

## Section 2

# VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases, accidents, drinking and smoking, hospitals, and health care personnel and expenditures.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1990 was 75.9 years for males and 82.1 years for females, well above national averages. There were 7,206 resident deaths in 1994, or 6.1 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 6.8 in 1994. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fourth. Resident live births in 1994 numbered 19,438, or 16.5 per 1,000 resident population. Fully 95.3 percent of all babies were born in hospitals in 1993, and 18.1 percent were born to military couples. More than one out of four births was to an unmarried woman. There were 7,198 fetal deaths in 1993, including 5,806 elective abortions. Marriages numbered 18,118 in 1994, with over 49 percent accounted for by nonresidents. Divorces reached a 1994 total of 4,933. The State had 23 acute care hospitals (with 2,649 beds), 41 long-term care facilities (with 3,502 beds), and 13 specialty care facilities (with 739 beds) in 1993. There were 2,844 physicians and surgeons, 1,012 dentists, 9,640 professional nurses, and 694 pharmacists licensed and living in Hawaii as of August 1994. Acute conditions per 100 persons numbered 239 in 1992, with respiratory conditions the most common complaint (at 178 cases per 100 persons). Among chronic conditions reported in the 1992 survey data, the most frequently mentioned were hypertension (8.1 per 100 persons), impairments of the back or spine (6.3), and hayfever (5.6). The most common communicable diseases reported to authorities in 1993 were influenza, with 2,531 cases, and chickenpox, with 2,303, but the most fatal was AIDS (129 deaths). State mental health facilities served 5,572 patients in 1994, but the number of in-patients at the end of the year was only 199. Among persons 18 years old and over in 1992, a fourth were heavy drinkers and a fifth were current regular cigarette smokers. Tooth decay was a serious problem among Island children.

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: 1995* contain data for the nation as a whole.

**Table 2.01-- BIRTHS AND DEATHS: 1970 TO 1994**

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	To unmarried mothers	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	18.6	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
1993 .....	19,567	7,226	16.8	6.2	273.0	11.7	7.6
1994 .....	19,438	7,206	16.5	6.1	283.8	12.0	6.8

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 July 1 estimates in present report.

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 Office of Health Status Monitoring, records.

**Table 2.02-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1990 TO 1993**

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians <u>1/</u>			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
1993 .....	19,650	-	19,650	3,564	16,086	3,564
<b>Deaths:</b>						
1990 .....	7,055	40	7,015	85	6,930	125
1991 .....	7,041	133	6,908	89	6,819	222
1992 .....	7,177	164	7,013	80	6,933	244
1993 .....	7,570	170	7,400	87	7,313	257
<b>Birth rates: <u>2/</u></b>						
1990 .....	16.3	0	17.1	67.5	14.4	35.3
1991 .....	15.7	0	16.4	57.9	14.1	31.0
1992 .....	15.7	0	16.4	68.0	13.9	34.6
1993 .....	15.5	0	16.2	57.3	14.0	31.0
<b>Death rates: <u>2/</u></b>						
1990 .....	5.6	0.7	5.8	1.4	6.1	1.1
1991 .....	5.5	2.4	5.7	1.4	5.9	1.9
1992 .....	5.7	3.0	5.8	1.4	6.0	2.2
1993 .....	6.0	3.2	6.1	1.4	6.4	2.2

1/ Death rates for military dependents based on 1990 age and sex composition of military dependents and 1990 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.

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

**Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1988 TO 1993**

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate <u>1/</u>			
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 <u>2/</u> .....	27,289	24.1	19,880	1,717	5,692
1992.....	27,297	23.7	19,837	1,518	5,942
1993 <u>3/</u> .....	26,765	23.0	19,567	1,392	5,806

1/ Per 1,000 resident population, July 1.

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

3/ Excludes one birth, four standard fetal deaths, and six elective abortions with unknown residence.

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

**Table 2.04-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1991 TO 1993**

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State <u>1/</u>
<b>Births:</b>						
1991.....	19,985	19,880	104	1	19,924	44
1992.....	19,949	19,837	111	1	19,863	26
1993.....	19,650	19,567	82	1	19,595	28
<b>Deaths:</b>						
1991.....	7,041	6,696	335	10	6,894	198
1992.....	7,177	6,846	323	8	7,072	226
1993.....	7,570	7,226	341	3	7,426	200

1/ Death figures for 1992 and 1993 include persons born in Hawaii who became residents of other states.

