






































# Section 2: Health



<i>Section Narrative</i>		
2.01	Births and Deaths: 1980 to 1998	
2.02	Births and Deaths, by Military Status: 1994 to 1998	
2.03	Live Births, Standard Fetal Deaths, and Elective Abortions: 1993 to 1998	
2.04	Births and Deaths, by Residence: 1995 to 1998	
2.05	Characteristics of Resident Births: 1996 to 1998	
2.06	Children Ever Born Per 1,000 Women 15 to 44 Years Old, by Geographic Area: 1990	
2.07	Birth and Fertility Rates for the United States and Hawaii: 1997	
2.08	Resident Births, Mixed and Unmixed Race, by Military Status of Parents: 1998	
2.09	Most Common First Names on Birth Certificates, by Sex: 1998	
2.10	Most Common Surnames on Birth and Death Certificates: 1998	
2.11	Expectation of Life at Birth for Both Sexes Combined, by Race: 1910 to 1990	
2.12	Expectation of Life at Birth, by Sex, for the United States and Hawaii: 1900 to 1997	
2.13	Average Lifetime, By Sex: 1959-61 to 1989-91	
2.14	Selected Life Table Values: 1989-91	
2.15	Characteristics of Resident Deaths: 1996 to 1998	
2.16	Cause of Death, by Sex: 1998	
2.17	Greatest Catastrophic Mortality of Record, by Type of Disaster: 1778 to 2000	
2.18	Catastrophic Mortality: 1990 to 2000	
2.19	Deaths Occurring in Hawaii, by Method of Disposition: 1970 to 1998	
2.20	Persons on the State Blind Register, by Counties: 1995 to 1999	

2.21	Selected Chronic Conditions: 1997 and 1998		
2.22	Specified Communicable Diseases: 1994 to 1998		
2.23	Health Risk Behaviors and Conditions for Persons 18 Years and Older: 1995 to 1998		
2.24	Number and Bed Capacity of State-Approved Hospitals and Care Homes, by Type of Facility: 1994 to 1999		
2.25	Occupancy Characteristics of State-Approved Acute and Long-Term Care Civilian Hospitals: 1993 to 1998		
2.26	Number and Bed Capacity of State- Approved Civilian Hospitals and Care Homes, by Type of Facility, by Islands: December 1998		
2.27	Occupancy Characteristics of State-Approved Acute and Long-Term Care Civilian Hospitals, by Islands: 1998		
2.28	Adult Patients Served by State Mental Health Facilities: 1988 to 1998		
2.29	Hawaii State Hospital Beds and Occupancy: 1995 to 1999		
2.30	Hansen's Disease Patients Registered: 1994 to 1998		
2.31	Community Hospital Characteristics, for the United States and Hawaii: 1996		
2.32	Physicians, Dentists, Nurses, and Pharmacists Licensed in Hawaii, by Place of Address: June 30, 1999		
2.33	Health Care and Social Assistance Establishments with Payroll, by Kind of Business or Operation: 1997		
2.34	Health Care and Social Assistance Establishments with Payroll and Subject to Federal Income Tax, For Counties and Selected Urban Places: 1997		
2.35	Marriages and Divorces: 1980 to 1998		
2.36	Marriage and Divorce Rates Based on Risk Population: 1910 to 1990		
2.37	Characteristics of Marriages and Divorces: 1995 to 1998		
2.38	Marriages Occurring in Hawaii, Resident and Nonresident, by Race Mixture and Type of Ceremony: 1998		
2.39	Marital Dissolution: 1980 to 1998		

## Section 2

# VITAL STATISTICS AND HEALTH

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

The major source for data on vital statistics and health is 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: 1999* contain data for the nation as a whole.

**Table 2.01-- BIRTHS AND DEATHS: 1980 TO 1998**

Calendar year	Resident births 1/	Resident deaths 1/	Rates per 1,000 resident population 2/		Rates per 1,000 live births 3/		
			Births	Deaths	To unmarried mothers	Fetal deaths 4/	Infant deaths 5/
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	17.6	5.9	262.5	10.5	7.0
1992	19,837	6,846	6/ 17.3	6/ 6.0	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	6/ 16.6	6.1	283.8	12.0	6.8
1995	18,552	7,482	15.7	6.3	291.8	12.1	5.9
1996	18,378	7,803	15.5	6.6	302.3	9.6	5.8
1997	17,326	7,710	6/ 14.6	6.5	299.0	8.5	6.4
1998	17,567	7,969	14.8	6.7	319.4	8.1	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 by the U.S. Bureau of the Census, as revised through Dec. 31, 1999.

3/ Place of occurrence basis.

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

5/ Under 1 year of age.

6/ Changed due to revision in the population estimate.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and Office of Health Status Monitoring, records; Rates per 1,000 resident population calculated by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 2.02-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1994 TO 1998**

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1994	19,515	-	19,515	3,604	15,911	3,604
1995	18,636	-	18,636	3,172	15,464	3,172
1996	18,451	-	18,451	3,132	15,319	3,132
1997	17,415	-	17,415	3,131	14,284	3,131
1998	17,628	-	17,628	3,011	14,617	3,011
Deaths:						
1994	7,529	154	7,375	76	7,299	230
1995	7,795	173	7,622	65	7,557	238
1996	8,148	185	7,963	77	7,886	262
1997	8,016	151	7,865	78	7,787	229
1998	8,297	175	8,122	85	8,037	260
Birth rates: 2/						
1994	15.2	0	15.9	66.3	13.5	33.6
1995	14.5	0	15.1	68.2	13.0	32.6
1996	14.3	0	14.8	56.6	12.9	30.3
1997	13.5	0	14.0	56.3	12.0	31.3
1998	13.3	0	13.8	49.7	12.0	28.5
Death rates: 2/						
1994	5.9	2.9	6.0	1.4	6.2	2.1
1995	6.1	3.4	6.2	1.4	6.4	2.4
1996	6.3	3.9	6.4	1.4	6.6	2.5
1997	6.2	3.4	6.3	1.4	6.6	2.3
1998	6.3	3.9	6.4	1.4	6.6	2.5

