

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: 1996* contain data for the nation as a whole.

Table 2.01-- BIRTHS AND DEATHS: 1970 TO 1995

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/
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	17.6	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

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: 1992 TO 1995

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1992	19,949	-	19,949	3,875	16,074	3,875
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
Deaths:						
1992	7,177	160	7,017	80	6,937	240
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
Birth rates: 2/						
1992	15.8	0	16.5	68.0	14.0	34.6
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
Death rates: 2/						
1992	5.7	2.9	5.8	1.4	6.0	2.1
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

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 DBEDT.

Table 2.03-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1990 TO 1995

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate 1/			
1990	26,834	24.1	20,438	1,689	4,707
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

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 1995

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State 1/
Births:						
1992	19,949	19,837	111	1	19,863	26
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
Deaths:						
1992	7,177	6,846	323	8	7,072	226
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

1/ Death figures 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: 1993 TO 1995

[Excludes births to Hawaii residents occurring out of state]

Subject	1993	1994	1995
Number of resident births	19,567	19,438	18,552
City and County of Honolulu	14,599	14,733	13,791
Percent on Oahu	74.6	75.8	74.3
Hawaii County	2,118	2,068	2,028
Kauai County	961	896	842
Maui County (incl. Kalawao)	1,889	1,741	1,891
Percent attended by M.D. or O.D. in hospital	95.3	95.3	94.8
Males per 100 females	104.8	104.3	104.0
Median weight of single births (grams)	3,317	3,317	3,315
Percent low birth weight (under 2,500 grams)	6.9	6.5	6.6
Percent single births under 40 weeks gestation	55.1	51.0	54.0
Percent plural	2.2	1.9	1.9
Percent with 1 or more congenital malformations	1.6	3.5	4.0
Percent to unmarried mothers	27.3	28.4	29.3
Percent with prenatal visit in first three months	67.6	81.8	81.2
Percent first child born to mother 1/	30.9	30.5	29.4
Percent first child born alive to mother	42.7	43.8	42.9
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: 1994 AND 1995

Military status of parents	Total births	Unmixed	Mixed 1/	Not reported 2/	Percent mixed 3/
1994					
Total	19,439	8,422	8,845	2,172	51.2
Military	3,576	2,651	839	86	24.0
Civilian	15,862	5,771	8,006	2,085	58.1
Status not reported	1	-	-	1	-
1995					
Total	18,552	8,016	8,552	1,984	51.6
Military	3,145	2,364	709	72	23.1
Civilian	15,407	5,652	7,843	1,912	58.1
Status not reported	-	-	-	-	-

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: 1994 AND 1995**

[A total of 7,360 first names, including variant spellings, was reported for the 19,515 babies born in Hawaii in 1994. A total of 7,280 first names, including variant spellings, was reported for the 18,636 babies born in Hawaii in 1995]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1994				
1	Joshua	153	Ashley	107
2	Tyler	144	Jessica	86
3	Michael	140	Nicole (tie)	79
4	Brandon	120	Taylor (tie)	79
5	Jacob (tie)	117	Jasmine	76
6	Justin (tie)	117	Rachel	71
7	Ryan	107	Lauren	66
8	Daniel	102	Alyssa	65
9	Christopher	101	Sarah	63
10	Nicholas	99	Samantha	62
1995				
1	Joshua	144	Jessica	102
2	Michael	138	Taylor	98
3	Tyler	114	Ashley	83
4	Brandon	113	Rachel	81
5	Matthew	112	Kayla	76
6	Justin	107	Nicole	67
7	Christopher	96	Courtney	58
8	Jacob (tie)	95	Sarah	52
9	Nicholas (tie)	95	Lauren	50
10	Ryan	89	Samantha	49

