

## Section 2

# VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases, accidents, drinking and smoking, height and weight, hospitals, 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 6,696 resident deaths in 1991, or 5.9 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 7.0 in 1991. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fourth. Resident live births in 1992 numbered 19,837, 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 2,013 in 1988. Fully 96.4 percent of all babies were born in hospitals in 1992, and 19.4 percent were born to military couples. More than one out of four births was to an unmarried woman. There were 7,460 fetal deaths in 1992, including 5,942 elective abortions. Marriages numbered 17,725 in 1992, with over 43 percent accounted for by nonresidents. Divorces reached a 1992 total of 5,040. The State had 25 acute care hospitals (with 3,175 beds), 40 long-term care facilities (with 3,416 beds), and 11 specialty care facilities (with 810 beds) in 1990. There were 2,803 physicians and surgeons, 971 dentists, 9,609 professional nurses, and 664 pharmacists licensed and living in Hawaii as of March 1993. Acute conditions per 100 persons numbered 245 in 1988, with respiratory conditions the most common complaint (at 168 cases per 100 persons). Among chronic conditions reported in the 1988 survey data, the most frequently mentioned were hypertension (7.8 per 100 persons), impairments of the back or spine (6.7), and hayfever (6.4). The most common communicable diseases reported to authorities in 1991 were chickenpox, with 825 cases, and gonorrhea, with 695, but the most fatal was AIDS (79 deaths). State mental health facilities served 8,110 patients in 1991, but the number of in-patients at the end of the year was only 182. Among persons 18 years old and over in 1988, 9.4 percent were heavy drinkers and 23.8 percent were current regular cigarette smokers. Tooth decay was a serious problem among Island children. 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 source for data on vital statistics and health is the annual statistical report 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: 1993* contain data for the nation as a whole.

**Table 2.1-- BIRTHS AND DEATHS: 1970 TO 1992**

Calendar year	Resident births <sup>1/</sup>	Resident deaths <sup>1/</sup>	Rates per 1,000 resident population <sup>2/</sup>		Rates per 1,000 live births <sup>3/</sup>		
			Births	Deaths	To unmarried mothers	Fetal deaths <sup>4/</sup>	Infant deaths <sup>5/</sup>
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	18.6	5.0	181.8	13.1	10.5
1982.....	18,675	5,123	18.8	5.2	186.3	12.7	8.9
1983.....	19,090	5,409	18.8	5.3	197.8	11.4	10.0
1984.....	18,667	5,571	18.2	5.4	191.8	9.5	10.9
1985.....	18,267	5,751	17.6	5.5	201.3	9.7	9.1
1986.....	18,253	5,788	17.4	5.5	203.9	11.0	9.2
1987.....	18,555	6,149	17.4	5.8	213.7	9.2	8.8
1988.....	18,937	5,970	17.5	5.5	223.3	10.8	7.4
1989.....	19,335	6,381	17.7	5.8	239.0	9.9	8.4
1990.....	20,438	6,687	18.4	6.0	249.3	10.4	7.1
1991.....	19,880	6,696	17.5	5.9	262.5	10.5	7.0
1992.....	19,837	6,846	17.2	5.9	264.5	11.1	6.5

<sup>1/</sup> 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.

<sup>2/</sup> Based on July 1 estimates in present report.

<sup>3/</sup> Place of occurrence basis.

<sup>4/</sup> 20 weeks gestation and over. Includes elective abortions.

<sup>5/</sup> Under 1 year of age.

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

**Table 2.2-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1990 TO 1992**

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians <sup>1/</sup>			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
<b>Live births:</b>						
1990.....	20,528	-	20,528	4,091	16,437	4,091
1991.....	19,985	-	19,985	3,665	16,320	3,665
1992.....	19,949	-	19,949	3,875	16,074	3,875
<b>Deaths:</b>						
1990.....	7,055	40	7,015	78	6,937	118
1991.....	7,041	133	6,908	82	6,826	215
1992.....	7,177	164	7,013	74	6,939	238
<b>Birth rates: <sup>2/</sup></b>						
1990.....	16.3	0	17.1	68.3	14.4	35.5
1991.....	15.7	0	16.4	57.9	14.3	31.0
1992.....	15.7	0	16.4	68.0	13.5	34.6
<b>Death rates: <sup>2/</sup></b>						
1990.....	5.6	0.7	5.8	1.3	6.1	1.0
1991.....	5.6	2.4	5.7	1.3	6.0	1.8
1992.....	5.6	3.0	5.8	1.3	5.8	2.1

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

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

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.3-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1987 TO 1992**

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate <sup>1/</sup>			
1987 .....	25,931	24.3	18,555	1,405	5,971
1988 .....	26,346	24.4	18,937	1,411	5,998
1989 .....	26,083	23.8	19,335	1,468	5,280
1990 .....	26,834	24.1	20,438	1,689	4,707
1991 <sup>2/</sup> .....	27,289	24.0	19,880	1,717	5,692
1992 .....	27,297	23.6	19,837	1,518	5,942

<sup>1/</sup> Per 1,000 resident population, July 1.

