958-62	100.0	0.7	17.0	32.9	8.8	4.0	0.4
1970 ..	100.0	0.3	18.1	32.9	9.5	4.1	...
1980 ..	100.0	0.3	23.3	31.5	7.7	3.6	...
1986 ..	100.0	0.1	24.1	32.7	6.9	4.1	...
Rate: <u>3/</u>							
1908-12	1,601	188	42	93	36	173	158
1918-22	1,663	187	62	103	62	336	182
1928-32	1,105	109	64	137	63	142	75
1938-42	739	63	70	164	60	55	10
1948-52	616	23	92	183	54	21	5
1958-62	582	4	99	192	51	23	3
1970 ..	546	2	99	180	52	22	...
1980 ..	506	2	118	159	39	18	...
1986 ..	545	1	131	178	38	23	...

Continued on next page.

Table 74.-- MAJOR CAUSES OF DEATH: 1908-1912 TO 1986 -- Con.

- 1/ Includes the three leading causes in each listed year.  
 2/ Gastritis, duodenitis, enteritis, and colitis, except diarrhea of newborn. Not separately reported in 1970 and later years.  
 3/ Per 100,000 resident population, 1908-1939 and 1970-1986; per 100,000 civilian population, 1940-1962. Data for periods before 1970 based on 5-year average populations. Population estimates through 1939 from Robert C. Schmitt, Historical Statistics of Hawaii, p. 10; 1940 and later years from DPED, Statistical Reports 172 and 195. Rates not adjusted for age.  
 Source: Hawaii State Department of Health, "Mortality Trends in Hawaii, 1908-1962," R & S Report, No. 2 (April 1973), and Statistical Report for 1970 (pp. 33-34), 1980 (pp. 23-25), and 1986 (forthcoming).

Table 75.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1981 TO 1986

[For annual data, 1956-1980, see Data Book 1980, table 36, and Data Book 1982, table 41]

Method	1981	1982	1983	1984	1985	1986
All methods .....	5,269	5,495	5,725	5,942	6,116	6,171
Burial .....	2,284	2,324	2,513	2,517	2,610	2,512
Cremation .....	2,342	2,515	2,588	2,808	2,886	3,002
Removal .....	613	613	594	587	586	614
Entombment .....	23	33	25	26	27	41
Educational purpose .....	-	-	-	-	-	-
Other .....	-	-	3	-	-	-
Unknown .....	7	10	2	4	7	2

Source: Hawaii State Department of Health, Statistical Report for 1981-1985, and records.

Table 76.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:  
ANNUAL AVERAGES, 1939 TO 1986

Years	All deaths	Burial	Cremation	Removal	All others <u>1/</u>
ANNUAL AVERAGES					
1939 .....	3,214	(NA)	600	(NA)	(NA)
1940-1955 .....	3,293	(NA)	(NA)	(NA)	(NA)
1956-1962 <u>2/</u> .....	3,326	1,918	1,219	189	
1963-1967 <u>2/</u> .....	3,731	2,070	1,364	279	18
1968-1972 .....	4,299	2,251	1,571	448	29
1973-1977 .....	4,639	2,265	1,803	545	26
1978-1982 <u>3/</u> .....	5,193	2,306	2,255	590	43
1983-1986 .....	5,988	2,538	2,821	595	34
PERCENT DISTRIBUTION					
1939 .....	100.0	(NA)	18.7	(NA)	(NA)
1940-1955 .....	100.0	(NA)	(NA)	(NA)	(NA)
1956-1962 <u>2/</u> .....	100.0	57.7	36.6	5.7	
1963-1967 <u>2/</u> .....	100.0	55.5	36.6	7.5	0.5
1968-1972 .....	100.0	52.4	36.5	10.4	0.7
1973-1977 .....	100.0	48.8	38.9	11.8	0.6
1978-1982 <u>3/</u> .....	100.0	44.4	43.4	11.4	0.8
1983-1986 .....	100.0	42.4	47.1	9.9	0.6

NA Not available.

1/ Entombment, educational purpose, lost at sea, other method, or unknown.

2/ Excludes armed forces.

3/ Cremations overtook burials in 1981.