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. Calculation of de facto population are based on July 1 estimates by the U.S. Census Bureau, as revised through Dec. 31, 1998.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; birth and death rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1993 TO 1998**

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate 1/			
1993 2/	26,765	23.0	19,567	1,392	5,806
1994	26,457	22.5	19,438	1,265	5,754
1995	25,139	3/ 21.3	18,552	1,086	5,501
1996	24,234	3/ 20.5	18,378	985	4,871
1997	22,680	3/ 19.1	17,326	854	4,500
1998	22,794	19.1	17,567	1,084	4,143

1/ Per 1,000 resident population, July 1. Based on population estimates by the U.S. Census Bureau, as revised through Dec. 31, 1999.

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

3/ Changed due to revision in the population estimate.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, records; Rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.

**Table 2.04-- BIRTHS AND DEATHS, BY RESIDENCE: 1995 TO 1998**

Event and year	Occurring in Hawaii				Persons born in or current residents of Hawaii 1/	
	Total	Resident	Non-resident	Not reported	Total	Out of State
Births:						
1995	18,636	18,552	81	3	18,578	26
1996	18,451	18,378	69	4	18,396	18
1997	17,415	17,326	87	2	(NA)	(NA)
1998	17,628	17,567	61	-	(NA)	(NA)
Deaths:						
1995	7,795	7,482	309	4	7,718	236
1996	8,148	7,803	338	7	8,124	321
1997	8,016	7,710	303	3	(NA)	(NA)
1998	8,297	7,969	321	7	(NA)	(NA)

NA Not available.

1/ Birth figures exclude mothers who were born in Hawaii but are now residents of another state.

Death figures include deaths of Hawaii residents occurring in Hawaii or in other states as well as Guam, Canada, and other foreign countries as well as deaths of persons born in Hawaii but who were residents of other states at the time of death. The death, however, must have been reported to the Hawaii Department of Health by the health department in the location that the death occurred.

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

**Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1996 TO 1998**

[Excludes births to Hawaii residents occurring out of state]

<b>Subject</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>
Number of resident births	18,378	17,326	17,567
City and County of Honolulu	13,728	12,860	13,127
Percent on Oahu	74.7	74.2	74.7
Hawaii County	1,979	1,891	1,912
Kauai County	807	742	773
Maui County (incl. Kalawao)	1,864	1,833	1,755
Percent attended by M.D. or O.D. in hospital	94.6	94.6	95.0
Males per 100 females	105.6	106.0	104.8
Median weight of single births (grams)	3,305	3,295	3,310
Percent low birth weight (under 2,500 grams)	6.7	7.1	7.9
Percent single births under 40 weeks gestation	51.7	56.9	59.4
Percent plural	1.9	1.6	2.3
Percent with 1 or more congenital malformations	3.7	4.0	6.3
Percent to unmarried mothers	30.3	30.0	32.0
Percent with prenatal visit in first three months	81.7	81.3	81.0
Percent first child born to mother 1/	27.3	29.9	31.8
Percent first child born alive to mother	42.7	42.1	42.3
Median age of mothers (years)	27	27	27
Median age of known fathers (years)	30	30	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**

<b>Age of women</b>	<b>State total</b>	<b>Oahu</b>	<b>Other islands</b>
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-- BIRTH AND FERTILITY RATES FOR THE UNITED STATES  
AND HAWAII: 1997**

[Excludes births to nonresidents of the United States]

Type of rate	United States	Hawaii	Rank of Hawaii 1/
Births per 1,000 population	14.5	14.7	14
Fertility rate 2/	65.0	69.0	9

1/ Among 50 States and D.C., highest rate ranking 1.

2/ Births per 1,000 women aged 15 to 44.

Source: *Statistical Abstract of the United States: 1999*, p. 77.

**Table 2.08-- RESIDENT BIRTHS, MIXED AND UNMIXED RACE,  
BY MILITARY STATUS OF PARENTS: 1998**

<b>Military status of parents</b>	<b>Total births</b>	<b>Unmixed</b>	<b>Mixed 1/</b>	<b>Not reported 2/</b>	<b>Percent mixed 3/</b>
Total	17,567	7,275	9,459	833	56.5
Military	2,993	2,103	838	52	28.5
Civilian	13,162	5,133	8,018	11	61.0
Status not reported	1,412	39	603	770	93.9

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, Office of Health Status Monitoring, records.

**Table 2.09-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES,  
BY SEX: 1998**

A total of 7,496 first names, including variant spellings, was reported for the 17,628 babies born in Hawaii in 1998]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Joshua	135	Taylor	77
2	Matthew	102	Kayla	66
3	Noah	99	Ashley	64
4	Christian	85	Jessica	63
5	Austin	83	Alyssa	57
6	Brandon (tie)	81	Emily	52
7	Jacob (tie)	81	Sarah	49
8	Justin	79	Kiana (tie)	48
9	Christopher (tie)	78	Samantha (tie)	48
10	Tyler (tie)	78	Rachel	46

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

**Table 2.10-- MOST COMMON SURNAMES ON BIRTH AND DEATH  
CERTIFICATES: 1998**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	95	Lee	78
2	Smith (tie)	55	Wong	56
3	Kim (tie)	55	Chang	37
4	Brown	52	Kim	32
5	Johnson	50	Nakamura (tie)	29
6	Wong	47	Tanaka (tie)	29
7	Williams	45	Ching (tie)	25
8	Ramos	43	Young (tie)	25
9	Young	41	Higa (tie)	24
10	Garcia	40	Lum (tie)	24

