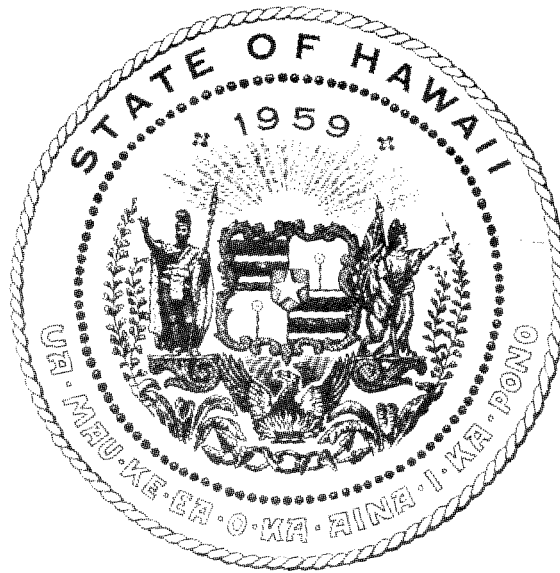


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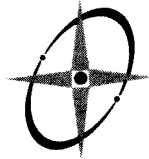
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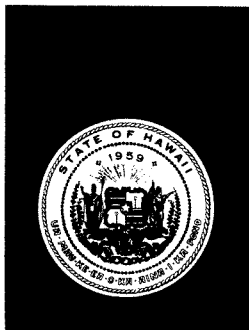
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THE STATE OF HAWAII
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A STATISTICAL ABSTRACT



STATE OF HAWAII.
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT.
HONOLULU, HAWAII
SEPTEMBER, 1973



STATE OF
HAWAII

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

P. O. BOX 2359 • HONOLULU, HAWAII 96804

JOHN A. BURNS
Governor

SHELLEY M. MARK
Director

EDWARD J. GREANEY, JR.
Deputy Director

The State of Hawaii Data Book: A Statistical Abstract is intended to serve as the standard official summary of statistics on the social, economic, and political organization of the State. Like its long-established counterpart, the *Statistical Abstract of the United States*, it may be used as either a convenient volume of statistical reference or a guide to other statistical publications and sources.

The present volume, containing statistics available in early 1973, is the seventh such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, 1970, 1971, and 1972. All except the 1972 edition are now out of print, but copies can be seen in many high school, university, and public libraries in Hawaii.

The *Data Book* closely follows the organization and format of the U.S. *Abstract*, in order to facilitate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the *Data Book* is given to the most recent available State data. Historical statistics and information for counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

Many Federal, State, County and private organizations cooperated in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged.

Shelley M. Mark

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SECTION 1

POPULATION

This section presents statistics on the growth, distribution, and characteristics of the population of Hawaii, and on the number and characteristics of migrants to and from the State.

Preliminary estimates for mid-1972 indicate a population of 808,560. This total includes approximately 50,000 members of the armed forces and 66,000 of their dependents. It excludes an average of 50,000 visitors present in 1972, while including an average of 9,000 residents who were temporarily out of the State. The total population has risen from 154,000 in 1900 and 423,000 in 1940 (although a wartime peak of 859,000 was reached in 1944). Eighty-one percent of the 1972 total lived on Oahu, giving that Island a density in excess of 1,100 persons per square mile. The population is young—50 percent were under 25 years of age in 1970—and racially diversified, over one-fourth of the total being the product of mixed marriages. Migration has been a major factor in the growth of the population: between 1960 and 1970, approximately 193,000 persons (excluding military personnel and their dependents) moved to the State, while 140,000 moved away. The in-migrants included 156,000 persons from the Mainland and over 36,000 from foreign countries, chiefly the Philippines.

The principal sources for these data are the decennial censuses (including final tabulations of the 1970 count), the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the sample survey conducted since 1969 by the Department of Health, and ongoing series maintained by the Hawaii Visitors Bureau and U.S. Immigration and Naturalization Service. The Department of Planning and Economic Development summarizes these data in two series of reports, each issued annually: *The Population of Hawaii* and *Hawaii's In-Migrants*. Comparable national statistics appear in sections 1 and 3 of *Statistical Abstract of the United States: 1972*.

Table 1.—POPULATION OF THE STATE OF HAWAII, ISLAND OF OAHU, AND CITY OF HONOLULU: 1778 TO 1972

Estimate or census date ¹	State of Hawaii	Island of Oahu	City of Honolulu ²	Estimate or census date ¹	State of Hawaii	Island of Oahu ³	City of Honolulu ²
1778-1779 ⁴	250,000	50,000	(NA)	1890: Dec. 28	89,990	31,194	22,907
1823	145,000	34,000	(NA)	1896: Sept. 27	109,020	40,205	29,920
1831-1832	130,313	29,755	13,344	1900: June 1	154,001	58,504	39,306
1835-1836	108,579	27,809	12,994	1910: April 15	191,874	81,993	52,183
1850: January	84,165	25,440	14,484	1920: January 1	255,881	123,496	81,820
1853: Dec. 26	73,138	19,126	11,455	1930: April 1	368,300	202,887	137,582
1860: Dec. 24	69,800	21,275	14,310	1940: April 1	422,770	257,696	179,358
1866: Dec. 7	62,959	19,799	13,521	1950: April 1	499,794	353,020	248,034
1872: Dec. 27	56,897	20,671	14,852	1960: April 1	632,772	500,409	294,194
1878: Dec. 27	57,985	20,236	14,114	1970: April 1	769,913	630,528	324,871
1884: Dec. 27	80,578	28,068	20,487	1972: July 1	808,560	660,125	(NA)

NA Not available.

¹Estimates for 1778-1779, 1823, and 1971, partial censuses (as supplemented by estimates) for 1831-1832 and 1835-1836, and official censuses for 1850 to 1970.

²The area from Maunalua to Moanalua, inclusive, plus minor outlying Islands legally part of the City of Honolulu.

³Data for 1940 and later years include minor outlying Islands legally part of the City and County of Honolulu.

⁴Other estimates for 1778-1779 range from 200,000 to 400,000 for the State and from 40,000 to 60,200 for Oahu.

Source: 1778-1779 and 1823 from Robert C. Schmitt, "New Estimates of the Pre-Censal Population of Hawaii," *The Journal of the Polynesian Society*, Vol. 80, No. 2, June 1971, pp. 237-243; 1831 to 1960 from Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 42, 70, and 116; 1970 from *U.S. Census of Population: 1970*, Final Report PC(1)-A13, tables 1 and 10 and correction note; 1972 from Hawaii State Department of Planning and Economic Development, Statistical Report 95 (May 2, 1973), table 1.

Table 2.—POPULATION OF HAWAII, BY GEOGRAPHIC AREA: 1831 TO 1970

Geographic area	1831	1878	1910	1940	1960	1970
The State	129,814	57,985	191,874	422,770	632,772	769,913
Oahu ¹	29,745	20,236	81,993	257,696	500,409	630,528
Honolulu ¹	13,344	14,114	52,183	179,358	294,194	324,871
Rest of Oahu	16,401	6,122	29,810	78,338	206,215	305,657
Other islands	100,069	37,749	109,881	165,074	132,363	139,385
Hawaii	45,700	17,034	55,382	73,276	61,332	63,468
Maui	35,062	12,109	28,623	46,919	35,717	38,691
Kahoolawe	80	—	2	1	—	—
Lanai	1,200	214	131	3,720	2,115	2,204
Molokai	6,000	2,581	1,791	5,340	5,023	5,261
Kauai	10,947	5,634	23,744	35,636	27,922	29,524
Niihau	1,080	177	208	182	254	237
Urban ²	13,344	14,114	58,928	264,262	483,961	643,222
Rural	116,470	43,871	132,946	158,508	148,811	126,691
PERCENT DISTRIBUTION						
Oahu ¹	22.9	34.9	42.7	61.0	79.1	81.9
Honolulu ¹	10.3	24.3	27.2	42.4	46.5	42.2
Rest of Oahu	12.6	10.6	15.5	18.5	32.6	39.7
Other islands	77.1	65.1	57.3	39.0	20.9	18.1
Urban ²	10.3	24.3	30.7	62.5	76.5	83.5
Rural	89.7	75.7	69.3	37.5	23.5	16.5

¹Includes the Northwestern Hawaiian Islands (except Midway) and, before 1960, the Palmyra Islands.

²Limited to Honolulu before 1910.

Source: Robert C. Schmitt, *The Missionary Censuses of Hawaii* (Bishop Museum, May 1973), table, p. 9, and *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 70 and 115-116; U.S. Bureau of the Census, *U.S. Census of Population: 1970*, Final Report PC(1)-A13, table 9, as corrected.

Table 3.—ESTIMATED POPULATION, BY MILITARY STATUS: 1940 TO 1972

Date (July 1 unless otherwise specified)	Resident population ¹					De facto population ²
	Total	Armed forces	Civilian population			
			Total	Military dependents	Other civilians	
1940: April 1 ³	423,330	28,208	395,122	—	—	424,592
July 1	427,884	30,041	397,843	—	—	429,177
1941	459,335	48,187	411,148	—	—	460,939
1942	582,026	135,907	446,119	—	—	582,026
1943	649,650	199,832	449,818	—	—	649,650
1944	858,945	406,811	452,134	—	—	858,945
1945	814,601	354,734	459,867	—	—	814,601
1946	545,439	65,731	479,708	—	—	545,476
1947	526,238	38,673	487,565	—	—	526,910
1948	517,013	32,849	484,164	—	—	518,432
1949	511,039	30,681	480,358	—	—	512,335
1950: April 1	499,794	20,575	479,219	—	—	501,686
July 1	497,980	20,063	477,917	—	—	500,073
1951	514,256	44,188	470,068	—	—	516,681
1952	517,378	57,260	460,118	—	—	520,252
1953	509,947	47,215	462,732	—	—	513,711
1954	505,461	37,762	467,699	—	—	509,725
1955	539,292	56,807	482,485	—	—	544,116
1956	558,575	57,246	501,329	—	—	564,192
1957	584,466	59,581	524,885	—	—	591,079
1958	605,356	55,011	550,345	—	—	611,767
1959	622,087	56,596	565,491	—	—	630,479
1960: April 1	632,772	53,888	578,884	60,057	518,827	641,519
July 1	641,520	59,183	582,337	60,261	522,076	651,185
1961	658,684	60,812	597,872	62,033	535,839	668,224
1962	683,513	78,977	604,536	63,231	541,305	693,634
1963	682,241	59,562	622,679	61,495	561,184	694,503
1964	699,858	73,174	626,684	69,090	557,594	711,158
1965	703,804	53,381	650,423	65,816	584,607	715,428
1966	710,325	54,058	656,267	62,622	593,645	724,581
1967	722,528	55,981	666,547	61,301	605,246	742,639
1968	734,456	57,013	677,443	59,133	618,310	758,839
1969	750,228	48,474	701,754	59,697	642,057	778,848
1970: April 1	769,913	55,142	714,771	61,858	652,913	797,308
July 1	773,212	53,238	719,974	57,781	662,193	800,961
1971	790,413	50,802	739,611	62,181	677,430	821,812
1972	808,560	51,971	756,589	66,222	690,367	850,255

¹Includes residents temporarily absent; excludes visitors present. Also excludes former Hawaii residents attending school or serving in the armed forces on the Mainland or abroad. Data on the military status of civilians not available before 1960.

²Includes visitors present; excludes residents temporarily absent. Estimates for these components are annual averages centered on the estimate date.

³Includes 560 persons on the Midway Islands and other minor outlying Islands, not part of the Territory of Hawaii but included for census purposes in 1940.

Source: Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1972* (Statistical Report 95, May 2, 1973), table 1.

Table 4.—ESTIMATED POPULATION, 1970 TO 1972, AND DENSITY, 1972, BY ISLAND

Subject	State total	City and County of Honolulu	Other Counties						
			Total	Hawaii County	Kauai County	Maui County ¹			
						Total	Lanai	Maui	Molokai
Total resident population:²									
1970: April 1	769,913	630,528	139,385	63,468	29,761	46,156	2,204	38,691	5,261
July 1	773,212	632,624	140,588	64,194	29,928	46,466	2,196	39,020	5,250
1971: July 1	790,413	645,259	145,106	67,150	30,379	47,577	2,157	40,224	5,196
1972: July 1	808,560	660,125	148,435	68,363	30,838	49,234	2,155	42,175	4,904
Civilian resident population:³									
1970: April 1	714,771	575,719	139,052	63,328	29,627	46,097	2,204	38,632	5,261
July 1	719,974	579,735	140,239	64,044	29,787	46,408	2,196	38,962	5,250
1971: July 1	739,611	594,853	144,758	66,802	30,379	47,577	2,157	40,224	5,196
1972: July 1	756,589	608,474	148,115	68,043	30,838	49,234	2,155	42,175	4,904
Total de facto population:⁴									
1970: April 1	797,308	648,029	149,279	67,122	32,861	49,296	2,207	41,754	5,335
July 1	800,961	651,735	149,226	67,130	32,553	49,543	2,199	42,021	5,323
1971: July 1	821,812	666,020	155,792	70,722	33,458	51,612	2,160	44,190	5,262
1972: July 1	850,255	687,830	162,425	72,928	34,742	54,755	2,166	47,556	5,033
Land area (square miles)	6,425.4	595.7	5,829.7	4,037.0	619.1	1,173.6	139.5	728.2	260.9
De facto density, 1972	132.3	1,154.7	27.9	18.1	56.1	46.7	15.5	65.3	19.3

¹County totals include Kahoolawe (45.0 square miles, uninhabited). County totals and Molokai data include Kalawao County (13.3 square miles, 172 inhabitants in 1970).

²Includes armed forces and their dependents. Includes residents temporarily absent and excludes visitors present.

³Includes military dependents but excludes armed forces. Includes residents temporarily absent and excludes visitors present.

⁴Includes armed forces and their dependents and visitors present; excludes residents temporarily absent.

Source: Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1972* (Statistical Report 95, May 2, 1973).

**Table 5.—RESIDENT POPULATION OF COUNTIES AND DISTRICTS:
1960 AND 1970**

County and district	April 1, 1960	April 1, 1970
The State	632,772	769,913
Honolulu	500,409	630,528
Honolulu	294,194	324,871
Koolaupoko	60,238	92,219
Koolauloa	8,043	10,562
Waialua	8,221	9,171
Wahiawa	34,595	37,329
Waianae	16,452	24,077
Ewa	78,666	132,299
Hawaii	61,332	63,468
Puna	5,030	5,154
South Hilo	31,553	33,915
North Hilo	2,493	1,881
Hamakua	5,221	4,648
North Kohala	3,386	3,326
South Kohala	1,538	2,310
North Kona	4,451	4,832
South Kona	4,292	4,004
Ka'u	3,368	3,398
Maui and Kalawao	42,855	46,156
Hana	1,073	969
Makawao	10,409	9,979
Wailuku	19,391	22,219
Lahaina	4,844	5,524
Lanai	2,115	2,204
Molokai	4,744	5,089
Kalawao	279	172
Kauai	28,176	29,761
Waimea	7,057	7,569
Koloa	7,012	6,851
Lihue	6,297	6,766
Kawaihau	6,498	7,393
Hanalei	1,312	1,182

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1970*, Final Report PC(1)-A13, table 10, as corrected.

Table 6.—LAND AREA, 1970, AND POPULATION, 1960 AND 1970, OF URBAN PLACES

Island and urban place ¹	Land area (acres)	Resident population		Island and urban place ¹	Land area (acres)	Resident population	
		1970	1960 ²			1970	1960 ²
Oahu:				Oahu, cont.:			
Aiea	1,302	12,560	11,436	Waimalu	115	2,982	2,446
Barbers Pt. Hsg.	149	3,187	2,665	Waimanalo Beach	328	3,045	1,517
Ewa	627	2,906	3,257	Waipahu	1,815	24,150	7,802
Ewa Beach	815	7,765	4,627				
Foster Village	335	3,755	2,133	Hawaii:			
Halawa Hts.	808	5,809	2,485	Hilo	35,929	26,353	23,005
Haleiwa	1,165	2,626	2,504	Kailua	489	365	433
Hickam Housing	720	7,352	6,454	Papaikou	749	1,888	1,591
Honolulu	53,696	324,871	294,194	Waimea	652	756	657
Iroquois Pt.	395	4,572	677				
Kailua ³	4,470	33,783	24,402	Kauai:			
Kaneohe	4,316	29,903	15,291	Kapaa	2,591	3,794	3,439
Laie	754	3,009	1,767	Lihue	3,959	3,124	4,106
Maili	477	4,397	2,954				
Makaha	723	4,644	2,735	Maui:			
Makakilo City	850	3,499	0	Kahului	2,888	8,280	4,223
Maunawili	2,325	5,303	2,128	Lahaina	870	3,718	3,423
Mokapu	2,718	7,860	6,397	Wailuku	1,499	7,979	6,969
Nanakuli	1,068	6,506	2,745				
Pacific Palisades	658	7,846	0	Molokai:			
Pearl City	2,135	19,552	7,072	Kaunakakai	573	1,070	740
Schofield Bks.	1,849	13,516	14,873				
Wahiawa	1,472	17,598	15,512	Lanai:			
Waialua	829	4,047	2,689	Lanai City	328	2,122	2,056
Waianae	541	3,302	3,186				

¹These places are among the 93 cities, towns, and villages assigned statistical boundaries under Act 25, Session Laws of 1963. Each place over 2,500, the largest place on each island if none exceeds 2,500, and a few other places of special interest are shown.