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

**Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1991 TO 1993**

[Excludes births to Hawaii residents occurring out of state]

Subject	1991	1992	1993
Number of resident births .....	19,880	19,837	19,567
City and County of Honolulu .....	14,756	14,827	14,599
Percent on Oahu.....	74.2	74.7	74.6
Hawaii County .....	2,278	2,234	2,118
Kauai County .....	983	892	961
Maui County (incl. Kalawao) .....	1,863	1,884	1,889
Percent attended by M.D. or O.D. in hospital.....	96.7	96.4	95.3
Males per 100 females .....	108.2	109.3	104.8
Median weight of single births (grams).....	3,315	3,312	3,317
Percent low birth weight (under 2,500 grams) .....	6.8	7.2	6.9
Percent single births under 40 weeks gestation.....	48.1	54.9	55.1
Percent plural .....	2.2	2.1	2.2
Percent with 1 or more congenital malformations .....	1.6	1.5	1.6
Percent to unmarried mothers .....	26.3	26.5	27.3
Percent with prenatal visit in first three months.....	68.8	68.1	67.6
Percent first child born to mother <u>1/</u> .....	29.0	29.0	30.9
Percent first child born alive to mother .....	41.7	41.9	42.7
Median age of mothers (years) .....	27	27	27
Median age of known fathers (years).....	29	29	30

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

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

**Table 2.06-- CHILDREN EVER BORN PER 1,000 WOMEN 15 TO 44 YEARS OLD, BY GEOGRAPHIC AREA: 1990**

Age of women	State total	Oahu	Other islands
Women 15 to 24 years .....	289	281	316
Women 25 to 34 years .....	1,199	1,132	1,423
Women 35 to 44 years .....	1,812	1,778	1,911

Source: U.S. Bureau of the Census, *1990 Census of Population, Social and Economic Characteristics, Hawaii*, 1990 CP-2-13 (September 1993), table 35.

**Table 2.07-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF PARENTS: 1993**

Military status of parents	Total births	Unmixed	Mixed <u>1/</u>	Not reported <u>2/</u>	Percent mixed <u>3/</u>
All groups.....	19,567	8,640	9,767	1,160	53.1
Military .....	3,534	2,618	853	63	24.6
Civilian .....	14,214	6,021	8,185	8	57.6
Status not reported.....	1,819	1	729	1,089	99.9

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/ Based on number reporting.

Source: Hawaii State Department of Health, records.

**Table 2.08-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX: 1993**

[A total of 7,361 first names, including variant spellings, was reported for the 19,650 babies born in Hawaii in 1993]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1.....	Joshua.....	178	Ashley .....	114
2.....	Michael.....	159	Jessica .....	104
3.....	Matthew.....	144	Nicole .....	92
4.....	Christopher.....	133	Kayla .....	85
5.....	Brandon.....	129	Jasmine.....	84
6.....	Justin (tie).....	119	Taylor .....	82
7.....	Tyler (tie).....	119	Samantha .....	72
8.....	Ryan.....	118	Brittany .....	67
9.....	Nicholas .....	100	Lauren .....	66
10.....	Jordan (tie).....	99	Sarah.....	65
	Joseph (tie).....	99		

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

**Table 2.09-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1993**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1.....	Lee .....	99	Lee .....	51
2.....	Kim .....	80	Wong.....	45
3.....	Smith (tie) .....	78	Chang.....	31
4.....	Wong (tie) .....	78	Nakamura (tie).....	29
5.....	Johnson.....	63	Young (tie).....	29
6.....	Ramos.....	50	Chun.....	26
7.....	Williams .....	47	Fernandez (tie) .....	25
8.....	Fernandez (tie) .....	45	Higa (tie).....	25
9.....	Young (tie).....	45	Silva (tie) .....	23
10.....	Nguyen.....	44	Yamamoto (tie).....	23

