

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, morbidity, hospitals, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth was 74.11 years for males and 77.94 years for females in 1975. The crude death rate in 1978 was only 5.4 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 12.3 in 1977. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for one-fifth. The 1978 crude birth rate was 18.7 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,821 in 1975. Over 97 percent of all babies were born in hospitals in 1977, and over one-fifth were born to military couples. One out of seven births was illegitimate. There were 6,685 fetal deaths in 1977, including 5,050 elective abortions. Marriages numbered 10,731 in 1978, with about 23 percent accounted for by nonresidents. Divorces reached a 1978 total of 4,837. The State had 22 acute care civilian hospitals (with 2,241 beds), 32 skilled nursing and intermediate care facilities (with 2,133 beds), and 253 care homes (with 1,666 beds) in 1977. There were 1,500 physicians and surgeons, 594 dentists, 5,127 professional nurses, and 340 pharmacists licensed and living in Hawaii as of July 1978. Acute conditions per 100 persons averaged 199 per year in 1972-1974, with respiratory conditions the most common complaint (at 136 cases per 100 persons). Among chronic conditions reported in the 1972-1974 survey data, the most frequently mentioned were hypertension without heart involvement (5.8 per 100 persons), hay fever (4.4), and asthma (3.6). The most common communicable disease reported to authorities in 1977 was scarlet fever, with 5,919 cases. Dental health was only fair: the average number of decayed, missing or filled teeth when last surveyed was 6.85 for intermediate school students and 10.61 for those in high school.

Major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health and various publications of the U.S. Public Health Service. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1978 contain similar data for the nation as a whole.

Table 26 .-- BIRTHS AND DEATHS: 1968 TO 1978

[Place of occurrence basis]

Calendar year	Births	Deaths <u>1/</u>	Rates per 1,000 resident population		Rates per 1,000 live births		
			Births	Deaths <u>1/</u>	Illegiti- mate births	Fetal deaths <u>2/</u>	Infant deaths <u>3/</u>
1968	14,595	4,250	19.9	5.8	94.8	14.3	19.0
1969	15,690	4,214	20.9	5.6	96.6	13.7	19.2
1970	16,467	4,197	21.3	5.4	95.8	20.6	19.1
1971	15,845	4,351	19.9	5.5	88.4	23.5	16.0
1972	15,413	4,483	18.8	5.5	93.0	22.8	17.5
1973	15,358	4,579	18.2	5.4	104.0	16.4	13.7
1974	15,528	4,598	18.2	5.4	108.8	16.3	16.0
1975	15,766	4,572	18.2	5.3	123.2	18.9	13.7
1976	16,409	4,717	18.6	5.3	125.0	20.8	11.2
1977	16,983	4,725	19.1	5.3	143.3	21.6	12.3
1978	16,755	4,859	18.7	5.4	(NA)	(NA)	(NA)

NA Not available.

1/ Includes armed forces.

2/ 20 weeks gestation and over. Includes elective abortions.

3/ Under 1 year of age.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R&S Report, No. 5 (June 1974); Statistical Report for 1973-1977; and "Vital Statistics Summary, 1978."

Table 27.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1976 TO 1978

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
De facto population: <u>1/</u>						
1976	952,700	57,800	894,900	67,000	827,900	124,800
1977	969,200	56,500	912,700	65,000	847,700	121,500
1978 <u>2/</u> ...	984,700	56,500	928,200	61,100	867,100	117,600
Live births:						
1976	16,409	-	16,409	3,803	12,606	3,803
1977	16,983	-	16,983	3,771	13,212	3,771
1978	16,762	-	16,762	3,665	13,067	3,665
Deaths:						
1976	4,717	67	4,650	161	4,489	228
1977	4,724	76	4,648	156	4,492	232
1978	4,860	86	4,774	147	4,627	233
Birth rate: <u>3/</u>						
1976	17.2	0	18.3	56.8	15.2	30.5
1977	17.5	0	18.6	58.0	15.6	31.0
1978	17.0	0	18.1	60.0	15.1	31.2
Death rate: <u>3/</u>						
1976	5.0	1.2	5.2	2.4	5.4	1.8
1977	4.9	1.3	5.1	2.4	5.3	1.9
1978	4.9	1.5	5.1	2.4	5.3	2.0

1/ Estimates for armed forces are from the Bureau of the Census; for dependents, from annual DPED survey of local commanding officers.

2/ Provisional.

3/ Per 1,000 de facto population. For rates based on resident population, see preceding table.

Source: Population from Hawaii State Department of Planning and Economic Development, Statistical Report 131 (April 2, 1979), table 1; births and deaths from Hawaii State Department of Health, Statistical Report (annual) and records.