<sup>2/</sup> Excludes one birth, seven standard fetal deaths and seven elective abortions with unknown residence.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.4-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1991 AND 1992**

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State <sup>1/</sup>
Births:						
1991 .....	19,985	19,880	104	1	19,924	44
1992 .....	19,949	19,837	111	1	19,863	26
Deaths:						
1991 .....	7,041	6,696	335	10	6,894	198
1992 .....	7,177	6,846	323	8	7,072	226

<sup>1/</sup> Figure for 1992 includes persons born in Hawaii who became residents of other states.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.5-- CHARACTERISTICS OF RESIDENT BIRTHS: 1990 TO 1992**

[Excludes births to Hawaii residents occurring out of state]

Subject	1990	1991	1992
Number of resident births .....	20,438	19,880	19,837
City and County of Honolulu.....	15,380	14,756	14,827
Percent on Oahu .....	75.3	74.2	74.7
Hawaii County .....	2,228	2,278	2,234
Kauai County .....	945	983	892
Maui County (incl. Kalawao).....	1,885	1,863	1,884
Percent attended by M.D. or O.D. in hospital <u>1/</u> .....	98.2	96.7	96.4
Males per 100 females .....	105.3	108.2	109.3
Median weight of single births (grams).....	3,318	3,315	3,312
Percent low birth weight (under 2,500 grams).....	7.1	6.8	7.2
Percent single births under 40 weeks gestation.....	48.6	48.1	54.9
Percent plural .....	2.0	2.2	2.1
Percent with 1 or more congenital malformations .....	1.4	1.6	1.5
Percent to unmarried mothers.....	25.0	26.3	26.5
Percent with prenatal visit in first three months.....	68.9	68.8	68.1
Percent first child born to mother <u>2/</u> .....	29.1	29.0	29.0
Percent first child born alive to mother .....	42.5	41.7	41.9
Median age of mothers (years) .....	27	27	27
Median age of known fathers (years).....	29	29	29

1/ Place of occurrence basis prior to 1991.

2/ Includes live births, fetal deaths, and abortions.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.6-- CHILDREN EVER BORN PER 1,000 WOMEN 15 TO 44 YEARS OLD, FOR THE STATE AND OAHU: 1990**

Age of women	State total	Oahu only
Women 15 to 24 years .....	289	281
Women 25 to 34 years .....	1,199	1,132
Women 35 to 44 years .....	1,812	1,778

Source: U.S. Bureau of the Census, 1990 CPH-L-80 and 81, table 1.

**Table 2.7-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF PARENTS: 1991**

Military status of parents	Total births	Unmixed	Mixed <sup>1/</sup>	Not certain <sup>2/</sup>
All groups.....	19,880	8,580	10,133	1,167
Military .....	3,620	2,653	888	79
Civilian.....	14,439	5,917	8,519	3
Status not reported.....	1,821	10	726	1,085

<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."

Source: Hawaii State Department of Health, records.

**Table 2.8-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX:  
1992**

[A total of 7,130 first names, including variant spellings, was reported for the 19,949 babies born in Hawaii in 1992]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1.....	Joshua.....	179	Ashley.....	148
2.....	Michael.....	173	Jessica.....	107
3.....	Christopher.....	147	Nicole.....	99
4.....	Matthew.....	139	Sarah.....	86
5.....	Ryan.....	125	Chelsea.....	83
6.....	Brandon.....	124	Jennifer.....	79
7.....	David.....	120	Brittany.....	76
8.....	Jordan.....	118	Amanda.....	68
9.....	Justin.....	116	Kayla.....	68
10.....	Nicholas.....	104	Samantha.....	63

Source: Hawaii State Department of Health, Office of Health Status Monitoring, special tabulation, March 31, 1993.