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

**Table 2.10-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1910 TO 1994**

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

Year	United States			Hawaii		
	Both sexes	Male	Female	Both sexes	Male	Female
1910.....	50.0	48.4	51.8	43.96	44.04	43.83
1920.....	54.1	53.6	54.6	45.69	45.64	45.75
1930.....	59.7	58.1	61.6	53.95	52.70	55.86
1940.....	62.9	60.8	65.2	62.00	59.92	64.86
1950.....	68.2	65.6	71.1	69.53	67.77	71.67
1960.....	69.7	66.6	73.1	72.42	70.39	74.75
1970.....	70.8	67.1	74.7	74.20	72.12	76.44
1980.....	73.7	70.0	77.4	78.02	75.04	81.45
1990.....	75.4	71.8	78.8	78.88	75.91	82.12
1994.....	75.7	72.3	79.0	(NA)	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *Historical Statistics of the United States, Colonial Times to 1970, Part 1* (1975), p. 55; U.S. Department of Health and Human Services, National Center for Health Statistics, "Annual Summary of Births, Marriages, Divorces, and Deaths: United States, 1994," *Monthly Vital Statistics Report*, Vol. 43, No. 13, October 23, 1995, p. 17; Hawaii State Department of Health, Office of Health Status Monitoring, "Life Tables by Ethnic Group for Hawaii, 1920-1970," *R & S Report*, No. 26 (June 1979), "Life Tables by Ethnic Group for Hawaii, 1980," *R & S Report*, No. 47 (March 1984), and unpublished provisional estimates for 1990.



**Table 2.11-- CHARACTERISTICS OF RESIDENT DEATHS: 1991 TO 1993**

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1991	1992	1993
Number of resident deaths .....	6,696	6,846	7,226
City and County of Honolulu.....	4,793	4,914	5,202
Hawaii County.....	880	916	973
Kauai County.....	358	369	398
Maui County (incl. Kalawao).....	665	647	653
Males per 100 females .....	137.2	140.5	144.2
Median age (years).....	73	73	74
Centenarian deaths: Male.....	23	9	14
Female.....	37	34	38
Oldest (years): Male.....	109	104	106
Female.....	107	111	110
Percent married .....	46.0	47.1	47.1
Deaths under 1 year .....	140	122	141
Per 1,000 live births .....	7.0	6.2	7.2
Fetal deaths <u>1/</u> .....	7,409	7,460	7,198
Per 1,000 deliveries .....	272	273	269
Fetal deaths, 20 or more weeks gestation <u>2/</u> ...	209	270	230
Per 1,000 live births .....	10.5	13.6	11.8
Standard fetal deaths <u>3/</u> .....	1,717	1,518	1,392
Elective abortions.....	5,692	5,942	5,806
Per 1,000 live births .....	286.3	299.5	296.7

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: 1993**

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths .....	7,226	4,267	2,959
Tuberculosis .....	5	2	3
Other infective .....	255	199	56
Malignant neoplasm .....	1,717	1,006	711
Digestive organs .....	589	356	233
Respiratory system .....	432	284	148
Breast .....	109	1	108
Genital organs .....	170	103	67
Urinary organs .....	63	45	18
Leukemia .....	61	33	28
Other .....	293	184	109
Diabetes mellitus .....	175	81	94
Heart disease .....	2,204	1,287	917
Rheumatic .....	12	4	8
Hypertensive .....	84	44	40
Ischemic .....	1,162	706	456
Other heart .....	946	533	413
Hypertension .....	35	20	15
Cerebrovascular disease .....	546	276	270
Arteriosclerosis .....	25	13	12
Other circulatory .....	118	81	37
Influenza/pneumonia .....	303	163	140
Chronic obstructive pulmonary diseases .....	259	166	93
Peptic ulcer .....	26	15	11
Cirrhosis of liver .....	82	58	24
Nephritis and nephrosis .....	76	46	30
Pregnancy, birth & puerperium .....	-	-	-
Congenital anomalies .....	44	26	18
Perinatal conditions .....	69	39	30
Symptoms, signs & ill-defined conditions.....	53	23	30
Other diseases .....	741	389	352
Accidents .....	272	204	68
Motor vehicles .....	133	98	35
Other .....	139	106	33
Suicide .....	123	104	19
Homicide & legal intervention.....	38	25	13
Other external causes .....	60	44	16

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

**Table 2.13-- CATASTROPHIC MORTALITY: 1985 TO 1995**

[Includes all accidents, natural disasters, and other events causing five or more deaths.  
Complete through November 12, 1995]

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
1995: Nov. 10.....	Kuliouou, 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 1993**