Table 28.-- CHARACTERISTICS OF BIRTHS AND DEATHS: 1967 TO 1977

Subject	1967 <u>1/</u>	1976 <u>2/</u>	1977 <u>2/</u>
LIVE BIRTHS			
Number <u>3/</u>	14,735	16,292	16,874
Percent on Oahu <u>3/</u>	85.0	79.9	79.4
Males per 100 females <u>3/</u>	106.5	107.2	106.1
Percent attended by M.D. in hospital	99.5	97.3	97.4
Percent with prenatal visit in first 3 months ...	51.3	70.4	70.2
Percent of mixed race <u>4/</u>	42.2	44.4	46.0
Median age of mother (years)	25.2	25.5	25.6
Percent first births to mother	33.4	36.6	35.4
Median weight of single births (grams)	3,199	3,260	3,272
Percent of births plural	1.6	1.8	1.8
Percent of births premature (under 2,500 grams) ..	8.8	7.2	7.5
Percent with one or more congenital malformations.	1.0	0.9	0.8
DEATHS, ALL AGES			
Number <u>3/</u>	3,732	4,349	4,349
Percent on Oahu <u>3/</u>	72.0	72.4	74.5
Males per 100 females	159.7	152.7	152.1
Median age (years)	66.2	67.8	67.6
INFANT DEATHS			
Number, under 1 year	250	172	196
Rate per 1,000 live births:			
Under 1 day	8.9	4.2	5.0
Under 1 week	12.1	6.3	6.8
Under 1 month	13.4	7.7	7.9
Under 1 year	16.9	10.6	11.6
FETAL DEATHS			
Total	1,007	6,838	6,685
Rate per 1,000 deliveries	64	296	284
Fetal deaths, 20 or more weeks gestation	202	334	367
Standard fetal deaths	190	1,724	1,578
Elective abortions	12	5,163	5,050
Per 1,000 live births	0.8	317	299

1/ Unless otherwise specified, on a place of occurrence basis. Data for deaths (all ages) exclude armed forces.

2/ Place of residence basis. Data include armed forces.

3/ Data for all years are on a place of residence basis.

4/ All Part Hawaiian babies are classified as being of mixed race.

Base excludes births with unknown parentage.

Source: Hawaii State Department of Health, Statistical Report for 1967, 1976, and 1977.

Table 29.-- CAUSE OF DEATH: 1967 AND 1977

[Place of residence basis.]

Cause of death <u>1/</u>	Number, 1977	Percent distribution		Rate per 100,000 population	
		1977	1967 <u>2/</u>	1977	1967 <u>2/</u>
All causes	4,349	100.0	100.0	486.1	513.0
Diseases of the heart	1,323	30.4	32.8	147.9	168.2
Malignant neoplasms	1,121	25.8	18.6	125.3	95.6
Cerebrovascular diseases	358	8.2	8.3	40.0	42.5
All accidents	241	5.5	7.5	26.9	38.6
Influenza and pneumonia	150	3.4	4.3	16.8	22.2
Suicide	111	2.6	1.7	12.4	8.8
Certain causes of mortality in early infancy	90	2.1	3.7	10.1	19.1
Diabetes Mellitus	86	2.0	2.9	9.6	14.9
Cirrhosis of liver	74	1.7	1.5	8.3	7.5
Congenital anomalies	57	1.3	2.1	6.4	10.5
Homicide and legal intervention	55	1.3	0.5	6.1	2.5
Bronchitis, emphysema, and asthma <u>3/</u>	49	1.1	1.2	5.5	6.6
Symptoms and ill-defined causes	46	1.1	0.7	5.1	4.0
All other causes	359	8.3	12.3	40.1	62.9

1/ The leading causes of death in 1977, listed in order of deaths for that year.

2/ Excludes armed forces deaths.

3/ Excludes emphysema in 1967.

Source: Statistical Report, Department of Health, State of Hawaii, 1977, p. 25.

Table 30.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION:
1967, 1976, AND 1977

Method	1967 <u>1/</u>	1976 <u>2/</u>	1977 <u>2/</u>	Percent distribution		
				1967 <u>1/</u>	1976 <u>2/</u>	1977 <u>2/</u>
All methods ..	3,897	4,719	4,725	100.0	100.0	100.0
Burial	2,117	2,249	2,213	54.3	47.7	46.8
Cremation	1,422	1,893	1,931	36.5	40.1	40.9
Removal	331	571	573	8.5	12.1	12.1
Other and unknown .	27	6	8	0.7	0.1	0.2

1/ Excludes armed forces deaths.

2/ Includes armed forces deaths.