**Table 2.9-- MOST COMMON SURNAMES ON BIRTH AND DEATH  
CERTIFICATES: 1992**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1.....	Lee.....	111	Lee.....	47
2.....	Smith.....	83	Wong.....	39
3.....	Johnson.....	73	Kim.....	33
4.....	Brown.....	66	Nakamura (tie).....	31
5.....	Kim.....	63	Smith (tie).....	31
6.....	Wong.....	60	Ching.....	28
7.....	Williams.....	50	Silva.....	26
8.....	Young.....	44	Kam (tie).....	24
9.....	Jones (tie).....	42	Lum (tie).....	24
10.....	Nguyen (tie).....	42	Watanabe.....	23

Source: Hawaii State Department of Health, Office of Health Status Monitoring, special tabulation, April 5, 1994.

**Table 2.10-- SELECTED LIFE TABLE VALUES, BY SEX: 1984-1986**

[For earlier years and ranking relative to other States, see *Data Book 1987*, tables 69 and 70]

Age in years (period of life between two exact ages stated)	Of 100,000 born alive				Average remaining lifetime at beginning of year of age <sup>1/</sup>	
	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	1,020	833	75.37	80.92
5-6 .....	98,814	99,023	17	22	71.27	76.72
15-16 .....	98,573	98,831	57	31	61.43	66.85
25-26 .....	97,650	98,453	117	36	51.96	57.09
35-36 .....	96,469	98,013	134	67	42.53	47.32
45-46 .....	94,660	96,998	281	162	33.24	37.76
55-56 .....	90,060	94,310	719	430	24.64	28.67
65-66 .....	80,321	88,116	1,387	923	16.95	20.29
75-76 .....	61,250	75,146	2,492	1,946	10.53	12.83
85-86 .....	31,274	49,110	( <sup>2/</sup> )	( <sup>2/</sup> )	5.56	6.73

<sup>1/</sup> For males and females combined, the average remaining lifetime at birth was 77.98 years. For the entire United States in 1985, the corresponding figure was 74.7 years (71.2 years for males and 78.2 years for females).

<sup>2/</sup> Not calculated for this and higher ages.

Source: Robert W. Gardner, East-West Population Institute, *Complete Life Tables by Age and Sex for Hawaii, 1984-86* (unpublished, September 11, 1987); *Statistical Abstract of the United States: 1992*, p. 76.

**Table 2.11-- CHARACTERISTICS OF RESIDENT DEATHS: 1990 TO 1992**

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1990	1991	1992
Number of resident deaths.....	6,687	6,696	6,846
City and County of Honolulu.....	4,796	4,793	4,914
Hawaii County.....	889	880	916
Kauai County.....	341	358	369
Maui County (incl. Kalawao).....	661	665	647
Males per 100 females.....	139.2	137.2	140.5
Median age (years).....	73	73	73
Centenarian deaths: Male.....	14	23	9
Female.....	36	37	34
Oldest (years): Male.....	105	109	104
Female.....	104	107	111
Percent married.....	46.7	46.0	47.1
Deaths under 1 year.....	132	140	122
Per 1,000 live births.....	6.5	7.0	6.2
Fetal deaths <u>1/</u> .....	6,396	7,409	7,460
Per 1,000 deliveries.....	238	272	273
Fetal deaths, 20 or more weeks gestation <u>2/</u> .....	213	209	270
Per 1,000 live births.....	10.4	10.5	13.6
Standard fetal deaths <u>3/</u> .....	1,689	1,717	1,518
Elective abortions.....	4,707	5,692	5,942
Per 1,000 live births.....	230.3	286.3	299.5

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), and Office of Health Status Monitoring, records.

**Table 2.12-- CAUSE OF DEATH, BY SEX: 1992**

[Place of residence basis]

<b>Cause of death</b>	<b>Both sexes</b>	<b>Males</b>	<b>Females</b>
Total deaths .....	6,846	3,999	2,847
Tuberculosis .....	5	1	4
Other infective .....	210	167	43
Malignant neoplasm.....	1,737	1,012	725
Digestive organs .....	574	354	220
Respiratory system.....	457	305	152
Breast.....	130	1	129
Genital organs .....	191	115	76
Urinary organs .....	61	45	16
Leukemia.....	53	30	23
Other .....	271	162	109
Diabetes mellitus.....	161	68	93
Heart disease.....	2,091	1,241	850
Rheumatic .....	7	3	4
Hypertensive .....	47	26	21
Ischemic .....	1,163	708	455
Other heart .....	874	504	370
Hypertension.....	28	11	17
Cerebrovascular disease .....	574	275	299
Arteriosclerosis .....	30	15	15
Other circulatory .....	106	65	41
Influenza/pneumonia .....	257	149	108
Chronic obstructive pulmonary diseases.....	196	123	73
Peptic ulcer .....	21	13	8
Cirrhosis of liver .....	74	54	20
Nephritis and nephrosis .....	67	32	35
Pregnancy, birth & puerperium .....	4	-	4
Congenital anomalies .....	38	20	18
Perinatal conditions .....	56	38	18
Ill-defined conditions .....	54	26	28
Other diseases .....	647	337	310
Accidents .....	262	191	71
Motor vehicles.....	123	88	35
Other.....	139	103	36
Suicide .....	129	98	31
Homicide & legal intervention .....	46	25	21
Other external causes.....	53	38	15