Method	1970	1980	1990	1991	1992	1993
All methods .....	4,197	5,204	7,055	7,041	7,177	7,570
Burial.....	2,197	2,343	2,798	2,723	2,751	2,925
Cremation .....	1,509	2,241	3,564	3,649	3,784	3,997
Removal.....	470	567	656	649	601	604
Entombment.....	13	44	35	12	17	18
Educational purpose.....	3	-	-	1	12	21
Other.....	-	1	-	-	-	-
Unknown .....	5	8	2	7	12	5

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:  
1993 TO 1995**

Date	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1993: June 30 .....	2,339	1,804	224	102	209
1994: June 30 .....	2,377	1,783	255	102	237
1995: June 30.....	2,358	1,760	261	107	230

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

**Table 2.16-- CHRONIC CONDITIONS: 1992**

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Malignant neoplasms.....	12,122	10.6
Benign and unspecified neoplasms.....	6,332	5.6
Thyroid disease .....	17,793	15.6
Diabetes.....	25,448	22.3
Mental and nervous condition.....	17,953	15.8
Heart disease .....	35,197	30.9
Hypertension .....	92,182	80.9
Varicose veins.....	9,709	8.5
Hemorrhoids.....	14,008	12.3
Bronchitis/emphysema .....	22,307	19.6
Asthma.....	53,863	47.3
Hayfever .....	63,853	56.1
Chronic sinusitis .....	57,805	50.8
Peptic ulcer .....	9,137	8.0
Gallbladder.....	10,256	9.0
Kidney disease .....	8,887	7.8
Skin condition.....	44,558	39.1
Arthritis.....	47,125	41.4
Visual impairment.....	13,384	11.8
Hearing impairment.....	50,882	44.7
Impairment of back or spine .....	72,017	63.2
Gout.....	14,301	12.6

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

**Table 2.17-- ACUTE CONDITIONS: 1992**

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions .....	2,722,388	239.0
Infective parasitic diseases.....	121,871	10.7
Respiratory condition.....	2,021,680	177.5
Digestive system condition .....	57,001	5.0
Injuries .....	119,960	10.5
All other acute conditions .....	401,876	35.3

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

**Table 2.18-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1992**

Type of limitation	Number
Persons with one or more chronic conditions .....	509,997
No limitation of activity .....	372,361
Limited, but not in major activity .....	65,081
Limited in amount or kind of activity.....	34,698
Unable to carry on major activity.....	21,245
Not reported.....	16,612
Restricted activity days in past month <u>1/</u> .....	1,946,798
Per person <u>2/</u> .....	1.8

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: 1991 TO 1993**

Disease	Cases			Deaths		
	1991	1992	1993	1991	1992	1993
AIDS .....	176	133	379	120	118	129
Chickenpox .....	825	1,009	2,303	-	-	1
Gonorrhea .....	695	686	614	-	-	-
Hansen's Disease <u>1/</u> .....	12	19	17	-	-	-
Hepatitis, all types .....	120	356	94	5	10	14
Influenza .....	135	135	2,531	-	1	1
Leptospirosis <u>2/</u> .....	33	31	24	1	-	-
Malaria <u>3/</u> .....	4	11	7	-	-	-
Measles (Rubeola) .....	12	46	20	-	-	-
Meningitis, all types .....	80	145	170	6	2	1
Mumps .....	30	28	31	-	-	-
Rubella .....	9	25	28	-	-	-
Salmonellosis .....	373	321	337	-	-	-
Syphilis .....	10	10	7	-	-	-
Tuberculosis .....	202	274	251	11	5	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-- HEALTH RISK BEHAVIORS FOR PERSONS 18 YEARS AND OLDER, BY PLACE OF RESIDENCE: 1992**

[Percent of increased risk for morbidity and mortality]

Risk factor	State	Oahu	Neighbor islands
Seatbelt nonuse .....	4.2	4.1	4.5
Overweight (20 percent or more) .....	24.9	24.6	26.3
Hypertension .....	14.8	14.9	14.6
Sedentary lifestyle .....	55.5	54.3	59.9
Cigarette smoking .....	20.1	18.2	27.1
Chronic drinking <u>1/</u> .....	5.8	5.4	7.5
Acute drinking <u>2/</u> .....	19.1	17.8	24.0
Drinking and driving .....	3.1	2.9	3.6

1/ Sixty or more drinks during past month.