²These figures refer to the 1960 population within the 1970 boundaries, and hence may differ somewhat from data published in official census bulletins.

³Includes Coconut Grove, Kalaheo Hillside, Keolu Hills, and Lanikai.

Source: Hawaii State Department of Planning and Economic Development, *Statistical Boundaries of Cities, Towns and Villages as Approved Through December 31, 1972* (Report SB-A8, January 19, 1973), table 1.

Table 7.—CHARACTERISTICS OF CENSUS TRACTS: APRIL 1, 1970

County and census tract	Resident population		Persons per square mile	Households	Persons 25 and over: median school years completed	Median 1969 income of families (dollars)	Occupied housing units	
	Total, 1970	Percent change, 1960-70					Percent owner occupied	Renter occupied: median rent (dollars)
State total	769,913	21.7	119.8	203,088	12.3	11,554	46.9	120
City & County of Honolulu	630,528	26.0	1,058.5	164,763	12.4	12,035	45.0	130
1.01	7,414	268.5	1,078.9	1,779	12.8	17,413	89.7	300+
1.02	1,915			504	14.6	23,571	84.9	300+
1.03	3,243			848	13.4	17,946	80.3	300+
2	5,123	45.7	1,483.6	1,305	12.7	17,155	76.2	197
3	6,485	- 1.6	1,460.4	1,673	12.7	17,951	84.9	259
4.01	1,571	142.0	1,208.9	415	15.3	26,493	92.0	300+
4.02	2,898			734	12.8	18,492	90.5	280
5	5,253	19.2	4,748.5	1,621	14.6	24,560	80.1	284
6	2,025	27.4	1,596.1	538	14.1	22,253	78.8	280
7	3,794	- 9.9	10,117.3	955	12.3	14,610	73.3	162
8	4,599	- 14.3	13,198.9	1,207	12.2	13,333	58.8	127
9.01	2,773	25.0	9,934.0	807	13.5	18,459	52.2	293
9.02	4,392			1,315	12.8	16,458	72.5	177
9.03	3,514			985	12.3	13,635	55.5	116
10	3,650	4.8	1,197.3	877	12.3	14,098	73.8	137
11	4,586	- 4.8	15,447.6	987	11.2	9,388	40.5	85
12.01	3,657	4.6	18,029.7	1,039	12.3	12,503	46.5	133
12.02	4,231			1,068	12.1	14,020	63.9	128
13	5,146	- 15.5	14,257.3	1,532	12.2	11,195	42.0	131
14	2,990	- 6.6	15,685.2	813	12.3	14,286	62.2	127
15	4,345	- 14.1	20,005.8	1,220	12.1	14,494	60.0	131
16	4,783	- 12.7	20,272.3	1,296	12.3	11,583	52.1	136
17	2,559	5.4	4,947.9	1,243	13.6	16,645	55.6	209
18.01	1,286	3.0	25,474.5	649	12.6	7,481	9.7	165
18.02	2,774			1,247	12.7	8,857	18.0	159
19.01	1,111	35.9	7,603.6	560	14.2	21,026	45.4	300+
19.02	3,368			1,814	12.8	10,185	25.4	178
20.01	2,186	19.5	23,856.9	1,184	12.7	9,925	17.3	189
20.02	2,399			1,376	12.7	9,413	11.6	174
21	3,347	10.9	7,140.3	1,184	12.4	11,124	13.4	133
22	3,796	39.6	15,983.2	1,440	12.5	10,355	10.6	141
23	4,195	10.5	30,166.3	1,564	12.6	10,366	13.0	134
24.01	3,060	0.4	35,158.1	1,105	12.4	10,787	11.0	131
24.02	2,818			976	12.3	11,652	14.4	120
25	4,242	2.5	25,372.7	1,542	12.3	11,452	22.5	120
26	5,163	14.3	20,148.3	1,760	12.5	11,580	19.8	129

(Continued on next page)

Table 7.—CHARACTERISTICS OF CENSUS TRACTS: APRIL 1, 1970 (continued)

County and census tract	Resident population		Persons per square mile	Households	Persons 25 and over: median school years completed	Median 1969 income of families (dollars)	Occupied housing units	
	Total, 1970	Percent change, 1960-70					Percent owner occupied	Renter occupied: median rent (dollars)
27.01	3,675	22.5	8,923.1	{ 668	13.8	11,557	27.8	123
27.02	5,039			{ 1,671	13.3	13,195	32.7	157
28	4,316	5.8	4,426.7	1,148	12.8	16,606	76.2	180
29	1,591	5.5	3,931.4	389	12.3	17,910	77.4	108
30	4,966	- 1.5	7,751.8	1,531	14.3	18,792	63.3	155
31.01	4,403	66.2	2,372.4	{ 1,118	12.6	18,573	80.4	251
31.02	4,030			{ 1,017	12.8	19,067	86.7	163
32	1,218	- 10.0	531.0	344	12.6	14,612	72.7	156
33	1,145	6.7	4,951.4	285	15.1	20,825	86.3	250
34.01	5,885	58.2	34,833.3	{ 2,588	13.0	11,569	24.3	172
34.02	4,761			{ 2,173	12.7	10,008	9.9	162
34.03	4,267			{ 1,888	12.8	11,778	25.1	153
35	4,308	- 8.1	14,903.4	1,820	12.4	10,736	9.1	137
36.01	2,916	31.0	19,804.4	{ 1,432	12.6	13,753	30.2	185
36.02	2,654			{ 1,028	12.4	10,506	22.7	126
37	1,349	28.2	216.1	652	12.6	14,647	42.6	132
38	523	- 42.6	2,109.0	{ 257	9.8	11,190	5.8	50
38.99	314			{ 0	11.9	0	0.0	0
39	263	47.1	870.1	{ 113	11.8	—	3.5	93
39.99	134			{ 0	11.7	0	0.0	0
40	100	- 65.3	901.4	52	10.5	0	0.0	58
41	4,097	- 12.1	16,086.4	1,795	12.2	8,888	12.1	101
42	1,162	17.3	12,822.1	630	13.3	14,523	0.5	189
43	5,628	1.3	11,015.0	1,864	12.2	10,709	24.0	126
44	6,142	- 10.6	4,003.5	1,431	11.7	13,143	66.7	123
45	4,780	9.6	1,590.0	1,351	12.7	18,698	68.8	164
46	4,377	2.7	1,640.1	1,139	12.4	15,187	69.3	136
47	5,500	- 1.9	10,764.5	1,448	12.5	15,451	72.7	158
48	6,608	9.6	4,900.5	1,696	12.2	12,852	52.2	122
49	3,292	6.9	20,860.2	974	10.9	11,652	35.7	86
50	3,973	- 3.7	18,975.5	1,214	12.2	11,573	27.7	108
51	0	-100.0	0.0	0	0.0	0	0.0	0
52	1,405	13.6	20,436.4	933	5.7	9,125	0.3	56
53	482	- 92.1	3,545.7	269	6.0	3,688	0.0	47
54	1,862	- 21.5	59,584.0	399	9.3	4,386	0.0	64
55	1,975	- 14.5	23,849.1	536	9.0	9,306	20.3	120
56	5,768	- 8.5	15,980.6	1,408	10.8	10,248	31.4	94
57	2,615	- 47.2	1,703.2	{ 1,014	9.2	9,000	2.6	69
57.99	134			{ 0	12.4	0	0.0	0
58	3,163	- 21.4	16,066.0	897	11.4	6,393	8.2	77

(Continued on next page)

Table 7.—CHARACTERISTICS OF CENSUS TRACTS: APRIL 1, 1970 (continued)

County and census tract	Resident population		Persons per square mile	Households	Persons 25 and over: median school years completed	Median 1969 income of families (dollars)	Occupied housing units						
	Total, 1970	Percent change, 1960-70					Percent owner occupied	Renter occupied: median rent (dollars)					
59	4,388	- 15.3	5,475.7	{ 1,198	10.0	10,545	18.6	102					
59.99	61								{ 0	11.1	0	0.0	0
60	6,711	10.1	23,994.6	1,659	10.3	10,189	20.4	108					
61	3,262	2.7	18,313.0	718	10.9	11,939	49.2	112					
62.01	4,295	24.7	28,519.7	{ 985	10.7	9,664	35.2	102					
62.02	2,523								{ 596	11.9	3,784	0.2	58
63.01	3,713	3.1	14,844.5	{ 798	11.3	12,667	61.4	130					
63.02	3,083								{ 562	10.6	7,729	20.6	67
64.01	1,400	17.1	9,716.4	{ 254	10.7	11,536	68.1	153					
64.02	5,280								{ 1,138	10.8	12,378	56.3	131
65	4,011	21.4	916.1	887	12.1	13,340	62.8	148					
66	3,424	86.2	1,540.0	667	12.8	8,986	0	113					
67.01	7,502	300.6	1,294.1	{ 1,609	12.5	17,264	82.3	239					
67.02	2,317								{ 732	12.5	6,579	0	136
68.01	2,968	60.9	2,800.5	{ 773	13.0	17,416	78.7	279					
68.02	4,532								{ 1,059	12.1	11,162	68.1	179
69	3,694	128.2	9,235.0	928	12.7	8,309	0	121					
70	4,899	- 24.4	4,479.1	1,278	12.7	6,190	0.2	112					
71	1,402	- 65.4	3,373.2	405	12.7	5,254	0.2	77					
72	3,864	- 59.9	804.5	631	12.6	7,954	0.2	115					
73	7,530	37.2	4,615.0	{ 1,518	12.7	10,292	1.9	123					
73.99	3,034								{ 0	12.4	0	0	0
74	4,016	40.0	4,928.0	{ 697	13.1	9,093	0	119					
74.99	5,070								{ 0	12.5	0	0	0
75.01	4,946	124.0	1,238.6	{ 1,179	13.0	15,886	79.0	293					
75.02	1,496								{ 112	12.5	7,650	0	120
75.03	4,982								{ 1,191	12.5	13,718	80.1	195
76	2,934	- 44.9	11,520.0	629	10.5	7,750	4.9	57					
77.01	4,880	48.0	2,803.3	{ 1,121	12.1	12,941	60.9	156					
77.02	4,752								{ 1,206	12.6	17,035	83.1	195
78	5,695	70.7	397.8	1,470	12.4	13,022	57.6	141					
79	762	- 8.7	753.8	2	1.0	0	—	—					
80.01	1,268	138.1	3,209.8	{ 329	10.8	10,057	35.6	107					
80.02	3,347								{ 759	12.1	14,304	80.8	166
80.03	2,811								{ 664	12.6	9,304	8.3	148
80.04	9,057								{ 2,129	12.7	15,108	91.5	232
80.05	7,846								{ 1,809	12.7	13,412	85.8	243
81	3,167	6.1	2,132.3	{ 617	12.7	6,627	1.0	113					
81.99	368								{ 0	12.5	0	0	0
82	0	-100.0	0	0	0	0	0	0					
83	4,759	362.0	960.2	1,141	12.6	8,241	1.4	117					

(Continued on next page)

Table 7.—CHARACTERISTICS OF CENSUS TRACTS: APRIL 1, 1970 (continued)

County and census tract	Resident population		Persons per square mile	Households	Persons 25 and over median school years completed	Median 1969 income of families (dollars)	Occupied housing units	
	Total, 1970	Percent change 1960-70					Percent owner occupied	Renter occupied: median rent (dollars)
84	7,801	66.0	1,185.6	1,861	12.4	9,630	53.3	158
85	3,187	- 46.9	555.6	569	12.4	5,654	0.0	114
86.01	4,226	76.6	166.5	{ 965	12.3	11,317	71.3	89
86.02	4,114			{ 948	8.8	10,361	10.3	41
87.01	5,958	150.5	8,452.4	{ 1,211	12.1	12,810	75.8	199
87.02	4,509			{ 1,050	10.9	10,356	36.3	137
87.03	2,238			{ 717	12.4	6,738	2.0	158
88	3,429	4.5	3,189.8	782	10.1	11,777	41.2	30
89.01	7,328	188.7	275.6	{ 1,462	12.5	11,259	56.6	181
89.02	4,420			{ 1,056	12.5	13,698	81.3	171
89.03	2,369			{ 534	12.2	11,739	68.5	105
90	2,783	97.9	231.2	491	12.6	8,344	0.2	119
91	3,410	21.6	263.7	604	9.1	9,278	36.4	44
92	6,637	- 8.5	5,633.5	1,704	12.4	11,070	56.2	128
93	4,875	5.0	10,263.2	1,416	12.1	8,513	33.1	92
94	6,048	67.3	9,349.6	1,684	12.2	10,271	41.7	115
95.01	3,762	- 8.7	1,080.8	{ 916	12.6	6,863	0.0	112
95.02	4,901			{ 1,214	12.6	7,873	0.2	115
95.03	2,560			{ 8	12.8	—	0.0	—
95.04	1,495			{ 394	14.4	9,500	0.5	140
95.05	858			{ 0	13.0	0	0.0	0
96.01	4,024	47.0	515.1	{ 646	10.5	10,625	59.8	59
96.02	9,630			{ 2,084	11.1	8,839	38.0	91
97	6,020	46.5	502.5	1,442	11.3	9,250	42.7	98
98	4,403	44.1	203.1	1,013	11.2	8,837	30.9	112
99.01	4,529	14.6	200.8	{ 1,180	10.6	9,694	48.4	95
99.02	2,817			{ 692	12.1	8,628	31.5	84
100	1,825	0.7	24.8	463	12.2	9,938	32.2	77
101	3,497	11.0	115.5	944	11.8	8,130	26.6	74
102.01	3,255	44.4	188.3	{ 774	12.1	7,455	42.8	91
102.02	3,810			{ 644	12.4	9,439	46.0	119
103.01	7,571	118.6	405.3	{ 1,825	12.3	12,645	57.2	137
103.02	3,338			{ 772	12.5	15,175	87.8	211
104	618	- 50.0	1,427.9	6	10.9	—	0.0	0
105.01	5,505	73.7	5,514.9	{ 1,335	12.7	14,282	77.3	113
105.02	6,989			{ 1,625	12.2	12,475	48.6	147
106.01	3,227	52.4	6,750.0	{ 749	12.3	13,057	75.4	166
106.02	5,105			{ 1,214	12.6	13,663	69.4	204
107.01	2,586	131.2	2,617.6	{ 677	12.8	15,648	74.7	189
107.02	3,500			{ 897	12.6	13,661	85.3	231

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Table 7.—CHARACTERISTICS OF CENSUS TRACTS: APRIL 1, 1970 (continued)