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

**Table 2.13-- CATASTROPHIC MORTALITY: 1984 TO 1994**

[Includes all accidents, natural disasters, and other events causing five or more deaths. Complete through January 31, 1994]

Date	Place	Kind of disaster	Deaths
1985: Jan. 15.....	540 mi. N. of Honolulu.....	Helicopter crash .....	7
1987: Dec. 23.....	At sea W. of Molokai .....	Airplane disappearance..	8
1988: June 9.....	Near Waimanalo, Oahu.....	2-car auto crash .....	5
July 9.....	Near Kawaihae, Hawaii.....	2-car auto crash .....	6
1989: Jan. 31.....	Texas .....	Crash of Hawaii-bound... airplane.....	19
Feb. 24.....	100 mi. S. of Honolulu.....	Airplane door lost .....	9
June 11.....	Waimanu, Hawaii .....	Airplane crash .....	11
Oct. 28.....	Halawa, Molokai.....	Airplane crash .....	20
1990: Nov. 13.....	Near Puunene, Maui .....	3-car auto crash .....	5
1991: Aug. 25-26....	Waipahu and Kailua .....	Murder spree .....	5
1992: Jan. 14.....	Between Oahu and Maui.....	Airplane disappearance..	5
Apr. 22.....	Haleakala summit, Maui.....	Airplane crash .....	9
Sept. 11.....	Kauai and Oahu .....	Hurricane Iniki .....	8
Sept. 16.....	Haleakala slope, Maui.....	Helicopter crash .....	7
1994: Jan. 21.....	Keawaula Bay, Oahu .....	1-car auto crash .....	5

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii: An Update," *The Hawaiian Journal of History*, Vol. 23 (1989), pp. 217-227; DBEDT file of newspaper accounts.

**Table 2.14-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1970 TO 1992**

Method	1970	1980	1989	1990	1991	1992
All methods .....	4,197	5,204	6,730	7,055	7,041	7,177
Burial .....	2,197	2,343	2,740	2,798	2,723	2,751
Cremation.....	1,509	2,241	3,369	3,564	3,649	3,784
Removal .....	470	567	594	656	649	601
Entombment.....	13	44	19	35	12	17
Educational purpose.....	3	-	-	-	1	12
Other .....	-	1	-	-	-	-
Unknown .....	5	8	8	2	7	12

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

**Table 2.15-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:  
1992 AND 1993**

Date	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1992: June 30 .....	2,318	1,804	215	101	198
1993: June 30 .....	2,339	1,804	224	102	209

Source: Hawaii State Department of Human Services, Services for the Blind Branch, records.

**Table 2.16-- CHRONIC CONDITIONS: 1990**

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Malignant neoplasms .....	10,581	9.7
Benign and unspecified neoplasms.....	5,436	5.0
Thyroid disease .....	16,286	14.9
Diabetes .....	28,572	26.2
Mental and nervous condition .....	13,552	12.4
Heart disease .....	32,649	30.0
Hypertension .....	95,245	87.4
Varicose veins .....	12,168	11.2
Hemorrhoids.....	19,959	18.3
Bronchitis/emphysema .....	23,817	21.9
Asthma .....	45,624	41.9
Hayfever .....	78,138	71.7
Chronic sinusitis .....	52,127	47.8
Peptic ulcer.....	9,022	8.3
Gallbladder .....	11,581	10.6
Kidney disease .....	7,956	7.3
Skin condition .....	45,303	41.6
Arthritis .....	48,485	44.5
Visual impairment.....	13,219	12.1
Hearing impairment.....	54,520	50.0
Impairment of back or spine .....	78,812	72.3
Gout.....	15,257	14.0

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

**Table 2.17-- ACUTE CONDITIONS: 1990**

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions.....	2,720,126	249.6
Infective parasitic diseases .....	160,742	14.8
Respiratory condition.....	1,845,685	169.4
Digestive system condition.....	62,195	5.7
Injuries.....	233,748	21.5
All other acute conditions .....	417,756	38.3

