

## 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 6,380 resident deaths in 1989, or 5.7 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 7.4 in 1989. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fourth. Resident live births in 1989 numbered 19,335, or 17.4 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 98.3 percent of all babies were born in hospitals in 1989, and one-fifth were born to military couples. Almost one out of four births was to an unmarried woman. There were 7,409 fetal deaths in 1988, including 5,998 elective abortions. Marriages numbered 19,974 in 1989, with about 45 percent accounted for by nonresidents. Divorces reached a 1989 total of 5,613. 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 228 in 1987, with respiratory conditions the most common complaint (at 165 cases per 100 persons). Among chronic conditions reported in the 1987 survey data, the most frequently mentioned were hypertension without heart involvement (8.7 per 100 persons), gout (6.2), and impairments of the back or spine (6.1). The most common communicable diseases reported to authorities in 1988 were scarlet fever, with 5,671 cases, and gonorrhea, with 875, but the most fatal was AIDS (43 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 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: 1990 contain similar data for the nation as a whole.

Table 43.-- BIRTHS AND DEATHS: 1970 TO 1989

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	17.3	5.4	223.3	10.8	7.4
1989 ...	19,335	<u>6/</u> 6,380	17.4	5.7	239.0	9.9	8.4

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.

6/ Excludes 139 deaths with unknown residence.

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

Table 44.-- BIRTHS AND DEATHS, BY MILITARY STATUS: 1988 AND 1989

[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:						
1988 .....	19,054	-	19,054	3,821	15,233	3,821
1989 .....	19,428	-	19,428	3,816	15,612	3,816
Deaths:						
1988 .....	6,315	60	6,255	90	6,165	150
1989 .....	6,730	48	6,682	78	6,604	126
Birth rates: <u>2/</u>						
1988 .....	15.7	0	16.4	54.7	14.0	30.2
1989 .....	15.4	0	16.1	63.3	13.6	32.7
Death rates: <u>2/</u>						
1988 .....	5.2	1.1	5.4	1.3	5.7	1.2
1989 .....	5.3	0.9	5.5	1.3	5.8	1.1

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 45.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1984 TO 1989

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths	Elective abortions
	Number	Rate <u>1/</u>			
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
1989 <u>2/</u> ...	26,083	23.5	19,335	1,468	5,280

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

2/ Excludes 21 fetal deaths and 18 elective abortions with unknown residence.

Source: Hawaii State Department of Health, Annual Report, Statistical Supplement, 1984-1988, and records.

Table 46.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1988 AND 1989

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State <u>1/</u>
<b>Births:</b>						
1988 ...	19,054	18,937	115	2	18,964	27
1989 ...	19,428	19,335	93	-	19,361	26
<b>Deaths:</b>						
1988 ...	6,315	5,970	340	5	6,052	82
1989 ...	6,730	6,380	211	139	6,551	171

1/ Data received from other States.

Source: Hawaii State Department of Health, Statistical Report, 1988, pp. 11, 24, 26, 47, and records.

Table 47.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1987 TO 1989

[Excludes births to Hawaii residents occurring out of state]

Subject	1987	1988	1989
Number of resident births .....	18,555	18,937	19,335
City and County of Honolulu .....	14,160	14,430	14,736
Percent on Oahu .....	76.3	76.2	76.2
Hawaii County .....	1,915	1,980	2,007
Kauai County .....	865	873	861
Maui County (incl. Kalawao) .....	1,615	1,654	1,731
Percent attended by M.D. or O.D. in hospital <u>1/</u>	98.3	98.6	98.3
Males per 100 females .....	107.6	103.6	104.8
Median weight of single births (grams) .....	3,308	3,315	3,317
Percent low birth weight (under 2,500 grams) ...	7.2	6.9	7.1
Percent single births under 40 weeks gestation .	52.2	51.1	48.9
Percent plural .....	2.4	1.8	2.3
Percent with 1 or more congenital malformations .....	1.4	3.2	1.4
Percent illegitimate .....	21.4	22.4	23.9
Percent with prenatal visit in first three months .....	73.9	71.6	70.5
Percent first child born to mother <u>2/</u> .....	29.7	30.3	29.9
Percent first child born alive to mother .....	41.3	42.1	42.1
Median age of mothers (years) .....	26.8	27.1	27
Median age of known fathers (years) .....	29.3	29.6	29

1/ Place of occurrence basis.