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

**Table 2.09-- MOST COMMON SURNAMES ON BIRTH AND DEATH
CERTIFICATES: 1994 AND 1995**

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1994				
1	Lee	97	Wong	40
2	Smith	80	Lee	39
3	Johnson	62	Ching	33
4	Kim	61	Yamamoto	31
5	Brown	60	Kim (tie)	28
6	Young	58	Young (tie)	28
7	Wong	55	Chun	27
8	Nguyen	45	Chang	26
9	Jones (tie)	44	Higa	25
10	Williams (tie)	44	Fujimoto	22
1995				
1	Lee	81	Lee	56
2	Kim	65	Wong	43
3	Smith	64	Chang	36
4	Brown	56	Kim (tie)	28
5	Johnson	54	Young (tie)	28
6	Wong	53	Chun (tie)	24
7	Williams	46	Sato (tie)	24
8	Silva	44	Yamamoto (tie)	24
9	Nguyen	43	Lum	23
10	Ramos	40	Nakamura (tie)	22
			Silva (tie)	22
			Tanaka (tie)	22

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	77.78	74.54	81.51
1990	75.4	71.8	78.8	78.85	75.90	82.06
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 "Life Expectancy in the State of Hawai'i 1980 and 1990," *R & S Report*, No. 63 (August 1996).

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

[In years. Data for 1980 are revised]

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-- CHARACTERISTICS OF RESIDENT DEATHS: 1993 TO 1995

[Excludes deaths to Hawaii residents occurring out of state]

Subject	1993	1994	1995
Number of resident deaths	7,226	7,206	7,488
City and County of Honolulu	5,202	5,158	5,438
Hawaii County	973	1,021	973
Kauai County	398	400	374
Maui County (incl. Kalawao)	653	627	703
Males per 100 females	144.2	141.5	137.4
Median age (years)	74	74	74
Centenarian deaths: Male	14	5	13
Female	38	30	47
Oldest (years): Male	106	104	108
Female	110	111	106
Percent married	47.1	45.6	44.7
Deaths under 1 year	141	125	106
Per 1,000 live births	7.2	6.4	5.7
Fetal deaths 1/	7,198	7,019	6,587
Per 1,000 deliveries	269	265	262
Fetal deaths, 20 or more weeks gestation 2/	230	234	226
Per 1,000 live births	11.8	12.0	12.1
Standard fetal deaths 3/	1,392	1,265	1,086
Elective abortions	5,806	5,754	5,501
Per 1,000 live births	296.7	296.0	296.5

1/ Includes elective abortions.

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

3/ Excludes elective abortions.

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

Table 2.13-- CAUSE OF DEATH, BY SEX: 1994

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	7,206	4,222	2,984
Tuberculosis	4	3	1
Other infective	250	196	54
Malignant neoplasm	1,713	976	737
Digestive organs	538	325	213
Respiratory system	468	309	159
Breast	116	-	116
Genital organs	196	114	82
Urinary organs	56	33	23
Leukemia	59	35	24
Other	280	160	120
Diabetes mellitus	141	69	72
Heart disease	2,178	1,226	952
Rheumatic	12	3	9
Hypertensive	86	46	40
Ischemic	1,157	689	468
Other heart	923	488	435
Hypertension	31	13	18
Cerebrovascular disease	569	304	265
Arteriosclerosis	18	11	7
Other circulatory	123	68	55
Influenza/pneumonia	289	174	115
Chronic obstructive pulmonary diseases	195	115	80
Peptic ulcer	26	17	9
Cirrhosis of liver	87	66	21
Nephritis and nephrosis	77	39	38
Pregnancy, birth & puerperium	1	-	1
Congenital anomalies	29	13	16
Perinatal conditions	67	44	23
Symptoms, signs & ill-defined conditions	46	20	26
Other diseases	713	390	323
Unintentional Injury	286	225	61
Motor vehicles	124	96	28
Other	162	129	33
Suicide	132	107	25
Homicide & legal intervention	44	32	12
Other external causes	187	114	73