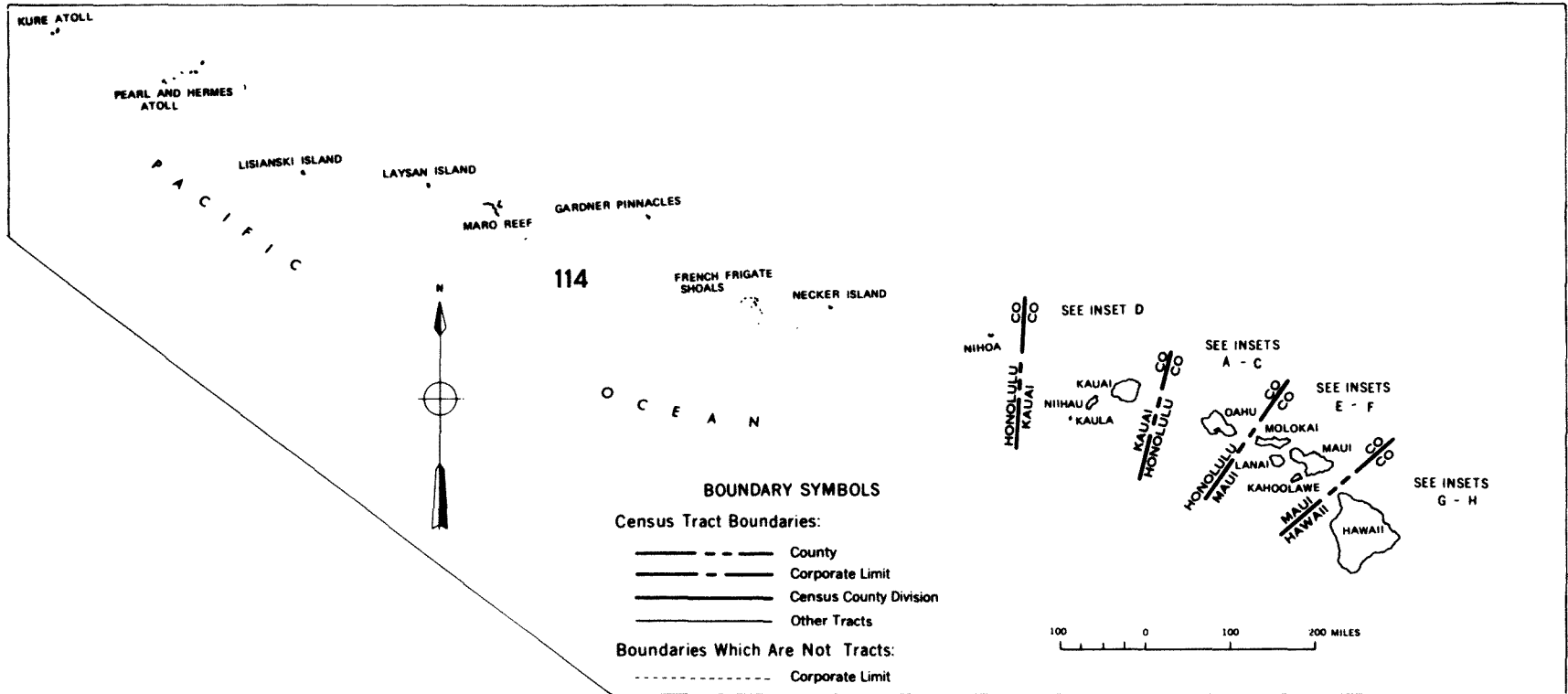
County and census tract	Resident population		Persons per square mile	Households	Persons 25 and over median school years completed	Median 1969 income of families (dollars)	Occupied housing units	
	Total, 1970	Percent change 1960-70					Percent owner occupied	Renter occupied: median rent (dollars)
108	7,860	22.9	1,850.8	1,215	12.5	7,742	0.3	115
109.01	3,374	17.1	8,392.9	{ 790	14.5	18,442	87.1	300+
109.02	11,248			{ 2,874	12.3	11,994	59.0	155
110	3,957	358.5	344.8	935	13.4	16,908	84.2	259
111.01	6,352	94.7	3,447.8	{ 1,576	12.7	13,970	70.9	182
111.02	7,003			{ 1,611	12.8	16,764	85.4	278
112.01	5,377	11.7	5,340.0	{ 1,410	13.4	18,639	72.1	235
112.02	1,832			{ 557	14.7	16,749	64.5	230
113	6,777	19.7	609.6	1,426	12.0	11,440	58.5	107
114	31	106.7	11.0	0	—	0	0	0
Hawaii County	63,468	3.5	15.7	17,260	11.9	9,750	56.9	54
201	5,503	- 1.5	47.0	1,418	9.0	9,283	59.4	< 30
202	2,059	9.4	95.1	{ 545	9.4	8,840	63.3	31
203	3,435			{ 1,017	12.3	12,616	45.8	102
204	3,531			{ 972	11.9	7,778	31.7	64
205	4,604			{ 1,246	12.2	10,804	58.1	82
205.99	83			{ 0	12.3	0	0	0
206	2,989			{ 696	12.2	11,444	71.8	85
207	5,231			{ 1,373	12.3	11,727	79.2	98
208	4,865			{ 1,290	12.2	11,378	79.5	96
209	1,615			{ 386	12.2	12,570	80.8	89
210	3,802			2.6	16.5	1,092	10.6	8,371	77.1	53
211	1,352	2.0	6.7	430	8.4	7,603	71.6	< 30
212	3,398	0.9	3.4	900	8.6	8,500	41.4	33
213	1,563	- 6.7	10.2	{ 415	8.4	8,271	31.8	38
214	2,441			{ 644	10.5	11,346	40.2	56
215	2,589	8.6	11.1	{ 742	11.8	8,663	45.0	84
216	2,243			{ 689	12.4	12,121	44.3	168
217	2,310	50.2	7.2	650	12.2	9,182	48.8	116
218	3,326	- 1.8	25.0	879	10.2	9,421	66.6	38
219	2,829	- 2.3	24.2	809	9.7	9,643	59.7	37
220	1,819	- 21.7	4.4	505	8.5	6,833	20.2	< 30
221	1,881	- 24.5	4.9	562	9.0	7,595	29.4	< 30
Maui County	46,156	8.4	39.3	12,783	11.5	9,643	58.5	47
301	969	- 9.7	4.2	275	8.8	7,500	44.4	46
302	2,067	6.4	34.3	570	9.0	8,128	65.1	37
303	2,124	- 23.8	9.9	623	12.1	12,287	64.7	66
304	4,123	1.9	141.2	{ 1,084	11.6	8,712	73.1	78
305	1,665			{ 491	8.8	8,838	40.1	36

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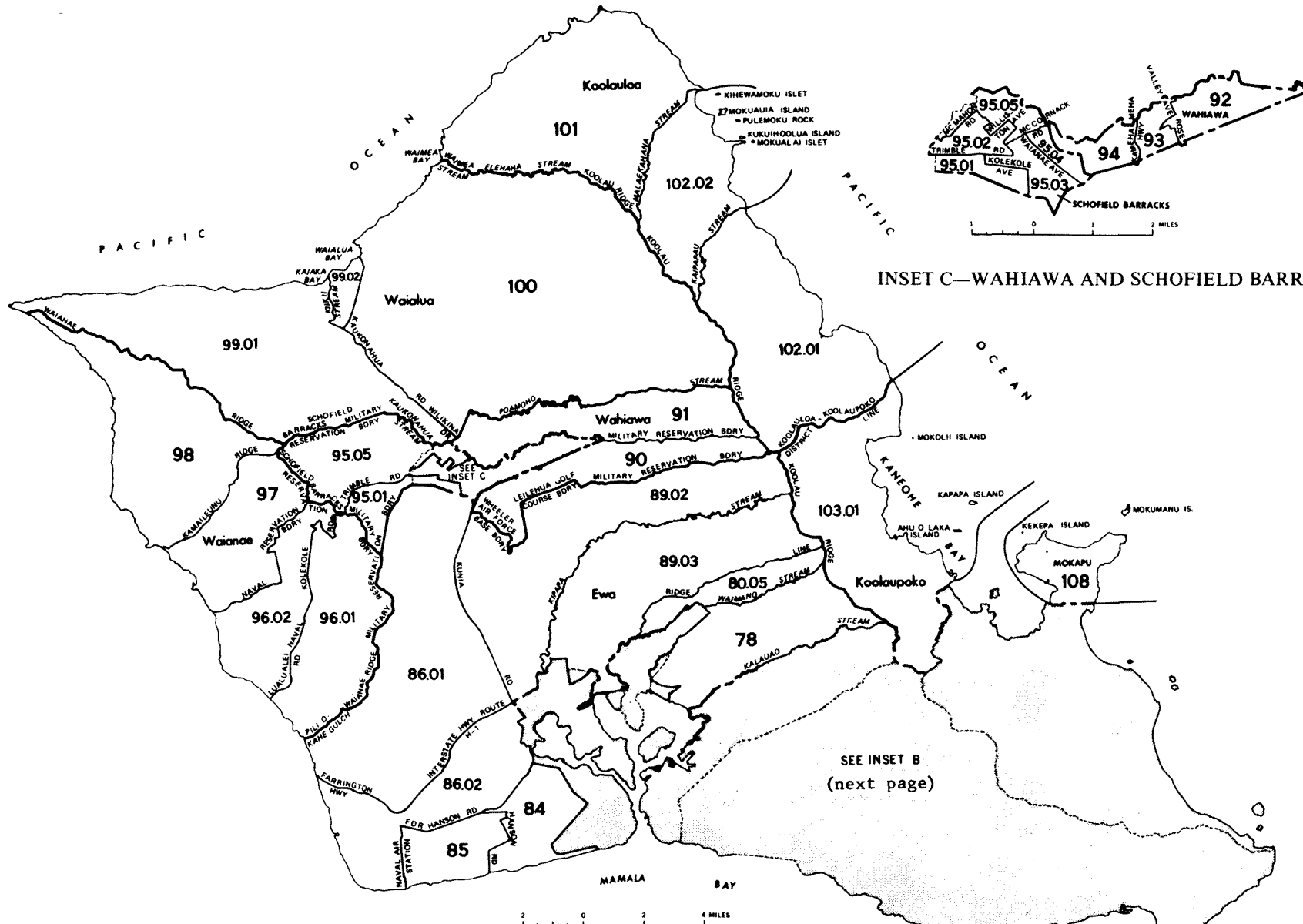
Table 7.—CHARACTERISTICS OF CENSUS TRACTS: APRIL 1, 1970 (continued)

County and census tract	Resident population		Persons per square mile	Households	Persons 25 and over: median school years completed	Median 1969 income of families (dollars)	Occupied housing units	
	Total, 1970	Percent change, 1960-70					Percent owner occupied	Renter occupied: median rent (dollars)
306	781	- 57.5	39.2	211	9.4	8,148	19.9	53
307	1,636	51.6	46.9	483	12.1	8,298	56.7	154
308	1,299	- 41.7	21.2	351	8.4	10,235	74.4	54
309	4,537	30.3	4,781.1	{ 1,316	10.3	8,083	48.6	61
310	4,547			{ 1,270	12.2	13,623	70.5	117
311	5,505	96.2	1,294.8	{ 1,376	12.0	11,595	88.4	134
312	2,782			{ 791	12.1	11,235	87.5	113
313	1,132	- 62.9	269.5	379	5.3	6,188	0	< 30
314	4,171	14.0	57.5	{ 1,191	10.1	10,038	51.3	62
315	1,353			{ 421	9.6	11,016	25.4	< 30
316	2,204	4.2	15.8	647	8.2	8,826	52.2	34
317	2,574	15.4	19.8	682	10.5	8,511	49.4	45
318	2,515	0	21.4	622	10.2	8,131	29.9	34
319	172	- 38.4	12.9	0	8.5	0	0	0
Kauai County	29,761	5.6	48.1	8,282	10.9	9,946	45.7	39
401	1,182	- 9.9	9.4	332	8.1	7,935	22.6	< 30
402	3,599	17.7	54.5	968	12.1	10,835	60.3	64
403	3,794	10.3	1,115.9	1,101	9.1	8,932	51.3	57
404	3,642	66.2	46.3	902	8.7	9,493	48.8	30
405	3,124	- 23.9	512.1	952	12.1	12,296	59.5	65
406	3,141	12.2	133.1	924	11.7	10,731	50.8	45
407	3,660	- 11.9	101.1	{ 1,003	9.3	9,100	52.3	36
407.99	50			{ 0	12.9	0	0	0
408	3,173	12.0	26.3	864	9.7	8,984	24.9	35
409	4,159	4.8	47.0	1,197	10.9	9,363	29.2	36
410	237	- 6.7	3.4	39	5.9	5,375	0	0

Source: U.S. Census of Population and Housing: 1970, Final Report PHC(1)-88; Hawaii State Department of Planning and Economic Development, General Plan Revision Program, Part 4, Population Projections (1967), pp. 35-37.



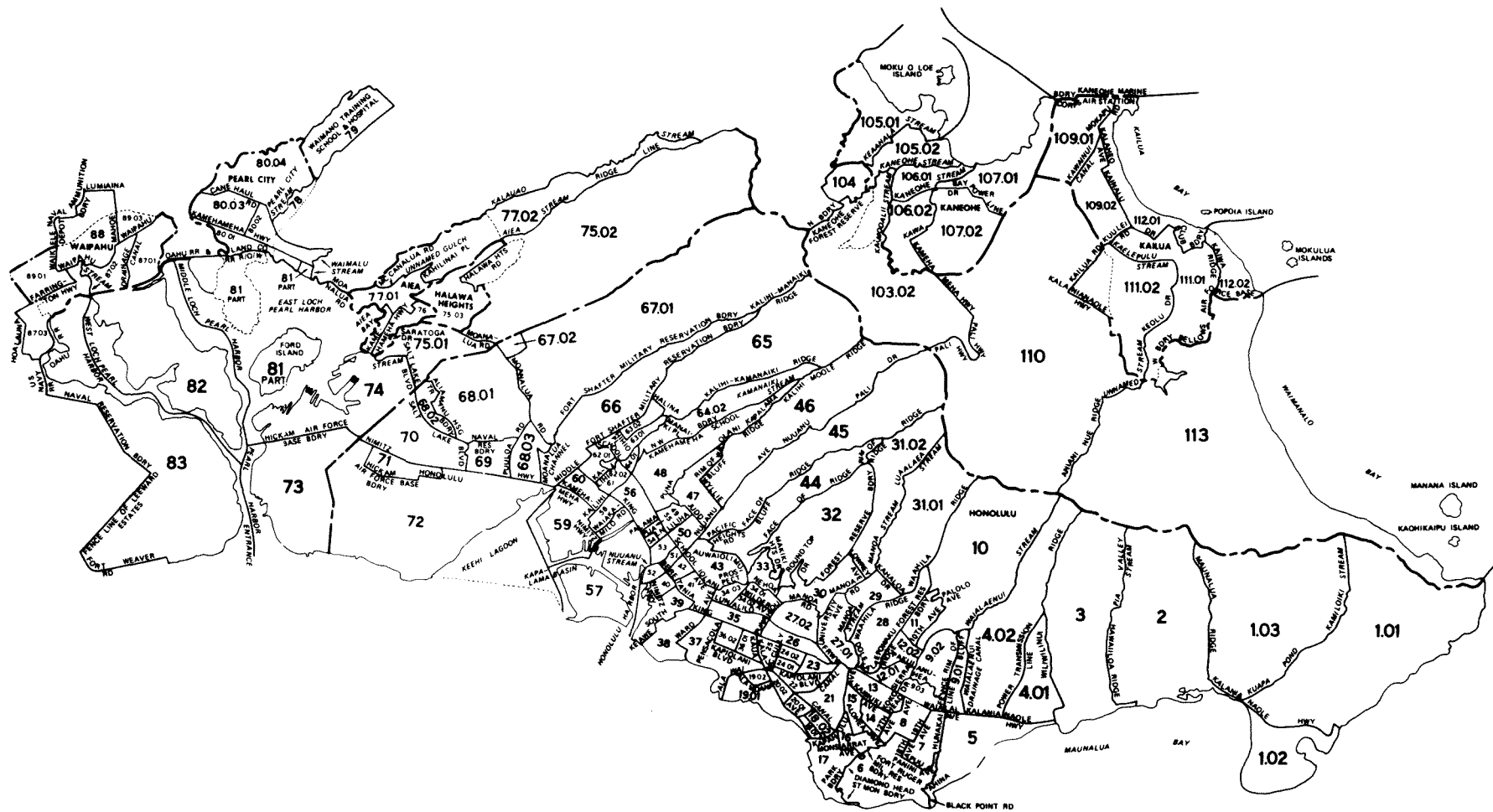
The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession), are legally part of the City and County of Honolulu and Honolulu Census County Division, and are designated tract 114.



