

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.

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: 1997* contain data for the nation as a whole.

Table 2.01-- BIRTHS AND DEATHS: 1980 TO 1996

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	17.3	6.0	264.5	11.1	6.5
1993	19,567	7,226	16.9	6.2	273.0	11.7	7.6
1994	19,438	7,206	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

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, 1997.

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; 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: 1993 TO 1996

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1993	19,650	-	19,650	3,564	16,086	3,564
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
Deaths:						
1993	7,570	162	7,408	87	7,321	249
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
Birth rates: 2/						
1993	15.6	0	16.3	57.3	14.1	31.0
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
Death rates: 2/						
1993	6.0	3.1	6.1	1.4	6.4	2.2
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

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; 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: 1991 TO 1996

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate 1/			
1991 2/	27,289	24.1	19,880	1,717	5,692
1992	27,297	23.7	19,837	1,518	5,942
1993 3/	26,765	23.0	19,567	1,392	5,806
1994	26,457	22.4	19,438	1,265	5,754
1995	25,139	21.2	18,552	1,086	5,501
1996	24,234	20.5	18,378	985	4,871

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: 1993 TO 1996

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of state 1/
Births:						
1993	19,650	19,567	82	1	19,595	28
1994	19,515	19,438	75	2	19,474	36
1995	18,636	18,552	81	3	18,578	26
1996	18,451	18,378	69	4	18,396	18
Deaths:						
1993	7,570	7,226	341	3	7,426	200
1994	7,530	7,206	309	15	7,441	235
1995	7,795	7,482	309	4	7,718	236
1996	8,148	7,803	338	7	8,124	321

1/ Death figures include persons (1) born in Hawaii and (2) born elsewhere claimed as Hawaii residents.
 Source: Hawaii State Department of Health, Office of Health Status Monitoring, records.

Table 2.05-- CHARACTERISTICS OF RESIDENT BIRTHS: 1994 TO 1996

[Excludes births to Hawaii residents occurring out of state]

Subject	1994	1995	1996
Number of resident births	19,438	18,552	18,378
City and County of Honolulu	14,733	13,791	13,728
Percent on Oahu	75.8	74.3	74.7
Hawaii County	2,068	2,028	1,979
Kauai County	896	842	807
Maui County (incl. Kalawao)	1,741	1,891	1,864
Percent attended by M.D. or O.D. in hospital	95.3	94.8	94.6
Males per 100 females	104.3	104.0	105.6
Median weight of single births (grams)	3,317	3,315	3,305
Percent low birth weight (under 2,500 grams)	6.5	6.6	6.7
Percent single births under 40 weeks gestation	51.0	54.0	51.7
Percent plural	1.9	1.9	1.9
Percent with 1 or more congenital malformations	3.5	4.0	3.7
Percent to unmarried mothers	28.4	29.3	30.3
Percent with prenatal visit in first three months	81.8	81.2	81.7
Percent first child born to mother 1/	30.5	29.4	27.3
Percent first child born alive to mother	43.8	42.9	42.7
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

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: 1996

Military status of parents	Total births	Unmixed	Mixed 1/	Not reported 2/	Percent mixed 3/
Total	18,378	7,613	9,528	1,237	51.8
Military	3,107	2,242	770	95	24.8
Civilian	13,462	5,368	8,060	34	59.9
Status not reported	1,809	3	698	1,108	38.6

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 2.08-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES,
BY SEX: 1996**

[A total of 7,398 first names, including variant spellings, was reported for the 18,451 babies born in Hawaii in 1996]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Joshua	152	Taylor	110
2	Michael	117	Kayla	89
3	Brandon	114	Ashley	81
4	Nicholas	104	Jessica	75
5	Tyler	98	Rachel	61
6	Christopher	97	Samantha	58
7	Justin	95	Sarah	57
8	Matthew	94	Kiana	54
9	Austin (tie)	92	Nicole	53
10	Jordan (tie)	92	Emily (tie)	52
			Megan (tie)	52