Source: "Eternal it flows ...," The Sales Builder, March 1940, pp. 3-15 (at p. 14). Hawaii State Department of Health, Statistical Report for 1956-1962, 1964-1967, and 1974-1985; "Vital Statistics and Population of Hawaii, 1900 to 1973," R&S Report, No. 5 (June 1974); and unpublished tabulations.

Table 77.-- CATASTROPHIC MORTALITY: 1977 TO 1987

[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 December 27, 1987]

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, Oahu .....	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, Oahu .....	3-car auto crash .....	5
1983: June 16 .....	Honopu, Kauai .....	Airplane crash .....	14
1985: Jan. 15 .....	540 mi. N. of Honolulu .	Helicopter crash .....	7
1987: Dec. 23 .....	At sea W. of Molokai ...	Airplane disappearance	8

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 DBED Library, 1976.

Source: DBED file of newspaper accounts.

Table 78.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:  
1985 AND 1986

Date	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1985: June 30 .....	1,899	1,565	127	54	153
1986: June 30 .....	2,000	1,631	147	66	156

Source: Hawaii State Department of Social Services and Housing, Services for the Blind Branch, records.

Table 79.-- PERCENT OF ADULT POPULATION AFFECTED BY SPECIFIED HEALTH RISK FACTORS, BY ISLANDS: 1986

[Excludes inmates of institutions, armed forces living on military bases, and all persons less than 18 years old]

Health risk factor	State	Hawaii	Maui	Molokai, Lanai	Oahu	Kauai
Inadequate seatbelt use ...	9.2	11.4	14.7	8.0	7.5	26.0
Current hypertension .....	15.9	21.2	14.7	15.5	15.4	16.0
Sedentary lifestyle .....	48.3	40.7	43.5	40.8	49.7	49.5
Obesity .....	16.8	18.3	15.8	21.5	16.0	28.4
Smoking .....	24.1	32.2	20.7	19.7	23.6	23.0
Smokeless tobacco .....	1.2	0.4	0.7	0.7	1.2	2.5
Acute drinking .....	20.1	20.8	18.6	18.0	20.2	19.5
Chronic drinking .....	9.6	10.4	11.3	10.2	9.2	10.4
Drinking and driving .....	3.3	2.6	4.0	4.3	3.1	7.2

Source: Hawaii State Department of Health, Hawaii Health Messenger, Summer 1987, revised.

Table 80.-- ACUTE CONDITIONS: 1986

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions .....	2,151,954	210.2
Infective parasitic diseases ....	142,326	13.9
Respiratory condition .....	1,510,339	147.5
Digestive system condition .....	47,658	4.6
Injuries .....	189,045	18.5
All other acute conditions .....	262,586	25.6

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

Table 81.-- CHRONIC CONDITIONS: 1986

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition .....	20,065	19.6
Impairment of back or spine .....	52,127	50.9
Hypertension without heart involvement	78,942	77.1
Arthritis/rheumatism .....	31,597	30.8
Hearing impairment .....	34,866	34.0
Asthma with or without hayfever .....	35,311	34.5
Diabetes .....	18,618	18.2
Mental and nervous condition .....	11,669	11.4
Visual impairment .....	11,194	10.9
Malignant neoplasms .....	6,577	6.4
Chronic and allergic skin conditions ..	44,704	43.6
Chronic sinusitis .....	26,363	25.7
Hayfever without asthma .....	58,149	56.8
Stomach ulcer .....	5,978	5.8
Bronchitis/emphysema .....	15,738	12.8
Benign and unspecified neoplasms .....	4,219	4.1
Hemorrhoids .....	11,348	11.1
Thyroid/goiter .....	7,995	7.8
Varicose veins .....	7,097	6.9
Gout .....	13,583	13.3

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

Table 82.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE  
CONDITIONS: 1983 AND 1986

Type of limitation	1983	1986
Persons with one or more chronic conditions .....	336,694	378,440
No limitation of activity .....	282,116	313,730
Limited, but not in major activity .....	24,264	26,073
Limited in amount or kind of activity .....	19,832	18,797
Unable to carry on major activity .....	10,482	10,893
Restricted days in past 12 months <u>1/</u> .....	12,788,125	12,697,600
Per person <u>2/</u> .....	13.0	12.4
Bed days in past 12 months .....	4,114,394	(NA)
Per person <u>2/</u> .....	4.2	(NA)
Work days lost by persons 17 years of age and older in past 12 months .....	1,411,259	(NA)
Per employed person 17 years and older <u>2/</u> .....	3.5	(NA)
School days lost by persons 6 to 16 years of age in past 12 months .....	570,945	(NA)
Per pupil 6 to 16 years of age <u>2/</u> .....	3.3	(NA)

NA Not available.