INSET C—Wahiawa and Schofield Barracks

INSET A—HONOLULU COUNTY (PART)

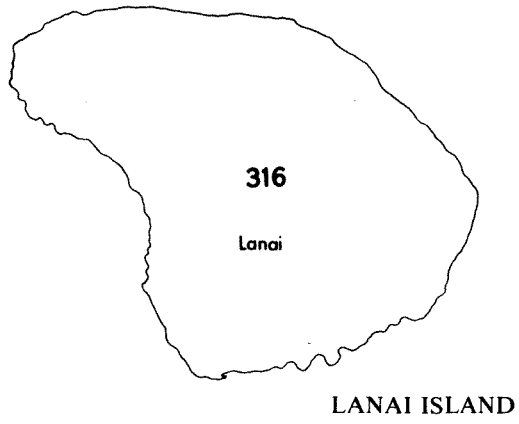
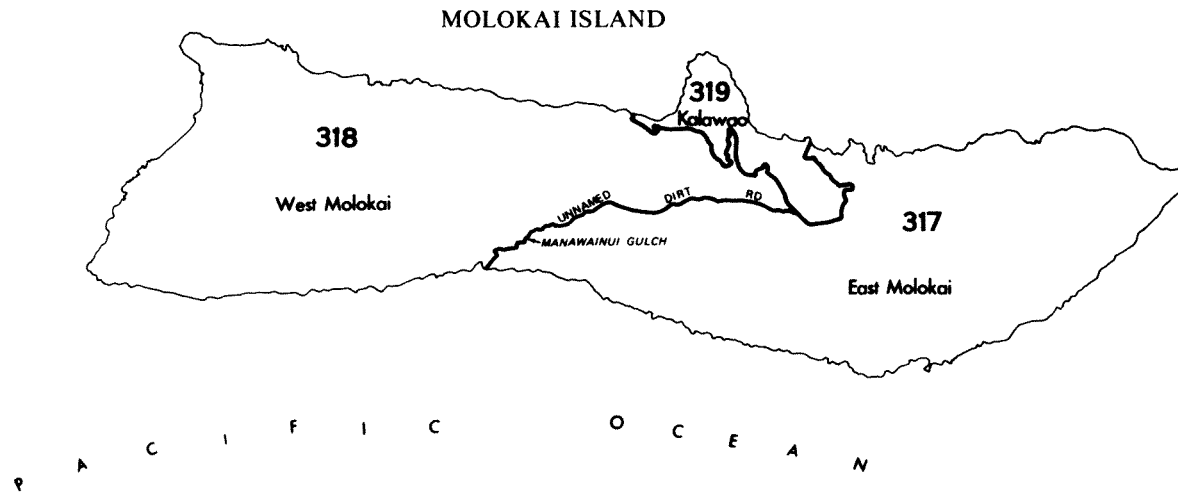
U.S. DEPARTMENT OF COMMERCE
 BUREAU OF THE CENSUS
 1970



INSET B—HONOLULU COUNTY (PART)



U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS
1970



INSET E²—MAUI COUNTY (PART)

Table 8.—CHARACTERISTICS OF THE POPULATION: 1970

Subject	The State	City & County of Honolulu	Other Counties		
			Hawaii	Kauai	Maui
Total ¹	769,913	630,528	63,468	29,761	46,156
Age:					
Under 5 years	70,811	58,701	5,446	2,629	4,035
5 to 17 years	203,818	165,156	17,656	8,311	12,695
18 to 24 years	109,228	96,972	5,810	2,317	4,129
25 to 44 years	202,621	171,021	14,380	6,835	10,385
45 to 64 years	137,967	105,941	14,338	6,945	10,473
65 years and over	44,116	31,385	5,838	2,724	4,169
Sex:					
Male	399,205	327,041	32,898	15,556	23,710
Female	369,356	302,135	30,570	14,205	22,446
Race: ²					
White	298,160	259,519	18,298	7,733	12,610
Negro	7,573	7,388	114	41	30
Indian	1,126	996	72	30	28
Japanese	217,307	169,078	23,817	9,780	14,632
Chinese	52,039	48,288	1,841	538	1,372
Filipino	93,915	65,553	10,454	8,135	9,773
Hawaiian	71,375	53,709	7,809	3,011	6,846
Korean	8,656	8,058	330	83	185
Other races	18,410	16,587	733	410	680
Households	203,088	164,763	17,260	8,282	12,783
Families	170,358	138,277	14,533	6,902	10,646

¹Includes 1,352 residents of the City and County of Honolulu inadvertently omitted from the tabulations on population characteristics.

²Persons of mixed race included with unmixed groups. For separate data on persons of mixed and unmixed race, see table 9.

Source: U.S. Bureau of the Census, *U.S. Census of Population: 1970*, Final Report PC(1)-B13, and underlying data.

Table 9.—POPULATION CHARACTERISTICS: 1971

(Excludes an estimated 29,298 persons in institutions or military barracks, or on Niihau. Based on a sample of 13,918 persons, conducted by the Hawaii State Department of Health, as part of the Hawaii Health Surveillance Program, between March 1, 1971 and December 31, 1971.)

Subject	Number	Percent	Subject	Number	Percent
Total population	761,143	100.0	ETHNIC STOCK¹		
AGE AND SEX			Caucasian	221,339	29.1
Male, all ages	379,474	49.9	Chinese	33,750	4.4
Under 6 years	41,905	5.5	Filipino	59,429	7.8
6 to 16 years	95,102	12.5	Hawaiian	7,074	0.9
17 to 24 years	51,542	6.8	Japanese	199,934	26.3
25 to 44 years	97,314	12.8	Korean	5,218	0.7
45 to 64 years	72,515	9.5	Negro	4,986	0.7
65 years and over	20,191	2.7	Puerto Rican	5,728	0.8
Age not reported	906	0.1	Samoan	10,025	1.3
Female, all ages	381,669	50.1	Other unmixed	4,395	0.6
Under 6 years	42,960	5.6	Mixed, Part Hawaiian	139,073	18.3
6 to 16 years	90,082	11.8	Mixed, non-Hawaiian	70,192	9.2
17 to 24 years	56,809	7.5	RESIDENCE ONE YEAR		
25 to 44 years	107,345	14.1	EARLIER		
45 to 64 years	63,821	8.4	Same house as when surveyed ..	593,850	78.0
65 years and over	18,776	2.5	Different house, same island	83,486	11.0
Age not reported	1,876	0.2	Different island	5,098	0.7
			Different state	53,156	7.0
			Different country	11,885	1.6
			Under one year old	13,668	1.8

¹Definitions differ from those used in the 1970 U.S. Census of Population.

Source: Hawaii State Department of Health and Hawaii State Department of Planning and Economic Development, "Population Mobility in Hawaii During 1971," *Population Report*, No. 1 (April 1973), tables 2 and 3.

Table 10.—AGE AND SEX: 1831 TO 1970

Year	Total population	Sex ¹			Age ²		
		Male	Female	Males per 100 females	Under 15 years	15 years and over	Percent under 15 years
1831 ³	130,313	(NA)	(NA)	105.3	(NA)	(NA)	26.1
1850	84,165	42,203	38,336	110.1	(NA)	(NA)	(NA)
1853	73,138	38,810	34,328	113.1	(NA)	(NA)	(NA)
1860	69,800	37,499	32,301	116.1	(NA)	(NA)	(NA)
1866	62,959	34,395	28,564	120.4	16,678	46,281	26.5
1872	56,897	31,650	25,247	125.4	15,800	41,097	27.8
1878	57,985	34,103	23,882	142.8	16,266	41,719	28.1
1884	80,578	51,539	29,039	177.5	22,523	58,055	28.0
1890	89,990	58,714	31,276	187.7	23,518	66,472	26.1
1896	109,020	72,517	36,503	198.7	30,201	78,819	27.7
1900	154,001	106,369	47,632	223.2	34,671	118,767	22.6
1910 ⁴	191,909	123,099	68,810	178.9	56,657	135,196	29.5
1920 ⁴	255,912	151,146	104,766	144.3	90,805	164,994	35.5
1930 ⁴	368,336	222,640	145,696	152.8	133,341	234,892	36.2
1940 ⁴	423,330	245,135	178,195	137.6	131,010	292,320	30.9
1950	499,794	273,895	225,899	121.2	156,137	343,657	31.2
1960	632,772	338,173	294,599	114.8	217,758	415,014	34.4
1970 ⁵	768,561	399,205	369,356	108.1	230,459	538,102	30.0

¹Persons for whom sex was not reported numbered 3,626 in 1850.

²Persons not reporting age numbered 563 in 1900, 56 in 1910, 113 in 1920, 103 in 1930, and 155 in 1940. Percent based on number reporting.

³Sex ratio based on 1831 data for Oahu and Maui; age, on 1831 data for Niihau, Kauai, Oahu, and Maui, and 1835 data for Hawaii. The age figure refers to the percentage identified as "children" (apparently those under 14) in the census tabulations.

⁴Includes persons on the Midway Islands (and, for 1940, other small outlying islands) not legally part of the Territory of Hawaii.

⁵The revised total was 769,913.

Source: Robert C. Schmitt, *The Missionary Censuses of Hawaii* (Bishop Museum, May 1973), tables 1 and 4, and *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 72-73; *U.S. Census of Population: 1970*, Final Report PC(1)-B13, table 21.

Table 11.—AGE AND SEX: 1970

Age	Both sexes	Male	Female
All ages	768,561	399,205	369,356
Under 1 year	15,158	7,821	7,337
1 year	13,653	6,932	6,721
2 years	13,285	6,835	6,450
3 years	13,840	7,148	6,692
4 years	14,875	7,520	7,355
5 years	15,539	7,972	7,567
6 years	16,122	8,252	7,870
7 years	16,131	8,236	7,895
8 years	16,157	8,377	7,780
9 years	15,887	8,153	7,734
10 years	16,797	8,643	8,154
11 years	16,048	8,178	7,870
12 years	15,780	8,075	7,705
13 years	15,501	7,887	7,614
14 years	15,686	8,008	7,678
15 years	15,047	7,722	7,325
16 years	14,513	7,415	7,098
17 years	14,610	7,453	7,157
18 years	13,722	7,226	6,496
19 years	13,951	7,459	6,492
20 years	16,703	9,737	6,966
21 years and over	449,556	234,156	215,400
Under 5 years	70,811	36,256	34,555
5 to 9 years	79,836	40,990	38,846
10 to 14 years	79,812	40,791	39,021
15 to 19 years	71,843	37,275	34,568
20 to 24 years	81,555	46,807	34,748
25 to 29 years	59,459	30,358	29,101
30 to 34 years	47,633	23,846	23,787
35 to 39 years	46,685	23,084	23,601
40 to 44 years	48,844	23,749	25,095
45 to 49 years	46,199	23,347	22,852
50 to 54 years	38,053	19,620	18,433
55 to 59 years	30,343	17,037	13,306
60 to 64 years	23,372	13,791	9,581
65 to 69 years	17,658	9,671	7,987
70 to 74 years	11,831	5,781	6,050
75 to 79 years	7,021	3,062	3,959
80 to 84 years	4,593	2,364	2,229
85 years and over	3,013	1,376	1,637
Under 18 years	274,629	140,627	134,002
62 years and over	57,004	29,749	27,255
65 years and over	44,116	22,254	21,862
Median age	25.0	24.7	25.5

Table 12.—ETHNIC STOCK: 1853 TO 1970

Ethnic stock	Old definition ¹						New definition ²	
	1853	1878	1900	1920	1940	1960	1970	Percent
All groups ³	73,137	57,985	154,001	255,912	423,330	632,772	768,559	100.0
Hawaiian	70,036	44,088	29,799	23,723	14,375	11,294	71,274	9.3
Part Hawaiian	983	3,420	9,857	18,027	49,935	91,109	—	—
Caucasian ⁴	1,687	3,748	26,819	54,742	112,087	202,230	301,429	39.2
Chinese	364	6,045	25,767	23,507	28,774	38,197	52,375	6.8
Filipino	5	—	—	21,031	52,569	69,070	95,354	12.4
Indian	—	—	—	—	—	472	1,216	0.2
Japanese	—	—	61,111	109,274	157,905	203,455	217,669	28.3
Korean	—	—	—	4,950	6,851	—	9,625	1.3
Negro	—	—	233	348	255	4,943	7,517	1.0
Other groups ⁵	62	684	415	310	579	12,002	12,100	1.6

¹Part Caucasians classified by race of non-Caucasian parent; other persons of mixed race (except Part Hawaiians) classified by race of father. Data for 1853-1900 partly estimated.

²Persons of mixed race classified either by self-identification or by race of father.

³Final totals (not available by race) were 255,881 in 1920, 422,770 in 1940, and 769,913 in 1970.

⁴“White” in 1960 and 1970. Includes Puerto Ricans (5,602 in 1920 and 8,296 in 1940).

⁵Includes Filipinos in 1878 and 1900, Japanese and Negroes before 1900, Koreans in 1960 and before 1920, American Indians before 1960, and Micronesians, Samoans, and other groups not shown separately in all years.

Source: Andrew W. Lind, *Hawaii's People*, 3d ed. (1967), p. 28; Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (1968), pp. 74 and 120; *U.S. Census of Population: 1960*, Final Report PC(1)-13B, table 15, and Final Report PC(2)-1C, table 61; *U.S. Census of Population: 1970*, Final Report PC(1)-D13, tables 138 and 139.

Table 13.—PLACE OF BIRTH AND RESIDENCE: 1853 TO 1970

Year	Living in Hawaii, born in — ¹											Living in Mainland U.S., born in Hawaii ²
	Total population	Hawaii	Mainland U.S. ³	U.S. outlying areas ⁴	U.S., State not reported	China	Japan	Korea	Philippines	Portugal ⁵	All other ⁶	
1853	73,138	71,310	692	—	—	364	(NA)	(NA)	5	86	681	533
1860	69,800	(NA)	(NA)	—	—	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	435
1866	62,959	(NA)	(NA)	—	—	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	524
1872	56,897	52,380	889	—	—	1,938	(NA)	(NA)	(NA)	395	1,295	729
1878	57,985	48,455	1,276	—	—	5,916	(NA)	(NA)	(NA)	436	1,902	1,067
1884	80,578	46,272	2,066	—	—	17,939	116	(NA)	(NA)	9,377	4,808	1,219
1890	89,990	48,117	1,928	—	—	15,301	12,360	(NA)	(NA)	8,602	3,682	1,304
1896	109,020	53,237	2,266	—	—	19,382	22,329	(NA)	(NA)	8,232	3,574	1,306
1900	154,001	58,931	4,238	52	—	21,741	56,234	(NA)	(NA)	6,512	6,293	1,307
1910	191,909	86,483	5,688	3,614	—	14,486	59,800	4,172	2,372	7,585	7,709	3,741
1920	255,912	136,349	10,816	2,778	—	11,164	60,690	3,498	18,728	5,794	6,095	10,551
1930	368,336	214,517	29,834	2,776	—	7,477	48,425	2,977	52,672	3,713	5,945	19,457
1940	423,330	278,506	54,224	2,209	—	4,868	37,362	2,454	35,778	2,397	5,532	23,723
1950	499,794	355,574	65,640	1,960	—	3,625	30,808	1,772	33,832	1,508	5,075	51,955
1960	632,772	421,168	128,992	4,965	8,750	3,541	24,658	1,124	28,649	764	10,161	115,070
1970	768,559	455,060	178,531	17,286	42,087	4,663	19,685	2,063	33,175	411	15,598	179,735

NA Not available.

¹Includes persons living on the Midway Islands, 1910-1940, and other minor outlying islands, 1940, reported with Hawaii for census purposes. The revised 1970 census total was 769,913.

²Estimated by interpolation for 1853, 1866-1884, and 1896. The actual numbers enumerated in the decennial U.S. censuses were 588 in 1850, 584 in 1870, and 1,147 in 1880.

³Data for 1940 and 1950 include persons born abroad or at sea of native U.S. parents.

⁴Chiefly American Samoa and Puerto Rico. Data for 1900-1930, 1960, and 1970 also include persons born abroad or at sea of native U.S. parents: unspecified in 1900 and 1910, 141 in 1920, 357 in 1930, 2,738 in 1960, and 13,272 in 1970.

⁵Figure for 1853 includes Portugal, Spain, Spanish America, Brazil, and the "Western and Cape de Verde Islands".

⁶Includes foreign born not reporting country of birth.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 74, 75, 121, 122, and 183, and underlying data; *U.S. Census of Population: 1970*, Final Report PC(1)-D13, tables 140 and 141, and Final Report PC(2)-2A, table 2.

Table 14.—CITIZENSHIP: 1900 TO 1970
(Persons born in the Philippine Islands were classified as native until 1946 and foreign born thereafter.)

Year	Total population ¹	Citizen		Alien ²	Foreign born, citizenship not reported
		Native	Naturalized		
Males 21 and over:					
1900	79,607	13,064	1,199	63,636	1,708
1910	83,996	18,186	2,562	62,916	332
1920	90,522	37,096	2,498	50,734	194
All persons:					
1920	255,912	168,671	4,566	82,302	373
1930	368,336	299,799	5,260	63,109	168
1940	423,330	370,717	5,553	47,060	
1950	499,769	423,153	10,171	65,610	835
1960	632,772	563,872	(NA)	(NA)	(NA)
1970	768,561	694,983	30,566	43,012	—

NA Not available

¹Totals differ slightly from final official census counts for 1910-1950 and 1970.

²Includes persons having first papers: for males 21 and over, 736 in 1900, 425 in 1910, and 471 in 1920; for all persons, 518 in 1920, 828 in 1930, 397 in 1940, and not reported thereafter.

Source: *12th Census . . . 1900, Population, Part II*, p. ccxviii; *13th Census . . . 1910, Abstract of the Census . . . with Supplement for Hawaii*, p. 581; *14th Census . . . 1920, Bulletin, Population, Hawaii, Composition and Characteristics of the Population*, p. 4; *15th Census . . . 1930, Outlying Territories and Possessions*, p. 6; *16th Census . . . 1940, Population, Second Series, Hawaii*, p. 7; *U.S. Census of Population: 1950*, Bulletin P-C52, table 32; *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 38; *U.S. Census of Population: 1970*, Final Report PC(1)-D13, table 143.