Source: Hawaii State Department of Health, Statistical Report for 1967, 1976, and 1977.

Table 31.-- SELECTED LIFE TABLE VALUES: 1975

Exact age in years (x)	Average expectation of life in years (e_x)		Number surviving to specified age per 1,000 born alive (l_x)	
	Male	Female	Male	Female
Birth	74.03	77.85	1,000	1,000
Age 25	51.36	54.36	966	980
Age 45	32.97	35.32	929	958
Age 65	17.43	17.94	768	863

Source: Hawaii State Department of Health, "Life Tables by Ethnic Group for Hawaii, 1920-1970" (by Chai Bin Park, Robert W. Gardner, and Eleanor C. Nordyke), R & S Report, No. 26, June 1979, p. 27.

Table 32.-- HOSPITAL AND CARE HOME FACILITIES AND USE, BY CATEGORY: 1977

Category	Number of institutions <u>1/</u>	Beds	Admissions	Daily census	Length of stay	Percent occupancy
Acute care hospitals:						
Civilian	22	2,241	94,679	1,523.7	5.9	68.0
Military	1	566	19,826	431.2	7.9	76.2
Specialty long-term care hospitals	8	1,029	1,817	894.6	208.5	86.9
Skilled nursing and intermediate care facilities:						
Oahu	19	1,466	1,758	1,414.1	302.7	96.5
Other islands	13	667	1,107	646.9	177.8	97.0
Care homes:						
Residential	22	775	...	...	...	...
Family	231	891	...	...	...	...

1/ Some institutions are included in more than one category.
Source follows next table.

Table 33.-- HOSPITAL AND CARE HOME BEDS, BY GEOGRAPHIC AREA: 1977

Geographic area	Total beds	In acute care hospitals		In spec. long-term care hospitals <u>1/</u>	In skilled nursing and int. care fac.	In care homes
		Civilian	Military			
State total ..	7,635	2,241	566	1,029	2,133	1,666
Oahu	6,016	1,660	566	985	1,466	1,339
Honolulu	(NA)	1,427	566	153	(NA)	(NA)
Suburban	(NA)	233	-	832	(NA)	(NA)
Hawaii County	687	267	-	-	306	114
Maui County	553	180	-	24	240	109
Lanai	14	6	-	-	8	-
Maui	420	149	-	-	226	45
Molokai	119	25	-	24	6	64
Kauai County	379	134	-	20	121	104

NA Not available.

1/ Includes leprosy, psychiatric, tuberculosis, orthopedic, and mentally retarded.

Source: Statistical Report, Department of Health, State of Hawaii, 1977, pp. 57-60 and 119.

Table 34.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1967 TO 1978

Year <u>1/</u>	Patients active, end of period			Admissions		Term- ina- tions	Patients served (undup.)
	Total	In- patients	Out- patients	Total	Undupli- cated		
1967 ..	(NA)	(NA)	2,797	4,212	2,299	(NA)	5,569
1968 ..	(NA)	(NA)	3,222	4,463	(NA)	(NA)	(NA)
1969 ..	(NA)	(NA)	3,762	5,084	(NA)	(NA)	(NA)
1970 ..	(NA)	(NA)	3,199	5,349	(NA)	(NA)	(NA)
1971 ..	(NA)	(NA)	4,905	(NA)	(NA)	(NA)	(NA)
1972 ..	5,327	333	4,994	(NA)	(NA)	(NA)	(NA)
1973 ..	6,052	320	5,732	5,220	(NA)	4,368	9,851
1974 ..	6,500	334	6,166	5,073	4,789	4,618	10,522
1975 ..	7,090	367	6,723	5,233	4,947	4,633	11,101
1976 ..	6,979	321	6,658	5,533	5,174	5,684	11,935
1977 ..	6,905	226	6,679	5,453	5,171	5,529	11,806
1978 ..	6,886	263	6,623	5,441	5,068	5,522	11,642

NA Not available.

1/ Years ended June 30 through 1971 and calendar years thereafter.

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

Table 35.-- SPECIFIED COMMUNICABLE DISEASES: 1967 TO 1977

Disease	Cases			Deaths		
	1967	1976	1977	1967	1976	1977
All reportable diseases .	11,034	15,377	14,198	36	23	24
Chickenpox	879	1,047	948	-	1	-
Gonorrhea	685	3,591	4,256	-	-	-
Hepatitis, infect. & serum ...	55	240	239	1	7	5
Influenza	613	2,624	585	1	4	1
Leprosy	13	34	27	2	-	-
Measles (Rubeola)	239	11	51	-	-	-
Measles, German (Rubella)	356	22	438	-	-	-
Meningitis	220	96	84	13	7	11
Mumps	3,187	49	42	-	-	-
Salmonellosis	602	475	603	-	-	1
Scarlet fever, other strep. ..	3,036	5,905	5,919	-	-	-
Syphilis	134	181	89	1	-	-
Tuberculosis	351	665	584	15	3	6
All others	664	437	333	3	1	-

Source: Hawaii State Department of Health, Annual Report, Statistical Supplement (annual).