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: Hawaii State Department of Health, Hawaii Health Surveillance Survey Program, special tabulations.



Table 83.-- SPECIFIED COMMUNICABLE DISEASES: 1984 TO 1986

Disease	Cases			Deaths		
	1984	1985	1986	1984	1985	1986
All reportable diseases ..	8,512	11,377	9,765	35	38	32
Acquired Immunodeficiency Syndrome (AIDS) <sup>1/</sup> .....	16	36	58	10	18	15
Chickenpox .....	834	1,494	1,386	-	-	-
Encephalitis .....	5	3	3	-	-	1
Gonorrhea .....	2,664	2,162	1,619	-	-	-
Hansen's Disease .....	105	31	37	5	-	-
Hepatitis, all types .....	130	260	101	6	7	2
Influenza .....	328	1,009	316	-	-	3
Measles (Rubeola) .....	142	31	37	-	-	-
Meningitis, all types .....	147	175	226	3	5	4
Mumps .....	22	19	24	-	-	-
Rubella .....	5	44	8	-	-	-
Salmonellosis .....	380	337	428	-	-	1
Scarlet fever, other strep. ...	2,973	5,036	4,892	-	-	-
Syphilis .....	150	123	56	-	-	-
Tuberculosis .....	218	189	180	11	8	6
All others .....	393	428	394	-	-	-

<sup>1/</sup> The earliest officially recorded case of AIDS in Hawaii was a 52-year old Oriental woman, who was diagnosed in May 1978 and who died in August 1978. The second case was an infant, infected by a blood transfusion on the Mainland in January 1982, who died later that month. The third case was a male homosexual, who was diagnosed in January 1982 and who died in February 1984. The third AIDS death occurred in August 1982. In this table, AIDS deaths are reported by year of diagnosis rather than year of occurrence.

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 103 and 106, and memorandum from Roy G. Ohye, Acting Chief, Epidemiology Branch, dated April 3, 1986.

Table 84.-- ALCOHOL AND DRUG USE, BY AGE AND SEX: 1984

[Based on a sample of persons 18 and over on the four largest islands]

Substance, sex, and age	Sample size	Use (percent of group)				
		None <u>1/</u>	Light	Moder- ate	Moderately heavy	Heavy
<b>ALCOHOL <u>2/</u></b>						
Total .....	2,503	47.3	24.4	12.9	7.3	8.1
Male .....	1,078	32.3	21.8	17.5	11.5	13.9
Female .....	1,412	56.4	26.4	9.4	4.1	3.7
18 to 24 years ....	426	42.7	25.6	15.3	7.5	8.9
25 to 34 years ....	426	37.5	29.2	15.6	7.5	8.9
35 to 44 years ....	479	44.5	28.6	13.8	6.1	7.1
45 to 54 years ....	326	51.5	24.2	9.2	6.8	8.3
55 to 64 years ....	367	55.3	19.1	10.9	7.1	7.6
65 to 74 years ....	226	61.5	13.7	11.5	7.5	5.8
75 years and over .	82	67.1	14.6	3.7	6.1	8.5
<b>DRUGS <u>3/</u></b>						
Total .....	2,503	57.0	6.5	30.8	2.6	3.1
Male .....	1,073	55.7	8.1	29.9	2.7	3.5
Female .....	1,411	57.8	5.2	31.7	2.5	2.8
18 to 24 years ....	424	41.7	12.5	38.0	3.5	4.3
25 to 34 years ....	594	44.4	10.9	35.0	5.1	4.6
35 to 44 years ....	479	57.0	6.3	32.6	1.5	2.7
45 to 54 years ....	326	66.3	2.2	28.2	0.9	2.5
55 to 64 years ....	367	73.0	1.6	21.0	1.9	2.5
65 to 74 years ....	225	76.4	0	21.3	1.3	0.9
75 years and over .	82	63.4	0	34.2	1.2	1.2

1/ For alcohol use, includes both non-drinkers and infrequent drinkers.