Table 15.—ALIEN ADDRESS CARDS RECEIVED FROM PERSONS RESIDING IN HAWAII, BY NATIONALITY: 1940 TO 1973

Year	Total	Philippines	Japan and Ryukyu Is.	China and Taiwan	Korea	All others ¹
1940	91,447	38,340	38,223	4,981	2,491	7,412
1951	66,181	(NA)	(NA)	(NA)	(NA)	(NA)
1960	51,316	(NA)	18,832	(NA)	(NA)	(NA)
1963	48,025	21,624	19,182	1,506	680	5,033
1964	47,616	21,724	18,459	1,351	751	5,331
1965	46,352	20,449	18,047	1,383	880	5,593
1966	45,794	19,678	17,780	1,368	893	6,075
1967	46,998	21,315	16,975	1,499	914	6,295
1968	47,882	22,159	16,388	1,640	944	6,751
1969	49,642	23,410	15,850	1,750	1,005	7,627
1970	53,003	26,311	15,351	2,213	1,138	7,990
1971	57,187	29,116	15,099	2,167	1,483	9,322
1972	60,898	31,210	15,271	2,421	2,154	9,842
1973	63,034	32,183	15,125	2,446	2,906	10,374

NA Not available.

¹Nationalities over 500 in 1973 included United Kingdom (2,395), Canada (1,818), and Germany (745).

Source: U.S. Immigration and Naturalization Service, *Annual Report* and tabular releases.

Table 16.—MOTHER TONGUE: 1970

Mother tongue ¹	Native	Foreign born
All persons	692,964	75,595
English	439,100	5,407
Spanish ²	9,691	1,160
Portuguese	7,240	436
Chinese	19,037	5,403
Japanese	105,498	20,079
All others	65,903	42,448
Not reported	46,495	662

¹Based on replies to the question, "What language, other than English, was spoken in this person's home when he was a child?"

²"Persons of Spanish language" numbered 23,276. This included persons of Spanish mother tongue and all other persons in families in which the head or wife reported Spanish as his or her mother tongue.

Source: *U.S. Census of Population: 1970*, Final Report PC(1)-D13, tables 139 and 142.

Table 17.—HOUSEHOLD AND FAMILY CHARACTERISTICS: 1950 TO 1970

Subject	1950	1960	1970 ¹
RELATIONSHIP TO HEAD OF HOUSEHOLD			
All persons	499,794	632,772	768,561
In households	463,230	592,807	730,095
Head of household	111,858	153,064	203,088
Wife of head	80,740	112,452	147,818
Child under 18 of head	156,395	226,103	250,208
Other child of head	} 96,483	87,858	{ 56,122
Other relative of head			{ 53,837
Not related to head	17,754	13,330	19,022
In group quarters	36,564	39,965	38,466
Inmate of institution	5,041	4,621	3,854
Military barracks and other	31,523	35,344	34,612
Persons per household	4.14	3.87	3.59
FAMILY CHARACTERISTICS			
Families	96,460	130,871	170,358
Husband-wife families	(NA)	113,164	147,818
Families with female head	(NA)	11,842	15,871
Other families	(NA)	5,865	6,669
Unrelated individuals	57,230	67,996	83,093
Persons per family	(NA)	4.29	3.98
Married couples	90,844	120,192	154,678
With own household	80,848	112,937	147,326
Without own household	9,996	7,255	7,352
Percent without own household	11.0	6.0	4.8

NA Not available.

¹Excludes 1,352 persons not tabulated by household or family status.

Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13B, table 19, Final Report PC(1)-13C, table 50, and PC(1)-13D, table 110; *U.S. Census of Population: 1970*, Final Report PC(1)-B13, table 22, and PC(1)-C13, tables 52 and 57. The 1950 figure for unrelated individuals is corrected.

Table 18.—MARRIED COUPLES, BY RACE OF PARTNERS AND YEAR MARRIED: 1970
(Persons of mixed race classified on basis of self-identification or by race of father.)

Race of husband	All married couples	Race of wife							
		White	Negro	Hawaiian	Japanese	Chinese	Filipino	Korean	Other race
All married couples	154,530	58,001	1,155	13,340	51,816	11,155	15,207	3,608	243
White	60,022	50,288	109	2,387	3,806	1,187	1,202	938	105
Negro	1,255	66	1,026	32	62	—	37	32	—
Hawaiian	12,667	2,902	—	7,846	700	606	413	178	22
Japanese	47,690	1,385	20	685	44,192	795	372	218	23
Chinese	11,149	1,069	—	612	1,154	7,957	142	196	19
Filipino	17,933	1,694	—	1,387	1,335	380	12,872	246	19
Korean	3,592	514	—	370	547	192	169	1,800	—
Other race	222	83	—	21	20	38	—	—	60
Husband and wife married once, 1960 to 1970	45,805	19,959	524	3,743	12,586	2,573	5,167	1,147	106
White	20,099	16,542	70	772	1,317	367	672	337	22
Negro	571	19	454	—	45	—	37	16	—
Hawaiian	4,125	1,126	—	2,251	253	174	208	91	22
Japanese	11,518	590	—	186	10,034	399	171	138	—
Chinese	2,464	483	—	104	360	1,384	80	53	—
Filipino	5,725	830	—	368	456	147	3,885	20	19
Korean	1,200	348	—	62	101	83	114	492	—
Other race	103	21	—	—	20	19	—	—	43
Husband first married 1950 to 1959	42,613	15,805	401	3,758	14,748	2,822	4,055	940	84
White	16,242	13,713	39	561	1,080	386	233	188	42
Negro	448	35	362	18	17	—	—	16	—
Hawaiian	3,701	807	—	2,386	208	173	127	—	—
Japanese	13,199	436	—	253	12,237	101	128	21	23
Chinese	2,948	271	—	81	476	1,994	62	45	19
Filipino	4,837	414	—	312	426	99	3,470	116	—
Korean	1,196	87	—	147	304	69	35	554	—
Other race	42	42	—	—	—	—	—	—	—

Source: *U.S. Census of Population: 1970, Final Report PC(2)-4C, table 13, p. 268.*

Table 19.—MARITAL STATUS: 1853 TO 1970

Sex and year	Population 15 years old and over ¹	Single	Married		Wid- owed	Di- vorced	Not reported	Percent	
			Total	Separated				Single	Married
Both sexes:									
1853	(NA)	(NA)	41,849	(NA)	(NA)	(NA)	—	(NA)	(NA)
1860	(NA)	(NA)	39,203	(NA)	(NA)	(NA)	—	(NA)	(NA)
Male:									
1866	25,674	(NA)	15,817	(NA)	(NA)	(NA)	—	(NA)	61.6
1872	23,273	(NA)	13,077	(NA)	(NA)	(NA)	—	(NA)	56.2
1878	25,519	(NA)	12,238	(NA)	(NA)	(NA)	—	(NA)	48.0
1884	39,835	(NA)	14,449	(NA)	(NA)	(NA)	—	(NA)	36.3
1890	46,581	26,930	17,175	(NA)	2,307	169	—	57.8	36.9
1896	56,798	34,992	19,560	(NA)	2,007	239	—	61.6	34.4
1900	88,450	52,800	32,464	(NA)	2,493	247	446	59.7	36.7
1910	94,178	46,443	42,491	(NA)	4,278	912	54	49.3	45.1
1920	104,910	45,874	52,977	(NA)	5,011	956	92	43.7	50.5
1930	154,981	79,092	68,187	(NA)	6,030	1,622	50	51.0	44.0
1940	183,448	102,913	71,715	(NA)	6,211	2,609	—	56.1	39.1
1950	197,874	81,917	103,475	1,985	7,352	5,130	—	41.4	52.3
1960	232,805	84,965	134,421	1,553	7,075	6,344	—	36.5	57.7
1970	289,176	104,625	169,920	2,142	6,433	8,198	—	36.2	58.8
Female:									
1866	20,607	(NA)	15,470	(NA)	(NA)	(NA)	—	(NA)	75.1
1872	17,824	(NA)	12,682	(NA)	(NA)	(NA)	—	(NA)	71.2
1878	16,200	(NA)	11,789	(NA)	(NA)	(NA)	—	(NA)	72.8
1884	18,220	(NA)	12,835	(NA)	(NA)	(NA)	—	(NA)	70.4
1890	19,891	3,296	14,497	(NA)	1,974	124	—	16.6	72.9
1896	22,021	4,052	15,634	(NA)	2,118	217	—	18.4	71.0
1900	30,880	4,655	24,048	(NA)	1,998	120	59	15.1	77.9
1910	41,074	6,744	31,380	(NA)	2,559	364	27	16.4	76.4
1920	60,197	10,721	45,550	(NA)	3,479	416	31	17.8	75.7
1930	80,014	19,602	53,948	(NA)	5,523	934	7	24.5	67.4
1940	118,238	40,733	66,569	(NA)	8,819	2,117	—	34.5	56.3
1950	153,515	43,445	94,520	1,127	11,736	3,814	—	28.3	61.6
1960	193,684	44,376	128,528	1,138	15,099	5,681	—	22.9	66.4
1970	264,612	68,009	166,596	2,406	19,909	10,098	—	25.7	63.0

NA Not available

¹Data for 1940-1970 refer to persons 14 years old and over.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 76 and 123, and underlying data; *U.S. Census of Population: 1970, Final Report PC(1)-B13, table 22.*

Table 20.—CHURCHES AND CHURCH MEMBERSHIP: 1972

(Estimates based on a telephone and mail survey by the Department of Religion, University of Hawaii. Definitions differ from group to group and hence are not directly comparable.)

Denominational group	Denominations	Churches	Membership ¹
All denominations	75	799+	541,844+
Buddhist	16	96+	121,460
Honpa Hongwanji	1	38	30,000
Nichiren Shoshu	1	(NA)	28,800
Todaiji Mission	1	(NA)	30,000
Other Buddhist groups	13	(NA)	32,660
Christian	37	604+	347,692+
Roman Catholic	1	69	220,000
Protestant ²	19	354+	81,102
Episcopal	1	41	13,384
Hoomana oke Akua ole	1	(NA)	10,000
United Church of Christ	1	110	17,997
Other Protestant groups ²	16	(NA)	39,721
Holiness faiths	9	56+	4,925+
Metaphysical Christian	3	6	834
Church of the Latter Day Saints	1	53	30,000
Other Christian groups	4	66	10,831
Jewish	1	2	1,072
Shinto	4	6+	43,500+
New religious movements ³	8	56	16,340
Other religious faiths ⁴	9	35+	11,780+

NA Not available

¹As estimated by church central offices on Oahu. Totals and subtotals include duplications caused by multiple membership.

²Excludes denominations with fewer than 500 members.

³Primarily of Japanese derivation.

⁴Baha'i, Church of Scientology, Hare Krishna, indigenous Hawaiian, Unitarian, and other groups.

Source: E. M. and M. E. McCrath, Department of Religion, University of Hawaii.

**Table 21.—COMPONENTS OF CHANGE IN THE CIVILIAN POPULATION: 1960 TO 1970
AND 1970 TO 1972**

Subject	April 1, 1960 to March 31, 1970			April 1, 1970 to June 30, 1972		
	Civilian population	Military dependents	Other civilians	Civilian population	Military dependents	Other civilians
Net change	+133,937	+1,801	+132,136	+41,818	+4,364	+37,454
Natural increase	126,161	42,351	83,810	26,015	8,055	17,960
Percent	94.2	—	63.4	62.2	—	48.0
Births	163,762	43,908	119,854	35,641	8,388	27,253
Deaths	37,601	1,557	36,044	9,626	333	9,293
Military separations						
less inductions	-4,120	—	-4,120	+4,137	—	+4,137
Net in-migration	+11,896	-40,550	+52,446	+11,666	-3,691	+15,357
Percent	8.9	—	39.7	27.9	—	41.0
In-migrants ¹	(NA)	(NA)	192,541	(NA)	(NA)	70,049
From U.S.	(NA)	(NA)	156,025	(NA)	(NA)	54,976
Aliens	(NA)	(NA)	36,516	(NA)	(NA)	15,073
Out-migrants ¹	(NA)	(NA)	140,095	(NA)	(NA)	54,692

NA Not available

¹Excludes persons moving to or from U.S. territories and possessions.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's In-Migrants, 1971* (Statistical Report 89, April 10, 1972), pp. 17-18, and *The Population of Hawaii, 1972* (Statistical Report 95, May 2, 1973), table 4.

**Table 22.—INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND OR ABROAD:
1950 TO 1973**

Year ended June 30—	All in- tended resi- dents	Migrants from the Mainland U.S. ¹				Immigrants from abroad ²		
		Total	Military personnel	Military dependents	Other civilians	Total	Filipinos	Other nationalities
1950	—	—	—	—	—	179	—	—
1951	—	—	—	—	—	294	—	—
1952	6,833	6,131	—	—	—	702	—	—
1953	7,589	6,976	—	—	—	613	—	—
1954	6,549	5,728	—	—	—	821	—	—
1955	7,451	6,500	—	—	—	951	—	—
1956	11,047	9,960	—	—	—	1,087	—	—
1957	14,908	13,524	—	—	—	1,384	—	—
1958	19,547	18,140	—	—	—	1,407	—	—
1959	17,492	15,876	—	—	—	1,616	—	—
1960	19,589	17,970	—	—	—	1,619	—	—
1961	15,837	14,075	1,690	1,723	10,662	1,762	530	1,232
1962	21,503	19,455	3,302	5,176	10,977	2,048	776	1,272
1963	22,222	20,455	3,280	5,760	11,415	1,767	569	1,198
1964	25,215	23,592	4,251	5,986	13,355	1,623	455	1,168
1965	29,593	27,872	6,312	6,949	14,611	1,721	447	1,274
1966	31,249	28,179	10,379	4,399	13,401	3,070	1,352	1,718
1967	44,244	40,419	12,840	8,154	19,425	3,825	2,147	1,678
1968	46,829	42,136	13,431	7,593	21,112	4,693	3,033	1,660
1969	46,809	41,610	12,738	7,652	21,220	5,199	3,181	2,018
1970	51,386	42,373	10,158	8,470	23,745	9,013	6,426	2,587
1971	47,190	41,135	9,249	7,278	24,608	6,055	3,704	2,351
1972	50,437	43,672	9,217	10,582	23,873	6,765	3,764	3,001
1973	46,443	41,811	11,200	9,332	21,279	4,632	2,682	1,950

¹Intended residents arriving by civilian carriers from Mainland States. Includes a few aliens. Totals not available before October 15, 1950; military status not available before April 1, 1960. Data for 1964-1970 (and breakdown by military status for 1961-63) have been revised.

²Immigrants admitted to the United States, reporting Hawaii as their State of intended future permanent residence. Not available by nationality before July 1, 1960. Data for 1973 are preliminary and subject to later revision.

Source: Hawaii Visitors Bureau, *Revised Visitor Statistics, 1964-1970* (July 1971) and records; Hawaii State Department of Planning and Economic Development, *Hawaii's In-Migrants* (annual); U.S. Immigration and Naturalization Service, *Annual Report*, and records.

Table 23.—RESIDENCE FIVE YEARS EARLIER: 1950 TO 1970

Census date (April 1)	Hawaii residents on census date by place of residence 5 years earlier ¹							Mainland on census date, Hawaii 5 years earlier
	Population 5 years old and over	Same house as census date	Different house, same county ²	Different county, same State ²	Different State in U.S.	Abroad	Moved, residence not reported	
1950	435,135	202,100	141,020	22,320	61,320		8,375	(³)
1960	551,781	240,895	175,971	15,281	94,768	19,402	5,464	84,740
1970	697,840	320,579	161,800	13,347	125,732	33,518	42,864	112,443

¹Data for 1950 refer to place of residence on August 14, 1945 (V-J Day), approximately 4.6 years prior to the census date.

²Islands rather than counties were specified in the 1950 census.

³Mobility data for Mainland residents in 1950 referred to place of residence as of April 1, 1949, one year prior to the census date. Persons who were Hawaii residents in 1949 and Mainland residents in 1950 numbered 26,460.

Source: *U.S. Census of Population: 1950*, Bulletin P-B52, table 17, and Advance Reports, Series PC-14, No. 17, table 12; *U.S. Census of Population: 1960*, Final Report PC(1)-C13, table 42, and Final Report PC(2)-2B, table 16; *U.S. Census of Population: 1970*, Final Report PC(2)-2E, tables 1 and 4.

Table 24.—PERSONS NATURALIZED: 1960 TO 1972

Year ended June 30	Number
1960	2,377
1961	1,668
1962	1,534
1963	1,629
1964	1,542
1965	1,319
1966	1,625
1967	1,902
1968	1,601
1969	1,607
1970	2,658
1971	2,135
1972	2,389

Source: U.S. Immigration and Naturalization Service, *Annual Report* for 1969-1972.