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

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

Table 48.-- 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 49.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1989

Military status of father	Total births	Unmixed	Mixed <u>1/</u>	Not certain <u>2/</u>
All groups .....	19,335	8,376	9,885	1,074
Military .....	3,790	2,853	936	1
Civilian .....	13,716	5,521	8,194	1
Status not reported .....	1,829	2	755	1,072

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 50.-- MOST COMMON FIRST NAMES ON BIRTH CERTIFICATES, BY SEX: 1989

[A total of 6,541 first names, including variant spellings, was reported for the 19,428 babies born in Hawaii in 1989]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1 .....	Joshua .....	217	Ashley .....	154
2 .....	Michael .....	211	Jessica .....	137
3 .....	Christopher .....	190	Nicole .....	136
4 .....	Matthew .....	144	Brittany .....	112
5 .....	Justin .....	136	Sarah .....	85
6 .....	Ryan .....	126	Chelsea .....	82
7 .....	Daniel .....	116	Stephanie .....	77
8 .....	Andrew .....	108	Amanda .....	75
9 .....	Jonathan .....	107	Jennifer .....	74
10 .....	David .....	104	Michelle .....	73

Source: Hawaii State Department of Health, special tabulation.

Table 51.-- MOST COMMON SURNAMES ON BIRTH AND DEATH CERTIFICATES: 1989

Rank	Birth certificates		Death certificates	
	Surname	Births	Surname	Deaths
1 .....	Lee .....	110	Lee .....	50
2 .....	Wong .....	80	Wong .....	38
3 .....	Smith .....	70	Chang .....	26
4 .....	Johnson .....	61	Lau .....	26
5 .....	Kim .....	60	Smith .....	25
6 .....	Young .....	51	Yamamoto .....	24
7 .....	Williams .....	50	Young .....	24
8 .....	Wilson .....	48	Souza .....	23
9 .....	Brown .....	44	Lum .....	22
10 .....	Chang .....	42	Higa .....	21

Source: Hawaii State Department of Health, special tabulation.

Table 52.-- 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 53.-- CHARACTERISTICS OF RESIDENT DEATHS: 1986 TO 1989

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1986	1987	1988	1989
Number of resident deaths .....	5,788	6,147	5,970	6,380
City and County of Honolulu .....	4,248	4,534	4,304	4,634
Hawaii County .....	719	784	793	845
Kauai County .....	313	305	339	323
Maui County (incl. Kalawao) .....	508	522	534	578
Males per 100 females .....	138.0	144.4	145.1	139.7
Median age (years) .....	73.2	72.2	72.9	73
Centenarian deaths: Male .....	10	14	14	13
Female .....	19	21	24	27
Oldest (years): Male .....	106	107	102	104
Female .....	106	103	107	106
Percent married .....	47.0	46.9	48.2	45.9
Deaths under 1 year .....	168	164	131	156
Per 1,000 live births .....	9.2	8.8	7.4	8.1
Fetal deaths <u>1/</u> .....	7,178	7,264	7,409	6,748
Per 1,000 deliveries .....	281	392	281	259
Fetal deaths, 20 or more weeks gestation <u>2/</u>	202	183	205	193
Per 1,000 live births .....	11.0	9.2	10.8	10.0
Standard fetal deaths <u>3/</u> .....	1,478	1,405	1,411	1,468
Elective abortions .....	5,700	5,971	5,998	5,280
Per 1,000 live births .....	312.3	321.8	314.8	273.1

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.

