

Section 2
Vital Statistics and Health

This section presents vital statistics -- data on births, deaths, marriages, divorces -- and data on morbidity, hospitals, and related subjects. The leading sources for such information are the Annual Report, Department of Health, State of Hawaii, Statistical Supplement and The Hawaii Health Survey, Description and Selected Results, Oahu, Hawaii, October 1958-September 1959. The latter study was published by the U. S. Department of Health, Education, and Welfare, Public Health Service, which also issues an annual report, Vital Statistics of the United States. Detailed data can be obtained from personnel of the Research, Planning and Statistics Office of the State Department of Health. Section 2 of the Statistical Abstract of the United States: 1961 presents comparable data for the United States.

Table 1.--VITAL EVENTS OCCURRING IN HAWAII: ANNUAL AVERAGES, 1900 TO 1961

Years	Live births	Deaths ¹	Marriages	Divorces	Deaths under 1 year	Maternal deaths	Still-births ²
1900-1904 ³	2,094	2,685	1,183	(NA)	643	36	89
1905-1909 ⁴	3,632	2,845	1,684	(NA)	788	39	97
1910-1914.....	5,552	3,330	2,783	(NA)	1,077	44	163
1915-1919.....	8,731	3,787	2,506	(NA)	1,204	66	277
1920-1924.....	11,281	4,308	2,621	561	1,348	78	378
1925-1929.....	11,920	4,108	2,656	616	1,166	75	384
1930-1934.....	10,144	3,673	2,651	558	776	62	303
1935-1939.....	9,023	3,329	3,533	756	577	36	219
1940-1944.....	10,903	3,002	5,676	1,359	414	24	198
1945-1949.....	13,657	3,003	5,551	1,321	390	15	192
1950-1954.....	15,286	2,863	5,635	1,243	342	9	210
1955-1959.....	16,845	3,146	5,034	1,287	384	6	242
1960.....	17,193	3,456	5,237	1,270	399	5	261
1961.....	17,560	3,366	5,298	1,556	382	9	254

Footnotes and source reference follow table 2.

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Table 2.--VITAL EVENTS OCCURRING IN HAWAII: ANNUAL RATES, 1900 TO 1961

Years	Per 1,000 population				Per 1,000 live births		
	Live births	Deaths ¹	Marriages	Divorces	Deaths under 1 year	Maternal deaths	Stillbirths ²
1900-1904 ³	12.9	16.6	7.4	(NA)	273.6	11.5	33.0
1905-1909 ⁴	20.1	15.7	9.3	(NA)	202.6	10.8	26.6
1910-1914.....	26.5	15.9	13.3	(NA)	194.0	7.9	29.3
1915-1919.....	35.2	15.3	10.1	(NA)	137.9	7.6	31.7
1920-1924.....	39.5	15.1	9.2	2.0	119.5	6.9	33.5
1925-1929.....	35.2	12.1	7.8	1.8	97.8	6.3	32.2
1930-1934.....	26.9	9.7	7.0	1.5	76.5	6.1	29.8
1935-1939.....	22.5	8.3	8.8	1.9	63.9	3.5	24.3
1940-1944 ⁵	24.8	6.8	12.9	3.1	38.0	2.2	18.2
1945-1949 ⁵	28.7	6.3	11.7	2.8	28.6	1.1	14.0
1950-1954 ⁵	32.5	6.1	12.0	2.6	22.3	0.6	13.8
1955-1959 ⁵	31.4	5.9	9.4	2.4	22.8	0.4	14.4
1960 ⁵	28.9	5.8	8.8	2.1	23.2	0.3	15.1
1961 ⁵	28.7	5.5	8.6	2.5	21.8	0.5	14.5

NA Not available.

¹Excludes deaths to military personnel beginning in 1941.

²Fetal deaths of 20 weeks or longer gestation.

³Based on 1901-1904 data for marriages, 1902 data for deaths under 1 year, and 1902-1904 data for maternal deaths and stillbirths.

⁴Deaths under 1 year based on 1906-1909 data.

⁵Annual rates for live births, deaths, marriages and divorces based on civilian population only beginning in 1941.

Source: Hawaii Department of Health, records.