SECTION 2

VITAL STATISTICS AND HEALTH

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

Vital indices generally reflect the high health standards of Hawaii. Expectation of life at birth was 70.46 years for males and 77.18 years for females in 1969-1971, about twice the 1884-1885 average of 36.5 years. The provisional crude death rate in 1971 was only 5.8, half the 1930 level and four-fifths below mortality rates at the turn of the century. Deaths under one year of age per 1,000 live births dropped from 205 in 1910 to 16.2 in 1971. The provisional 1971 crude birth rate was 21.5. Over 99 percent of all babies were born in hospitals, and a fourth were born to military couples. One out of eleven births was illegitimate. Marriages numbered 9,675 in 1971, with about a third accounted for by nonresidents. Divorces reached a 1971 total of 3,690. The State had 31 hospitals (with 5,021 beds) and 161 nursing and care homes (with 2,162 beds) when most recently surveyed. Average length of stay in the largest of the hospitals was 7.5 days in 1971, compared with 13.0 in 1920 and 59 in the 1870's. State licensing boards listed 1,051 physicians and surgeons, 494 dentists, 3,702 professional nurses, and 220 pharmacists.

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. Section 2 of the *Statistical Abstract of the United States: 1972* contains similar data for the nation as a whole.

Table 25.—BIRTHS, DEATHS, AND INFANT DEATHS: 1849 TO 1972

(Place of occurrence basis. Not adjusted for underregistration, known to have been significant before 1920. All data refer to calendar years unless otherwise specified)

Year	Live births	Deaths ¹	Rate per 1,000 pop. ²		Infant death rate ³	Percent of births in hospitals	Illegitimate birth per 1,000 live births
			Birth	Death ¹			
1849	1,422	4,320	16.6	50.5	(NA)	(NA)	(NA)
1855	1,642	1,685	22.5	23.1	(NA)	(NA)	(NA)
1860	1,672	2,343	23.8	33.4	(NA)	(NA)	(NA)
1866	1,713	2,941	26.9	46.2	(NA)	(NA)	(NA)
1870	2,413	3,819	40.8	64.6	(NA)	(NA)	(NA)
1875	2,558	2,988	47.2	55.1	(NA)	(NA)	(NA)
1880-81 ⁴	2,350	2,550	35.6	38.6	(NA)	(NA)	(NA)
1884-85 ⁴	1,589	1,792	19.7	22.2	(NA)	(NA)	(NA)
1890	(NA)	(NA)	(NA)	30.6	(NA)	(NA)	(NA)
1895	(NA)	(NA)	(NA)	26.5	(NA)	(NA)	(NA)
1900	(NA)	(NA)	(NA)	32.8	(NA)	(NA)	(NA)
1905 ⁵	2,609	2,686	15.7	16.1	319.5	(NA)	(NA)
1910 ⁶	4,302	2,941	22.8	15.6	205.5	(NA)	(NA)
1915 ⁷	7,278	3,556	33.1	16.2	156.8	(NA)	(NA)
1920 ⁷	10,165	4,564	40.4	18.1	108.8	(NA)	(NA)
1925 ⁷	13,109	4,017	43.3	13.3	112.2	(NA)	12.6
1930 ⁷	10,873	3,976	31.1	11.4	82.3	10.0*	26.6
1935 ⁷	9,252	3,236	25.1	8.8	67.4	37.0	52.0
1940 ⁷	9,524	3,025	24.1	7.6	43.7	69.5	62.5
1945 ⁷	12,299	2,829	26.7	6.2	27.6	91.2	72.9
1950	14,059	2,883	29.4	6.0	23.8	97.1	49.7
1955	16,305	3,087	33.8	6.4	20.6	98.8	49.5
1960	17,193	3,540	29.5	6.1	23.2	99.1	51.3
1961	17,558	3,367	29.4	5.6	21.7	99.1	57.6
1962	17,932	3,512	29.7	5.8	20.6	99.3	60.3
1963	17,744	3,643	28.5	5.9	22.5	99.3	64.1
1964	17,284	3,638	27.6	5.8	19.8	99.5	66.6
1965	16,259	3,705	25.0	5.7	21.5	99.3	72.1
1966	14,943	3,770	22.8	5.7	18.9	99.4	83.8
1967	14,765	3,897	22.2	5.8	16.9	99.5	87.5
1968	14,595	4,192	21.5	6.2	19.0	99.3	94.8
1969	15,755	4,146	22.5	5.9	19.2	99.5	94.5
1970	16,467	4,125	22.9	5.7	19.1	99.5	94.6
1971	15,845	4,304	21.4	5.8	16.0	99.4	88.4
1972 ⁸	15,300	4,433	20.2	5.8	17.6	(NA)	(NA)

*1931 estimate.

NA Not available.

¹Death data include armed forces through 1940 but exclude them thereafter. The 1890, 1895, and 1900 rates are for Honolulu only.

²Based on total resident population through 1900 and civilian resident population thereafter.

³Deaths under one year per 1,000 live births. The 1905 rate is for Honolulu and Hilo Districts.

⁴Annual averages for two-year period.

⁵The infant death rate refers to the year ended June 30.

⁶All data refer to the year ended June 30.

⁷All data except the infant death rate refer to the year ended June 30.

⁸Preliminary.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 165-167 and 171; Hawaii State Department of Health, *Annual Report for 1925-1950, Annual Report, Statistical Supplement for 1955 and later years, and records.*

**Table 26.—BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS:
1971 AND 1972**

Military status	Live births ¹		Deaths ¹		Birth rate ²		Death rate ²	
	1971	1972 ³	1971	1972 ³	1971	1972 ³	1971	1972 ³
Total population ..	15,845	15,500	4,351	4,493	19.3	18.2	5.3	5.3
Armed forces	—	—	47	60	0	0	0.9	1.2
Civilians	15,845	15,500	4,304	4,433	20.6	19.4	5.6	5.6
Military								
dependents	3,668	3,543	149	159	59.0	53.5	2.4	2.4
Other civilians	12,177	11,957	4,155	4,274	17.2	16.3	5.9	5.8

¹Place of occurrence basis.

²Per 1,000 de facto population. For rates based on resident population, see the preceding table.

³Provisional.

Source: Vital events from Hawaii State Department of Health, *Statistical Report, 1971*, pp. 1, 8, and 28, and records. Deaths of military dependents based on an estimated crude death rate of 2.4. Rates based on estimates in the Hawaii State Department of Planning and Economic Development, *Statistical Report 95* (May 2, 1973).

Table 27.—CHARACTERISTICS OF BIRTHS AND DEATHS: 1961 AND 1971
(Place of occurrence basis)

Subject	1971	1961
LIVE BIRTHS		
Number	15,845	17,558
Percent on Oahu	83.1	84.6
Males per 100 females	107.6	108.4
Percent attended by physician	99.7	99.6
Percent with prenatal visit in first 3 months	62.9	47.5
Percent of mixed race ¹	41.7	36.9
Median age of mother (years)	24.9	26.0
Percent first births	38.4	22.3
Median weight of single births (lb., oz.) ²	7-2	7-0
Percent to father with education of 12 years or more	82.8	(NA)
Percent of births plural	1.5	1.7
Percent premature	8.4	9.1
Percent with one or more congenital malformations	1.1	(NA)
Illegitimate births per 1,000 unmarried women 14-44 ³	21.9	18.7
CIVILIAN DEATHS		
Number	4,304	3,367
Percent on Oahu	75.2	72.9
Males per 100 females	156.7	153.3
Median age (years)	66.0	63.4
INFANT DEATHS		
Number	254	381
Rate per 1,000 live births	16.0	21.7
Under 1 day	7.7	9.9
1 to 6 days	3.2	5.8
7 to 27 days	1.3	1.1
28 days to 11 months	3.8	4.9

NA Not available.

¹Includes Part Hawaiian. Based on births of known parentage.

²Includes plural births for 1961.

³Data refer to 1970 and 1960.

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1961 and 1971.

Table 28.—CHILDREN EVER BORN: 1890 TO 1970

Age of women and year	All women	Women ever married	Mothers ¹	Children ever born ¹			
				Total	Per 1,000 women	Per 1,000 women ever married	Per 1,000 mothers
15 and over:							
1890	19,891	16,595	10,664	46,100	2,318	2,778	4,323
1896	22,021	17,969	12,391	54,039	2,454	3,007	4,361
1960	188,842	150,451	132,612	462,682	2,450	3,075	3,489
1970	256,725	196,245	168,005	549,335	2,140	2,799	3,270
15 to 24:							
1960	44,813	16,240	12,014	22,537	503	1,388	1,876
1970	69,037	22,904	13,504	21,642	313	945	1,603
25 to 34:							
1960	46,963	42,198	37,597	105,676	2,250	2,504	2,811
1970	53,438	46,859	39,799	106,654	1,996	2,276	2,680
35 to 44:							
1960	42,590	40,165	36,584	120,853	2,838	3,009	3,303
1970	48,168	45,224	41,874	141,507	2,938	3,129	3,379
45 and over:							
1950 ²	37,620	36,045	31,260	164,370	4,566	4,775	5,258
1960	54,476	51,848	46,417	213,616	3,921	4,120	4,602
1970	86,082	81,258	72,828	279,532	3,247	3,440	3,838

¹Available only for census years and age groups reported in table. Omitted entirely from the 1900-1940 censuses and for women under 45 in 1950.

²Data on mothers and children ever born (including computed ratios) exclude 1,620 women ever married not reporting number of children.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 73, 78, and 126. U.S. Bureau of the Census, *U.S. Census of Population: 1950*, Bulletin P-C52, table 44; *U.S. Census of Population: 1960*, Final Report PC(1)-13D, table 113; *U.S. Census of Population: 1970*, Final Report PC(1)-D13, table 161.

Table 29.—FETAL AND MATERNAL DEATHS: 1915 TO 1972

(Place of occurrence basis)

Year	Fetal deaths ¹			Maternal deaths
	Total	Stillbirths ²	Induced abortions ³	
1915	(NA)	222	(NA)	49
1920	(NA)	370	(NA)	87
1925	(NA)	433	(NA)	76
1930	(NA)	326	(NA)	67
1935	(NA)	232	(NA)	37
1940	(NA)	190	(NA)	23
1945	(NA)	192	(NA)	20
1950	(NA)	175	(NA)	12
1955	1,004	266	(NA)	9
1960	1,026	261	3	5
1961	1,095	249	4	4
1962	1,223	234	9	5
1963	1,194	211	9	3
1964	1,200	223	13	2
1965	1,070	234	45	2
1966	899	172	15	3
1967	1,007	202	12	1
1968	1,114	209	11	3
1969	1,231	215	19	1
1970 ⁴	4,287	340	2,741	3
1971	5,739	372	4,135	3
1972 ⁵	6,227	(NA)	4,541	(NA)

NA Not available.

¹Not adjusted for underreporting, known to have been appreciable for induced abortions before 1970 and for all fetal deaths under 20 weeks gestation in all years.

²Fetal deaths of 20 or more weeks gestation.

³Includes all reported therapeutic, criminal, and other elective abortions.

⁴Most legal restrictions against induced abortions were removed as of March 11, 1970.

⁵Preliminary.

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1955-1971, and records.

Table 30.—CIVILIAN DEATHS, BY CAUSE: 1931 TO 1971

Cause of death ¹	Number, 1971	Percent distribution			Rate per 100,000 population		
		1971	1961	1931	1971	1961	1931
All causes	4,304	100.0	100.0	100.0	583.5	549.6	994.4
Diseases of the heart	1,478	34.3	32.3	10.7	200.4	177.6	106.9
Malignant neoplasms	775	18.0	16.8	6.1	105.1	92.1	61.0
Cerebrovascular diseases	432	10.0	9.2	5.3	58.6	50.8	52.8
All accidents	279	6.5	5.9	6.9	37.8	32.5	68.2
Influenza and pneumonia	172	4.0	4.8	11.6	23.3	26.1	114.9
Certain causes of mortality in early infancy	133	3.1	7.5	6.8	18.0	41.5	67.7
Diabetes mellitus	125	2.9	3.0	1.3	16.9	16.3	12.5
Suicides	97	2.3	1.6	1.8	13.2	8.7	17.6
Cirrhosis of liver	90	2.1	1.3	1.3	12.2	7.2	12.5
Congenital anomalie	81	1.9	2.3	1.7	11.0	12.7	17.1
Bronchitis, asthma, and emphysema	70	1.6	(NA)	(NA)	9.5	(NA)	(NA)
Aneurisms and other diseases of arteries	43	1.0	(NA)	(NA)	5.8	(NA)	(NA)
Other external causes	40	0.9	(NA)	(NA)	5.4	(NA)	(NA)
Homicide and legal intervention ...	34	0.8	0.4	0.6	4.6	2.0	5.9
Arteriosclerosis	32	0.8	1.0	0.6	4.3	5.5	6.4
All other causes	423	9.8	13.9	45.3	57.4	76.7	450.9

NA Not available.

¹The fifteen leading causes of death in 1971 listed in order of deaths for that year.

Source: Hawaii State Department of Health, *Statistical Report, 1971*, p. 34.

Table 31.—EPIDEMIC MORTALITY: 1804 TO 1972

Year	Disease	Deaths ¹
1804	“Okuu” (cholera?)	< 15,000
1818	“Catarrhs and fevers”	60
1825	Unnamed	“Great”
1826	Influenza	“Thousands”
1839	Mumps	“Great numbers”
1848-1849	Measles, whooping cough, influenza	10,000
1853	Smallpox	5,000-6,000
1857	Influenza, dengue	“Many”
1870-1871	Scarlet fever	“Great”
1878-1880	Whooping cough	68
1881	Smallpox	282
1888	Whooping cough	104
1889-1890	Measles, dysentery	26
1895	Cholera	64
1899-1900	Bubonic plague	61
1918-1920	Influenza	1,700
1928-1929	Cerebrospinal meningitis	68
1936-1937 ²	Measles	205

¹Excludes deaths primarily resulting from famine; see Robert C. Schmitt, “Famine Mortality in Hawaii,” *The Journal of Pacific History*, Vol. 5 (1970), pp. 109-115.

²Most recent of record as of early 1973.

Source: Robert C. Schmitt, “The *Okuu*—Hawaii’s Greatest Epidemic,” *Hawaii Medical Journal*, Vol. 29, No. 5, May-June 1970, pp. 359-364.

**Table 32.—ACCIDENTS AND NATURAL DISASTERS CAUSING FIVE OR MORE DEATHS:
1779 TO 1972**

Kind of disaster	Worst disaster		All disasters	
	Year	Deaths	Number	Deaths
All categories	1941	2,500	121	5,704
Natural disasters	1790	400	11	755
Tsunami	1946	159	5	287
Flood, wind, or earth movement	1868	31	5	68
Volcano	1790	400	1	400
Fire or explosion	1944	163	6	219
Transportation	1830	250	97	2,058
Marine	1830	250	51	1,501
Air	1955	66	39	517
Railroad or motor vehicle	1944, 1969	7	7	40
Violence	1941	2,500	7	2,672
Pearl Harbor attack	1941	2,500	1	2,500
Assault, murder, or riot	1790	100+	6	172

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *Hawaiian Journal of History*, Vol.III, 1969, pp. 66-86, as updated to December 31, 1972.

Table 33.—DEATHS, BY METHOD OF DISPOSITION: 1956, 1964, AND 1971

Method of disposition	1956	1964	1971	Percent distribution										
				1956	1964	1971								
All deaths	3,084	3,638	4,304	100.0	100.0	100.0								
Burial	1,812	2,092	2,237	58.8	57.5	52.0								
Cremation	1,117	1,274	1,614	36.2	35.0	37.5								
Removal	} 155	{ 254	415	} 5.0	{ 7.0	9.6								
Entombment							{ 18	31	{ 0.5	0.7				
Educational purpose											{ —	5	{ 0.0	0.1
Other methods .....															{ —	2	{ 0.0	0.0

Source: Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1956 and 1964, and records.

Table 34.—AVERAGE REMAINING LIFETIME AT SPECIFIED AGES: 1884-1885 TO 1969-1971

Sex and year	Birth	1	15	25	45	65
Both sexes:¹						
1884-1885	36.5	41.2	33.9	27.8	18.4	5.1
Male:						
1919-1920	47.79	—	—	—	—	—
1929-1931	52.63	57.24	46.43	38.03	22.01	8.71
1939-1941	59.46	61.79	49.38	40.31	23.37	9.10
1949-1951	67.76	68.77	55.54	46.20	28.01	13.70
1959-1961	69.79	70.64	57.14	47.75	29.18	14.05
1969-1971	70.46	71.09	57.52	48.21	29.97	14.80
Female:						
1919-1920	47.27	—	—	—	—	—
1929-1931	55.31	58.55	47.38	39.10	23.63	9.16
1939-1941	62.60	64.32	51.67	42.51	25.26	9.85
1949-1951	71.27	71.84	58.51	48.93	30.50	15.11
1959-1961	74.01	74.50	60.97	51.27	32.33	16.28
1969-1971	77.18	77.45	63.88	54.21	35.37	18.64

¹City of Honolulu only.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), p. 172; Hawaii State Department of Health, *Statistical Report, 1971*, p. 6.