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

**Table 2.09-- MOST COMMON SURNAMES ON BIRTH AND DEATH
CERTIFICATES: 1996**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Lee	97	Lee	51
2	Smith	56	Wong	46
3	Wong	53	Young	40
4	Johnson (tie)	52	Nakamura	37
5	Kim (tie)	52	Kim	33
6	Ramos	48	Chang	31
7	Williams	47	Ching	29
8	Garcia (tie)	42	Smith (tie)	25
9	Nguyen (tie)	42	Tanaka (tie)	25
10	Silva (tie)	42	Chun	24

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

**Table 2.10-- 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 2.11-- EXPECTATION OF LIFE AT BIRTH, BY SEX, FOR THE UNITED STATES AND HAWAII: 1910 TO 1995

[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	77.78	74.54	81.51
1990	75.4	71.8	78.8	78.85	75.90	82.06
1995	75.8	72.6	78.9	(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), pp. 8-26; and "Life Expectancy in the State of Hawaii, 1980 and 1990," *R & S Report*, No. 63 (August 1996), p. 9; *Statistical Abstract of the United States: 1997*, p. 88.

Table 2.12-- CHARACTERISTICS OF RESIDENT DEATHS: 1994 TO 1996

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1994	1995	1996
Number of resident deaths	7,206	7,488	7,803
City and County of Honolulu	5,158	5,438	5,557
Hawaii County	1,021	973	1,064
Kauai County	400	374	403
Maui County (incl. Kalawao)	627	703	779
Males per 100 females	141.5	137.4	132.7
Median age (years)	74	74	75
Centenarian deaths: Male	5	13	11
Female	30	47	52
Oldest (years): Male	104	108	106
Female	111	106	110
Percent married	45.6	44.7	46.4
Deaths under 1 year	125	106	98
Per 1,000 live births	6.4	5.7	5.3
Fetal deaths 1/	7,019	6,587	5,856
Per 1,000 deliveries	265	262	242
Fetal deaths, 20 or more weeks gestation 2/	234	226	178
Per 1,000 live births	12.0	12.1	9.6
Standard fetal deaths 3/	1,265	1,086	985
Elective abortions	5,754	5,501	4,871
Per 1,000 live births	296.0	296.5	265.0

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 2.13-- CAUSE OF DEATH, BY SEX: 1996

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	7,803	4,450	3,353
Tuberculosis	5	5	0
Other infective 1/	201	150	51
Malignant neoplasm	1,823	1,023	800
Digestive organs	539	320	219
Respiratory system	472	298	174
Breast	128	1	127
Genital organs	184	109	75
Urinary organs	65	47	18
Leukemia	62	39	23
Other	373	209	164
Diabetes mellitus	209	98	111
Heart disease	2,390	1,377	1,013
Rheumatic	40	16	24
Hypertensive	74	36	38
Ischemic	1,228	720	508
Other heart	1,048	605	443
Hypertension	28	13	15
Cerebrovascular disease	606	311	295
Arteriosclerosis	18	8	10
Other circulatory	136	88	48
Influenza/pneumonia	336	194	142
Chronic obstructive pulmonary diseases	237	133	104
Peptic ulcer	17	7	10
Cirrhosis of liver	77	55	22
Nephritis and nephrosis	101	43	58
Pregnancy, birth & puerperium	1	0	1
Congenital anomalies	27	10	17
Perinatal conditions	53	32	21
Symptoms, signs & ill-defined conditions	63	42	21
Other diseases 2/	866	432	434
Unintentional injury	333	238	95
Motor vehicles	144	98	46
Other	189	140	49
Suicide	118	89	29
Homicide & legal intervention	41	28	13
Other external causes	117	74	43

1/ Includes AIDS.

2/ Includes other respiratory.