Table 3.--CHILDREN UNDER 5 PER 1,000 WOMEN 15 TO 44: 1872 TO 1960

Year	Ratio	Year	Ratio	Year	Ratio
1872.....	454	1896.....	727	1930.....	767
1878.....	545	1900.....	575	1940.....	455
1884.....	570	1910.....	697	1950.....	569
1890.....	612	1920.....	781	1960.....	603

Source: Hawaii Department of Planning and Research, Population Trends in Hawaii, 1778-1960 (Research Report 3, April 11, 1961).

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Table 4.--FERTILITY, BY RACE: 1950

Subject	All races	Haw'n, pt. Haw'n	Cau- casian	Chi- nese	Fili- pino	Jap- anese	Other races
Children ever born per 1,000 females 45 & over..	4,566	4,561	2,986	5,115	5,450	5,261	5,329
Children under 5 per 1,000 women 15-44.....	570	860	487	496	902	462	609

Source: U. S. Bureau of the Census, U. S. Census of Population: 1950, De-
tailed Characteristics, Hawaii.

Table 5.--ABRIDGED LIFE TABLE: 1949-1951

Period of life between two exact ages, in years (x to x / n)	Proportion of persons alive at beginning of interval dying during interval (n^d_x)	Number living at beginning of interval (l_x)	Number dying during interval (n^d_x)	Average number of years of life remaining at beginning of interval (o_{e_x})
Male:				
0-1.....	0.028841	100,000	2,884	67.76
20-25.....	.006937	95,374	667	50.86
40-45.....	.019813	91,755	1,818	32.41
60-65.....	.118271	74,921	8,861	16.79
80-85.....	.432600	27,473	11,885	6.93
Female:				
0-1.....	0.021663	100,000	2,166	71.27
20-25.....	.004301	96,550	415	53.71
40-45.....	.019114	93,930	1,795	34.87
60-65.....	.096247	81,142	7,810	18.42
80-85.....	.382343	36,460	13,940	7.16

Source: Hawaii Department of Health, Abridged Life Tables by Sex, Territory
of Hawaii, 1939-1941 and 1949-1951 (1957).

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Table 6.--LIVE BIRTHS: 1960

Subject	Number	Subject	Number
Total ¹	17,193	Males per 1,000 females.....	1,064
Place of occurrence:		Gestation period: percent	
Hawaii County.....	1,226	under 40 weeks.....	16.5
Honolulu County.....	14,478	Median birth weight (grams)..	3,214
Kalawao County.....	-	Percent attended by physician	
Kauai County.....	592	in hospital.....	99.1
Maui County.....	897	Percent first born to mother.	25.1
Race of child:		Percent plural births.....	1.7
Caucasian.....	5,048	Percent with father in armed	
Hawaiian.....	90	forces.....	29.5
Part Hawaiian.....	4,695	Percent with both parents of	
Chinese.....	721	same race.....	69.5
Filipino.....	1,892	Median age (years):	
Japanese.....	3,852	Father.....	29.4
Other races.....	895	Mother.....	26.1

¹By place of occurrence; births to Hawaii residents numbered 17,177.

Table 7.--ILLEGITIMATE BIRTHS: 1960

Subject	Number	Per 1,000 births	Subject	Number	Per 1,000 births
The State.....	882	51.3	By race of child:		
By county of residence:			Caucasian.....	140	27.8
Hawaii County.....	68	55.8	Hawaiian.....	36	400.0
Honolulu County.....	738	51.0	Part Hawaiian.....	411	87.6
Kalawao County.....	-	0	Chinese.....	18	25.0
Kauai County.....	24	41.0	Filipino.....	133	70.3
Maui County.....	52	58.3	Japanese.....	76	19.7
			Other races.....	68	76.0

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Table 8.--CIVILIAN DEATHS: 1960

Subject	Deaths	Subject	Deaths
Total ¹	3,540	Cause:	
County:		Tuberculosis.....	13
Hawaii County.....	497	Other infect. diseases.....	24
Honolulu County.....	2,561	Cancer and other malignant neoplasms.....	614
Kalawao County.....	1	Asthma.....	32
Kauai County.....	209	Diabetes mellitus.....	92
Maui County.....	272	Cerebral hemorrhage.....	311
Age:		Diseases of the heart.....	1,183
Under 1 year.....	399	Other circulatory diseases..	107
1 to 4 years.....	52	Influenza, pneumonia.....	130
5 to 14 years.....	66	Ulcers.....	22
15 to 24 years.....	83	Diarrhea, enteritis.....	16
25 to 44 years.....	304	Cirrhosis of liver.....	45
45 to 64 years.....	957	Nephritis.....	48
65 to 74 years.....	738	Deliveries and complications of pregnancy, childbirth, puerperium.....	5
75 years and over....	941	Congenital malformations....	79
Sex:		Diseases of early infancy...	270
Male.....	2,209	Motor vehicle accidents.....	95
Female.....	1,331	Tidal wave.....	57
Race:		Other accidents.....	85
Caucasian.....	875	Suicide.....	47
Hawaiian.....	233	Homicide.....	20
Part Hawaiian.....	449	All other causes.....	245
Chinese.....	265	Method of disposition:	
Filipino.....	431	Burial.....	2,118
Japanese.....	1,094	Cremation.....	1,219
Other races.....	193	Other.....	203

