

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases, accidents, alcohol and drug use, height and weight, hospitals, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1984-86 was 75.37 years for males and 80.92 years for females. There were 5,970 resident deaths in 1988, or 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.8 in 1988. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fourth. Resident live births in 1988 numbered 18,937, or 17.2 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,013 in 1988. Fully 98.6 percent of all babies were born in hospitals in 1988, and 20 percent were born to military couples. More than one out of five births was to an unmarried woman. There were 7,409 fetal deaths in 1988, including 5,998 elective abortions. Marriages numbered 17,281 in 1988, with about 44 percent accounted for by nonresidents. Divorces reached a 1988 total of 5,020. The State had 22 acute care hospitals (with 2,855 beds), 38 long-term care facilities (with 3,191 beds), and nine specialty care facilities (with 808 beds) in 1989. There were 2,425 physicians and surgeons, 882 dentists, 8,218 professional nurses, and 516 pharmacists licensed and living in Hawaii as of March 1989. Acute conditions per 100 persons numbered 210 in 1986, with respiratory conditions the most common complaint (at 148 cases per 100 persons). Among chronic conditions reported in the 1986 survey data, the most frequently mentioned were hypertension without heart involvement (7.7 per 100 persons), hayfever (5.7), and impairments of the back or spine (5.1). The most common communicable diseases reported to authorities in 1987 were scarlet fever, with 3,620 cases, and chickenpox, with 1,484, but the most fatal was AIDS (41 deaths). State mental health facilities served 8,389 patients in 1988, but the number of in-patients at the end of the year was only 260. Among persons 18 years old and over in 1984, 53 percent used alcohol, eight percent were heavy drinkers, 43 percent used drugs, and three percent were heavy drug users. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

The major sources for data on vital statistics and health are the annual statistical reports 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: 1989 contain similar data for the nation as a whole.

Table 44.-- BIRTHS AND DEATHS: 1970 TO 1988

Calendar year	Resident births <u>1/</u>	Resident deaths <u>1/</u>	Rates per 1,000 resident population <u>2/</u>		Rates per 1,000 live births <u>3/</u>		
			Births	Deaths	Illegitimate births	Fetal deaths <u>4/</u>	Infant deaths <u>5/</u>
1970 ...	16,361	3,971	21.2	5.1	95.8	20.6	19.1
1971 ...	15,780	4,130	19.7	5.2	88.4	23.5	16.0
1972 ...	15,364	4,245	18.5	5.1	93.0	22.8	17.5
1973 ...	15,328	4,356	18.0	5.1	104.0	16.4	13.7
1974 ...	15,472	4,286	17.8	4.9	108.8	16.3	16.0
1975 ...	15,689	4,272	17.7	4.8	123.2	18.9	13.7
1976 ...	16,292	4,349	18.0	4.8	125.0	20.8	11.2
1977 ...	16,874	4,349	18.4	4.7	143.3	21.6	12.3
1978 ...	16,717	4,508	17.9	4.8	160.1	13.5	12.0
1979 ...	17,513	4,791	18.4	5.0	163.5	13.1	10.9
1980 ...	18,129	4,903	18.7	5.1	175.6	15.3	10.8
1981 ...	18,174	4,927	18.5	5.0	181.8	13.1	10.5
1982 ...	18,675	5,123	18.7	5.1	186.3	12.7	8.9
1983 ...	19,090	5,409	18.7	5.3	197.8	11.4	10.0
1984 ...	18,667	5,571	18.0	5.4	191.8	9.5	10.9
1985 ...	18,267	5,751	17.4	5.5	201.3	9.7	9.1
1986 ...	18,253	5,788	17.2	5.4	203.9	11.0	9.2
1987 ...	18,555	6,149	17.1	5.7	213.7	9.2	8.8
1988 ...	18,937	5,970	17.2	5.4	223.3	10.8	7.4

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 estimates in present report, table 2.

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 records.

Table 45.-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1987 AND 1988

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians <u>1/</u>			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1987	18,698	-	18,698	3,966	14,732	3,966
1988	19,054	-	19,054	3,821	15,233	3,821
Deaths:						
1987	6,490	64	6,426	83	6,343	147
1988	6,315	60	6,255	90	6,165	150
Birth rates: <u>2/</u>						
1987	15.6	0	16.4	61.2	13.7	32.3
1988	15.6	0	16.4	54.7	13.9	30.2
Death rates: <u>2/</u>						
1987	5.4	1.1	5.6	1.3	5.9	1.2
1988	5.2	1.1	5.4	1.3	5.6	1.2

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

2/ Per 1,000 de facto population in each group, based on estimates in present report, tables 2 and 3.