2/ Based on total ethanol consumption.

3/ Based on frequency of use, weighted by degree of danger to users, for marijuana/hashish, tranquilizers, barbituates, inhalants, LSD, PCP, cocaine, amphetamines, heroin, and morphine/codeine/percodan/demoral.

Source: Jonathan S. Raymond, Sharon Murakami, and Frank Ahern, Toward an Epidemiology of Mental Health and Alcohol and Drug Use in Hawaii (September 1985), tables 7 and 11.

Table 85.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,  
BY TYPE OF FACILITY: 1980 TO 1987

Category and year	Hospitals				Care homes	
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Residential <u>2/</u>	Family <u>3/</u>
Number of facilities:						
1980 .....	49	25	33	8	15	281
1981 .....	49	25	34	9	14	278
1982 .....	49	25	34	9	15	280
1983 .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1984 .....	48	24	32	10	16	272
1985 .....	47	23	32	10	(NA)	(NA)
1986 .....	48	23	33	9	(NA)	(NA)
1987 .....	51	23	36	9	17	633
Number of beds:						
1980 .....	6,416	2,886	2,656	874	490	1,042
1981 .....	6,488	2,925	2,670	893	500	1,055
1982 .....	6,424	2,875	2,668	881	516	1,098
1983 .....	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1984 .....	6,512	2,896	2,648	967	549	1,082
1985 .....	6,504	2,894	2,650	960	(NA)	(NA)
1986 .....	6,595	2,870	2,769	956	(NA)	(NA)
1987 .....	6,820	2,887	2,977	956	540	2,547

NA Not available.

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

2/ Five or more beds. Since 1987, category changed to Type II care homes consisting of more than five beds.

3/ Four or fewer beds. Since 1987, Type I care homes consisting of five beds or less.

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

Table 86.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE  
CIVILIAN HOSPITALS: 1980 TO 1986

[Excludes Tripler Army Medical Center]

Type of facility and year	Beds <u>1/</u>	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:					
1980 .....	2,359	117,404	2,047	6.4	70.9
1981 .....	2,366	99,247	1,675	6.2	71.0
1982 .....	(NA)	(NA)	(NA)	(NA)	(NA)
1983 .....	2,387	102,331	1,654	5.9	69.3
1984 .....	2,385	96,530	1,558	5.9	65.3
1985 .....	2,361	84,473	1,566	6.8	66.3
1986 <u>2/</u> .....	2,378	91,704	1,586	6.3	66.7
Long-term care:					
1980 .....	2,670	2,653	2,391	328.9	90.0
1981 .....	2,668	2,478	2,487	366.4	93.2
1982 .....	(NA)	(NA)	(NA)	(NA)	(NA)
1983 .....	2,648	2,574	2,519	357.3	95.2
1984 .....	2,650	2,606	2,552	357	96.3
1985 .....	2,769	2,575	2,590	367	93.5
1986 <u>2/</u> .....	2,977	2,901	2,602	327	87.4

NA Not available.

1/ Civilian bed count of succeeding year.

2/ Excludes statistics for Lanai.

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

Table 87.-- NUMBER AND BED CAPACITY OF HOSPITALS,  
BY TYPE OF FACILITY, BY ISLANDS: 1987

[Except for Tripler Army Medical Center, data are for facilities recognized by the Hawaii State Health Planning and Development Agency]

Category and island	Hospitals				Care homes	
	Total <u>1/</u>	Acute care <u>2/</u>	Long-term care	Specialty care	Type II <u>3/</u>	Type I <u>4/</u>
NUMBER OF FACILITIES						
State total ..	51	23	36	9	17	633
Oahu .....	33	10	21	7	11	496
Hawaii .....	6	5	6	-	1	63
Kauai .....	5	3	5	-	4	44
Maui .....	4	3	2	1	-	18
Molokai .....	2	1	1	1	1	12
Lanai .....	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	6,820	2,887	2,977	956	540	2,547
Oahu .....	5,253	2,344	1,985	924	406	2,040
Hawaii .....	672	251	421	-	13	246
Kauai .....	328	117	211	-	107	143
Maui .....	499	153	338	8	-	69
Molokai .....	54	16	14	24	14	49
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/ More than five beds.