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

Table 2.14-- CAUSE OF DEATH, BY SEX: 1995

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	7,488	4,334	3,154
Tuberculosis	6	5	1
Other infective	250	186	64
Malignant neoplasm	1,839	1,045	794
Digestive organs	596	354	242
Respiratory system	483	305	178
Breast	120	-	120
Genital organs	215	140	75
Urinary organs	56	40	16
Leukemia	60	26	34
Other	309	180	129
Diabetes mellitus	168	92	76
Heart disease	2,286	1,288	998
Rheumatic	21	6	15
Hypertensive	76	42	34
Ischemic	1,161	701	460
Other heart	1,028	539	489
Hypertension	28	12	16
Cerebrovascular disease	606	310	296
Arteriosclerosis	24	9	15
Other circulatory	124	82	42
Influenza/pneumonia	324	174	150
Chronic obstructive pulmonary diseases	240	136	104
Peptic ulcer	10	6	4
Cirrhosis of liver	78	57	21
Nephritis and nephrosis	76	39	37
Pregnancy, birth & puerperium	1	-	1
Congenital anomalies	38	21	17
Perinatal conditions	50	32	18
Symptoms, signs & ill-defined conditions	56	29	27
Other diseases	744	404	340
Unintentional Injury	288	219	69
Motor vehicles	138	108	30
Other	150	111	39
Suicide	140	107	33
Homicide & legal intervention	58	45	13
Other external causes	54	36	18

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

Table 2.15-- CATASTROPHIC MORTALITY: 1987 TO 1996

[Includes all accidents, natural disasters, and other events causing five or more deaths.
Complete through December 10, 1996]

Date	Place	Kind of disaster	Deaths
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
1996: Nov. 1	Halawa, Molokai	Airplane 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 2.16-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1970 TO 1995**

Method	1970	1980	1990	1993	1994	1995
All methods	4,197	5,204	7,055	7,570	7,530	7,795
Burial	2,197	2,343	2,798	2,925	2,768	2,813
Cremation	1,509	2,241	3,564	3,997	4,150	4,386
Removal	470	567	656	604	579	558
Entombment	13	44	35	18	13	11
Medical science	3	-	-	21	16	24
Other	-	1	-	-	-	-
Unknown	5	8	2	5	4	3

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

**Table 2.17-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1993 TO 1996**

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
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
1996: June 30	2,509	1,873	285	109	242

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

Table 2.18-- 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 2.19-- 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 2.20-- 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 1/	1,946,798
Per person 2/	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 2.21-- SPECIFIED COMMUNICABLE DISEASES: 1991 TO 1995

Disease	1991 1/	1992 1/	1993 1/	1994	1995
Cases:					
AIDS	194	131	373	238	222
Campylobacteriosis	202	357	403	601	699
Fish poisoning 2/	192	59	95	119	129
Gonorrhea	885	686	864	699	565
Hansen's Disease 3/	19	20	17	21	19
Hepatitis A	69	169	69	59	166
Influenza	1,469	135	2,531	1,233	255
Leptospirosis 4/	46	31	24	22	23
Malaria 5/	6	11	7	15	12
Measles (Rubeola)	21	46	20	17	3
Meningitis, all types	78	132	170	152	132
Mumps	31	28	30	19	14
Pneumococcal disease	13	41	73	77	110
Rubella	11	24	28	4	5
Salmonellosis	380	319	337	304	303
Shigella	73	120	98	202	102
Syphilis	10	10	7	4	-
Tuberculosis	201	273	251	247	193
Deaths:					
AIDS	120	118	129	145	130
Campylobacteriosis	-	-	-	-	-
Fish poisoning 2/	-	-	-	-	-
Gonorrhea	-	-	-	-	-
Hansen's Disease 3/	-	-	-	1	-
Hepatitis A	-	1	-	-	-
Influenza	-	1	1	-	1
Leptospirosis 4/	1	-	-	-	-
Malaria 5/	-	-	-	-	-
Measles (Rubeola)	-	-	-	-	-
Meningitis, all types	6	2	1	1	2
Mumps	-	-	-	-	-
Pneumococcal disease	2	1	-	1	2
Rubella	-	-	-	-	-
Salmonellosis	-	-	-	-	1
Shigella	-	-	-	-	-
Syphilis	-	-	-	-	-
Tuberculosis	11	5	5	4	6

Footnotes and source on next page.

Table 2.21-- SPECIFIED COMMUNICABLE DISEASES: 1991 TO 1995 -- Con.

- 1/ Revised figures as of May 30, 1996.
- 2/ Scombroid, ciguatera and hallucinogenic fish poisoning.
- 3/ Excludes reinstated cases.
- 4/ Includes previously unreported cases.
- 5/ Acquired outside the State.

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

Table 2.22-- 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 1/	5.8	5.4	7.5
Acute drinking 2/	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, *Hawaii's Health Risk Behaviors 1992* (January 1995), p.8.