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

Table 46.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1983 TO 1988

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate <u>1/</u>			
1983	26,709	26.2	19,090	1,627	5,992
1984	25,573	24.7	18,667	1,629	5,277
1985	25,335	24.1	18,267	1,473	5,595
1986	25,312	23.8	18,253	1,412	5,647
1987	25,931	24.0	18,555	1,405	5,971
1988	26,346	24.0	18,937	1,411	5,998

1/ Per 1,000 resident population, July 1. From present report, table 2.

Source: Hawaii State Department of Health, Annual Report, Statistical Supplement, 1983-1987, and records.

Table 47.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1986 TO 1988

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State <u>1/</u>
Births:						
1986 ...	18,341	18,253	86	2	18,277	24
1987 ...	18,698	18,555	143	-	18,595	40
1988 ...	19,054	18,937	115	2	18,964	27
Deaths:						
1986 ...	6,171	5,788	382	1	5,837	49
1987 ...	6,490	6,147	343	-	6,214	67
1988 ...	6,315	5,970	340	5	6,052	82

1/ Mainland U.S., U.S. territories and possessions, and Canada.
Source: Hawaii State Department of Health, Statistical Report, 1986 and 1987, and records.

Table 48.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1985 TO 1988

[Excludes births to Hawaii residents occurring out of state]

Subject	1985	1986	1987	1988
Number of resident births	18,267	18,253	18,555	18,937
City and County of Honolulu	14,021	14,074	14,160	14,430
Percent on Oahu	76.8	77.1	76.3	76.2
Hawaii County	1,873	1,800	1,915	1,980
Kauai County	778	822	865	873
Maui County (incl. Kalawao)	1,595	1,557	1,615	1,654
Percent attended by M.D. or O.D. in hospital <u>1/</u>	98.0	98.3	98.3	98.6
Males per 100 females	108.2	105.7	107.6	103.6
Median weight of single births (grams)	3,307	3,306	3,308	3,315
Percent low birth weight (under 2,500 grams) ...	6.6	6.1	7.2	6.9
Percent single births under 40 weeks gestation .	51.3	51.3	52.2	51.1
Percent plural	1.8	2.0	2.4	1.8
Percent with 1 or more congenital malformations	1.0	1.1	1.4	3.2
Percent illegitimate	20.0	20.4	21.4	22.4
Percent with prenatal visit in first three months	74.7	76.4	73.9	71.6
Percent first child born to mother	31.9	31.6	29.7	30.3
Percent first child born alive to mother	41.7	42.5	41.3	42.1
Median age of mothers (years)	26	26	26.8	27.1
Median age of known fathers (years)	29	29	29.3	29.6

1/ Place of occurrence basis.

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

Table 49.-- FERTILITY RATES, BY MILITARY STATUS: 1980 AND 1988

[Military dependents are included in the military category. For 1960 and 1970 data, see Data Book 1987, table 60]

Military status	Crude birth rate <u>1/</u>		General fertility rate <u>2/</u>		Total fertility rate <u>3/</u>	
	1980	1988	1980	1988	1980	1988
Total	18.8	17.4	78.7	73.5	2,084	2,158
Civilian	16.5	15.7	68.9	66.5	1,871	2,013
Military	35.0	30.2	147.5	126.9	3,496	2,930

1/ Annual number of live births per 1,000 resident population.

2/ Annual number of live births per 1,000 women 15-44 years of age.

3/ Average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

Source: 1980 calculated by Eleanor C. Nordyke, East-West Population Institute; 1988 estimated by Hawaii State Data Center.

Table 50.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1988

Military status of father	Total births	Unmixed	Mixed <u>1/</u>	Not certain <u>2/</u>
All groups	19,054	8,473	9,305	1,276
Military	3,821	2,972	819	30
Civilian or not reported	15,233	5,501	8,486	1,246

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."

Source: Hawaii State Department of Health, records.

Table 51.-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX: 1988

[A total of 6,352 first names, including variant spellings, was reported for the 19,054 babies born in Hawaii in 1988]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Michael	198	Ashley	172
2	Joshua	190	Jessica	157
3	Christopher	184	Nicole	119
4	Matthew	163	Jennifer	106
5	Justin	156	Amanda	92
6	Ryan	140	Sarah	89
7	Brandon	125	Tiffany	75
8	James	122	Samantha	73
9	David	121	Lauren	69
10	Andrew	114	Chelsea	68

Source: Hawaii State Department of Health, special tabulation.