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

Table 2.14-- CATASTROPHIC MORTALITY: 1988 TO 1998

[Includes all accidents, natural disasters, and other events causing five or more deaths.
Complete through June 28, 1998]

Date	Place	Kind of disaster	Deaths
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
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

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 2.15-- GREATEST CATASTROPHIC MORTALITY OF RECORD,
BY TYPE OF DISASTER: 1778 TO 1997**

[Complete through October 27, 1997]

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/ 14
Flood	Jan. 18, 1916	Iao; Wailuku	Cloudburst and flood	14
Homicide	July 15, 1952	Near Koko Head	Mass murder	5
	Nov. 22, 1965	Aiea	Mass murder	5
	June 25-26, 1991	Waipahu; Kailua	Mass murder	5
Hurricane	Sept. 11, 1992	Kauai; Oahu	Hurricane Iniki	8
Marine	1829 or 1830	New Hebrides	Losses to Boki's ships 2/	410
Motor vehicle	July 2, 1944	Waialua	Truck overturns 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 kills soldiers	80 or 400
War, riots, etc.	Dec. 7, 1941	Oahu	Pearl Harbor attack	2,500
	Jan. 1790	Olowalu	U.S. ship fires on native canoes	> 100
	Sept. 9, 1924	Hanapepe	Police fire on strikers	20

1/ 4 airmen; 10 occupants of houses.

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 1996*, table 2.15, as updated.

**Table 2.16-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1970 TO 1996**

Method	1970	1980	1990	1994	1995	1996
All methods	4,197	5,204	7,055	7,530	7,795	8,148
Burial	2,197	2,343	2,798	2,768	2,813	2,861
Cremation	1,509	2,241	3,564	4,150	4,386	4,670
Removal	470	567	656	579	558	580
Entombment	13	44	35	13	11	11
Medical science	3	-	-	16	24	22
Other	-	1	-	-	-	1
Unknown	5	8	2	4	3	3

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

**Table 2.17-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1994 TO 1997**

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1994: June 30	2,377	1,783	255	102	237
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

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

Table 2.18-- SELECTED CHRONIC CONDITIONS: 1996

[Provisional data. 1992 figures in the *Data Book 1996* are not necessarily comparable to these figures because of survey instrument changes]

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Diabetes	48,423	42.2
Hypertension	144,823	126.1
High blood cholesterol	123,967	107.9
Asthma	100,706	87.7
Alzheimer 1/	2,096	5.6

1/ Asked only for persons 45 years of age and over in households.

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

Table 2.21-- HEALTH RISK BEHAVIORS FOR PERSONS 18 YEARS AND OLDER, BY PLACE OF RESIDENCE: 1995-1996

[Unweighted percentage of persons at increased risk for morbidity and mortality due to selected risk factors]

Risk factor	Year	State	Oahu	Neighbor islands
Seatbelt non-use	1995	4	4	5
Chronic drinking 1/	1995	8	8	7
Acute drinking 2/	1995	27	30	22
Drinking and driving	1995	2	2	2
Hypertension	1995	21	19	24
Cigarette smoking 3/	1996	22	20	24
Sedentary lifestyle	1996	46	48	43
Overweight (20 percent or more)	1996	27	27	27

1/ Sixty or more drinks in a past month.

2/ Five or more drinks on an occasion, at least once a month.

3/ Current smokers.

Source: Hawaii State Department of Health, Office of Health Status Monitoring, Behavioral Risk Factor Surveillance Survey.

Table 2.22-- NUMBER AND BED CAPACITY OF STATE-APPROVED HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY: 1991 TO 1996

[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 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
Number of facilities:						
1991	59	24	4/ 40	4/ 14	494	14
1992	4/ 58	4/ 23	41	4/ 14	490	14
1993	57	23	41	13	486	13
1994 5/	73	23	41	29	489	12
1995 5/	74	23	42	29	499	12
1996 5/	71	23	42	26	521	11
Number of licensed beds: 6/						
1991	6,811	2,593	3,443	775	2,159	450
1992	6,794	2,583	3,476	735	2,175	436
1993	6,818	2,600	3,510	708	2,164	413
1994 5/	7,130	2,600	3,492	1,038	2,216	407
1995 5/	7,130	2,642	3,504	984	2,274	393
1996 5/	7,433	2,633	3,814	986	2,415	349

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

2/ Five beds or fewer.

3/ Six beds or more.

4/ Revised.

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

6/ Number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in the previous *Data Books* 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* (annual) and records, and Hospital and Medical Facilities Branch, records.