4/ Five beds or less.

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 81 and 82.

Table 88.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE  
CIVILIAN HOSPITALS, BY ISLANDS: 1986

[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 .....	91,704	1,586	6.3	66.7
Oahu .....	67,499	1,295	6.8	67.3
Hawaii .....	11,006	135	4.5	53.8
Kauai .....	5,204	52	3.6	44.4
Maui .....	7,626	100	3.5	65.4
Molokai .....	369	4	3.5	25.0
Lanai .....	(NA)	(NA)	(NA)	(NA)
LONG-TERM CARE				
State total .....	2,901	2,602	327	87.4
Oahu .....	1,526	1,753	419	90.5
Hawaii .....	468	379	296	93.8
Kauai .....	233	127	101	83.0
Maui .....	289	330	418	97.6
Molokai .....	48	13	95	89.3
Lanai .....	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: Data by islands from Hawaii State Department of Health, Statistical Report 1986, pp. 82-85; state totals estimated by Hawaii State Department of Business and Economic Development.

Table 89.-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES:  
1979 TO 1986

Year	Average length of stay (days)	Average cost to hospital		Hospital semiprivate room charges <sup>1/</sup> (dollars)
		Per in-patient day (dollars)	Per admission (dollars)	
1979 .....	7.5	263.70	1,978	114.34
1980 .....	7.5	245.80	1,844	126.98
1981 .....	7.9	276.80	2,187	141.09
1982 .....	8.3	307.30	2,551	176.24
1983 .....	8.2	357.87	2,964	215.84
1984 .....	8.3	383.05	3,186	224.31
1985 .....	(NA)	(NA)	(NA)	230.82
1986 .....	(NA)	(NA)	(NA)	252.89

NA Not available.

<sup>1/</sup> January data, except 1983, which refers to July.

Source: Health Insurance Association of America, Source Book of Health Insurance Data (biennial) and Update (biennial).

Table 90.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:  
1981 TO 1986

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
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 .....	6,022	303	5,719	4,761	4,112	5,030	9,970
1984 <sup>1/</sup> ...	5,692	337	5,355	4,307	3,845	4,887	9,724
1985 .....	6,328	251	6,077	3,933	3,268	4,221	8,891
1986 .....	5,852	252	5,600	3,826	3,292	3,725	8,342

<sup>1/</sup> Year ended June 30.

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

Table 91.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:  
1983 TO 1987

Year	Number of beds, June 30	Admissions <u>1/</u>		Patients in hospital <u>2/</u>	
		Total	First	Average <u>1/</u>	June 30
1983 ....	220	1,070	445	239	243
1984 ....	220	744	276	221	240
1985 ....	220	647	514	220	224
1986 <u>3/</u> .	240	738	611	263	272
1987 <u>3/</u> .	240	776	614	254	223

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

3/ Includes children's unit at Leahi Hospital assigned to the Hawaii State Hospital effective July 1, 1985.

Source: Hawaii State Hospital, records.

Table 92.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1983 TO 1987

[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	
1983 ....	426	10	365	375	614
1984 ....	410	2	356	364	603
1985 ....	410	2	354	360	586
1986 ....	410	-	331	333	593
1987 ....	285	-	266	260	575

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; and Community Services for the Developmentally Disabled Branch, records.



Table 93.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1982 TO 1986

Subject	1982	1983	1984	1985	1986
Patients on register, Dec. 31 ..	550	578	661	651	653
Medically released .....	550	578	661	651	653
At home .....	432	462	555	545	549
Kalaupapa .....	112	110	101	101	99
Hale Mohalu or Leahi .....	6	6	5	5	5
Net annual change .....	44	28	83	-10	2
New cases added .....	49	41	43	31	37
Cases returned to register ...	11	5	58	4	6
Deaths .....	4	6	15	10	4
Left the State .....	12	12	5	39	6
Discharged .....	-	-	-	-	26
Registry correction (net) ....	-	-	+2	+4	-5

Source: Hawaii State Department of Health, Statistical Report, 1986, pp. 108-109.