Table 52.-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1988

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1	Smith	100	Wong	40
2	Lee	81	Lee	39
3	Wong	79	Chang	38
4	Williams	66	Kim	27
5	Johnson	56	Young	27
6	Garcia	52	Chun	23
7	Kim	50	Higa	22
8	Miller	50	Yamamoto	21
9	Brown	48	Lau	20
10	Young	44	Silva	20
11	Jones	44	Lum	19

Source: Hawaii State Department of Health, special tabulation.

Table 53.-- SELECTED LIFE TABLE VALUES, BY SEX: 1984-1986

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

Age in years (period of life between two exact ages stated)	Of 100,000 born alive				Average remaining lifetime at beginning of year of age <u>1</u> /	
	Number living at be- ginning of year of age		Number dying during year of age		Male	Female
	Male	Female	Male	Female		
0-1	100,000	100,000	1,020	833	75.37	80.92
5-6	98,814	99,023	17	22	71.27	76.72
15-16.....	98,573	98,831	57	31	61.43	66.85
25-26	97,650	98,453	117	36	51.96	57.09
35-36	96,469	98,013	134	67	42.53	47.32
45-46	94,660	96,998	281	162	33.24	37.76
55-56	90,060	94,310	719	430	24.64	28.67
65-66	80,321	88,116	1,387	923	16.95	20.29
75-76	61,250	75,146	2,492	1,946	10.53	12.83
85-86	31,274	49,110	(<u>2</u> /)	(<u>2</u> /)	5.56	6.73

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

2/ Not calculated for this and higher ages.

Source: Robert W. Gardner, East-West Population Institute, Complete Life Tables by Age and Sex for Hawaii, 1984-86 (unpublished, September 11, 1987); Statistical Abstract of the United States: 1989, p. 71.

Table 54.-- CHARACTERISTICS OF RESIDENT DEATHS: 1985 TO 1988

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1985	1986	1987	1988
Number of resident deaths	5,751	5,788	6,147	5,970
City and County of Honolulu	4,294	4,248	4,534	4,304
Hawaii County	715	719	784	793
Kauai County	256	313	305	339
Maui County (incl. Kalawao)	486	508	522	534
Males per 100 females	146.3	138.0	144.4	145.1
Median age (years)	71.9	73.2	72.2	72.9
Centenarian deaths: Male	10	10	14	14
Female	23	19	21	24
Oldest (years): Male	114	106	107	102
Female	109	106	103	107
Percent married	47.5	47.0	46.9	48.2
Deaths under 1 year	159	168	164	131
Per 1,000 live births	8.7	9.2	8.8	7.4
Fetal deaths <u>1/</u>	7,068	7,178	7,264	7,409
Per 1,000 deliveries	279	281	392	281
Fetal deaths, 20 or more weeks gestation <u>2/</u>	177	202	183	205
Per 1,000 live births	9.7	11.0	9.2	10.8
Standard fetal deaths <u>3/</u>	1,473	1,478	1,405	1,411
Elective abortions	5,595	5,700	5,971	5,998
Per 1,000 live births	306.3	312.3	321.8	314.8

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, Statistical Report (annual).

Table 55.-- CAUSE OF DEATH, BY SEX: 1988

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	5,970	3,534	2,436
Tuberculosis	15	11	4
Syphilis	-	-	-
Other infective	146	108	38
Malignant neoplasm	1,516	895	621
Digestive organs	523	324	199
Respiratory system	389	275	114
Breast	90	-	90
Genital organs	153	81	72
Urinary organs	51	35	16
Leukemia	48	31	17
Other	262	149	113
Diabetes mellitus	145	78	67
Heart disease	1,858	1,071	787
Rheumatic	29	10	19
Hypertensive	60	25	35
Ischemic	992	605	387
Other heart	777	431	346
Hypertension	12	6	6
Cerebrovascular disease	426	215	211
Arteriosclerosis	39	25	14
Aneurysm	-	-	-
Other circulatory	78	46	32
Influenza/pneumonia	198	120	78
Bronchitis/emphysema/asthma	60	33	27
Peptic ulcer	20	13	7
Cirrhosis of liver	75	54	21
Nephritis and nephrosis	41	25	16
Pregnancy, birth & puerperium	2	1	1
Congenital anomalies	50	32	18
Perinatal conditions	61	31	30
Ill-defined conditions	42	23	19
Other diseases	738	411	327
Accidents	281	210	71
Motor vehicles	142	104	38
Other	139	106	33
Suicide	103	83	20
Homicide & legal intervention	41	24	17
Other external causes	23	19	4