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

**Table 2.11-- EXPECTATION OF LIFE AT BIRTH FOR BOTH SEXES  
COMBINED, BY RACE: 1910 TO 1990**

[In years]

Year	All races	Caucasian	Chinese	Filipino	Hawaiian and Part- Hawaiian	Japanese	Other
1910	43.96	54.83	54.17	(NA)	32.58	49.34	15.62
1920	45.69	56.45	53.80	28.12	33.56	50.54	28.38
1930	53.95	61.90	60.07	46.14	41.87	60.07	32.58
1940	62.00	64.03	65.32	56.85	51.78	66.28	59.48
1950	69.53	69.21	69.74	69.05	62.45	72.58	68.29
1960	72.42	72.80	74.12	71.53	64.60	75.68	62.19
1970	74.20	73.24	76.11	72.61	67.62	77.44	76.74
1980	77.78	75.79	81.65	79.32	71.83	80.91	78.98
1990	78.85	75.53	82.93	78.94	74.27	82.06	80.37

NA Not available.

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1980," by Robert W. Gardner, *R & S Report*, No. 47, (March 1984), p. 7, and "Life Expectancy in the State of Hawai'i 1980 and 1990," *R & S Report*, No. 63 (August 1996), pp. 18-33.

**Table 2.12-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1900 TO 1997**

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

Year	United States 1/			Hawaii		
	Both sexes	Male	Female	Both sexes	Male	Female
1900	47.3	46.3	48.3	(NA)	(NA)	(NA)
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	77.78	74.54	81.51
1990	75.4	71.8	78.8	78.85	75.90	82.06
1997	76.5	73.6	79.4	(NA)	(NA)	(NA)

NA Not available.

1/ 1910 and 1920 data are for the death-registration states only.

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, "United States Life Tables, 1997", *National Vital Statistics Reports*, Vol. 47, No. 28, Dec. 13, 1999, table 12; 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), pp. 8-26; and "Life Expectancy in the State of Hawai'i, 1980 and 1990," *R & S Report*, No. 63 (August 1996), p. 9.

**Table 2.13-- AVERAGE LIFETIME, BY SEX: 1959-61 TO 1989-91**

Period	Years			Rank 1/		
	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
1989-1991 2/	78.21	75.37	81.26	1	1	1

NA Not available.

1/ Among the 50 states and D.C., with the highest average lifetime in years ranking 1.

2/ Average lifetime for all states combined was 75.37 years for both sexes combined, 71.83 years for males, and 78.81 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, and *U.S. Decennial Life Tables for 1989-91*, Vol. II, *State Life Tables*, No. 12, *Hawaii* (March 1998), p. 4.



**Table 2.14-- SELECTED LIFE TABLE VALUES: 1989-91**

Exact age in years (x)	Average expectation of life in years ( $e_x$ )			Number surviving to specified age per 100,000 born alive ( $l_x$ )		
	Both sexes	Male	Female	Both sexes	Male	Female
0	78.21	75.37	81.26	100,000	100,000	100,000
1	77.80	75.01	80.78	99,253	99,154	99,358
5	73.95	71.18	76.92	99,053	98,925	99,189
15	64.12	61.37	67.06	98,817	98,647	98,997
25	54.53	51.89	57.32	98,128	97,739	98,570
35	45.04	42.58	47.59	97,132	96,291	98,063
45	35.74	33.49	38.06	95,418	93,989	96,982
55	26.98	24.93	29.06	91,637	89,354	94,067
65	18.98	17.31	20.66	83,847	79,600	88,093
75	12.01	10.88	13.07	68,406	61,075	76,007
85	6.55	5.71	7.07	40,617	32,940	49,596
95	3.29	2.92	3.40	8,840	5,002	12,652

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, *U.S. Decennial Life Tables for 1989-91*, Vol. II, *State Life Tables*, No. 12, *Hawaii* (March 1998), pp. 6-11.

**Table 2.15-- CHARACTERISTICS OF RESIDENT DEATHS: 1996 TO 1998**

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1996	1997	1998
Number of resident deaths	7,803	7,710	7,969
City and County of Honolulu	5,557	5,484	5,609
Hawaii County	1,064	1,052	1,123
Kauai County	403	419	418
Maui County (incl. Kalawao)	779	755	819
Males per 100 females	132.7	133.1	130.5
Median age (years)	75	75	76
Centenarian deaths: Male	11	14	11
Female	52	42	51
Oldest (years): Male	106	105	105
Female	110	110	108
Percent married	46.4	46.3	45.0
Deaths under 1 year	98	104	116
Per 1,000 live births	5.3	6.0	6.6
Fetal deaths 1/	5,856	5,354	5,227
Per 1,000 deliveries	242	236	229
Fetal deaths, 20 or more weeks gestation 2/	178	148	142
Per 1,000 live births	9.6	8.5	8.1
Standard fetal deaths 3/	985	854	1,084
Elective abortions	4,871	4,500	4,143
Per 1,000 live births	265.0	259.7	235.8

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, Office of Health Status Monitoring, records.

**Table 2.16-- CAUSE OF DEATH, BY SEX: 1998**

[Place of residence basis]

<b>Cause of death</b>	<b>Both sexes</b>	<b>Males</b>	<b>Females</b>
Total deaths	7,969	4,500	3,469
Tuberculosis	2	2	-
Other infective 1/	200	112	88
Malignant neoplasm	1,943	1,098	845
Digestive organs	567	346	221
Respiratory system	559	354	205
Breast	129	1	128
Genital organs	188	102	86
Urinary organs	84	60	24
Leukemia	73	38	35
Other	343	197	146
Diabetes mellitus	199	106	93
Heart disease	2,416	1,406	1,010
Rheumatic	24	9	15
Hypertensive	84	53	31
Ischemic	1,230	752	478
Other heart	1,078	592	486
Hypertension	53	21	32
Cerebrovascular disease	650	331	319
Arteriosclerosis	20	9	11
Other circulatory	126	69	57
Influenza/pneumonia	385	215	170
Chronic obstructive pulmonary diseases	261	154	107
Peptic ulcer	15	9	6
Cirrhosis of liver	67	50	17
Nephritis and nephrosis	106	56	50
Pregnancy, birth & puerperium	2	-	2
Congenital anomalies	33	18	15
Perinatal conditions	67	34	33
Symptoms, signs & ill-defined conditions	75	38	37
Other diseases 2/	876	430	446
Unintentional injury	291	209	82
Motor vehicles	122	87	35
Other	169	122	47
Suicide	112	78	34
Homicide & legal intervention	28	22	6
Other external causes	42	33	9

1/ Includes AIDS.