Table 2.23-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: 1991 TO 1996

[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:				
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
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
Long-term care:				
1991	3,181	3,216	369	93.4
1992	3,255	3,343	375	96.2
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

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* and records.

Table 2.24-- NUMBER AND BED CAPACITY OF STATE-APPROVED CIVILIAN HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: DECEMBER 1996

[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/
NUMBER OF FACILITIES						
State total	71	23	42	26	521	11
Oahu	50	11	26	21	438	8
Hawaii	7	5	7	-	51	-
Kauai	6	3	5	1	16	2
Maui	5	2	2	3	11	-
Molokai	2	1	1	1	5	1
Lanai	1	1	1	-	-	-
NUMBER OF LICENSED BEDS 4/						
State total	7,433	2,633	3,814	986	2,415	349
Oahu	5,502	2,090	2,490	922	2,052	280
Hawaii	787	235	552	-	224	-
Kauai	396	114	276	6	62	57
Maui	690	182	464	44	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.

2/ Five beds or fewer.

3/ More than five beds.

4/ Number of beds licensed by the State Department of Health Medical Facilities Branch. "Number of beds" in the previous *Data Books* referred to the number of beds with Certificate of Need approval.

Certificate of Need approved beds included beds completed and bed being developed (not yet in service).

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data (June 1997)*, and Hospital and Medical Facilities Branch, records.

Table 2.25-- OCCUPANCY CHARACTERISTICS OF STATE-APPROVED ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1996

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	100,519	1,689	6.1	64.2
Oahu	75,751	1,352	6.5	64.7
Hawaii	11,020	124	4.1	52.9
Kauai	4,635	52	4.1	45.8
Maui	8,973	159	6.5	87.6
Molokai	135	1	2.1	9.6
Lanai	5	-	2.4	1.1
LONG-TERM CARE				
State total	4,577	3,520	279	92.3
Oahu	3,251	2,350	264	94.4
Hawaii	651	537	291	97.7
Kauai	348	270	283	97.7
Maui	228	338	541	72.8
Molokai	87	17	70	76.2
Lanai	12	10	289	95.1

Source: Hawaii State Department of Health, Hawaii State Health Planning and Development Agency, *Inpatient Facilities Utilization Report 1996 Data* (June 1997).

**Table 2.26-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1987 TO 1997**

Facilities and year	Persons active, Dec. 31	Admissions	Discharges	Persons served
Hawaii State Hospital:				
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
1995 1/	172	107	123	295
1996	164	102	110	274
1997	163	100	101	264
State-supported outpatient community mental health centers:				
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
1995	2,798	804	866	3,664
1996	2,867	818	749	3,616
1997	3,024	804	647	3,671

1/ 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.

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

**Table 2.27-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1993 TO 1997**

Year	Number of beds, June 30 1/	Admissions 2/		Patients in hospital 3/	
		Total	First	Average 2/	June 30
1993	202	447	344	197	195
1994	202	273	216	196	199
1995	202	117	112	186	171
1996	202	89	87	170	167
1997	202	101	100	164	168

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/ Includes patients on leave and absent without leave. In 1997, about .5% of the patients were on leave or absent without leave.

Source: Hawaii State Hospital, records.

Table 2.28-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1993 TO 1997

[Waimano Training School and Hospital is the State institution for the mentally retarded]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1993	172	4	101	82	-
1994	172	-	82	80	-
1995	172	3	77	75	3
1996	101	-	57	46	5
1997	101	-	38	36	3

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

2/ Year ended June 30.

Source: Waimano Training School and Hospital, records.

Table 2.29-- HANSEN'S DISEASE PATIENTS REGISTERED: 1992 TO 1996

Subject	1992	1993	1994	1995	1996
Patients on register, Dec. 31	480	460	419	390	365
Department of Health's Hansen's Disease Community Program 1/	394	378	342	320	301
Kalaupapa	83	79	74	68	64
Hale Mohalu at Leahi	3	3	3	2	-
New cases	20	17	21	19	15
Deaths	8	10	11	15	11

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 2.30--COMMUNITY HOSPITAL CHARACTERISTICS, FOR THE
UNITED STATES AND HAWAII: 1994**

Characteristic	United States	Hawaii	
		Number	Rank 1/
Number of community hospitals	5,229	19	46
Beds	902,061	2,916	45
Admissions	30,718,136	97,906	44
Average stay (days)	6.7	8.8	44
Average cost to hospital --			
Per patient day	\$930.71	\$957.86	19
Per stay	\$6,229.83	\$8,427.93	1

1/ Among 50 states.