Table 35.—ABORTIONS: MARCH 13, 1970 TO MARCH 12, 1971

(Covers the first year of experience following legalization of induced abortion by Act I, Session Laws of 1970, which became effective March 11, 1970)

Subject	Number	Subject	Number
Number performed	3,643	Average age of woman (years)	24.6
Abortions per 1,000 live births	221	Currently married (percent)	36.4
Performed on Oahu (percent)	94.1	Hawaii resident under 1 year (percent)	19.8
Gestation 13 weeks or over (percent)	13.0	Protestant (percent)	40.4
By dilatation and curettage and/or suction (percent)	89.3	Roman Catholic (percent)	29.0
With complications (percent)	4.6	Income under \$6,000 (percent)	32.8
Deaths	0	First pregnancy (percent)	50.8
In hospital 13 hours or more (percent)	45.5	First abortion (percent)	91.8
Usual cost (dollars)	350	Mean age at first coitus (years)	18

Source: Pregnancy, Birth Control, and Abortion Study, University of Hawaii, *Abortion in Hawaii: The First Year. Report to the Legislature* (January 24, 1972).

Table 36.—HOSPITAL FACILITIES AND USE: 1931 TO 1971

Subject	Hospitals ¹					Nursing and care homes: 1971
	1931	1947	1960	1970	1971	
Number of institutions	36	41	34	31	31	157
Oahu	12	15	19	17	17	129
Other islands	24	26	15	14	14	28
Total beds	2,968	4,687	5,087	5,021	4,641	2,104
Acceptable beds	—	—	4,145	2,698	2,681	—
Bassinets	107	396	393	326	332	—
Percent occupancy	75	76	71	77	80	93
Average census	2,212	3,541	3,626	3,848	3,721	1,957
Patient days	807,380	1,292,465	1,323,823	1,405,019	1,356,789	646,399
Admissions	31,053	65,198	83,327	88,861	90,696	1,914
Average stay (days)	26.0	19.8	15.9	15.8	15.0	337.7

¹Excludes Waimano Home, Kalaupapa Settlement, and hospitals not registered with the American Medical Association, 1931 and 1947, and military hospitals in all years.

Source: Raymond G. Nebelung and Robert C. Schmitt, *Hawaii's Hospitals, Past, Present and Future* (1948), pp. 29-38, 48, and 64; *Statistical Report, Department of Health*, for 1960, 1970, and 1971.

Table 37.—BEDS IN HOSPITALS AND NURSING AND CARE HOMES, BY TYPE AND ISLAND: 1971

Type of facility and bed	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
HOSPITALS¹							
All beds	4,641	502	303	12	296	3,259	269
General or acute	1,953	257	162	12	31	1,363	128
Matern.-gyn.	138	—	—	—	—	138	—
Pediatric	80	—	—	—	—	80	—
Mental	1,329	20	41	—	—	1,198	70
Tuberculosis	145	36	9	—	—	84	16
Orthopedic	40	—	—	—	—	40	—
Leprosy	372	—	—	—	265	107	—
Long-term	520	189	91	—	—	185	55
Rehabilitation	64	—	—	—	—	64	—
HOMES							
All types	2,104	36	139	—	—	1,870	59
Nursing homes	1,126	—	124	—	—	1,002	—
Care homes	978	36	15	—	—	868	59

¹Excludes Tripler General Hospital, a 900-bed armed services hospital on Oahu.

Source: Hawaii State Department of Health, *Statistical Report, 1971*, pp. 139-141.

**Table 38.—AVERAGE LENGTH OF STAY AND COST PER PATIENT DAY AT THE QUEEN'S HOSPITAL:
1859 TO 1972**

Year ¹	Average stay (days)	Cost per patient day (dollars)	Year	Average stay (days)	Cost per patient day (dollars)
1859-1861	42	0.83	1950	7.3	21.16
1877-1879	59	0.61	1960	6.5	37.90
1903	33.7	1.78	1970	7.9	82.04
1920	13.0	4.20	1971	7.5	95.17
1940	8.3	6.20	1972	7.8	113.65

¹August 1, 1859-June 20, 1861; 24-month period ended in mid-1879; calendar years 1903-1940; years ended June 30, 1950 and thereafter.

Source: Robert C. Schmitt, "Medical Costs in Hawaii, 1859-1967," *Hawaii Medical Journal*, January-February 1968, pp. 236-239; The Queen's Medical Center, records.

Table 39.—SELECTED LONG-TERM CONDITIONS: 1870 TO 1972

Year	Hawaii State Hospital ¹			Waimano Training School & Hospital ²		Kalaupapa Settlement ³			Tuberculosis		
	Admissions ⁴		Average census ⁵	First admissions ⁶	Average census ⁷	Admissions	Deaths	Active cases, end of year	Active new cases	Deaths	On TB register, end of year
	Total	First									
1870	21	(NA)	32	—	—	57	58	279	(NA)	(NA)	—
1880	24	(NA)	36	—	—	51	152	606	(NA)	(NA)	—
1890	33	(NA)	70	—	—	202	158	1,213	(NA)	(NA)	—
1900	57	(NA)	155	—	—	101	85	1,023	(NA)	249	—
1910	94	(NA)	225	—	—	47	90	621	(NA)	330	—
1920	108	(NA)	368	—	—	1	53	546	1,056	531	944
1930	236	208	560	18	190	98	36	510	1,060	379	2,325
1940	289	218	901	34	364	(NA)	(NA)	350	717	257	1,474
1950	509	426	1,088	16	665	(NA)	(NA)	180	339	114	1,106
1960	389	257	1,173	46	833	9	2	80	293	13	701
1970	1,052	714	577	82	747	5	2	30	270	13	312
1971	1,015	691	568	49	749	8	—	29	328	13	315
1972	726	480	371	36	723	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹This is the only major mental hospital in Hawaii. It was opened, as Oahu Insane Asylum, at School and Lanakila Streets, Honolulu, in September 1866. It was renamed Territorial Hospital in 1925 and State Hospital in 1959. Most of the patients were moved to the new site near Kaneohe in January 1930.

²This is the only institution for mental deficiency in Hawaii. It was opened, as the Home for Feeble-Minded Persons, in March 1921. It was renamed Waimano Home in 1923 and Waimano Training School and Hospital in 1961.

³This was for many years the major facility for leprosy patients in Hawaii. It received its first patients in January 1866. Other patients were cared for at Kalihi Hospital (November 1865 to October 1949) and Hale Mohalu (October 1949 to the present). The latter institution had 23 active patients as of December 31, 1971.

⁴Excludes returns from conditional discharge or escape. Data for 1870-1890 are annual averages for four-year periods centered on April 1.

⁵Data for 1870-1900 and 1920 are end-of-year totals (March 31, 1870 to 1890, December 31, 1900, and June 30, 1920).

⁶Excludes returns from community placement.

⁷Data for 1960 and 1972 are end-of-year totals (December 31, 1960; June 30, 1972).

Source: *Annual Report of the Board of Health, 1868-1950*; *Statistical Report, Department of Health, 1959-1971*; *Report of the Governor of Hawaii to the Secretary of the Interior, 1930 and 1940*; *Annual Report of the Department of Institutions, 1940-1950*; Raymond G. Nebelung and Robert C. Schmitt, *Hawaii's Hospitals, Past, Present and Future* (1948); Hawaii State Department of Health, records; Hawaii State Hospital, records; Waimano Training School and Hospital, records.

✓ **Table 40.—STATISTICS FROM THE HAWAII HEALTH SURVEILLANCE PROGRAM SURVEY,
FOR OAHU: 1964-1967**

Subject	Number ¹
Average non-institutional, non-barracks population	565,000
Hospital discharges, annual average	66,500
Median length of stay per discharged person (days)	5.0
Acute conditions, annual average	1,040,700
Per 100 population	182.6
Persons with one or more chronic conditions, average	205,100
Percent of population	36.3
Restricted activity days, annual average per person	12.0
Bed days, annual average per person	4.8
Injuries, annual average per person ²	28.1
Home accidents, annual average per person ²	8.3

¹Based on sample of non-institutional non-barracks population surveyed April 1964-March 1967, unless otherwise specified.

²Surveyed April 1964-September 1965.

Source: Hawaii State Department of Health, unpublished tabulations.

**Table 41.—PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY
ISLAND: MARCH 28, 1973**

Professional group	Permanently licensed, Hawaii residents							Perma- nently licensed, non- residents	Limited and tem- porary licenses
	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai		
Physicians (M.D.)	1,142	64	44	2	5	993	34	569	190
Dentists	497	33	18	1	1	428	16	165	—
Registered nurses	3,405	230	173	7	21	2,868	106	616	—
Pharmacists	250	14	15	—	2	211	8	71	—

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

Table 42.—MARRIAGES AND DIVORCES: 1845 TO 1972
(Place of occurrence basis. Data are for calendar years unless otherwise specified.)

Year	Marriages	Divorces and annul- ments	Rate per 1,000 pop. ¹		Percent of marriages	
			Marriages	Divorces	Resident grooms	Inter- racial
1845	1,831	(NA)	18.9	(NA)	(NA)	(NA)
1850	(NA)	7	(NA)	0.1	(NA)	(NA)
1855	933	78	12.8	1.1	(NA)	(NA)
1860 ²	1,075	86	15.3	1.2	(NA)	(NA)
1864-65 ³	(NA)	26	(NA)	0.4	(NA)	(NA)
1870-71 ³	(NA)	38	(NA)	0.7	(NA)	(NA)
1874-75 ³	(NA)	4	(NA)	0.1	(NA)	(NA)
1880-81 ³	(NA)	79	(NA)	1.2	(NA)	(NA)
1884-85 ³	(NA)	54	(NA)	0.7	(NA)	(NA)
1890-91 ³	(NA)	48	(NA)	0.5	(NA)	(NA)
1895	(NA)	68	(NA)	0.7	(NA)	(NA)
1900	(NA)	48	(NA)	0.3	(NA)	(NA)
1905 ⁴	1,180	109	7.0	0.7	(NA)	(NA)
1910 ⁴	1,959	197	10.4	1.0	(NA)	(NA)
1915 ⁵	2,705	389	12.2	1.8	(NA)	11.5
1920 ⁵	2,127	570	8.4	2.2	(NA)	18.0
1925 ⁵	2,736	627	8.8	2.0	(NA)	21.9
1930 ⁵	2,443	529	6.9	1.5	(NA)	21.6
1935 ⁶	2,985	690	8.0	1.9	(NA)	20.0
1940 ⁶	5,355	946	13.5	2.4	(NA)	25.0
1945 ⁶	4,978	1,530	10.8	3.3	(NA)	32.2
1950	5,575	1,173	11.7	2.5	(NA)	29.7
1955	5,431	1,343	11.3	2.8	(NA)	31.3
1960	5,237	1,270	9.0	2.2	96.3	37.3
1961	5,298	1,556	8.9	2.6	96.3	36.1
1962	5,484	1,471	9.1	2.4	96.5	37.7
1963	5,750	1,515	9.2	2.4	95.9	38.6
1964	5,790	1,690	9.2	2.7	94.7	38.3
1965 ⁷	6,071	1,111	9.3	1.7	93.9	38.1
1966 ⁷	5,792	897	8.8	1.4	92.5	37.7
1967 ⁷	7,345	1,451	11.0	2.2	80.4	33.5
1968 ⁷	9,021	1,865	13.3	2.8	70.1	33.8
1969 ⁷	9,891	2,314	14.1	3.3	67.8	33.7
1970 ⁷	10,599	2,589	14.7	3.6	69.3	33.7
1971 ⁷	9,734	3,690	13.2	5.0	77.3	38.7
1972 ⁸	9,732	3,895	12.8	5.1	(NA)	(NA)

NA Not Available.

¹Based on resident civilian population.

²Divorce data are annual averages for 24-month period ended March 31, 1862.

³Annual averages for two-year period.

⁴Marriage data refer to year ended June 30.

⁵Interracial marriage percentage refers to four-year period ended June 30, 1916 (for 1915), 1924 (for 1920), 1928 (for 1925), and 1934 (for 1930).

⁶Interracial marriage percentage refers to year ended June 30.

⁷Divorce data are for final decrees only. An interlocutory decree of one year was established as of May 8, 1965; it was reduced to six months as of June 3, 1969 and abolished July 1, 1971.

⁸Preliminary.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 210-212; Hawaii State Department of Health, *Annual Report, Statistical Supplement* for 1966-1971, and records.

Table 43.—MARRIAGES, TOTAL AND INTERRACIAL, BY USUAL OCCUPATION OF GROOM: BIENNIAL PERIODS ENDED DECEMBER 31, 1957 AND 1968

Usual occupation	All marriages		Interracial marriages		Percent interracial	
	1956-57	1967-68	1956-57	1967-68	1956-57	1967-68
All grooms	10,055	16,368	3,499	5,404	34.8	33.0
No occupation	537	1,312	170	519	31.7	39.6
Civilian occupation	6,429	9,269	2,120	3,758	33.0	40.5
Professional, technical, and kindred workers	722	1,740	159	501	22.0	28.8
Managers, officials, proprietors, including farmers	562	974	165	300	29.4	30.8
Clerical and kindred workers	567	649	144	275	25.4	42.4
Sales workers	325	543	93	188	28.6	34.6
Craftsmen, foremen, and kindred workers	1,478	1,834	440	752	29.8	41.0
Operatives and kindred workers	1,388	1,663	546	810	39.3	48.7
Private household and service workers	422	813	183	409	43.4	50.3
Farm laborers and foremen	283	165	123	72	43.5	43.6
Laborers, except farm and mine	682	888	267	451	39.1	50.8
Armed forces	3,081	5,748	1,205	1,118	39.1	19.5
Not stated	8	39	4	9	—	—

Source: Robert C. Schmitt, "Recent Trends in Hawaiian Interracial Marriage Rates by Occupation," *Journal of Marriage and the Family*, Vol. 33, No. 2, May 1971, pp. 373-374.

SECTION 3

EDUCATION

This section presents statistics on school enrollment, graduates and degrees awarded, the highest grade of school completed, and school facilities, personnel and expenditures.

Enrollment in elementary, intermediate and high schools in 1972-1973 totalled 214,360, or almost double the 1940 figure. There were 219 public schools with 8,310 classroom teachers and 181,587 students (about 85 percent of the total). Some 42,000 students attended colleges and universities in the State in 1972, chiefly on the Manoa Campus of the University of Hawaii. Eighty-five percent of the children 5 and 6 years old were in school in 1970 (compared with 34 percent in 1910), and 53 percent in the 18- and 19-year old group were enrolled (compared with 14 percent sixty years earlier). Among adults, the illiteracy rate dropped from 35 percent in 1900 to 1.5 percent in 1970, and by the latter year approximately 26 percent of all residents 25 years of age or more could report having completed one or more years of college. The Hawaii State Library System had 1,216,408 volumes in 1972, with an annual circulation of 4.1 million; the University of Hawaii libraries in the same year counted 1,390,507 volumes.

Section 4 of the *Statistical Abstract of the United States: 1972* presents comparable data for the nation as a whole.