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

**Table 2.18-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1990**

Type of limitation	Number
Persons with one or more chronic conditions .....	498,556
No limitation of activity.....	374,878
Limited, but not in major activity .....	53,184
Limited in amount or kind of activity .....	37,250
Unable to carry on major activity .....	22,703
Not reported .....	10,541
Restricted activity days in past month <u>1/</u> .....	2,098,026
Per person <u>2/</u> .....	1.9

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 2.19-- SPECIFIED COMMUNICABLE DISEASES: 1990 TO 1992**

Disease	Cases			Deaths		
	1990	1991	1992	1990	1991	1992
AIDS .....	151	176	133	79	120	118
Chickenpox.....	2,007	825	1,009	-	-	-
Gonorrhea .....	639	695	686	-	-	-
Hansen's Disease <u>1/</u> .....	19	12	19	-	-	-
Hepatitis, all types .....	171	120	356	8	5	10
Influenza.....	199	135	135	3	-	1
Leptospirosis <u>2/</u> .....	43	33	31	-	1	-
Malaria <u>3/</u> .....	8	4	11	-	-	-
Measles (Rubeola).....	41	12	46	-	-	-
Meningitis, all types .....	136	80	145	6	6	2
Mumps.....	26	30	28	-	-	-
Rubella .....	8	9	25	-	-	-
Salmonellosis .....	458	373	321	-	-	-
Syphilis.....	19	10	10	-	-	-
Tuberculosis.....	205	202	274	6	11	5

1/ Excludes reinstated cases.

2/ Includes previously unreported cases.

3/ Acquired outside the State.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Epidemiology Branch, and AIDS Surveillance Program, records.

**Table 2.20-- TOOTH DECAY AMONG PUBLIC SCHOOL PUPILS, FOR THE UNITED STATES, 1986-1989, AND HAWAII, 1989**

Characteristics	U.S.	Hawaii
Dental caries prevalence per child:		
Primary or deciduous teeth <sup>1/</sup> .....	1.884	3.658
Secondary or permanent teeth <sup>2/</sup> .....	0.818	0.897
Percent of 5-year old public school pupils with baby bottle tooth decay (3 or more decayed maxillary anterior teeth) .....	5.0	15.8
Percent of 6- to 8-year old students with--		
Untreated primary or permanent tooth decay <sup>3/</sup> .....	27.0	36.2
One or more decayed primary or permanent teeth .....	53.0	96.9

<sup>1/</sup> Mean decayed or filled for ages 5-9, cumulative. U.S. rate is for 1987.

<sup>2/</sup> Mean decayed, missing or filled for ages 5-12, cumulative. U.S. rate is for 1987.

<sup>3/</sup> Teeth with active decay and in need of treatment. U.S. rate is for 1986.

<sup>4/</sup> Decayed, missing due to decay, or filled.

Source: Hawaii from Hawaii State Department of Health, Dental Health Division. U.S. from *National Survey of Dental Caries in U.S. School Children: 1986-1987*; Louis Ripa, "Nursing Caries: A Comprehensive Review," *Pediatric Dentistry*, December 1988; and *National Year 2000 Oral Health Objectives* (1990).

**Table 2.21-- HUNGER, BY AGE: 1992**

[Includes all persons in households in which some individual (s) missed meals for economic reasons during the past year]

Subject	All ages	Under 6	6 to 11	12 to 17	18 to 59	60 and over
Number.....	176,443	21,042	23,928	13,936	109,524	8,013
Percent.....	14.2	19.2	21.3	18.9	14.1	4.8

Source: SMS Research, *Homelessness and Hunger in Hawaii*, submitted to Homeless Aloha, June 15, 1992, p. 32.

**Table 2.22-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1987 TO 1992**

[Includes Tripler Army Medical Center]

Category and year	Hospitals				Care homes	
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Family <u>2/</u>	Residential <u>3/</u>
<b>Number of facilities:</b>						
1987.....	51	23	36	9	633	17
1988.....	51	22	36	9	531	16
1989.....	52	22	38	8	515	16
1990.....	57	24	40	11	501	15
1991.....	58	24	41	13	494	14
1992.....	58	24	41	13	490	14
<b>Number of beds:</b>						
1987.....	6,820	2,887	2,977	956	2,547	540
1988.....	6,671	2,855	2,995	821	2,235	490
1989.....	6,854	2,855	3,191	808	2,184	481
1990.....	7,401	3,175	3,416	810	2,162	449
1991.....	7,433	3,169	3,475	789	2,159	450
1992.....	7,410	3,174	3,497	739	2,175	436

NA Not available.

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

2/ Five beds or fewer.

3/ Six beds or more.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, records, and Hospital and Medical Facilities Branch, records.