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

Table 56.-- CATASTROPHIC MORTALITY: 1980 TO 1989

[Includes all accidents, natural disasters, and other events causing five or more deaths. Complete through October 30, 1989]

Date	Place	Kind of disaster	Deaths
1980: Jan. 8-10	Oahu, Maui, Hawaii	Storm	7
May 18	Molokai	Helicopter crash	7
1981: Dec. 5	Pearl Harbor	Airplane crash	11
1982: July 24	Near Wahiawa, Oahu	3-car auto crash	5
1983: June 16	Honopu, Kauai	Airplane crash	14
1985: Jan. 15	540 mi. N. of Honolulu .	Helicopter crash	7
1987: Dec. 23	At sea W. of Molokai ...	Airplane disappearance	8
1988: June 9	Near Waimanalo, Oahu ...	2-car auto crash	5
July 9	Near Kawaihae, Hawaii ..	2-car auto crash	6
1989: Jan. 31	Texas	Crash of Hawaii-bound airplane	19
Feb. 24	100 mi. S. of Honolulu .	Airplane door lost ...	9
June 11	Waimanu, Hawaii	Airplane crash	11
Oct. 28	Halawa, Molokai	Airplane crash	20

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

Table 57.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1983 TO 1988

Method	1983	1984	1985	1986	1987	1988
All methods	5,725	5,942	6,116	6,171	6,490	6,315
Burial	2,513	2,517	2,610	2,512	2,690	2,543
Cremation	2,588	2,808	2,886	3,002	3,185	3,145
Removal	594	587	586	614	565	591
Entombment	25	26	27	41	39	29
Educational purpose	-	-	-	-	-	-
Other	3	-	-	-	-	-
Unknown	2	4	7	2	11	7

Source: Hawaii State Department of Health, Statistical Report for 1983-1987, and records.

Table 58.-- PERCENT OF ADULT POPULATION AFFECTED BY SPECIFIED HEALTH RISK FACTORS, BY SEX AND ISLANDS: 1987

[Excludes inmates of institutions, armed forces living on military bases, and all persons less than 18 years old]

Health risk factor	State	Island		Sex	
		Oahu	Others	Male	Female
Seatbelt nonuse	7.3	5.9	12.2	9.1	5.6
Current hypertension	15.7	15.7	15.7	15.2	16.1
Sedentary lifestyle	51.7	51.6	52.0	45.3	57.9
Obesity	18.1	17.5	20.3	21.3	15.0
Smoking	22.3	21.4	25.5	23.6	21.1
Acute drinking	22.6	21.2	27.7	35.3	10.2
Heavier drinking	8.9	7.4	13.9	15.2	2.7
Drinking and driving	3.7	3.0	6.2	5.5	1.9

Source: Hawaii State Department of Health, Health Promotion and Education Office, HPEO Report - 1987 Statistical Annual Report, tables 2 and 3.

Table 59-- CHOLESTEROL LEVELS OF PERSONS SCREENED BY THE STATE DEPARTMENT OF HEALTH: NOVEMBER 1986 TO MAY 1988

Cholesterol level (mgm/dl)	Number	Percent
All persons screened	9,440	100.0
Normal (under 200)	4,311	45.7
Borderline (200 to 239)	2,957	31.3
High (240 and over)	2,172	23.0

Source: Hawaii State Department of Health, Chronic Disease Branch, records.

Table 60.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES:
1987 AND 1988

Date	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1987: June 30	2,008	1,643	147	66	152
1988: June 30	2,121	1,730	156	73	162

Source: Hawaii State Department of Social Services and Housing, Services for the Blind Branch, records.

Table 61-- EYEGLOSS WEARERS, FOR OAHU: 1988

Type of eyeglasses	Percent
Persons surveyed	100
Eyeglasses	60
Contact lenses	6
Both	4
Neither	30

Source: Survey by East West Research Institute, cited in Honolulu Advertiser, May 23, 1988, p. A-2.

Table 62.-- CHRONIC CONDITIONS: 1986

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition	20,065	19.6
Impairment of back or spine	52,127	50.9
Hypertension without heart involvement	78,942	77.1
Arthritis/rheumatism	31,597	30.8
Hearing impairment	34,866	34.0
Asthma with or without hayfever	35,311	34.5
Diabetes	18,618	18.2
Mental and nervous condition	11,669	11.4
Visual impairment	11,194	10.9
Malignant neoplasms	6,577	6.4
Chronic and allergic skin conditions ..	44,704	43.6
Chronic sinusitis	26,363	25.7
Hayfever without asthma	58,149	56.8
Stomach ulcer	5,978	5.8
Bronchitis/emphysema	15,738	12.8
Benign and unspecified neoplasms	4,219	4.1
Hemorrhoids	11,348	11.1
Thyroid/goiter	7,995	7.8
Varicose veins	7,097	6.9
Gout	13,583	13.3