2/ Includes other respiratory.

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

**Table 2.17-- GREATEST CATASTROPHIC MORTALITY OF RECORD,  
BY TYPE OF DISASTER: 1778 TO 2000**

[Complete through May 16, 2000]

Kind of disaster	Date	Location	Event	Deaths
Aircraft	Mar. 22, 1955	Waianae Mts.	Crash of MATS R6-D	66
Asphyxiation	Oct. 19, 1937	Palama	Leaking gas in house	8
Construction	Mar. 25, 1930	Kauai	Collapse of Alexander Dam	6
Earthquake	Apr. 2, 1868	Ka'u; Puna	Earthquake	32
Explosion	May 21, 1944	West Loch	Explosions on 9 Navy ships loading ammunition	163
Fire	June 8, 1944	Kalihi	Colliding bombers set fire to houses 1/	10
	Oct. 15, 1997	Palolo	Fire destroyed 3 houses	7
Flood	Jan. 18, 1916	Iao; Wailuku	Cloudburst and flood	14
Homicide	Nov. 2, 1999	Iwilei	Mass murder in office	7
Hurricane	Sept. 11, 1992	Kauai; Oahu	Hurricane Iniki	8
Landslide	May 9, 1999	Sacred Falls	Landslide	8
Marine	1829 or 1830	New Hebrides	Losses to Boki's ships 2/	410
Motor vehicle	July 2, 1944	Waialua	Truck overturned on pedestrians	7
	July 5, 1969	Kam Hwy at Puuloa	2-car accident	7
Railroad	June 26, 1916	Near Hana	Work train derailed	5
Tsunami	Apr. 1, 1946	Statewide	Tsunami	159
Volcano	Nov. 1790	Kilauea	Eruption killed soldiers	80 or 400
War, riots, etc.	Dec. 7, 1941	Oahu	Pearl Harbor attack	2,500
	Jan. 1790	Olowalu	U.S. ship fired on native canoes	> 100
	Sept. 9, 1924	Hanapepe	Police fired on strikers	20

1/ Death toll in burning houses; in addition, 4 airmen perished.

2/ Of Boki's two-ship expedition to New Hebrides, the *Kamehameha* and its crew of 250 vanished; the *Becket* survived but lost 160 of its crew.

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. 3 (1969), pp. 66-86, and "Catastrophic Mortality in Hawaii: An Update," *The Hawaiian Journal of History*, Vol. 23 (1989), pp. 217-227; *Data Book 1998*, table 2.17, as updated.

**Table 2.18-- CATASTROPHIC MORTALITY: 1990 TO 2000**

[Includes all accidents, natural disasters, and other events causing five or more deaths.  
Complete through Aug. 1, 2000]

<b>Date</b>	<b>Place</b>	<b>Kind of disaster</b>	<b>Deaths</b>
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
1996: Nov. 1	Halawa, Molokai	Airplane crash	5
1997: Oct. 15	Palolo Valley, Honolulu	3 houses destroyed by fire	7
1998: June 25	Waialeale Crater, Kauai	Helicopter crash	6
1999: May 9	Sacred Falls, Oahu	Landslide	8
Sept. 25	Mauna Loa slope, Hawaii	Airplane crash	10
Nov. 2	Iwilei, Honolulu	Mass murder in office	7
2000: July 21	Iao Valley, Maui	Helicopter crash	7

Source: Hawaii State Department of Business, Economic Development & Tourism file of newspaper accounts.

**Table 2.19-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:  
1970 TO 1998**

<b>Method</b>	<b>1970</b>	<b>1980</b>	<b>1990</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>
All methods	4,197	5,204	7,055	8,148	8,016	8,297
Burial	2,197	2,343	2,798	2,861	2,811	2,855
Cremation	1,509	2,241	3,564	4,670	4,616	4,807
Removal	470	567	656	580	548	580
Entombment	13	44	35	11	20	16
Medical science	3	-	-	22	20	38
Other	-	1	-	1	-	-
Unknown	5	8	2	3	1	1

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

**Table 2.20-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:  
1995 TO 1999**

<b>Date</b>	<b>State total</b>	<b>City and County of Honolulu</b>	<b>Hawaii County</b>	<b>Kauai County</b>	<b>Maui County</b>
1995: June 30	2,358	1,760	261	107	230
1996: June 30	2,509	1,873	285	109	242
1997: June 30	2,559	1,919	277	114	249
1998: June 30	2,600	1,974	287	112	227
1999: June 30	2,623	1,977	297	118	231

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

**Table 2.21-- SELECTED CHRONIC CONDITIONS: 1997 AND 1998**

[Provisional data. Based on a sample survey of 4,382 households with 12,923 persons]

Selected chronic conditions	Prevalence of condition		Conditions per 1,000 persons 1/	
	1997	1998	1997	1998
Diabetes	45,838	52,997	40	46
Hypertension	145,232	149,466	127	130
High blood cholesterol	143,407	144,026	125	125
Asthma	123,316	102,533	108	89
Arthritis	75,861	84,301	66	73

1/ Population base includes persons under 18 years, not usually subject to some of these conditions.