Table 54.-- CAUSE OF DEATH, BY SEX: 1989

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths .....	6,381	3,719	2,662
Tuberculosis .....	4	3	1
Syphilis .....	-	-	-
Other infective .....	144	103	41
Malignant neoplasm .....	1,570	874	696
Digestive organs .....	509	285	224
Respiratory system .....	391	257	134
Breast .....	95	-	95
Genital organs .....	158	83	75
Urinary organs .....	51	30	21
Leukemia .....	66	47	19
Other .....	300	172	128
Diabetes mellitus .....	149	72	77
Heart disease .....	1,977	1,165	812
Rheumatic .....	24	6	18
Hypertensive .....	63	40	23
Ischemic .....	1,083	652	431
Other heart .....	807	467	340
Hypertension .....	27	15	12
Cerebrovascular disease .....	473	242	231
Arteriosclerosis .....	18	9	9
Other circulatory .....	74	52	22
Aneurysm .....	-	-	-
Influenza/pneumonia .....	272	146	126
Chronic obstructive pulmonary diseases	73	43	30
Peptic ulcer .....	27	18	9
Cirrhosis of liver .....	76	52	24
Nephritis and nephrosis .....	57	34	23
Pregnancy, birth & puerperium .....	-	-	-
Congenital anomalies .....	40	24	16
Perinatal conditions .....	63	34	29
Ill-defined conditions .....	59	36	23
Other diseases .....	794	438	356
Accidents .....	284	213	71
Motor vehicles .....	137	99	38
Other .....	147	114	33
Suicide .....	119	88	31
Homicide & legal intervention .....	52	38	14
Other external causes .....	29	20	9

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

Table 55.-- CATASTROPHIC MORTALITY: 1980 TO 1990

[Includes all accidents, natural disasters, and other events causing five or more deaths. Complete through September 28, 1990]

	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 56.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1984 TO 1989

Method	1984	1985	1986	1987	1988	1989
All methods .....	5,942	6,116	6,171	6,490	6,315	6,730
Burial .....	2,517	2,610	2,512	2,690	2,543	2,740
Cremation .....	2,808	2,886	3,002	3,185	3,145	3,369
Removal .....	587	586	614	565	591	594
Entombment .....	26	27	41	39	29	19
Educational purpose .....	-	-	-	-	-	-
Other .....	-	-	-	-	-	-
Unknown .....	4	7	2	11	7	8

Source: Hawaii State Department of Health, Statistical Report for 1984-1988, and records.

Table 57.-- PERCENT OF PERSONS 18 YEARS AND OVER AFFECTED BY SPECIFIED HEALTH RISK FACTORS, BY SEX: 1988

[Based on a telephone survey of the noninstitutional population]

Health risk factor	Both sexes	Male	Female
Overweight .....	16.4	17.4	15.3
Sedentary life-style .....	53.3	48.2	58.4
Current regular cigarette smokers ....	23.8	26.4	21.2
Ever smoked cigarettes .....	45.2	52.4	38.1
Smoking quit ratio .....	47.3	49.6	44.3
Binge drinkers .....	19.6	29.3	10.0
Heavy drinkers .....	9.4	16.3	2.7
Drinking drivers .....	3.6	5.9	1.2
Seatbelt nonuse .....	6.5	9.2	3.9
Cholesterol ever measured .....	48.0	50.6	45.5
Cholesterol level ever told .....	28.7	32.0	25.5
Cholesterol level known .....	13.1	15.2	11.1

Source: U.S. Department of Health and Human Services, Centers for Disease Control, "Behavioral Risk Factor Surveillance, 1988," Morbidity and Mortality Weekly Report, Vol. 39, No. SS-2, June 1990.

Table 58.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES: 1988 AND 1989

Date	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1988: June 30 .....	2,121	1,730	156	73	162
1989: June 30 .....	2,261	1,819	169	90	183

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

Table 59.-- CHRONIC CONDITIONS: 1987

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Malignant neoplasms .....	8,070	7.7
Benign and unspecified neoplasms .....	7,069	6.8
Thyroid Disease .....	11,372	10.9
Diabetes .....	25,565	24.5
Mental and nervous condition .....	12,479	12.0
Heart condition .....	25,366	24.3
Hypertension .....	90,946	87.1
Varicose veins .....	9,305	8.9
Hemorrhoids .....	16,307	15.6
Bronchitis/emphysema .....	19,161	18.4
Asthma .....	42,365	40.6
Hayfever .....	60,687	58.1
Chronic sinusitis .....	37,315	35.7
Stomach ulcer .....	10,403	10.0
Gallbladder .....	9,055	8.7
Kidney stone .....	6,385	6.1
Skin condition .....	51,577	49.4
Arthritis .....	37,297	35.7
Visual impairment .....	12,119	11.6
Hearing impairment .....	41,036	39.3
Impairment of back or spine .....	63,808	61.1
Gout .....	65,112	62.4