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

Table 63.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE
CONDITIONS: 1986

Type of limitation	Number
Persons with one or more chronic conditions	378,440
No limitation of activity	313,730
Limited, but not in major activity	26,073
Limited in amount or kind of activity	18,797
Unable to carry on major activity	10,893
Restricted days in past 12 months <u>1/</u>	12,697,600
Per person <u>2/</u>	12.4

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 64.-- ACUTE CONDITIONS: 1986

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	2,151,954	210.2
Infective parasitic diseases	142,326	13.9
Respiratory condition	1,510,339	147.5
Digestive system condition	47,658	4.6
Injuries	189,045	18.5
All other acute conditions	262,586	25.6

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

Table 65.-- SPECIFIED COMMUNICABLE DISEASES: 1986 TO 1988

Disease	Cases			Deaths		
	1986	1987	1988	1986	1987	1988
All reportable diseases ..	9,762	8,152	9,657	39	71	62
AIDS	58	79	114	27	41	43
Chickenpox	1,386	1,484	840	-	-	-
Gonorrhea	1,619	1,159	875	-	-	-
Hansen's Disease 1/	37	25	20	-	-	-
Hepatitis, all types	101	110	127	2	13	4
Influenza	316	332	660	3	5	-
Leptospirosis 2/	15	24	67	-	-	-
Malaria 3/	1	3	10	-	1	-
Measles (Rubeola)	37	5	17	-	-	-
Meningitis, all types	222	137	170	-	-	-
Mumps	24	12	24	-	-	-
Rubella	8	32	33	-	-	-
Salmonellosis	428	475	508	1	-	-
Scarlet fever, other strep. ...	4,892	3,620	5,671	-	-	-
Syphilis	56	64	122	-	-	-
Tuberculosis	180	195	171	6	11	15
All others	382	396	228	-	-	-

1/ Excludes reinstated cases.

2/ Includes previously unreported cases.

3/ Acquired outside the State.

Source: Hawaii State Department of Health, Statistical Report, 1988.

Table 66.-- ALCOHOL AND DRUG USE BY PERSONS 18 YEARS AND OVER,
BY SEX: 1984

[Percent distributions. Based on a sample survey of 2,505 persons on the
four largest islands]

Use	Alcohol <u>1/</u>			Drugs <u>2/</u>		
	Both sexes	Male	Female	Both sexes	Male	Female
Total	100.0	100.0	100.0	100.0	100.0	100.0
None <u>3/</u>	47.3	32.3	56.4	57.0	55.7	57.8
Light	24.4	21.8	26.4	6.5	8.1	5.2
Moderate	12.9	17.5	9.4	30.8	29.9	31.7
Moderately heavy	7.3	11.5	4.1	2.6	2.7	2.5
Heavy	8.1	13.9	3.7	3.1	3.5	2.8

1/ Based on total ethanol consumption.

2/ Based on frequency of use, weighted by degree of danger to users, for marijuana/hashish, tranquilizers, barbituates, inhalants, LSD, PCP, cocaine, amphetamines, heroin, and morphine/codeine/percodan/demoral.

3/ For alcohol use, includes both non-drinkers and infrequent drinkers.

Source: Jonathan S. Raymond, Sharon Murakami, and Frank Ahern, Toward an Epidemiology of Mental Health and Alcohol and Drug Use in Hawaii (September 1985), tables 7 and 11.

Table 67-- ESTIMATED HEALTH AND ECONOMIC COSTS OF SMOKING: 1985

Subject	Amount
Adult deaths attributable to smoking	753
Years of potential life lost	2,182
Annual economic cost of smoking (million dollars)	170.7
Hospitalization and other direct health care costs	88.1
Lost wages and decreased productivity	82.6
Perinatal deaths due to maternal smoking	12

Source: Hawaii State Department of Health, "The Health and Economic Impact of Smoking in Hawaii," R & S Report, No. 59 (November 1988).