Table 94.-- SELECTED HEALTH SERVICES (SIC 801-803): 1982

[Includes only establishments with payroll]

Service	Estab- lish- ments	Receipts (\$1,000)	Annual payroll 1/ (\$1,000)	Paid em- ployees, 1/ mid- March
Offices of physicians .....	889	229,507	97,872	3,830
Offices of osteopathic physicians	13	1,533	626	31
Offices of dentists .....	488	99,175	36,856	2,420
With in-house laboratories .....	75	16,808	(NA)	(NA)
Medical and dental laboratories ..	58	18,838	8,055	497
Medical laboratories .....	21	12,685	5,227	313
Dental laboratories .....	37	6,153	2,828	184

NA Not available.

1/ For data by occupation, see source.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 25-29.

Table 95.-- DENTAL CARE, BY AGE GROUP: 1979

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

Subject	All ages <sup>1/</sup>	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: <sup>2/</sup>					
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: <sup>2/</sup>					
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

<sup>1/</sup> Includes 5,456 persons not reporting age.

<sup>2/</sup> Some respondents reported two or more categories.

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

Table 96.-- POPULATION USING FLUORIDATED WATER: 1964 TO 1980

Subject	1964	1972	1980
Persons using fluoridated water <u>1/</u> .....	87,000	104,500	61,000
Percent of total population .....	12.2	12.8	6.3
Rank (50 States, D.C., and P.R.) ...	41	48	50

1/ Covers both natural and controlled fluoridation.

Source: Statistical Abstract of the United States for 1965 (p. 174) and 1975 (p. 180); Hawaii Health Messenger, Spring 1987, p. 3.

Table 97.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: NOVEMBER 19, 1986

Place of address	Physicians and surgeons <u>1/</u>	Dentists	Registered nurses	Pharmacists
Total licensed	3,597	1,103	9,368	764
Hawaii addresses ...	2,150	847	7,088	469
Hawaii .....	170	74	572	37
Maui .....	147	50	531	35
Lanai .....	3	-	8	1
Molokai .....	8	4	33	2
Oahu .....	1,740	694	5,671	375
Kauai .....	82	25	273	19
Niihau .....	-	-	-	-
Out of State .....	1,447	256	2,280	295

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

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, data provided February 13, 1987.

Table 98.-- MARRIAGES AND DIVORCES: 1970 TO 1986

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments <u>2/</u>	Rates per 1,000 resident population <u>3/</u>		Percent of marriages	
	Total	Resident <u>1/</u>		Resident marriages	Divorces, annulments <u>2/</u>	Nonresident <u>4/</u>	Inter-racial
1970 ...	10,599	7,889	2,589	10.2	3.4	25.6	33.7
1971 ...	9,734	8,104	3,691	10.1	4.6	16.7	38.7
1972 ...	9,750	8,482	3,891	10.2	4.7	13.0	38.6
1973 ...	9,776	8,656	4,170	10.2	4.9	11.5	40.6
1974 ...	9,649	8,500	4,111	9.8	4.7	11.9	40.1
1975 ...	9,673	8,440	4,265	9.5	4.8	12.7	39.6
1976 ...	9,769	8,318	4,712	9.2	5.2	14.9	38.8
1977 ...	10,266	8,427	4,601	9.2	5.0	17.9	37.5
1978 ...	10,736	8,650	4,837	9.3	5.2	19.4	37.9
1979 ...	11,678	9,424	5,055	9.9	5.3	19.3	38.2
1980 ...	11,856	9,442	4,438	9.7	4.6	20.4	37.6
1981 ...	12,218	9,445	4,253	9.6	4.3	22.7	36.1
1982 ...	13,483	10,053	4,233	10.1	4.2	25.4	35.7
1983 ...	14,062	10,216	4,583	10.0	4.5	27.3	35.5
1984 ...	14,982	10,020	4,769	9.7	4.6	33.3	33.4
1985 ...	15,421	9,893	4,887	9.4	4.6	35.8	33.6
1986 ...	16,219	9,571	4,674	9.0	4.4	30.4	30.7

1/ One or both partners residents of Hawaii.

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

3/ Based on estimates in DPED, Statistical Reports 172 and 195.

4/ Both partners nonresidents of Hawaii.