**Table 2.23-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE  
CIVILIAN HOSPITALS: 1987 TO 1992**

[Excludes Tripler Army Medical Center]

Type of facility and year	Beds Dec. 31	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:					
1987 .....	2,346	93,256	1,661	6.5	70.8
1988 <u>1/</u> .....	2,835	117,548	2,074	6.4	73.3
1989 .....	2,351	91,686	1,722	6.7	73.3
1990 .....	2,532	93,511	1,755	6.8	69.4
1991 .....	2,593	96,961	1,814	6.8	70.0
1992 <u>2/</u> .....	2,583	98,973	1,837	6.8	71.1
Long-term care:					
1987 .....	2,995	2,553	2,779	397	92.8
1988 <u>1/</u> .....	3,187	2,746	2,907	376	91.7
1989 .....	3,212	2,653	2,993	409	93.5
1990 .....	3,401	3,137	3,165	368	93.1
1991 .....	3,443	3,181	3,216	369	93.4
1992 .....	3,476	3,255	3,343	375	96.2

1/ Excludes statistics for Lanai.

2/ Revised.

Source: Hawaii State Department of Health, *Statistical Report* (annual); State Health Planning and Development Agency, *Utilization of Inpatient Facilities* (various years), and records.

**Table 2.24-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: 1992-1993**

[Except for Tripler Army Medical Center, data are for facilities recognized by the Hawaii State Health Planning and Development Agency. Excludes Tripler Army Medical Center, which had a bed capacity of 535]

Category and island	Hospitals, December 31, 1992				Care homes, Jan. 1993	
	Total <u>1/</u>	Acute care <u>4/</u>	Long-term care	Specialty care	Type I <u>2/</u>	Type II <u>3/</u>
<b>NUMBER OF FACILITIES</b>						
State total .....	58	23	41	14	490	14
Oahu .....	39	11	25	11	393	10
Hawaii .....	7	5	7	-	52	-
Kauai .....	6	3	5	1	21	3
Maui .....	3	2	2	1	16	-
Molokai .....	2	1	1	1	8	1
Lanai .....	1	1	1	-	-	-
<b>NUMBER OF BEDS</b>						
State total .....	6,794	2,583	3,476	735	2,175	436
Oahu .....	5,141	2,069	2,355	717	1,794	370
Hawaii .....	726	239	487	-	207	-
Kauai .....	375	114	261	-	74	52
Maui .....	494	147	343	4	66	-
Molokai .....	44	8	22	14	34	14
Lanai .....	14	6	8	-	-	-

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

2/ Five beds or fewer.

3/ More than five beds.

4/ Revised June 3, 1994.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities, 1992*, and Hospital and Medical Facilities Branch, records.

**Table 2.25-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1992**

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
<b>ACUTE CARE <sup>1/</sup></b>				
State total .....	98,973	1,837	6.8	71.1
Oahu.....	74,544	1,505	7.4	72.7
Hawaii.....	11,285	138	4.5	57.9
Kauai .....	4,626	63	5.0	55.4
Maui.....	8,409	130	5.6	88.2
Molokai.....	93	1	2.4	7.5
Lanai.....	16	1	3.8	2.7
<b>LONG-TERM CARE</b>				
State total .....	3,255	3,343	375	96.2
Oahu.....	2,280	2,227	357	94.6
Hawaii.....	409	508	453	104.3
Kauai .....	331	251	277	96.1
Maui.....	195	335	627	97.7
Molokai.....	40	17	155	77.1
Lanai.....	-	5	(NA)	62.7

NA Not available.

<sup>1/</sup> Revised June 3, 1994.

Source: Data by islands from Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County*.

**Table 2.26-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES: 1985 TO 1990**

Year	Average length of stay (days)	Average cost to hospital		Hospital semiprivate room charges <sup>1/</sup> (dollars)
		Per inpatient day (dollars)	Per admission (dollars)	
1985 .....	8.3	420.11	3,522	231
1986 .....	7.5	489.93	3,707	253
1987 .....	7.9	512.48	4,106	242
1988 .....	8.9	517.16	4,651	257
1989 .....	9.0	549.90	5,077	317
1990 .....	9.3	637.62	6,048	348

<sup>1/</sup> January data.

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

**Table 2.27-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1986 TO 1991**

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1986 .....	5,852	252	5,600	3,826	3,292	3,725	8,342
1987 .....	5,754	248	5,506	3,678	3,122	3,452	8,220
1988 .....	5,234	260	4,974	3,694	3,147	4,143	8,389
1989 .....	5,448	251	5,197	3,943	3,306	3,644	8,003
1990 .....	5,487	205	5,282	3,660	3,237	3,569	8,044
1991 .....	5,441	182	5,259	3,094	2,881	2,010	8,110

Source: Hawaii State Department of Health, Mental Health Division, records.