Source: Hawaii State Department of Health, Hawaii Health Survey, special tabulation.



**Table 2.22-- SPECIFIED COMMUNICABLE DISEASES: 1994 TO 1998**

[1998 data reported as of June 2000; earlier data not updated]

Disease	1994	1995	1996	1997	1998
Cases:					
AIDS	238	222	192	98	163
Campylobacteriosis	601	699	854	823	622
E. coli 0157:H7	(1/)	17	8	11	19
Fish poisoning 2/	119	129	43	92	111
Giardiasis	131	182	229	162	123
Gonorrhea	699	565	501	507	469
Hansen's Disease 3/	21	19	15	26	19
Hepatitis A	59	166	120	148	54
Hepatitis B (Acute)	28	32	14	11	18
Influenza	1,233	255	129	4/ 1,051	5/ 1,290
Leptospirosis 5/	22	23	42	60	46
Malaria 6/	15	12	12	13	9
Measles (Rubeola)	17	3	51	6	1
Meningitis, bacterial 7/	9	5	8	7	5
Mumps	19	14	31	27	26
Pertussis (whooping cough)	19	65	35	19	26
Pneumococcal disease	77	110	98	52	81
Rubella	4	5	3	9	2
Salmonellosis	304	303	428	387	295
Shigellosis	202	102	87	65	51
Syphilis (Primary & Secondary)	4	-	4	1	1
Tuberculosis	247	193	200	167	181
Deaths: 8/					
AIDS	145	130	73	38	23
Hansen's Disease 3/	1	-	-	-	-
Hepatitis A	-	-	1	-	-
Hepatitis B (Acute)	4	8	11	11	7
Influenza	-	1	3	3	10
Pneumococcal disease	1	2	1	-	1
Salmonellosis	-	1	1	-	-
Tuberculosis	4	6	5	10	2
Meningitis, bacterial					1
Shigellosis					1

Footnotes and source on next page.

**Table 2.22--SPECIFIED COMMUNICABLE DISEASES: 1994 TO 1998 -- Cont.**

- 1/ Reportable disease beginning in 1995.
- 2/ Scombroid, ciguatera and hallucinogenic fish poisoning.
- 3/ Excludes reinstated cases.
- 4/ Of the 1,051 reported cases, 252 cases were confirmed illnesses and 799 were influenza-like illnesses.
- 5/ Of the 1,290 reported cases, 205 cases were confirmed illnesses and 1,085 were influenza-like illnesses.
- 6/ Includes previously unreported cases.
- 7/ Acquired outside the State.
- 8/ Category changed from "meningitis, all types" to "meningitis, bacterial". Viral meningitis is no longer reported.
- 9/ Of the 26 cases, 7 were lab confirmed and 19 were clinically diagnosed.
- 10/ Of the 26 cases, 20 were confirmed and 6 probable.
- 11/ Resident data. For the years shown, no deaths were reported from campylobacteriosis, fish poisoning, giardiasis, gonorrhea, leptospirosis, malaria, measles (rubeola), mumps, pertussis, rubella, or syphilis. No data were available for deaths caused by E. coli O157:H7.

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

**Table 2.23-- HEALTH RISK BEHAVIORS AND CONDITIONS FOR PERSONS 18 YEARS AND OLDER: 1995 TO 1998**

[Weighted percent of adults who reported the health risk behaviors or conditions]

Risk factor 1/	1995	1996	1997	1998
Seatbelt non-use	12.6	(NA)	12.8	(NA)
Acute drinking 2/	12.4	(NA)	17.1	(NA)
Chronic drinking 3/	2.9	(NA)	5.0	(NA)
Drinking and driving	2.1	(NA)	2.4	(NA)
High cholesterol	27.1	(NA)	31.5	(NA)
Hypertension	21.1	(NA)	23.9	(NA)
Lack of exercise 4/	(NA)	71.9	(NA)	69.7
Poor nutrition 5/	(NA)	74.9	(NA)	72.5
Diabetes	3.2	4.6	5.0	5.6
Current smokers 6/	17.8	22.2	18.7	19.5
Overweight 7/	22.4	23.9	26.6	27.8

NA Not available.

1/ Certain risk factor data are collected only on alternating years.

2/ Five or more drinks on at least one occasion, in the past month.

3/ Sixty or more drinks in the past month.

4/ No regular and sustained physical activity.

5/ Less than five fruits and vegetables a day.

6/ Listed as "cigarette smoking" in previous *Data Book* tables.

7/ Body mass index (BMI) greater than or equal to 27.3 for females; body mass index greater than or equal to 27.8 for males.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Behavioral Risk Factor Surveillance System (BRFSS) 1995-1998 at [http://www.hawaii.gov/health/stats/hs\\_hsp.html](http://www.hawaii.gov/health/stats/hs_hsp.html) and records.

**Table 2.24-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1994 TO 1999**

Category and year	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
Number of facilities:						
1994 4/	73	23	41	29	489	12
1995 4/	74	23	42	29	499	12
1996 4/	71	23	42	26	523	12
1997	76	24	43	30	521	11
1998	76	24	45	28	530	12
1999	(NA)	(NA)	(NA)	(NA)	538	13
Number of licensed beds: 5/						
1994 4/	7,130	2,600	3,492	1,038	2,216	407
1995 4/	7,130	2,642	3,504	984	2,274	393
1996 4/	7,433	2,633	3,814	986	2,403	393
1997	7,611	2,654	3,827	1,130	2,410	349
1998	7,847	2,619	4,063	1,165	2,463	363
1999	(NA)	(NA)	(NA)	(NA)	2,509	365

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.

4/ Additional specialty care facilities were added to the survey.

5/ Number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in *The State of Hawaii Data Book 1996* and earlier referred to the number of beds with Certificate of Need approval. Certificate of Need approved beds included beds completed and beds being developed (not yet in service).