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

Table 99.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1983 TO 1986

[Place of occurrence basis]

Subject	1983	1984	1985	1986
MARRIAGES				
Number .....	14,062	14,982	15,421	16,219
Percent on Oahu .....	69.8	66.8	64.5	62.0
Percent Hawaii residents:				
Both bride and groom .....	67.5	61.7	59.4	54.6
One partner only .....	5.2	5.2	4.7	4.4
Neither bride nor groom .....	27.3	33.1	35.8	41.0
Median age (years):				
Groom .....	29.0	29.7	29.9	30.6
Bride .....	26.8	27.5	27.8	28.1
Percent previously married:				
Groom .....	36.6	38.3	39.3	40.4
Bride .....	36.8	38.8	39.1	39.6
DIVORCES AND ANNULMENTS				
Number .....	4,583	4,769	4,887	4,674
Divorces .....	4,573	4,758	4,875	4,652
Annulments .....	10	11	12	19
Not reported .....	-	-	-	3
Percent occurring on Oahu .....	76.1	79.2	77.2	76.2
Residence:				
Both residents of Hawaii .....	76.1	74.2	75.3	74.4
Only husband nonresident .....	12.2	13.0	12.3	12.9
Only wife nonresident .....	11.8	12.8	12.4	12.5
Both nonresidents .....	-	-	-	0.1
Median age (years):				
Husband .....	33.4	33.9	34.3	34.3
Wife .....	30.8	31.3	32.0	32.1
Percent interracial <sup>1/</sup> .....	39.9	41.1	39.0	38.2
Percent with children under 18 years ....	54.4	54.0	55.6	53.2
Median years married .....	5.4	6.1	6.3	6.4

1/ 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 100.-- RESIDENT MARRIAGES, TOTAL AND INTERRACIAL, BY OCCUPATION OF BRIDE AND GROOM: 1986

[For earlier years, see Data Book 1976, table 41]

Occupation	By occupation of groom			By occupation of bride		
	All marriages	Mixed marriages		All marriages	Mixed marriages	
		Number	Percent		Number	Percent
Total .....	9,570	4,447	46.5	9,570	4,447	46.5
No occupation .....	702	342	48.7	2,802	1,402	50.0
Prof., technical ...	1,221	551	45.1	1,179	502	42.6
Farm, mgr., official	1,080	524	48.5	603	311	51.6
Clerical .....	434	225	51.8	2,319	1,129	48.7
Sales .....	431	185	42.9	621	315	50.7
Craft, foremen .....	1,389	713	51.3	94	41	43.6
Operatives .....	585	304	52.0	115	52	45.2
Priv. household ....	1,135	579	51.0	1,122	555	49.5
Farm laborers .....	16	8	50.0	7	2	28.6
Labor, exc. farm ...	372	156	41.9	32	15	46.9
Armed forces .....	2,194	855	39.0	669	119	17.8
Unknown .....	11	5	45.5	7	4	57.1

Source: Hawaii State Department of Health, records.

Table 101.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT,  
BY RACE MIXTURE AND TYPE OF CEREMONY: 1986

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	
		At least one partner Hawaii resident	Both partners nonresidents
All marriages .....	16,219	9,570	6,649
Race of bride and groom:			
Both partners same .....	11,126	5,123	6,003
Different .....	5,093	4,447	646
Percent different .....	31.4	46.5	9.7
Type of ceremony:			
Civil .....	4,990	3,875	1,115
Religious .....	11,228	5,694	5,534
Unknown .....	1	1	-
Percent civil .....	30.8	40.5	16.8

Source: Hawaii State Department of Health, Research and Statistics Office, special tabulations.

Table 102.-- PERSONAL HEALTH CARE EXPENDITURES: 1966 AND 1982

Type of expenditure	Total (million dollars)		Per capita (dollars)	
	1966	1982	1966	1982
All expenditures .....	147.9	1,224.4	208	1,228
Hospital care .....	56.4	477.6	79	479
Physicians' services .....	33.3	374.5	47	376
Dentists' services .....	14.2	133.0	20	133
Other professional services ..	3.1	20.8	4	21
Drugs and medical sundries ...	19.2	92.9	27	93
Eyeglasses and appliances ....	4.1	22.6	6	23
Nursing home care .....	4.2	62.8	6	63
Other health services .....	13.6	40.1	19	40

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Health Care Financing Review, Summer 1985, pp. 19, 21, 37, and 45.

Table 103.-- 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 104.-- 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 105.-- 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 106.-- 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.