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

Table 60.-- ACUTE CONDITIONS: 1987

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions .....	2,377,629	227.7
Infective parasitic diseases ....	88,646	8.5
Respiratory condition .....	1,721,315	164.9
Digestive system condition .....	50,730	4.9
Injuries .....	203,328	19.5
All other acute conditions .....	313,610	30.0

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

Table 61.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1987

Type of limitation	Number
Persons with one or more chronic conditions .....	445,520
No limitation of activity .....	353,165
Limited, but not in major activity .....	28,718
Limited in amount or kind of activity .....	34,385
Unable to carry on major activity .....	14,284
Not reported .....	14,968
Restricted days in past 12 months <u>1/</u> .....	12,615,218
Per person <u>2/</u> .....	11.6

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 62.-- OCEAN SPORTS-RELATED INJURIES, FOR OAHU AND HAWAII COUNTY:  
APRIL 1988 TO JANUARY 1989

[Data for 276 injuries reported by 13 cooperating hospitals or acute-care clinics and the Hyperbaric Treatment Center]

Characteristic	Percent	Characteristic	Percent
Total .....	100	Primary diagnosis:	
Activity:		Laceration, tear .....	29
Board surfing .....	28	Sting .....	24
Boogie boarding .....	7	Decompression sickness ....	7
Body surfing .....	7	Fracture .....	6
Swimming .....	31	Abrasion, contusion .....	6
SCUBA diving .....	10	Other .....	27
Other .....	17	Residence:	
Requiring hospital admission ..	12	Same island (civilian) ....	66
Male .....	77	Other island or military ..	9
10 to 39 years old .....	79	Mainland or abroad .....	25

Source: G. Harley Hartung, Deborah A. Goebert, Raymond M. Taniguchi, and Gary A. Okamoto, "Epidemiology of ocean sports-related injuries in Hawaii: 'Akahele O Ke Kai,'" Hawaii Medical Journal, February 1990, pp. 52-56.

Table 63.-- SPECIFIED COMMUNICABLE DISEASES: 1987 TO 1989

Disease	Cases			Deaths		
	1987	1988	1989	1987	1988	1989
All reportable diseases ..	8,177	9,683	11,301	110	95	99
AIDS 1/ .....	104	140	127	80	76	72
Chickenpox .....	1,484	840	2,211	-	-	-
Gonorrhea .....	1,159	875	731	-	-	-
Hansen's Disease 2/ .....	25	20	17	-	-	1
Hepatitis, all types .....	110	127	250	13	4	5
Influenza .....	332	660	1,638	5	-	1
Leptospirosis 3/ .....	24	67	69	-	-	1
Malaria 4/ .....	3	10	8	1	-	-
Measles (Rubeola) .....	5	17	29	-	-	-
Meningitis, all types .....	137	170	199	-	-	9
Mumps .....	12	24	20	-	-	-
Rubella .....	32	33	13	-	-	-
Salmonellosis .....	475	508	371	-	-	-
Scarlet fever, other strep. ...	3,620	5,671	5,085	-	-	3
Syphilis .....	64	122	18	-	-	-
Tuberculosis .....	195	171	193	11	15	4
All others .....	396	228	5/ 322	-	-	3

1/ By date of diagnosis, with deaths allocated back to year when first reported. Data prior to 1989 are revised. The revised 1986 figures (see Data Book 1989, table 65) were 79 cases and 63 deaths.

2/ Excludes reinstated cases.

3/ Includes previously unreported cases.

4/ Acquired outside the State.

5/ Includes 31 incidents of gastroenteritis involving 2 or more persons.