Source: Health Insurance Association of America, *Source Book of Health Insurance Data 1996* (1997), pp. 105.

**Table 2.31-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS
LICENSED IN HAWAII, BY PLACE OF ADDRESS: JULY 22, 1997**

[Excludes inactive licenses]

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	5,809	1,345	11,993	1,322
Hawaii addresses	3,039	1,036	9,826	767
Hawaii	246	95	979	73
Maui	213	69	814	60
Lanai	2	1	14	-
Molokai	7	4	37	2
Oahu	2,472	824	7,594	596
Kauai	99	43	388	36
Niihau	-	-	-	-
Mainland U.S.	2,689	300	2,048	548
Foreign	81	9	119	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 2.32-- 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 2.33-- MARRIAGES AND DIVORCES: 1980 TO 1996

[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	4.3	48.6	44.5
1995	18,669	9,277	5,505	7.9	4.7	50.3	45.0
1996	19,589	9,003	4,903	7.6	4.1	54.0	45.6

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. 31, 1997.

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.

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

**Table 2.34-- 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 2.35-- CHARACTERISTICS OF MARRIAGES AND DIVORCES:
1993 TO 1996**

[Place of occurrence basis]

Subject	1993	1994	1995	1996
MARRIAGES				
Number	17,252	18,118	18,669	19,589
Percent on Oahu	57.7	53.0	51.1	49.0
Percent Hawaii residents:				
Both bride and groom	52.6	47.8	46.6	42.4
One partner only	3.9	3.6	3.1	3.5
Neither bride nor groom	43.5	48.6	50.3	54.0
Median age (years):				
Groom	31	31	32	32
Bride	29	29	29	30
Percent previously married:				
Groom	36.8	37.6	38.4	38.8
Bride	37.4	38.5	38.7	38.8
DIVORCES AND ANNULMENTS				
Number	4,888	4,993	5,505	4,903
Divorces	4,878	4,981	5,494	4,883
Annulments	10	11	9	20
Not reported	-	1	2	-
Percent occurring on Oahu	72.2	73.4	76.1	73.9
Percent Hawaii residents:				
Both partners	75.5	75.3	75.5	76.0
One partner only	22.9	23.1	23.0	23.0
Neither partner	0.2	0.1	<0.1	<0.1
Not reported 1/	1.4	1.4	1.4	0.9
Median age (years):				
Husband	36	36	36	37
Wife	34	34	34	35
Percent interracial 2/	41.8	41.6	41.9	41.5
Percent with children under 18 years	51.8	49.3	50.1	50.9
Median years married	6.4	6.4	6.4	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 2.36-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1996

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages	19,589	9,003	10,586
Race of partners:			
Both partners same race 1/	14,105	4,840	9,265
Different	5,484	4,163	1,321
Percent different	28.0	46.2	12.5
Type of ceremony:			
Civil ceremony	3,394	2,745	649
Religious ceremony	16,195	6,258	9,937
Unknown	-	-	-

1/ Includes marriages with both partners of unknown race.

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

Table 2.37-- MARITAL DISSOLUTION: 1980 TO 1996

Subject	1980	1990	1996	Percent		
				1980	1990	1996
Married couples	185,698	210,468	229,500	100.0	100.0	100.0
Marriages ended	6,782	8,292	8,523	3.7	3.9	3.7
By divorce	4,438	5,172	4,903	2.4	2.5	2.1
By death	2,344	3,120	3,620	1.3	1.5	1.6
Husbands	1,678	2,234	2,540	0.9	1.1	1.1
Wives	666	886	1,080	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; 1996 DBEDT estimate of married couples, based on 1990-96 percent increase in households.