Table 68.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,
BY TYPE OF FACILITY: 1980 TO 1989

[Includes Tripler Army Medical Center]

Category and year	Hospitals				Care homes	
	Total <u>1/</u>	Acute care	Long-term care	Specialty care	Fam-ily <u>2/</u>	Resi-dent-ial <u>3/</u>
Number of facilities:						
1980	49	25	33	8	281	15
1981	49	25	34	9	278	14
1982	49	25	34	9	280	15
1983	45	23	34	9	282	16
1984	48	24	32	10	272	16
1985	47	23	32	10	299	16
1986	48	23	33	9	633	17
1987	51	23	36	9	633	17
1988	51	22	36	9	531	16
1989	52	22	38	8	515	16
Number of beds:						
1980	6,416	2,886	2,656	874	1,042	490
1981	6,488	2,925	2,670	893	1,055	500
1982	6,424	2,875	2,668	881	1,098	516
1983	6,379	2,848	2,640	891	1,096	549
1984	6,512	2,896	2,648	967	1,082	549
1985	6,504	2,894	2,650	960	1,258	559
1986	6,595	2,870	2,769	956	2,547	540
1987	6,820	2,887	2,977	956	2,547	540
1988	6,671	2,855	2,995	821	2,235	490
1989	6,854	2,855	3,191	808	2,184	481

NA Not available.

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

2/ Four or fewer beds. Since 1987, Type I care homes consisting of five beds or less.

3/ Five or more beds. Since 1987, category changed to Type II care homes consisting of more than five beds.

Source: Hawaii State Department of Health, Statistical Report (annual); State Health Planning and Development Agency, records; Hospital and Medical Facilities Branch, records.

Table 69.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE
CIVILIAN HOSPITALS: 1980 TO 1988

[Excludes Tripler Army Medical Center]

Type of facility and year	Beds <u>1/</u>	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
Acute care:					
1980	2,359	117,404	2,047	6.4	70.9
1981	2,366	99,247	1,675	6.2	71.0
1982	2,366	102,374	1,728	6.2	73.0
1983	2,387	102,331	1,654	5.9	69.3
1984	2,385	96,530	1,558	5.9	65.3
1985	2,361	84,473	1,566	6.8	66.3
1986 <u>2/</u>	2,378	91,704	1,586	6.3	66.7
1987	2,346	93,256	1,661	6.5	70.8
1988 <u>2/</u>	2,835	117,548	2,074	6.4	73.3
Long-term care:					
1980	2,670	2,653	2,391	328.9	90.0
1981	2,668	2,478	2,487	366.4	93.2
1982	2,640	2,498	2,523	368.7	95.6
1983	2,648	2,574	2,519	357.3	95.2
1984	2,650	2,606	2,552	357	96.3
1985	2,769	2,575	2,590	367	93.5
1986 <u>2/</u>	2,977	2,901	2,602	327	87.4
1987	2,995	2,553	2,779	397	92.8
1988 <u>2/</u>	3,187	2,746	2,907	376	91.7

NA Not available.

1/ Civilian bed count of succeeding year.

2/ Excludes statistics for Lanai.

Source: Hawaii State Department of Health, Statistical Report (annual); State Health Planning and Development Agency, records.

Table 70.-- NUMBER AND BED CAPACITY OF HOSPITALS, BY TYPE OF FACILITY,
BY ISLANDS: 1989

[Except for Tripler Army Medical Center, data are for facilities recognized
by the Hawaii State Health Planning and Development Agency]

Category and island	Hospitals				Care homes	
	Total <u>1/</u>	Acute care <u>2/</u>	Long-term care	Specialty care	Type I <u>3/</u>	Type II <u>4/</u>
NUMBER OF FACILITIES						
State total ..	53	22	38	9	515	15
Oahu	33	10	23	7	422	11
Hawaii	6	4	6	-	53	1
Kauai	5	3	5	-	29	3
Maui	4	3	2	1	18	-
Molokai	2	1	1	1	9	1
Lanai	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	6,671	2,855	3,191	808	2,184	481
Oahu	5,120	2,336	1,985	799	1,817	406
Hawaii	667	240	427	-	207	13
Kauai	328	114	214	-	102	57
Maui	498	151	339	8	75	-
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/ Includes Tripler Army Medical Center which had a bed capacity of 509 (plus 52 nursery beds).

3/ Five beds or less.

4/ More than five beds.

Source: Hawaii State Department of Health, Annual Summary of Acute, Long Term Care and Specialty Hospital Utilization, 1988; State Health Planning and Development Agency.

Table 71.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE
CIVILIAN HOSPITALS, BY ISLANDS: 1988

[Includes 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	117,531	2,073	6.4	73.1
Oahu	92,930	1,742	6.8	75.1
Hawaii	11,076	159	5.2	67.8
Kauai	5,152	61	4.3	53.4
Maui	8,181	110	4.9	72.6
Molokai	192	1	2.8	18.4
Lanai	(NA)	(NA)	(NA)	(NA)
LONG-TERM CARE				
State total	2,743	2,900	385.9	90.9
Oahu	1,615	1,992	434	91.4
Hawaii	430	381	324	92.3
Kauai	282	184	236	86.9
Maui	292	328	410	97.0
Molokai	124	15	45	70.1
Lanai	(NA)	(NA)	(NA)	(NA)

NA Not available.