Source: Hawaii State Department of Health, State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1994* (September 1995); State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1995* (March 1997); State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data* (June 1997); State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1997 Data* (July 1998); State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* (August 1999); and Office of Health Care Assurance, records.

**Table 2.25-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1993 TO 1998**

[Excludes Tripler Army Medical Center]

Type of facility and year	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:				
1993	100,290	1,848	6.7	71.1
1994	101,057	1,849	6.7	71.2
1995	101,001	1,802	6.5	68.2
1996	100,519	1,689	6.1	64.2
1997	100,353	1,715	6.2	64.5
1998	103,795	1,620	5.7	61.9
Long-term care:				
1993	3,346	3,339	364	95.1
1994	3,149	3,413	395	97.8
1995	3,577	3,308	335	94.4
1996	4,577	3,520	279	92.3
1997	5,098	3,472	247	90.7
1998	5,789	3,675	232	90.5

Source: Hawaii State Department of Health, *Statistical Report* (annual); State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1994*; State Health Planning and Development Agency, *Utilization of Inpatient Facilities by County 1995*; State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data*; State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1997 Data*; State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* and records.

**Table 2.26-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1998**

[Facilities recognized by the Hawaii State Health Planning and Development Agency.  
Excludes Tripler Army Medical Center]

Category and island	Hospitals				Care homes	
	Total 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
<b>NUMBER OF FACILITIES</b>						
State total	76	24	45	28	530	12
Oahu	53	11	27	23	443	9
Hawaii	9	6	9	-	55	-
Kauai	5	3	5	-	16	2
Maui	6	2	2	4	11	-
Molokai	2	1	1	1	5	1
Lanai	1	1	1	-	-	-
<b>NUMBER OF LICENSED BEDS 4/</b>						
State total	7,847	2,619	4,063	1,165	2,463	363
Oahu	5,609	2,053	2,484	1,072	2,083	294
Hawaii	939	250	689	-	241	-
Kauai	384	108	276	-	62	57
Maui	857	196	582	79	53	-
Molokai	44	8	22	14	24	12
Lanai	14	4	10	-	-	-

1/ Institutions providing more than one kind of care are counted only once. Total for number of licensed beds pertains only to hospitals. Care home beds are not licensed by the Department of Health.

2/ Five beds or fewer.

3/ More than five beds.

4/ For hospitals only, number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in the *State of Hawaii Data Book 1996* and earlier referred to the number of beds with Certificate of Need approval. Certificate of Need approved beds included beds completed and beds being developed (not yet in service).

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* (August 1999) and the Office of Health Care Assurance, records.

**Table 2.27-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1998**

[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	103,795	1,620	5.7	61.9
Oahu	76,687	1,281	6.1	62.4
Hawaii	12,055	147	4.4	58.7
Kauai	5,445	56	3.8	51.9
Maui	9,404	135	5.3	69.1
Molokai	171	1	2.4	14.1
Lanai	33	1	2.8	6.2
<b>LONG-TERM CARE</b>				
State total	5,789	3,675	232	90.5
Oahu	3,797	2,317	223	93.3
Hawaii	904	647	261	94.0
Kauai	487	265	199	96.0
Maui	494	420	310	72.2
Molokai	102	19	69	87.8
Lanai	5	6	442	60.5

Source: Hawaii State Department of Health, Hawaii State Health Planning & Development Agency, *Inpatient Facilities and Home Health Services Utilization Report 1998 Data* (August 1999).

**Table 2.28-- ADULT PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1988 TO 1998**

<b>Facilities and year</b>	<b>Persons active, Dec. 31</b>	<b>Admissions</b>	<b>Discharges</b>	<b>Persons served</b>
Hawaii State Hospital:				
1988 1/	237	712	689	926
1989 1/	220	777	794	1,014
1990 1/	193	738	765	958
1991 1/	159	311	345	504
1992	198	394	355	553
1993	195	446	449	644
1994	199	275	271	470
1995 2/	172	107	123	295
1996	164	102	110	274
1997	163	100	101	264
1998	161	137	132	293
State-supported outpatient community mental health centers:				
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
1995	2,798	804	866	3,664
1996	2,867	818	749	3,616
1997	3,024	804	647	3,671
1998	3,395	539	743	3/ 3,557

1/ Figures include children and adolescents who were part of Hawaii State Hospital until the end of June 1991.

2/ Prior to 1995, a patient's administrative leave for treatment at a facility outside Hawaii State Hospital was counted as a discharge when the patient left, then counted as an admission when the patient returned to the Hawaii State Hospital. From 1995, this type of patient leave was handled as an internal transfer.

3/ Number of persons served is for fiscal year 1998. Data reports were unavailable since August 1998 due to the fire in Kinau Hale which destroyed some files. Reports from the new data system are estimated to be available in August 1999.

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



**Table 2.29-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:  
1995 TO 1999**

Year	Number of beds, June 30 1/	Admissions 2/		Patients in hospital 4/	
		Total	First 3/	Average 2/	June 30
1995	202	117	112	186	171
1996	202	89	87	170	167
1997	202	101	100	164	168
1998	202	113	106	164	163
1999	202	132	115	164	162

1/ Number of licensed beds. The number of beds available for use, however, is dependent upon the staff/patient ratio.

2/ Year ended June 30.

3/ Admissions in which a person has entered the facility for the first time during the fiscal year that data are being collected for.

4/ Includes patients on leave and absent without leave. In 1999, about .4% of the patients were on leave or absent without leave.

Source: Hawaii State Hospital, records.

**Table 2.30-- HANSEN'S DISEASE PATIENTS REGISTERED: 1994 TO 1998**

<b>Subject</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>
Patients on register, Dec. 31	419	390	365	357	346
Department of Health's Hansen's Disease Community Program 1/	342	320	301	297	293
Kalaupapa	74	68	64	60	53
Hale Mohalu at Leahi	3	2	-	-	-
New cases	21	19	15	26	19
Deaths	11	15	11	6	13

1/ Previously categorized as "at home". Patients are registered to this community program, but reside at home.