Source: Hawaii State Department of Health, Statistical Report, 1988; Office of Health Status Monitoring and AIDS Surveillance Program, records.



Table 64.-- 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 65-- 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 66.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,  
BY TYPE OF FACILITY: 1985 TO 1990

[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-tial <u>3/</u>
<b>Number of facilities:</b>						
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
1990 .....	(NA)	(NA)	(NA)	(NA)	501	15
<b>Number of beds:</b>						
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
1990 .....	(NA)	(NA)	(NA)	(NA)	2,162	449

NA Not available.

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

2/ Four or fewer beds through 1986, thereafter five beds or less.

3/ Five or more beds through 1986, six or more thereafter.

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

Table 67.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE  
CIVILIAN HOSPITALS: 1980 TO 1989

[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
1989 .....	2,351	91,686	1,722	6.7	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
1989 .....	3,212	2,653	2,993	409	93.5

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 68.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES,  
BY TYPE OF FACILITY, BY ISLANDS: 1989-1990

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

Category and island	Hospitals, Oct. 1989				Care homes, Oct. 1990	
	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 ..	54	23	40	9	501	15
Oahu .....	35	11	24	7	403	10
Hawaii .....	7	4	7	-	49	1
Kauai .....	5	3	5	-	24	3
Maui .....	4	3	2	1	16	-
Molokai .....	2	1	1	1	9	1
Lanai .....	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	7,033	2,991	3,314	728	2,162	449
Oahu .....	5,405	2,460	2,239	706	1,774	370
Hawaii .....	734	252	482	-	194	13
Kauai .....	338	114	224	-	86	52
Maui .....	498	151	339	8	70	-
Molokai .....	44	8	22	14	38	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, Office of Health Status Monitoring, records.

Table 69.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE  
CIVILIAN HOSPITALS, BY ISLANDS: 1989

[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 .....	91,686	1,723	6.7	73.4
Oahu .....	69,589	1,374	7.2	74.9
Hawaii .....	10,472	159	5.5	65.4
Kauai .....	4,923	69	5.1	63.9
Maui .....	6,459	119	5.0	78.8
Molokai .....	139	1	2.2	12.5
Lanai .....	104	1	3.5	16.7
LONG-TERM CARE				
State total .....	2,653	2,993	409.4	93.2
Oahu .....	1,630	2,043	458	95.0
Hawaii .....	469	434	324	92.7
Kauai .....	266	210	289	93.8
Maui .....	181	282	568	83.2
Molokai .....	89	17	70	77.3
Lanai .....	18	7	136	87.5

NA Not available.

Source: Data by islands from Hawaii State Department of Health, State Health Planning and Development Agency, Utilization of Inpatient Facilities by County, 1989.

Table 70.-- 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 71.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES:  
1985 TO 1989

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
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
1989 .....	5,448	251	5,197	3,943	3,306	3,644	8,003

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

Table 72.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY:  
1987 TO 1990

[Includes children's unit at Leahi Hospital assigned to the  
Hawaii State Hospital]

Year	Number of beds, June 30	Admissions <u>1/</u>		Patients in hospital <u>2/</u>	
		Total	First	Average <u>1/</u>	June 30
1987 ....	240	776	614	254	223
1988 ....	240	811	651	241	210
1989 ....	240	863	711	242	238
1990 ....	240	811	618	242	209

1/ Year ended June 30.

2/ Includes patients on leave and absent without leave.

Source: Hawaii State Hospital, records.

Table 73.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1987 TO 1990

[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 <u>3/</u>
			Average <u>2/</u>	June 30	
1987 ....	285	-	266	260	575
1988 ....	285	2	225	199	<u>3/</u> 3
1989 ....	205	-	183	165	<u>3/</u> 4
1990 ....	205	10	153	158	<u>3/</u> 6

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

2/ Year ended June 30.

3/ Decline after 1987 reflects deinstitutionalization of the facility  
and placement into community-based ICF/MR.