Source: Data by islands from Hawaii State Department of Health, State Health Planning and Development Agency, Annual Summary of Acute, Long Term Care and Specialty Hospital Utilization By County, 1988.

Table 72.-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES:
1982 TO 1988

Year	Average length of stay (days)	Average cost to hospital		Hospital semiprivate room charges 1/ (dollars)
		Per in-patient day (dollars)	Per admission (dollars)	
1982	8.3	307.30	2,551	176.24
1983	8.2	357.87	2,964	215.84
1984	8.3	383.05	3,186	224.31
1985	8.3	420.11	3,522	230.82
1986	7.5	489.93	3,707	252.89
1987	7.9	512.48	4,106	241.72
1988	(NA)	(NA)	(NA)	257.25

NA Not available.

1/ January data, except 1983, which refers to July.

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

Table 73.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:
1983 TO 1988

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1983	6,022	303	5,719	4,761	4,112	5,030	9,970
1984 1/ ...	5,692	337	5,355	4,307	3,845	4,887	9,724
1985	6,328	251	6,077	3,933	3,268	4,221	8,891
1986	5,852	252	5,600	3,826	3,292	3,725	8,342
1987	5,754	248	5,506	3,678	3,122	3,452	8,220
1988	5,234	260	4,974	3,694	3,147	4,143	8,389

1/ Year ended June 30.

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

Table 74.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:
1985 TO 1989

Year	Number of beds, June 30	Admissions <u>1/</u>		Patients in hospital <u>2/</u>	
		Total	First	Average <u>1/</u>	June 30
1985	220	647	514	220	224
1986 <u>3/</u> ..	240	738	611	263	272
1987 <u>3/</u> ..	240	776	614	254	223
1988 <u>3/</u> ..	240	811	651	241	210
1989 <u>3/</u> ..	240	863	711	242	238

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

3/ Includes children's unit at Leahi Hospital assigned to the Hawaii State Hospital effective July 1, 1985.

Source: Hawaii State Hospital, records.

Table 75.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1985 TO 1989

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

Year	Beds, June 30	Admissions <u>1/</u>	Patients in residence		Patients on leave, June 30
			Average <u>2/</u>	June 30	
1985	410	2	354	360	586
1986	410	-	331	333	593
1987	285	-	266	260	575
1988	285	2	225	199	<u>3/</u> 3
1989	205	-	183	165	<u>3/</u> 4

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

2/ Year ended June 30.

3/ Reflects effect of deinstitutionalization of the facility; placement into community-based ICF/MR.

Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 76.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1984 TO 1988

Subject	1984	1985	1986	1987	1988
Patients on register, Dec. 31 ..	661	651	653	633	571
Medically released	661	651	653	633	571
At home	555	546	549	532	474
Kalaupapa	101	101	99	97	93
Hale Mohalu or Leahi	5	5	5	4	4
New cases	43	31	37	24	20
Deaths	15	10	4	6	13

Source: Hawaii State Department of Health, Statistical Report, 1988.

Table 77.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED
IN HAWAII, BY PLACE OF ADDRESS: MARCH 7, 1989

Place of address	Physicians and surgeons ^{1/}	Dentists	Regis- tered nurses	Pharma- cists
Total licensed	4,143	1,162	10,930	875
Hawaii addresses ...	2,425	882	8,218	516
Hawaii	187	78	633	45
Maui	170	55	579	37
Lanai	1	1	8	1
Molokai	8	4	31	2
Oahu	1,965	715	6,662	407
Kauai	94	29	305	24
Niihau	-	-	-	-
Out of State	1,718	280	2,712	359

^{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 78.-- MARRIAGES AND DIVORCES: 1970 TO 1988