2/ Five or more drinks on an occasion, one or more times a month.

Source: Hawaii State Department of Health, *Hawai'i's Health Risk Behaviors 1992* (January 1995), p.8.

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

[Includes all persons in households in which one or more individuals 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-- 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 <u>1/</u> .....	1.884	3.658
Secondary or permanent teeth <u>2/</u> .....	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 <u>3/</u> .....	27.0	36.2
One or more decayed primary or permanent teeth .....	53.0	96.9

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

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

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

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 2.23-- HOME HEALTH CARE AGENCIES, HOSPICES, NURSING HOMES, AND BOARD AND CARE HOMES: 1991**

Type of facility	Number	Residents	Residents with reported age	
			Total	65 and over
Total .....	380	...	...	...
Home health care agencies ...	18	...	...	...
Hospices .....	8	...	...	...
Nursing homes .....	54	2,840	2,721	2,504
Board and care homes .....	300	2,267	1,289	849

Source: National Center for Health Statistics, "Urban and Rural Classification of National Health Provider Inventory Providers: United States, 1991," *Advance Data*, No. 266 (September 1995).



**Table 2.24-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1988 TO 1993**

[Institutions approved through the Certificate of Need Process. Tripler Army Medical Center included through 1992 but excluded thereafter]

Category and year	Hospitals				Care homes	
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Type I <u>2/</u>	Type II <u>3/</u>
<b>Number of facilities:</b>						
1988 .....	51	22	36	9	531	16
1989 .....	52	22	38	8	515	16
1990 .....	57	24	40	11	501	15
1991 .....	59	24	41	13	494	14
1992 .....	59	24	41	13	490	14
1993 .....	57	23	41	13	486	13
<b>Number of beds:</b>						
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
1993 .....	6,890	2,649	3,502	739	2,164	413

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, *Utilization of Inpatient Facilities, by County* (annual) and records, and Hospital and Medical Facilities Branch, records.

**Table 2.25-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1988 TO 1993**

[Excludes Tripler Army Medical Center]

Type of facility and year	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
<b>Acute care:</b>				
1988 <sup>1/</sup> .....	117,548	2,074	6.4	73.3
1989 .....	91,686	1,722	6.7	73.3
1990 .....	93,511	1,755	6.8	69.4
1991 .....	96,961	1,814	6.8	70.0
1992 .....	98,973	1,837	6.8	71.1
1993 .....	100,290	1,848	6.7	71.1
<b>Long-term care:</b>				
1988 <sup>1/</sup> .....	2,746	2,907	376	91.7
1989 .....	2,653	2,993	409	93.5
1990 .....	3,137	3,165	368	93.1
1991 .....	3,181	3,216	369	93.4
1992 .....	3,255	3,343	375	96.2
1993 .....	3,346	3,339	364	95.1

<sup>1/</sup> Excludes statistics for Lanai.

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

**Table 2.26-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1993**

[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				Care homes	
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Type I <u>2/</u>	Type II <u>3/</u>
<b>NUMBER OF FACILITIES</b>						
State total .....	57	23	41	13	486	13
Oahu .....	38	11	25	10	394	10
Hawaii .....	7	4	7	-	49	-
Kauai .....	6	3	5	1	20	2
Maui .....	3	3	2	1	15	-
Molokai .....	2	1	1	1	8	1
Lanai .....	1	1	1	-	-	-
<b>NUMBER OF BEDS</b>						
State total .....	6,890	2,649	3,502	739	2,164	413
Oahu .....	5,191	2,118	2,359	714	1,803	354
Hawaii .....	746	252	494	-	193	-
Kauai .....	397	114	276	7	72	45
Maui .....	498	151	343	4	62	-
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.

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County, 1993* (revised edition, January 1995), and Hospital and Medical Facilities Branch, records.

**Table 2.27-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1993**

[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</b>				
State total .....	100,290	1,848	6.7	71.1
Oahu .....	75,292	1,491	7.2	71.9
Hawaii .....	11,422	148	4.7	59.0
Kauai .....	4,827	65	4.9	56.9
Maui .....	8,602	142	6.0	96.8
Molokai .....	137	1	2.2	10.3
Lanai .....	10	1	1.7	0.8
<b>LONG-TERM CARE</b>				
State total .....	3,346	3,339	364	95.1
Oahu .....	2,400	2,212	336	93.9
Hawaii .....	385	519	492	100.5
Kauai .....	352	251	260	94.6
Maui .....	136	334	897	97.4
Molokai .....	64	16	91	72.5
Lanai .....	9	7	271	83.5

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County, 1993* (revised edition, January 1995).