¹By place of occurrence; deaths to Hawaii residents numbered 3,456. Excludes 56 military deaths occurring in Hawaii.

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Table 9.--INFANT DEATHS: 1960

Subject	Number	Per 1,000 births	Subject	Number	Per 1,000 births
Under 1 year ¹	399	23.2	Race of child:		
Age at death:			Caucasian.....	98	19.4
Under 1 day.....	191	11.1	Hawaiian.....	5	55.6
1 to 27 days.....	125	7.3	Part Hawaiian...	120	25.6
28 to 364 days.....	83	4.8	Chinese.....	20	27.7
Place of occurrence:			Filipino.....	45	23.8
Hawaii County.....	29	23.6	Japanese.....	84	21.8
Honolulu County.....	341	23.6	Other races.....	27	30.2
Kauai County.....	12	20.3	Sex:		
Maui County.....	17	19.0	Male.....	222	25.0
			Female.....	177	21.2

¹By place of occurrence; infant deaths to Hawaii residents numbered 396, with a rate of 23.0.

Table 10.--FETAL DEATHS: 1960

Gestation period (weeks)	Deaths
Total.....	1,026
Under 12 weeks.....	572
12 to 19 weeks.....	193
20 to 27 weeks.....	87
28 to 35 weeks.....	66
36 to 39 weeks.....	40
40 weeks and over.....	52
Unknown.....	16

Table 11.--MATERNAL DEATHS: 1960

Age of mother	Number	Per 1,000 births
All ages....	5	0.29
Under 25 years...	1	0.13
25 to 34 years...	2	0.25
35 years or over.	2	1.23

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Table 12.--MARRIAGES AND DIVORCES OR ANNULMENTS: 1960

Subject	Marriages	Subject	Divorces or annulments
Marriages ¹	5,237	Divorces and annulments ¹ ...	1,270
Hawaii County.....	426	Divorces.....	1,241
Honolulu County.....	4,359	Annulments.....	29
Kalawao County.....	1	Percent occurring on Oahu..	88.9
Kauai County.....	165	Percent interracial.....	36.9
Maui County.....	286	Percent of grooms in	
Percent interracial.....	37.3	armed forces.....	16.5
Percent of grooms in armed		Percent with children	
forces.....	25.5	under 18.....	72.8
Previously married (percent):		Median age (years):	
Grooms.....	20.4	Grooms.....	34.3
Brides.....	22.7	Brides.....	31.3
Median age (years):		Cause (percent):	
Grooms.....	25.5	Desertion.....	8.8
Brides.....	23.1	Mental suffering.....	79.9
		All others.....	11.3

¹By place of occurrence. Includes 4,921 marriages and 991 divorces and annulments in which both partners were Hawaii residents, 233 marriages and 277 divorces in which one partner was a resident and the other a non-resident, and 83 marriages and 2 divorces in which both partners were non-residents.

Table 13.--SELECTED COMMUNICABLE DISEASES: 1960

Disease	Cases	Deaths	Disease	Cases	Deaths
Chicken pox.....	1,510	-	Mumps.....	1,651	-
Gonorrhoea.....	252	-	Pneumonia, infect....	337	122
Hansen's Disease.....	20	2	Poliomyelitis, par...	8	-
Influenza.....	3,203	7	Salmonellosis.....	183	-
Measles.....	5,033	2	Tuberculosis.....	462	13

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Table 14.--HOSPITAL STATISTICS: 1960