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments <u>2/</u>	Rates per 1,000 resident population		Percent of marriages	
	Total	Resident <u>1/</u>		Resident marriages	Divorces, annulments <u>2/</u>	Nonresident <u>3/</u>	Inter-racial <u>4/</u>
1970 ...	10,599	7,889	2,589	10.2	3.4	25.6	40.7
1971 ...	9,734	8,104	3,691	10.1	4.6	16.7	42.7
1972 ...	9,750	8,482	3,891	10.2	4.7	13.0	41.7
1973 ...	9,776	8,656	4,170	10.2	4.9	11.5	43.7
1974 ...	9,649	8,500	4,111	9.8	4.7	11.9	43.2
1975 ...	9,673	8,440	4,265	9.5	4.8	12.7	43.1
1976 ...	9,769	8,318	4,712	9.2	5.2	14.9	43.2
1977 ...	10,266	8,427	4,601	9.2	5.0	17.9	43.3
1978 ...	10,736	8,650	4,837	9.3	5.2	19.4	44.5
1979 ...	11,678	9,424	5,055	9.9	5.3	19.3	44.6
1980 ...	11,856	9,442	4,438	9.7	4.6	20.4	44.4
1981 ...	12,218	9,445	4,253	9.6	4.3	22.7	44.5
1982 ...	13,483	10,053	4,233	10.1	4.2	25.4	45.0
1983 ...	14,062	10,216	4,583	10.0	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	9.4	4.7	35.8	46.9
1986 ...	16,219	9,571	4,674	9.0	4.4	30.4	46.5
1987 ...	16,567	9,714	4,419	9.0	4.1	41.3	44.6
1988 ...	17,281	9,708	5,020	8.8	4.6	43.8	42.9

1/ One or both partners residents of Hawaii.

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

3/ Both partners nonresidents of Hawaii.

4/ Excludes nonresident marriages.

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

Table 79.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1985 TO 1988

[Place of occurrence basis]

Subject	1985	1986	1987	1988
MARRIAGES				
Number	15,421	16,219	16,567	17,281
Percent on Oahu	64.5	62.0	61.4	58.8
Percent Hawaii residents:				
Both bride and groom	59.4	54.6	54.5	52.2
One partner only	4.7	4.4	4.2	4.0
Neither bride nor groom	35.8	41.0	41.3	43.8
Median age (years):				
Groom	29.9	30.6	30.7	31
Bride	27.8	28.1	28.4	28
Percent previously married:				
Groom	39.3	40.4	39.6	40.4
Bride	39.1	39.6	39.0	39.8
DIVORCES AND ANNULMENTS				
Number	4,887	4,674	4,419	5,020
Divorces	4,875	4,652	4,404	5,005
Annulments	12	19	15	14
Not reported	-	3	-	1
Percent occurring on Oahu	77.2	76.2	75.3	79.8
Percent Hawaii residents:				
Both partners	75.3	74.4	75.0	76.1
One partner only	24.7	25.4	24.7	23.6
Neither partner	-	0.1	0.2	0.3
Median age (years):				
Husband	34.3	34.3	35.2	34.9
Wife	32.0	32.1	32.7	32.6
Percent interracial ^{1/}	39.0	38.2	38.9	40.5
Percent with children under 18 years	55.6	53.2	51.8	52.2
Median years married	6.3	6.4	6.4	6.6

^{1/} 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 80.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT,
BY RACE MIXTURE AND TYPE OF CEREMONY: 1988

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages	17,281	9,709	7,572
Race of partners:			
Both partners same race ..	12,276	5,539	6,937
Different	5,005	4,170	625
Percent different	29.0	42.9	8.4
Type of ceremony:			
Civil ceremony	4,811	3,787	1,024
Religious ceremony	12,470	5,922	6,548

Source: Hawaii State Department of Health, special tabulations.

Table 81.-- MARITAL DISSOLUTION: 1970 TO 1987

Subject	1970	1980	1987	Percent		
				1970	1980	1987
Married couples <u>1/</u>	154,678	185,698	233,662	100.0	100.0	100.0
Marriages ended	4,466	6,782	7,260	2.9	3.7	3.1
By divorce	2,589	4,438	4,419	1.7	2.4	1.9
By death	1,877	2,344	2,841	1.2	1.3	1.2
Husbands	1,312	1,678	2,036	0.8	0.9	0.9
Wives	565	666	805	0.4	0.4	0.3

1/ Figure for 1987 refers to number of married women, except separated.

Source: Hawaii State Department of Health, Statistical Report (annual); U.S. Bureau of the Census, 1970 Census of Population, PC(1)-C13, table 52, and 1980 Census of Population, PC80-1-B13, table 21; Data Book 1988, table 38.

Table 82.-- HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER,
BY SEX: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward. For further information, see Data Book 1984, tables 104-107]

Centile	Height (inches)		Weight (pounds)	
	Men	Women	Men	Women
10th	63.1	59.3	126.4	100.8
50th (median)	67.4	62.4	158.3	123.8
90th	72.1	66.5	199.5	166.9
Average	67.5	62.6	159.5	127.9

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