**Table 2.28-- SELECTED HEALTH STATISTICS FOR THE UNITED STATES  
AND HAWAII: 1991-1993**

Subject	United States	Hawaii	
		Number	Rank <u>1/</u>
Health Maintenance Organizations, 1993:			
Number.....	546	5	32
Enrollment (1,000).....	46,722	252.7	32
Percent of population.....	18.5	21.0	12
Preferred provider plans (managed care):			
Number, October 1993.....	895	3	43
Enrollment, December 1992 (1,000).....	50,478	404.4	(NC)
Community hospitals, 1992:			
Occupancy rate (percent).....	65.6	82.6	2
Average length of stay (days).....	7.1	8.9	6
Cost per patient day (dollars).....	820	761	28
Cost per patient stay (dollars).....	5,794	6,876	4
Hospital visits per 1,000 population, 1991:			
Admissions.....	(NC)	107	49
Emergency room visits.....	(NC)	294	46
Outpatient visits.....	(NC)	1,190	43
Surgical operations in hospitals, 1992 (1,000).....	23,959	71.7	45

NC Not calculated.

1/ Among 50 States.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data 1994* (1995), pp. 44, 48, 98, 99, 128.

**Table 2.29-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:  
1986 TO 1994**

<b>Facilities and year</b>	<b>Persons active, Dec. 31</b>	<b>Admissions</b>	<b>Discharges</b>	<b>Persons served</b>
<b>Hawaii State Hospital:</b>				
1986 .....	238	607	593	831
1987 .....	214	675	699	913
1988 .....	237	712	689	926
1989 .....	220	777	794	1,014
1990 .....	193	738	765	958
1991 .....	159	311	345	504
1992 .....	198	394	355	553
1993 .....	195	446	449	644
1994 .....	199	275	271	470
<b>State-supported outpatient community mental health centers:</b>				
1986 .....	2,389	1,759	2,194	4,583
1987 .....	2,563	2,158	1,984	4,547
1988 .....	2,612	2,092	2,043	4,655
1989 .....	2,369	1,840	2,083	4,452
1990 .....	2,505	1,764	1,628	4,133
1991 .....	3,037	2,494	1,962	4,999
1992 .....	3,509	2,182	1,710	5,219
1993 .....	3,410	2,004	2,103	5,513
1994 .....	3,246	1,692	1,856	5,102

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

**Table 2.30-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:  
1991 TO 1995**

[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
1995.....	202	151	112	186	171

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

**Table 2.31-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1992 TO 1995**

[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	
1992.....	172	1	114	112	-
1993.....	172	4	101	82	-
1994.....	172	-	82	80	-
1995.....	172	3	77	75	3

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

**Table 2.32-- HANSEN'S DISEASE PATIENTS REGISTERED: 1989 TO 1993**

Subject	1989	1990	1991	1992	1993
Patients on register, Dec. 31..	541	498	487	479	460
At home.....	447	405	397	393	378
Kalaupapa .....	90	89	86	83	79
Hale Mohalu at Leahi.....	4	4	4	3	3
New cases.....	18	18	19	19	17
Deaths.....	14	9	3	8	10

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

**Table 2.33-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: AUGUST 11, 1994**

Place of address	Physicians and surgeons <u>1/</u>	Dentists	Registered nurses	Pharmacists
Total licensed.....	5,243	1,316	12,368	1,191
Hawaii addresses .....	2,844	1,012	9,640	694
Hawaii .....	221	94	884	72
Maui .....	194	58	986	57
Lanai .....	1	2	16	-
Molokai.....	7	4	38	2
Oahu .....	2,326	815	7,329	532
Kauai.....	95	39	387	31
Niihau.....	-	-	-	-
Mainland U.S.....	2,307	296	2,507	489
Foreign.....	92	8	221	8

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, records.