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

**Table 2.31--COMMUNITY HOSPITAL CHARACTERISTICS, FOR THE  
UNITED STATES AND HAWAII: 1996**

Characteristic	United States	Hawaii	
		Number	Rank 1/
Number of community hospitals	5,134	21	46
Beds	862,352	3,045	45
Admissions	31,098,959	99,780	43

1/ Among 50 states, largest number ranking 1.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data 1999-2000* (1999), pp. 112.

**Table 2.32-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS  
LICENSED IN HAWAII, BY PLACE OF ADDRESS: JUNE 30, 1999**

[Excludes inactive licenses]

<b>Place of address</b>	<b>Physicians and surgeons 1/</b>	<b>Dentists</b>	<b>Registered nurses</b>	<b>Pharmacists</b>
Total licensed	6,026	1,362	10,514	1,377
Hawaii addresses				
Hawaii	258	96	923	75
Maui	224	71	800	68
Lanai	2	1	11	-
Molokai	8	3	35	2
Oahu	2,524	821	6,682	615
Kauai	109	41	383	38
Mainland U.S.	2,833	318	1,577	572
Foreign	68	11	103	7

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 2.33-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS  
WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997**

[Statistics based on the North American Industry Classification System (NAICS) which replaced the Standard Industrial Classification (SIC) system used in earlier Economic Censuses. Therefore, comparability between the 1992 and the 1997 data may be limited]

NAICS code	Kind of business or operation	Establishments (number)	Receipts/revenues (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
	Firms subject to federal income tax				
62	Health care and social assistance	2,360	1,646,255	730,786	18,221
621	Ambulatory health care services 1/	2,249	1,356,713	586,581	13,828
6211	Offices of physicians	1,076	731,276	359,150	6,125
6212	Offices of dentists	657	267,597	101,463	3,266
6213	Offices of other health practitioners	380	96,062	31,945	1,359
6214	Outpatient care centers	47	58,253	22,090	501
6215	Medical and diagnostic laboratories	42	139,451	45,210	1,264
6216	Home health care services	31	30,749	13,304	924
6219	Other ambulatory health care services	16	33,325	13,419	389
622	Hospitals	1	(D)	(D)	(g)
623	Nursing and residential care facilities	37	118,739	53,915	2,121
6231	Nursing care facilities	21	113,137	51,993	2,001
6232	Residential mental retardation/health and substance abuse facility	7	(D)	(D)	(b)
6233	Community care facilities for the elderly	8	3,087	1,047	79
6239	Other residential care facilities	1	(D)	(D)	(a)
624	Social assistance	73	(D)	(D)	(f)
6241	Individual and family services	23	(D)	(D)	(c)
6242	Community food and housing/emergency and other relief services	2	(D)	(D)	(a)
6243	Vocational rehabilitation services	13	13,465	6,546	251
6244	Child day care services	35	(D)	(D)	(c)
	Firms exempt from federal income tax				
62	Health care and social assistance	581	2,329,058	886,904	29,344
621	Ambulatory health care services 1/	73	477,944	113,921	3,172
6214	Outpatient care centers	56	433,619	93,420	2,318

Continued on next page.

**Table 2.33-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS  
WITH PAYROLL, BY KIND OF BUSINESS OR OPERATION: 1997--Con.**

NAICS code	Kind of business or operation	Establishments (number)	Receipts/Revenues (\$1,000)	Annual payroll (\$1,000)	Paid employees, pay period including March 12
	Firms exempt from federal income tax (cont.)				
6216	Home health care services	13	33,353	15,892	703
6219	Other ambulatory health care services	4	10,972	4,609	151
622	Hospitals	28	1,527,862	624,708	17,876
6221	General medical and surgical hospitals	21	1,259,785	509,759	14,515
6222	Psychiatric and substance abuse hospitals	3	62,694	36,738	1,053
6223	Specialty (except psychiatric and substance abuse) hospitals	4	205,383	78,211	2,308
623	Nursing and residential care facilities	42	84,959	38,336	1,884
6231	Nursing care facilities	6	44,051	19,475	816
6232	Residential mental retardation/health and substance abuse facility	21	22,439	10,518	613
6233	Community care facilities for the elderly	4	11,448	5,127	264
6239	Other residential care facilities	11	7,021	3,216	191
624	Social assistance	438	238,293	109,939	6,412
6241	Individual and family services	226	138,787	68,864	3,622
6242	Community food and housing/emergency and other relief services	56	36,331	11,303	651
6243	Vocational rehabilitation services	18	18,219	8,382	567
6244	Child day care services	138	44,956	21,390	1,572

D Withheld to avoid disclosing data of individual companies.

a 0 to 19 employees.

b 20 to 99 employees.

c 100 to 249 employees.

f 500 to 999 employees.

g 1,000 to 2,499 employees.

1/ The ambulatory health care services subsector includes industries that provide health care services directly or indirectly to ambulatory patients and do not usually provide inpatient services. Health practitioners provide outpatient services, with the facilities and equipment not usually being the most significant part of the production process.

Source: U.S. Census Bureau, *1997 Economic Census, Health Care and Social Assistance, Geographic Area Series, Hawaii*, EC97S62A-HI (June 1999), table 1a and 1b.