**Table 2.28-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:  
1991 TO 1994**

[Includes children's unit at Leahi Hospital assigned to the Hawaii State Hospital]

Year	Number of beds, June 30	Admissions <u>1/</u>		Patients in hospital <u>2/</u>	
		Total	First	Average <u>1/</u>	June 30
1991 .....	215	354	293	195	165
1992 .....	202	398	324	182	197
1993 .....	202	447	344	182	195
1994 .....	202	273	216	181	199

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

**Table 2.29-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1990 TO 1993**

[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	
1990 .....	205	10	153	158	6
1991 .....	195	2	148	134	6
1992 .....	172	1	114	112	-
1993 .....	172	4	101	82	-

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

**Table 2.30-- HANSEN'S DISEASE PATIENTS REGISTERED: 1988 TO 1992**

Subject	1988	1989	1990	1991	1992
Patients on register, Dec. 31...	571	541	498	487	479
At home .....	474	447	405	397	393
Kalaupapa .....	93	90	89	86	83
Hale Mohalu at Leahi.....	4	4	4	4	3
New cases.....	20	18	18	19	19
Deaths.....	13	14	9	3	-

Source: Hawaii State Department of Health, Hansen's Disease Community Program, records.

**Table 2.31-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS  
LICENSED IN HAWAII, BY PLACE OF ADDRESS: MARCH 5, 1993**

Place of address	Physicians and surgeons <sup>1/</sup>	Dentists	Registered nurses	Pharmacists
Total licensed .....	5,099	1,284	12,689	1,137
Hawaii addresses.....	2,803	971	9,609	664
Hawaii.....	215	89	830	66
Maui.....	186	59	705	57
Lanai.....	1	1	12	1
Molokai.....	7	4	38	2
Oahu.....	2,299	781	7,640	507
Kauai.....	95	37	384	31
Niihau.....	-	-	-	-
Mainland U.S.....	2,233	308	2,852	468
Foreign.....	63	5	227	5
Not reported.....	-	-	1	-

<sup>1/</sup> 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, records.

**Table 2.32-- MARRIAGES AND DIVORCES: 1970 TO 1992**

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments <u>2/</u>	Rates per 1,000 resident population		Percent of marriages	
	Total	Resident <u>1/</u>		Resident marriages	Divorces, annulments <u>2/</u>	Nonresident <u>3/</u>	Inter-racial <u>4/</u>
1970 .....	10,599	7,889	2,589	10.2	3.4	25.6	40.7
1971 .....	9,734	8,104	3,691	10.1	4.6	16.7	42.7
1972 .....	9,750	8,482	3,891	10.2	4.7	13.0	41.7
1973 .....	9,776	8,656	4,170	10.2	4.9	11.5	43.7
1974 .....	9,649	8,500	4,111	9.8	4.7	11.9	43.2
1975 .....	9,673	8,440	4,265	9.5	4.8	12.7	43.1
1976 .....	9,769	8,318	4,712	9.2	5.2	14.9	43.2
1977 .....	10,266	8,427	4,601	9.2	5.0	17.9	43.3
1978 .....	10,736	8,650	4,837	9.3	5.2	19.4	44.5
1979 .....	11,678	9,424	5,055	9.9	5.3	19.3	44.6
1980 .....	11,856	9,442	4,438	9.7	4.6	20.4	44.4
1981 .....	12,218	9,445	4,253	9.7	4.3	22.7	44.5
1982 .....	13,483	10,053	4,233	10.1	4.3	25.4	45.0
1983 .....	14,062	10,216	4,583	10.1	4.5	27.3	45.5
1984 .....	14,982	10,020	4,769	9.7	4.6	33.3	46.3
1985 .....	15,421	9,893	4,887	9.5	4.7	35.8	46.9
1986 .....	16,219	9,571	4,674	9.1	4.4	30.4	46.5
1987 .....	16,567	9,714	4,419	9.1	4.1	41.3	44.6
1988 .....	17,281	9,708	5,020	9.0	4.6	43.8	42.9
1989 .....	17,974	9,952	5,613	9.1	5.1	44.6	44.3
1990 .....	18,306	10,407	5,179	9.4	4.7	43.1	45.9
1991 .....	17,764	10,051	5,184	8.9	4.6	43.4	43.9
1992 .....	17,725	10,049	5,040	8.7	4.4	43.3	44.3

NA Not available.

1/ One or both partners residents of Hawaii.

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

3/ Both partners nonresidents of Hawaii.