**Table 2.23-- 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 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
Number of facilities:						
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
Number of beds:						
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 2.24-- 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
Acute care:				
1988 1/	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
Long-term care:				
1988 1/	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

1/ 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 2.25-- 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 1/	Acute care	Long-term care	Specialty care	Type I 2/	Type II 3/
NUMBER OF FACILITIES						
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	-	-	-
NUMBER OF BEDS						
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 2.26-- 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
ACUTE CARE				
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
LONG-TERM CARE				
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 2.27-- SELECTED HEALTH STATISTICS FOR THE UNITED STATES
AND HAWAII: 1991-1993**

Subject	United States	Hawaii	
		Number	Rank 1/
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 2.28-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1986 TO 1994**

Facilities and year	Persons active, Dec. 31	Admissions	Discharges	Persons served
Hawaii State Hospital:				
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
State-supported outpatient community mental health centers:				
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 2.29-- 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 1/		Patients in hospital 2/	
		Total	First	Average 1/	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 2.30-- 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 1/	Patients in residence		Patients on leave, June 30
			Average 2/	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 2.31-- HANSEN'S DISEASE PATIENTS REGISTERED: 1991 TO 1995

Subject	1991	1992	1993	1994	1995
Patients on register, Dec. 31	487	479	460	419	390
At home	397	393	378	342	320
Kalaupapa	86	83	79	74	68
Hale Mohalu at Leahi	4	3	3	3	2
New cases	19	19	17	21	19
Deaths	3	8	10	11	15

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

**Table 2.32-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS
LICENSED IN HAWAII, BY PLACE OF ADDRESS: AUGUST 11, 1994**

Place of address	Physicians and surgeons 1/	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 2.33-- MARRIAGES AND DIVORCES: 1970 TO 1995

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 3/	Inter-racial 4/
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	4,993	7.9	4.2	48.6	44.5
1995	18,669	9,277	5,505	7.8	4.6	50.3	45.0

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. 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:
1992 TO 1995**

[Place of occurrence basis]

Subject	1992	1993	1994	1995
MARRIAGES				
Number	17,725	17,252	18,118	18,669
Percent on Oahu	58.0	57.7	53.0	51.1
Percent Hawaii residents:				
Both bride and groom	52.7	52.6	47.8	46.6
One partner only	4.0	3.9	3.6	3.1
Neither bride nor groom	43.3	43.5	48.6	50.3
Median age (years):				
Groom	31	31	31	32
Bride	29	29	29	29
Percent previously married:				
Groom	38.1	36.8	37.6	38.4
Bride	38.5	37.4	38.5	38.7
DIVORCES AND ANNULMENTS				
Number	5,040	4,888	4,993	5,505
Divorces	5,024	4,878	4,981	5,494
Annulments	14	10	11	9
Not reported	2	-	1	2
Percent occurring on Oahu	74.2	72.2	73.4	76.1
Percent Hawaii residents:				
Both partners	76.4	75.5	75.3	75.5
One partner only	23.4	24.3	23.1	23.0
Neither partner	0.2	0.2	0.1	<0.1
Median age (years):				
Husband	35	36	36	36
Wife	33	34	34	34
Percent interracial 1/	39.9	41.8	41.6	41.9
Percent with children under 18 years	52.1	51.8	49.3	50.1
Median years married	6.3	6.4	6.4	6.4

1/ 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: 1994 AND 1995

Race mixture and type of ceremony	Total		At least one partner Hawaii resident		Both partners nonresidents	
	1994	1995	1994	1995	1994	1995
All marriages	18,118	18,669	9,317	9,277	8,801	9,392
Race of partners:						
Both partners same race 1/	12,738	13,197	5,009	4,960	7,729	8,237
Different	5,380	5,472	4,308	4,317	1,072	1,155
Percent different	29.7	29.3	46.2	46.5	12.2	12.3
Type of ceremony:						
Civil ceremony	4,060	3,847	3,363	3,168	697	679
Religious ceremony	14,057	14,820	5,954	6,108	8,103	8,712
Unknown	1	2	-	1	1	1

1/ Includes marriages with both partners of unknown race.

Source: Hawaii State Department of Health, special tabulations.

Table 2.37-- 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 2.38-- 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.

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.