**Table 2.34-- HEALTH CARE AND SOCIAL ASSISTANCE ESTABLISHMENTS  
WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR  
COUNTIES AND SELECTED URBAN PLACES: 1997**

<b>Geographic area</b>	<b>Establishments (number)</b>	<b>Receipts (\$1,000)</b>	<b>Annual payroll (\$1,000)</b>	<b>Paid employees, pay period including March 12</b>
State total	2,360	1,646,255	730,786	18,221
Hawaii County	321	224,838	76,168	2,441
Hilo	180	155,372	53,922	1,643
Kailua	48	20,531	8,061	323
Honolulu County	1,730	1,231,679	563,133	13,474
Aiea	63	32,176	12,175	324
Ewa Beach	18	8,586	3,823	91
Honolulu	1,194	925,469	427,398	9,866
Kailua	108	44,072	20,820	526
Kaneohe	63	37,576	16,272	587
Laie	3	987	356	8
Maunawili	6	3,289	1,449	29
Mililani Town	25	15,627	7,193	169
Pearl City	29	26,382	9,086	296
Wahiawa	35	20,900	8,593	253
Waianae	10	4,600	1,810	67
Waimalu	66	49,106	25,257	463
Waipahu	53	22,729	10,152	239
Waipio	5	1,425	597	18
Kauai County	79	51,361	27,610	745
Kalaheo	4	2,202	813	23
Kapaa	13	4,199	1,917	75
Lihue	42	36,828	20,221	478
Maui County	230	138,377	63,875	1,561
Haiku-Pauwela	4	515	325	3
Kahului	60	29,376	12,446	355
Kaunakakai	5	1,220	329	36
Kihei	23	9,386	3,327	132
Lahaina	17	8,516	4,949	106
Makawao	9	1,704	595	30
Pukalani	9	3,552	1,127	50
Wailea-Makena	3	686	345	3
Wailuku	82	77,680	38,055	735

Source: U.S. Census Bureau, *1997 Economic Census, Health Care and Social Assistance, Geographic Area Series*, EC97S62A-HI (June 1999), table 1a, 3, and 4.

**Table 2.35-- MARRIAGES AND DIVORCES: 1980 TO 1998**

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population 3/		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 4/	Inter-racial 5/
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	4,993	7.9	6/ 4.3	48.6	44.5
1995	18,669	9,277	5,505	6/ 7.9	4.7	50.3	45.0
1996	19,589	9,003	4,903	7.6	4.1	54.0	45.6
1997	19,901	8,878	4,877	6/ 7.5	4.1	55.5	44.8
1998	20,974	8,750	4,914	7.4	4.1	58.3	46.3

1/ One or both partners residents of Hawaii.

2/ Final decrees only.

3/ Based on July 1 estimates by the U.S. Bureau of the Census, as revised through Dec. 29, 1999.

4/ Both partners nonresidents of Hawaii.

5/ Excludes nonresident marriages. Also, for these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

6/ Change due to revision in the population estimate.

Source: Hawaii State Department of Health, *Statistical Report* (annual), and records; Rates calculated by the Hawaii State Department of Business, Economic Development & Tourism.



**Table 2.36-- MARRIAGE AND DIVORCE RATES BASED ON RISK  
POPULATION: 1910 TO 1990**

Census year	Females 15 years old and over 1/		Marriages 2/		Divorces 2/	
	Unmarried 3/	Married 4/	Number	Rate 5/	Number	Rate 6/
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, 1980, and records.

**Table 2.37-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:  
1995 TO 1998**

[Place of occurrence basis]

Subject	1995	1996	1997	1998
MARRIAGES				
Number	18,669	19,589	19,901	20,974
Percent on Oahu	51.1	49.0	46.5	45.7
Percent Hawaii residents:				
Both bride and groom	46.6	42.4	41.3	38.2
One partner only	3.1	3.5	3.2	3.5
Neither bride nor groom	50.3	54.0	55.5	58.3
Median age (years):				
Groom	32	32	32	33
Bride	29	30	30	30
Percent previously married:				
Groom	38.4	38.8	39.1	38.8
Bride	38.7	38.8	39.8	39.5
DIVORCES AND ANNULMENTS				
Number	5,505	4,903	4,877	4,914
Divorces	5,494	4,883	4,858	4,894
Annulments	9	20	17	17
Not reported	2	-	2	3
Percent occurring on Oahu	76.1	73.9	74.3	73.9
Percent Hawaii residents:				
Both partners	75.5	76.0	75.7	74.3
One partner only	23.0	23.0	23.4	24.4
Neither partner	<0.1	<0.1	0.1	<0.1
Not reported 1/	1.4	0.9	0.8	1.3
Median age (years):				
Husband	36	37	37	37
Wife	34	35	34	35
Percent interracial 2/	41.9	41.5	43.2	42.5
Percent with children under 18 years	50.1	50.9	50.1	49.5
Median years married	6.4	6.8	6.7	6.8

1/ Couples where the residence of one or more partners is unknown.

2/ For these calculations, divorces 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 2.38-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1998**

<b>Race mixture and type of ceremony</b>	<b>Total</b>	<b>At least one partner Hawaii resident</b>	<b>Both partners nonresidents</b>	<b>Residence unknown</b>
All marriages	20,974	8,746	12,226	2
Race of partners:				
Both partners same race 1/	15,273	4,616	10,656	1
Different	5,701	4,130	1,570	1
Percent different	27.2	47.2	12.9	-
Type of ceremony:				
Civil ceremony	3,177	2,525	652	-
Religious ceremony	17,796	6,221	11,573	2
Unknown	1	-	1	-

1/ Includes marriages with both partners of unknown race.

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

**Table 2.39-- MARITAL DISSOLUTION: 1980 TO 1998**

Subject	1980	1990	1998	Percent		
				1980	1990	1998
Married couples	185,698	210,468	226,087	100.0	100.0	100.0
Marriages ended	6,782	8,292	8,690	3.7	3.9	3.8
By divorce	4,438	5,172	4,914	2.4	2.5	2.2
By death	2,344	3,120	3,776	1.3	1.5	1.7
Husbands	1,678	2,234	2,700	0.9	1.1	1.2
Wives	666	886	1,076	0.4	0.4	0.5

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; 1998 DBEDT estimate of married couples, based on 1990-98 percent increase in estimated population.