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

Table 74.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1985 TO 1989

Subject	1985	1986	1987	1988	1989
Patients on register, Dec. 31 ..	651	653	633	571	541
Medically released .....	651	653	633	571	541
At home .....	546	549	532	474	447
Kalaupapa .....	101	99	97	93	90
Hale Mohalu at Leahi .....	5	5	4	4	4
New cases .....	31	37	24	20	18
Deaths .....	10	4	6	13	14

Source: Hawaii State Department of Health, Statistical Report, 1988, and Hansen's Disease Community Program, records.

Table 75.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: JANUARY 9, 1990

Place of address	Physicians and surgeons <sup>1/</sup>	Dentists	Registered nurses	Pharmacists
Total licensed	4,552	1,223	9,695	968
Hawaii addresses ...	2,528	918	7,630	548
Hawaii .....	197	82	650	51
Maui .....	175	56	568	39
Lanai .....	1	1	8	1
Molokai .....	8	4	39	2
Oahu .....	2,050	744	6,047	428
Kauai .....	97	31	318	27
Niihau .....	-	-	-	-
Out of State .....	2,024	305	2,065	420

<sup>1/</sup> 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 76.-- MARRIAGES AND DIVORCES: 1970 TO 1989

[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	8.9	4.6	43.8	42.9
1989 ...	19,974	9,952	5,613	8.9	5.0	44.6	44.3

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 77.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1986 TO 1989

[Place of occurrence basis]

Subject	1986	1987	1988	1989
MARRIAGES				
Number .....	16,219	16,567	17,281	17,974
Percent on Oahu .....	62.0	61.4	58.8	57.7
Percent Hawaii residents:				
Both bride and groom .....	54.6	54.5	52.2	51.3
One partner only .....	4.4	4.2	4.0	4.1
Neither bride nor groom .....	41.0	41.3	43.8	44.6
Median age (years):				
Groom .....	30.6	30.7	31	31
Bride .....	28.1	28.4	28	28
Percent previously married:				
Groom .....	40.4	39.6	40.4	39.8
Bride .....	39.6	39.0	39.8	40.4
DIVORCES AND ANNULMENTS				
Number .....	4,674	4,419	5,020	5,613
Divorces .....	4,652	4,404	5,005	5,600
Annulments .....	19	15	14	13
Not reported .....	3	-	1	-
Percent occurring on Oahu .....	76.2	75.3	79.8	78.5
Percent Hawaii residents:				
Both partners .....	74.4	75.0	76.1	75.4
One partner only .....	25.4	24.7	23.6	23.1
Neither partner .....	0.1	0.2	0.3	0.1
Median age (years):				
Husband .....	34.3	35.2	34.9	35
Wife .....	32.1	32.7	32.6	32
Percent interracial <sup>1/</sup> .....	38.2	38.9	40.5	39.4
Percent with children under 18 years ....	53.2	51.8	52.2	55.3
Median years married .....	6.4	6.4	6.6	6.2

<sup>1/</sup> For these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

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

Table 78.-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT,  
BY RACE MIXTURE AND TYPE OF CEREMONY: 1989

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages .....	17,974	9,952	8,022
Race of partners:			
Both partners same race <u>1/</u>	12,836	5,546	7,290
Different .....	5,138	4,406	732
Percent different .....	28.6	44.3	9.1
Type of ceremony:			
Civil ceremony .....	4,853	3,883	970
Religious ceremony .....	13,121	6,069	7,052

1/ Includes marriages with both partners of unknown race.  
Source: Hawaii State Department of Health, special tabulations.

Table 79.-- MARITAL DISSOLUTION: 1970 TO 1988

Subject	1970	1980	1988	Percent		
				1970	1980	1988
Married couples <u>1/</u> .....	154,678	185,698	237,534	100.0	100.0	100.0
Marriages ended .....	4,466	6,782	7,896	2.9	3.7	3.3
By divorce .....	2,589	4,438	5,020	1.7	2.4	2.1
By death .....	1,877	2,344	2,876	1.2	1.3	1.2
Husbands .....	1,312	1,678	2,069	0.8	0.9	0.9
Wives .....	565	666	807	0.4	0.4	0.3

1/ Figure for 1988 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; U.S. Bureau of the Census, Current Population Survey (see table 33).

Table 80.-- 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.