Type of program	Hos- pitals with program ¹	Beds		Bassi- nets	Aver- age cen- sus	Per- cent occu- pancy	Ad- missions
		Total	Accept- able ²				
Civilian hospitals..	34	5,087	4,145	393	3,626	71	82,327
General.....	23	2,147	1,695	292	1,128	52	66,933
Allied special ³	4	281	281	101	173	62	11,605
Tuberculosis.....	5	673	673	-	480	71	604
Mental.....	4	1,207	1,207	-	1,350	111	1,922
Long-term.....	8	319	289	-	218	68	1,248
Hansen's Disease.....	2	460	-	-	276	60	15
Military hospital ⁴	1	1,000	1,000	63	652	65	19,400

¹Includes 19 civilian hospitals on Oahu and 15 on other islands (6 on Hawaii, 3 on Maui, 3 on Kauai, 2 on Molokai, and 1 on Lanai). Many hospitals offer more than one type of program.

²Based on federally approved criteria.

³Includes 1 pediatrics program, 1 orthopedic, 1 maternity and gynecological, and 1 rehabilitation.

⁴Data supplied by Tripler Army Hospital.

Table 15.--MOVEMENT OF WARD POPULATION AT WAIMANO TRAINING SCHOOL AND HOSPITAL (FOR THE MENTALLY RETARDED): JULY 1, 1959 TO JUNE 30, 1960

In-movement	Inmates	Out-movement	Inmates
Admissions.....	47	Home leave placement...	1,086
Return from home leave.	1,084	Death.....	20
Other in-movement.....	11	Other out-movement.....	13

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Table 16.--MOVEMENT OF PATIENTS AND CHARACTERISTICS OF ADMISSIONS, FOR HAWAII STATE HOSPITAL (PSYCHIATRIC): JULY 1, 1960 TO JUNE 30, 1961

Patient movement	Inmates	Characteristics of admissions	Inmates
Added.....	629	Number admitted.....	593
New admissions.....	289	Hawaiian or pt. Haw'n.....	90
Readmissions.....	160	Caucasian.....	201
Returned from cond. disch..	144	Chinese	24
Returned from escape.....	36	Filipino.....	65
Removed.....	623	Japanese.....	179
Fully discharged.....	170	Other races.....	34
Conditionally discharged...	360	Median age (years).....	37.7
Escaped.....	40	Males per 100 females.....	122.9
Deceased.....	53	Percent from Oahu.....	87.2
In residence, June 30.....	1,180		

Source of tables 6 to 16: Annual Report, Department of Health, State of Hawaii, Statistical Supplement, 1960.

Table 17.--PHYSICIANS AND DENTISTS: 1959

Profession	Number	Per 100,000 civilian residents
Physicians.....	620	104
Dentists.....	401	67

Source: U. S. Public Health Service data cited in Statistical Abstract of the United States: 1961, p. 69.

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Table 18.--HEALTH STATISTICS FOR THE CIVILIAN NON-INSTITUTIONAL POPULATION OF OAHU:
OCTOBER 1958 TO SEPTEMBER 1959

Subject	Number	Subject	Number
Estimated population.....	461,900	Restricted-activity days ¹ ...	5,380.7
Dental visits during year ¹	1,358	Per person per year.....	11.7
Visits per person.....	2.9	Bed-disability days ¹	2,299.1
Pct. of pop. visiting dentist...	53.0	Per person per year.....	5.0
Physician visits during year ¹ ...	2,605	Average persons each day	
Visits per person.....	5.6	with restricted activity:	
Hospital discharges ²	48,747	Heart condition.....	375
Per 1,000 persons ²	105.5	Asthma, hay fever.....	903
Hospital days ²	365,452	Arthritis, rheumatism...	514
Per 1,000 persons ²	791.2	Other chronic conditions	569
Per person discharged ²	7.5	Acute respiratory cond..	5,525
Acute conditions during year ¹ ...	1,264	Injuries.....	1,349
Per 100 persons.....	273.7	Other acute conditions..	1,277
Persons with chronic conditions.	151,900	Pct. of persons injured in	
Percent of population.....	32.9	year ³	34.7
		Motor vehicle involved..	1.5
		While at work.....	6.4
		Home.....	17.3
		Other.....	10.9

¹In thousands.

²Short-stay hospitals only.

³Detail adds to more than indicated total because same persons reported more than one class of accident.

Source: U. S. Department of Health, Education, and Welfare, The Hawaii Health Survey, Description and Selected Results. Oahu, Hawaii. October 1958-September 1959 (May 1960).