Table 36.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF RESIDENCE: JULY 7, 1978

Place of residence	Physicians and surgeons <u>1/</u>	Dentists	Registered nurses	Pharmacists
Total licensed	2,254	788	6,818	513
Hawaii residents	1,500	594	5,127	340
Hawaii	96	49	388	25
Maui	83	26	323	25
Lanai	1	1	11	-
Molokai	5	5	25	2
Oahu	1,263	494	4,201	274
Kauai	52	19	179	14
Niihau	-	-	-	-
Nonresidents	754	194	1,691	173

1/ Permanent only.

Source: Hawaii State Department of Regulatory Agencies, Professional and Vocational Licensing Division, records.

Table 37.-- MARRIAGES AND DIVORCES: 1970 TO 1978

[Place of occurrence basis]

Calendar year	Marriages	Divorces and annulments <u>1/</u>	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces <u>1/</u>	Resident groom	Inter-racial
1970	10,599	2,589	13.7	3.3	69.3	33.7
1971	9,734	3,691	12.2	4.6	77.3	38.7
1972	9,750	3,891	11.9	4.7	81.3	38.6
1973	9,776	4,170	11.6	4.9	84.7	40.6
1974	9,649	4,111	11.3	4.8	84.6	40.1
1975	9,673	4,265	11.1	4.9	84.4	39.6
1976	9,769	4,712	11.1	5.3	82.4	38.8
1977	10,266	4,601	11.5	5.1	79.3	37.5
1978	10,731	4,837	12.0	5.4	(NA)	(NA)

1/ Final decrees only. An interlocutory decree of one year was established May 8, 1965, reduced to six months on July 3, 1969, and abolished July 1, 1971.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R & S Report, No. 5 (June 1974); Annual Report, Statistical Supplement for 1970-1977; and "Vital Statistics Summary, 1978."

Table 38.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1967 TO 1977

[Place of occurrence basis.]

Subject	1967	1976	1977
MARRIAGES			
Number	7,345	9,769	10,266
Percent on Oahu	86.7	78.0	74.8
Percent Hawaii residents:			
Both bride and groom	76.7	79.6	76.5
One partner only	8.9	5.5	5.6
Neither bride nor groom	14.4	14.9	17.9
Median age (years):			
Groom	24.5	27.0	30.0
Bride	22.9	24.5	27.0
Percent previously married:			
Groom	18.5	33.4	35.3
Bride	19.5	32.2	33.8
DIVORCES AND ANNULMENTS			
Number	1,451	4,712	4,601
Divorces	1,424	4,687	4,587
Annulments	27	25	14
Percent occurring on Oahu	88.9	83.6	80.4
Percent nonresident:			
Husband	10.5	11.0	11.4
Wife	14.4	12.4	11.4
Neither partner	75.1	76.6	77.2
Median age (years):			
Husband	36.2	31.6	32.3
Wife	32.6	29.0	29.6
Percent interracial	35.7	37.6	38.4
Percent with children under 18 years .	60.0	58.5	57.3
Median years married	7.4	5.5	5.8

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

Table 39.-- MARRIAGES, TOTAL AND INTERRACIAL, BY RACE OF GROOM AND BRIDE: 1977

Race	All marriages		Interracial marriages		Percent interracial	
	Grooms	Brides	Grooms	Brides	Grooms	Brides
All race .	10,266	10,266	3,850	3,850	37.5	37.5
Caucasian	5,110	4,798	1,248	936	24.4	19.5
Hawaiian	73	48	65	40	89.0	83.3
Part Hawaiian .	1,338	1,403	725	790	54.1	56.3
Chinese	338	409	206	277	60.9	67.7
Filipino	989	1,070	476	557	48.1	52.0
Japanese	1,468	1,595	567	694	38.6	43.5
Puerto Rican ..	132	106	108	82	81.8	77.3
Korean	128	304	69	245	53.9	80.5
Samoaan	156	147	64	55	41.0	37.4
Negro	356	185	201	30	56.4	16.2
Other races ...	175	199	119	148	68.0	71.8
Unknown	3	2	2	1	...	...

Source: Hawaii State Department of Health, Statistical Report, 1977, p. 51.