4/ Excludes nonresident marriages.

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

**Table 2.33-- MARRIAGE AND DIVORCE RATES BASED ON RISK  
POPULATION: 1910 TO 1990**

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
1990 .....	183,984	244,799	10,180	55	5,396	22

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 later years exclude nonresident marriages.

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 Data Center, 1990 census tapes; Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1969, 1970, 1979, and 1980, and records.

**Table 2.34-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:  
1989 TO 1992**

[Place of occurrence basis]

Subject	1989	1990	1991	1992
<b>MARRIAGES</b>				
Number.....	17,974	18,306	17,764	17,725
Percent on Oahu .....	57.7	58.3	57.9	58.0
Percent Hawaii residents:				
Both bride and groom.....	51.3	53.1	52.4	52.7
One partner only.....	4.1	3.7	4.2	4.0
Neither bride nor groom .....	44.6	43.1	43.4	43.3
Median age (years):				
Groom .....	31	31	31	31
Bride .....	28	28	29	29
Percent previously married:				
Groom .....	39.8	39.5	38.8	38.1
Bride.....	40.4	40.1	39.2	38.5
<b>DIVORCES AND ANNULMENTS</b>				
Number.....	5,613	5,179	5,184	5,040
Divorces .....	5,600	5,163	5,161	5,024
Annulments.....	13	10	13	14
Not reported .....	-	6	10	2
Percent occurring on Oahu	78.5	77.5	76.7	74.2
Percent Hawaii residents:				
Both partners.....	75.4	73.9	76.4	76.4
One partner only.....	23.1	26.0	23.3	23.4
Neither partner .....	0.1	0.2	0.2	0.2
Median age (years):				
Husband .....	35	35	35	35
Wife .....	32	33	33	33
Percent interracial <sup>1/</sup> .....	39.4	40.3	40.0	39.9
Percent with children under 18 years....	55.3	52.1	52.1	52.1
Median years married.....	6.2	6.3	6.3	6.3

<sup>1/</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), and records.

**Table 2.35-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1992**

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages.....	17,725	10,049	7,676
Race of partners:			
Both partners same race <u>1/</u> .....	12,204	5,453	6,751
Different.....	5,521	4,596	925
Percent different .....	31.1	45.7	12.1
Type of ceremony:			
Civil ceremony.....	4,628	3,840	788
Religious ceremony.....	13,096	6,208	6,888
Unknown .....	1	1	-

1/ Includes marriages with both partners of unknown race.  
 Source: Hawaii State Department of Health, special tabulations.

**Table 2.36-- MARITAL DISSOLUTION: 1980 TO 1992**

Subject	1980	1990	1992	Percent		
				1980	1990	1992
Married couples.....	185,698	210,468	224,000	100.0	100.0	100.0
Marriages ended .....	6,782	8,292	8,265	3.7	3.9	3.7
By divorce.....	4,438	5,172	5,040	2.4	2.5	2.2
By death .....	2,344	3,120	3,225	1.3	1.5	1.4
Husbands.....	1,678	2,234	2,285	0.9	1.1	1.0
Wives .....	666	886	940	0.4	0.4	0.4

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; U.S. Bureau of the Census, *1980 Census of Population*, PC80-1-B13, table 21, and *1990 Census of Population*, 1990 CP-1-13, table 30; 1992 DBEDT estimate of married couples, based on 1990-92 percent increase in female population 18 years and older.

**Table 2.37-- HEALTH SPENDING BY FAMILIES AND BUSINESSES:  
1980 AND 1991**

[Health payments cover the delivery of all health services and supplies and the purchase of medical products, including prescription drugs and vision products in retail outlets. It also includes government public health expenditures, the administrative costs of public programs, and the net cost of private insurance. Data exclude non-patient revenue, research and construction]

Subject	1980	1991
Total health payments (million dollars).....	946	3,252
By families.....	641	2,079
By businesses.....	305	1,173
Average health payments per family (dollars).....	2,701	7,190
By families.....	1,829	4,596
By businesses.....	872	2,594
Average health payments by families (dollars).....	1,829	4,596
Out-of-pocket.....	575	1,379
Insurance.....	200	757
Medicare payroll tax.....	128	341
Medicare premiums.....	25	100
General taxes.....	901	2,020
Rank among 50 States.....	12	7
Percent of average family income.....	8.2	10.0
Total health payments by businesses (million dollars).....	305	1,173
Insurance.....	181	744
Medicare payroll tax.....	45	154
General taxes.....	47	169
Other.....	33	106

Source: Families USA Foundation, *Health Spending: The Growing Threat to the Family Budget* (December 1991).