**Table 2.34-- MARRIAGES AND DIVORCES: 1970 TO 1994**

[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
1993.....	17,252	9,744	4,888	8.4	4.2	43.5	44.1
1994.....	18,118	9,317	4,933	7.9	4.2	48.6	(NA)

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 2.35-- 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 2.36-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:  
1990 TO 1993**

[Place of occurrence basis]

Subject	1990	1991	1992	1993
<b>MARRIAGES</b>				
Number .....	18,306	17,764	17,725	17,252
Percent on Oahu .....	58.3	57.9	58.0	57.7
Percent Hawaii residents:				
Both bride and groom .....	53.1	52.4	52.7	52.6
One partner only .....	3.7	4.2	4.0	3.9
Neither bride nor groom .....	43.1	43.4	43.3	43.5
Median age (years):				
Groom .....	31	31	31	31
Bride .....	28	29	29	29
Percent previously married:				
Groom .....	39.5	38.8	38.1	36.8
Bride .....	40.1	39.2	38.5	37.4
<b>DIVORCES AND ANNULMENTS</b>				
Number .....	5,179	5,184	5,040	4,888
Divorces .....	5,163	5,161	5,024	4,878
Annulments .....	10	13	14	10
Not reported .....	6	10	2	-
Percent occurring on Oahu .....	77.5	76.7	74.2	72.2
Percent Hawaii residents:				
Both partners .....	73.9	76.4	76.4	75.5
One partner only .....	26.0	23.3	23.4	24.3
Neither partner .....	0.2	0.2	0.2	0.2
Median age (years):				
Husband .....	35	35	35	36
Wife .....	33	33	33	34
Percent interracial <sup>1/</sup> .....	40.3	40.0	39.9	41.8
Percent with children under 18 years ...	52.1	52.1	52.1	51.8
Median years married .....	6.3	6.3	6.3	6.4

<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 2.37-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1993**

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages.....	17,252	9,744	7,508
Race of partners:			
Both partners same race <sup>1/</sup> .....	12,122	5,445	6,677
Different .....	5,130	4,299	831
Percent different .....	29.7	44.1	11.1
Type of ceremony:			
Civil ceremony.....	4,495	3,728	767
Religious ceremony .....	12,757	6,016	6,741
Unknown.....	-	-	-

<sup>1/</sup> Includes marriages with both partners of unknown race.

Source: Hawaii State Department of Health, special tabulations.

**Table 2.38-- MARITAL DISSOLUTION: 1980 TO 1993**

Subject	1980	1990	1993	Percent		
				1980	1990	1993
Married couples.....	185,698	210,468	224,000	100.0	100.0	100.0
Marriages ended.....	6,782	8,292	8,281	3.7	3.9	3.7
By divorce .....	4,438	5,172	4,878	2.4	2.5	2.2
By death .....	2,344	3,120	3,403	1.3	1.5	1.5
Husbands .....	1,678	2,234	2,474	0.9	1.1	1.1
Wives.....	666	886	929	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; 1993 DBEDT estimate of married couples, based on 1990-93 percent increase in households.

**Table 2.39-- PERSONAL HEALTH CARE EXPENDITURES, BY TYPE: 1993**

[Data represent spending for services produced by Hawaii's health care providers, as opposed to those consumed by Hawaii residents or supplied by Hawaii employers]

Expenditure type	Million dollars	Percent
Personal health care expenditures, total .....	3,485	100.0
Hospital care .....	1,460	41.9
Physician services.....	771	22.1
Dental services .....	235	6.7
Other professional services.....	222	6.4
Home health care.....	32	0.9
Drugs and other medical nondurables .....	416	11.9
Vision products and other medical durables .....	64	1.8
Nursing home care.....	181	5.2
Other personal health care .....	104	3.0
Medicare personal health care expenditures.....	496	...
Medicaid personal health care expenditures .....	354	...

Source: *Statistical Abstract of the United States: 1995* (1995), p. 111.

**Table 2.40-- HEALTH CARE EXPENDITURES: 1980 AND 1991**

[Data represent spending for services provided by Hawaii's health care providers, as opposed to those consumed by Hawaii residents or supplied by the State's employers]

Type	1980 (million dollars)	1991 (million dollars)	Average annual percent change, 1980-91
Total .....	655	2,144	11.4
Hospital care .....	360	1,287	12.3
Physician services.....	251	719	10.0
Prescription drugs (retail purchases).....	44	137	10.9

Source: U.S. Health Care Financing Administration and Office of National Health Statistics, cited in *Statistical Abstract of the United States: 1994*, p. 111.