Table 44.—PUBLIC AND PRIVATE SCHOOLS, TEACHERS, ENROLLMENT, AND GRADUATES: 1820 TO 1973

Year ¹	Schools		Teachers		Enrollment or membership			High school graduates ²	
	Public ³	Private ⁴	Public ³	Private ⁴	Total	Public ³	Private ⁴	Public	Private
1820: Sept. 14 ⁵	—	1	—	—	40	—	40	—	—
1824: Sept. 17	—	—	—	50	1,600	—	1,600	—	—
1828: July-Aug.	—	—	—	500+	34,395	—	34,395	—	—
1831: Dec.	—	1,103	—	—	52,882	—	52,882	—	—
1841: May	—	357	—	505	18,034	—	18,034	—	—
1847 ⁶	—	—	625	—	19,644	—	—	—	—
1854	427	—	—	—	—	12,432	—	—	—
1859	301	—	290	—	—	9,782	—	—	—
1863	258	—	—	—	—	8,577	—	—	—
1869-1870	224	—	—	—	—	7,929	—	—	—
1875-1876	180	20	—	—	6,210	5,360	850	—	—
1879-1880	164	46	—	—	7,164	5,373	1,791	—	—
1885-1886	131	41	198	102	9,016	6,432	2,584	—	—
1889-1890	130	48	232	136	10,006	7,343	2,663	—	—
1895-1896	125	62	257	169	12,616	9,152	3,464	—	—
1899-1900	141	48	344	200	15,490	11,436	4,054	—	—
1904-1905	154	60	414	273	20,406	15,202	5,204	—	—
1909-1910	152	55	486	266	25,537	19,909	5,628	—	—
1914-1915	170	46	735	314	36,529	28,827	7,702	—	—
1919-1920	173	59	1,161	384	45,701	38,295	7,406	—	—
1924-1925	175	65	1,719	462	64,916	55,044	9,872	—	—
1929-1930	181	69	2,563	581	85,015	73,180	11,835	—	—
1934-1935	184	80	2,674	595	96,449	83,319	13,130	—	—
1939-1940	188	103	3,225	786	110,029	92,469	17,560	—	—
1944-1945	184	—	—	—	—	81,461	—	—	—
1949-1950	189	109	3,122	1,162	114,986	90,786	24,200	5,585	1,072
1954-1955	199	105	3,780	1,183	139,162	113,544	25,618	4,911	1,327
1959-1960	207	96	4,731	1,139	169,925	140,666	29,259	6,288	1,611
1960-1961	209	96	4,850	1,151	175,172	145,134	30,038	7,267	1,731
1961-1962	215	92	5,013	1,213	180,006	149,554	30,452	7,797	1,785
1962-1963	216	99	5,179	1,227	184,231	153,298	30,933	7,763	1,748
1963-1964	219	95	5,060	1,205	187,825	156,651	31,174	8,327	1,866
1964-1965	214	98	5,368	1,481	193,047	160,681	32,366	9,239	1,976
1965-1966	209	99	5,846	1,477	194,595	162,164	32,431	9,009	2,048
1966-1967	210	112	6,394	1,492	200,242	166,375	33,867	9,540	2,175
1967-1968	215	114	6,624	1,594	203,734	169,673	34,061	9,430	2,133
1968-1969	217	116	7,098	1,547	207,231	173,718	33,513	9,800	2,173
1969-1970	216	123	7,300	1,551	211,215	178,564	32,651	10,377	2,209
1970-1971	216	117	7,948	1,698	213,165	180,770	32,395	10,471	2,178
1971-1972	219	112	8,235	1,715	215,524	182,957	32,567	11,185	2,119
1972-1973	222	119	8,310	1,797	214,360	181,587	32,773	—	—

¹Month unspecified, 1847-1863; December 1869; March 1876; January 1880 and 1886; March (?) 1890; December (?) 1894-1904; December for private and June for public, 1909-1910 to 1934-1935; December for both public and private, 1939-1940 and later years.

²Not available before 1950. Twelfth-grade enrollment in public schools was 6 in 1900, 26 in 1910, 164 in 1920, 1,288 in 1930, and 4,264 in 1940; in private schools it was 502 in 1930 and 873 in 1940 (all data refer to December).

³Data before 1899 include both "common schools" (taught in Hawaiian) and "government select schools" (taught in English).

⁴Data before 1847 limited to Protestant missionary schools.

⁵Data limited to Oahu. There were "similar incipient efforts at Owhyhee and Atooi."

⁶Schools were classified in 1847 as either Protestant (495 schools and teachers, 16,528 "learners") or Catholic (129 schools and teachers, 3,116 "learners").

Source: *The Missionary Herald* for August 1821, May 1825, January 1830, and January 1833; *The Polynesian*, December 28, 1844; *Report of the Minister of Public Instruction* for 1848, 1855, and 1899; *Report of the President of the Board of Education* for 1860-1896; *Report of the Governor of Hawaii* for 1905-1935; *Report of the Department of Public Instruction* for 1940-1957; Hawaii State Department of Education, records (for 1939-1940 and later years).

Table 45.—PUPIL MEMBERSHIP, FACILITIES, AND EXPENDITURES OF PUBLIC AND PRIVATE SCHOOLS: 1971-1972

Subject	All schools	Public schools	Private schools
Pupil membership, all counties	215,524	182,957	32,567
City and County of Honolulu	174,691	145,501	29,190
County of Hawaii	18,861	17,508	1,353
County of Maui	13,385	12,011	1,374
County of Kauai	8,587	7,937	650
Pupil membership, all grades	215,524	182,957	32,567
Nursery	2,520	—	2,520
Kindergarten	14,851	12,865	1,986
1	16,134	13,929	2,205
2	16,757	14,556	2,201
3	17,198	15,064	2,134
4	17,006	14,877	2,129
5	16,762	14,616	2,146
6	16,488	14,238	2,250
7	16,407	13,888	2,519
8	15,892	13,441	2,451
9	16,185	13,649	2,536
10	16,116	13,718	2,398
11	14,548	12,337	2,211
12	13,586	11,373	2,213
Specials	4,450	3,782	668
Others	624	624	—
Average daily attendance, 1971-1972	(NA)	168,884	(NA)
Average daily membership, 1971-1972	(NA)	182,535	(NA)
Number of schools	331	219	112
Current expenditures, 1971-1972 (\$1,000)	(NA)	183,830	(NA)
Per ADA (\$)	(NA)	1,088.50	(NA)
Per ADM (\$)	(NA)	1,007.09	(NA)

NA Not available.

Source: Hawaii State Department of Education, records.

Table 46.—SCHOOL ENROLLMENT, BY AGE: 1890 TO 1970
(Includes Kindergarten)

Year	Total, 5 to 24 years old	5 and 6 years old ¹	7 to 13 years old	14 and 15 years old	16 and 17 years old	18 and 19 years old	20 and 21 years old	22 to 24 years old ²
1890 ³	(NA)		9,872		(NA)	(NA)		(NA)
1896 ³	(NA)		13,744		(NA)	(NA)		(NA)
1900	15,369	(NA)	(NA)	(NA)	(NA)	(NA)		(NA)
1910	29,196	2,852	19,525	3,593	1,706	895		625
1920	49,247	5,042	32,692	6,164	3,132	1,455		762
1930	83,467	6,318	55,113	10,790	6,296	3,172		1,778
1940	110,459	8,578	64,094	17,893	12,152	5,267		2,475
1950	116,135	16,200	59,095	15,215	14,255	7,055	2,300	2,015
1960	174,777	26,435	92,877	22,840	19,278	7,460	3,394	2,493
1970 ⁴	221,726	27,683	108,757	30,409	26,362	14,486	7,672	6,357
PERCENT								
1890 ³	(NA)		81.6		(NA)	(NA)		(NA)
1896 ³	(NA)		96.2		(NA)	(NA)		(NA)
1900	29.8	(NA)	(NA)	(NA)	(NA)	(NA)		(NA)
1910	44.0	33.7	90.1	72.7	35.9	13.9		3.1
1920	50.4	37.2	94.4	77.1	40.1	16.4		3.1
1930	51.7	31.2	94.8	81.9	51.4	21.3		4.2
1940	58.0	51.5	98.7	93.5	67.1	25.8		4.8
1950	62.6	68.4	97.8	97.0	85.7	36.2	11.0	7.0
1960	72.0	85.0	98.6	97.0	87.8	34.4	15.7	8.7
1970 ⁴	70.8	84.7	96.7	95.8	90.8	53.1	22.4	13.6

NA Not available.

¹Enrollment total for 1910 includes a few persons under 5.

²Enrollment totals for 1900-1920 include a few persons 25 and over.

³Refers to persons 6 to 15.

⁴Includes students in nursery school, omitted for earlier years.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), p. 78; *Twelfth Census of the United States . . . 1900*, Vol. II, Part II, pp. 110, 111, and 352; *Thirteenth Census . . . 1910*, *Abstract of the Census*, pp. 582-584; *Fourteenth Census . . . 1920*, Vol. III, pp. 1178 and 1183-1185; *Fifteenth Census . . . 1930*; *Outlying Territories and Possessions*, pp. 50 and 54; *Sixteenth Census . . . 1940*, *Population, Second Series, Hawaii*, p. 9; *U.S. Census of Population: 1950*, Bulletin P-B52, table 12; *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 45; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 45.

Table 47.—DAYTIME ENROLLMENT AND DEGREES AWARDED AT THE UNIVERSITY OF HAWAII: 1908-09 TO 1972-73

Year	Fall semester day enrollment ¹			Degrees awarded ²			
	Manoa Campus	Hilo College ³	Community Colleges ⁴	Associate	Bachelor's	Master's	Doctor's
1908-09	41	—	—	—	—	—	—
1914-15	105	—	—	—	2	1	—
1919-20	242	—	—	—	8	1	—
1924-25	618	—	—	—	49	4	—
1929-30	1,321	—	—	—	96	20	—
1934-35	1,809	—	—	—	257	32	—
1939-40	2,703	—	—	—	228	9	—
1944-45	1,931	—	—	—	186	7	—
1949-50	4,842	—	—	—	641	33	—
1954-55	4,671	145	—	—	643	42	2
1959-60	6,923	250	—	—	881	81	3
1960-61	7,511	260	—	—	832	109	7
1961-62	8,231	285	—	—	869	112	2
1962-63	9,150	399	—	—	894	252	15
1963-64	10,466	355	—	—	983	304	14
1964-65	11,641	398	—	—	1,183	362	20
1965-66	13,587	510	2,010	129	1,444	427	29
1966-67	14,772	571	2,444	232	1,515	555	28
1967-68	16,564	618	3,606	448	1,833	819	47
1968-69	17,082	679	5,494	448	1,924	982	58
1969-70	18,474	864	8,713	647	2,266	1,018	53
1970-71	21,090	1,184	10,853	854	2,681	1,103	78
1971-72	22,061	1,297	13,010	1,108	2,976	1,167	80
1972-73	22,371	1,446	14,689	—	—	—	—

¹Data for 1939-1940 and earlier years refer to non-duplicated annual enrollment.

²The first annual commencement was in 1912. The first master's degree was awarded in 1914; the first doctor's degree, in 1933.

³Began in 1947 as a part of the Extension Division and put under the Dean of Faculties in 1951.

⁴Transferred from the Department of Education to the University of Hawaii in 1965.

Source: Office of the President, University of Hawaii, records; *Facts About the University of Hawaii, 1972-73*.

**Table 48.—ENROLLMENT IN CREDIT COURSES, FALL 1972, AND DEGREES AWARDED, 1972,
FOR COLLEGES AND UNIVERSITIES**

Institution	Location	Enrollment in credit courses, Fall 1972			Degrees awarded, 1972 ¹			
		Total ²	Under-graduate	Graduate	Asso- ciate	Bache- lor's	Master's	Doctor's
University of Hawaii, total .....	.....	38,506	33,480	5,010	1,108	2,976	1,167	80
Univ. of Hawaii at Manoa	Honolulu	22,371	17,399	4,956	49	2,907	1,167	80
Univ. of Hawaii at Hilo .....	.....	2,594	2,540	54	99	69	—	—
Hilo College	Hilo	1,446	1,392	54	—	69	—	—
Hawaii Community College ³	Hilo	1,148	1,148	—	99	—	—	—
Community Colleges ³ .....	.....	13,541	13,541	—	960	—	—	—
Honolulu Community College ³	Honolulu	2,523	2,523	—	—	—	—	—
Kapiolani Community College ³	Honolulu	3,001	3,001	—	—	—	—	—
Kauai Community College ³	Lihue	935	935	—	—	—	—	—
Leeward Community College ³	Pearl City	5,236	5,236	—	—	—	—	—
Maui Community College ³	Kahului	1,311	1,311	—	—	—	—	—
Windward Community College ³ ...	Kaneohe	535	535	—	—	—	—	—
Private colleges, total .....	.....	3,419	3,419	—	20	393	—	—
Chaminade College of Honolulu	Honolulu	1,719	1,719	—	—	257	—	—
Church College of Hawaii	Laie	1,078	1,078	—	—	105	—	—
Hawaii Loa College	Kaneohe	220	220	—	—	19	—	—
Hawaii Pacific College	Honolulu	312	312	—	—	12	—	—
U.S. International University— Maunaolu Campus ³	Makawao	90	90	—	20	—	—	—

¹Data for the University of Hawaii system refer to the year ended June 30, 1972. Figures exclude professional diplomas and certificates of achievement.

²Includes 16 unclassified at Manoa.

³Two-year program.

Source: University of Hawaii, Management Systems Office, *Facts About the University of Hawaii 1972-73* (December 1972); data supplied by various colleges.

Table 49.—ILLITERACY: 1853 TO 1970

Year	Number illiterate	Percent of population 15 and over ¹
1853 ²	(NA)	25.0
1878 ²	8,400	20.1
1900	41,949	35.2
1910	39,465	29.2
1920	35,083	21.2
1930	41,018	17.5
1940 ²	35,000	11.6
1950	(NA)	8.4
1960	21,000	5.0
1970 ²	8,446	1.5
BY AGE: 1970 ²		
14 to 24 years	735	0.4
25 to 44 years	1,037	0.5
44 to 64 years	3,173	2.3
65 years or more	3,501	7.9

NA Not available

¹Persons 16 years old and over for 1853, and 14 years old and over for 1940 and later years.

²Approximate.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), p. 125; Hawaii State Department of Planning and Economic Development, Statistical Report 31 (June 21, 1965), pp. 18-19; unpublished DPED estimate for 1970 based on national illiteracy rates, by age and education, in U.S. Bureau of the Census, *Current Population Reports*, Series P-20, No. 217 (March 10, 1971), and Hawaii data on age and education in *U.S. Census of Population: 1970*, Final Report PC(1)-D13, table 148.

Table 50.—YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER: 1940 TO 1970

Years of school completed	1940	1950	1960	1970
Total, 25 years old and over	192,905	247,480	308,910	384,843
None	35,643	26,185	20,540	11,696
Elementary, 1 to 4 years	35,607	32,885	25,888	20,384
Elementary, 5 and 6 years	25,978	27,245	23,144	22,343
Elementary, 7 years	} 36,077	{ 12,550	12,755	9,444
Elementary, 8 years		{ 32,010	35,031	31,469
High, 1 to 13 years	19,543	36,155	49,272	51,365
High, 4 years	21,519	49,355	91,586	138,307
College, 1 to 3 years	7,683	12,780	23,016	46,088
College, 4 years	} 10,252	15,005	{ 15,664	29,657
College, 5 years or more			{ 12,014	24,090
Not reported	603	3,310		
Elementary, 8 years or less	133,305	130,875	117,358	95,336
Percent ¹	69.3	53.6	38.0	24.8
High, 1 to 4 years	41,062	85,510	140,858	189,672
Percent ¹	21.4	35.0	45.6	49.3
College, 1 or more years	17,935	27,785	50,694	99,835
Percent ¹	9.3	11.4	16.4	25.9
Median school years completed	6.9	8.7	11.3	12.3

¹Based on number reporting.

Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 47; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 46.

Table 51.—MEDIAN YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE AND SEX: 1940 TO 1970

Sex and age	1940 ¹	1950	1960	1970
Total, 25 years and over	6.9	8.7	11.0	12.3
Male, 25 years and over	6.6	8.6	10.7	12.3
25 to 29 years	—	11.7	12.5	12.8
30 to 34 years	—	10.6	12.3	12.7
35 to 39 years	—	8.8	12.2	12.7
40 to 44 years	—	7.7	11.8	12.5
45 to 49 years	—	} 6.3	{ 9.0	12.3
50 to 54 years	—		{ 8.0	12.1
55 to 59 years	—	} 5.7	{ 6.9	9.5
60 to 64 years	—		{ 6.1	8.3
65 to 69 years	—	} 4.2	{ 5.4	8.0
70 to 74 years	—		{ 5.4	6.7
75 years and over	—	3.0	4.1	6.2
Female, 25 years and over	7.2	8.9	11.4	12.3
25 to 29 years ²	—	11.6	12.4	12.8
30 to 34 years	—	9.8	12.3	12.6
35 to 39 years	—	9.1	12.2	12.6
40 to 44 years	—	8.5	10.1	12.4
45 to 49 years	—	} 6.6	{ 9.5	12.2
50 to 54 years	—		{ 8.6	11.0
55 to 59 years	—	} 4.7	{ 7.0	9.9
60 to 64 years	—		{ 6.3	8.9
65 to 69 years	—	} 2.6	{ 4.7	8.0
70 to 74 years	—		{ 4.4	6.9
75 years and over	—	1.0	3.2	6.3

¹Not available by age.

²The 1950 value has been revised.

Source: *16th Census of the United States: 1940, Population, Second Series, Characteristics of the Population, Hawaii*, table 6; *U.S. Census of Population: 1950*, Bulletin P-C52, table 43; *U.S. Census of Population: 1960*, Final Report PC(1)-13D, table 103; *U.S. Census of Population: 1970*, Final Report PC(1)-D13, table 148.

Table 52.—LIBRARIES: 1970

Library system	Number of libraries					Bound volumes (1,000)				
	State total	Oahu	Hawaii Co.	Kauai Co.	Maui Co.	State total	Oahu	Hawaii Co.	Kauai Co.	Maui Co.
All categories	124	111	6	3	4	2,607	2,250	125	88	144
Hawaii State Library	1	1	—	—	—	229	229	—	—	—
Others in State system	20	17	1	1	1	675	424	65	81	105
State government	9	9	—	—	—	124	124	—	—	—
County systems	6	3	1	1	1	31	31	—	—	—
U.S. Armed Forces libraries	21	20	1	—	—	324	320	4	—	—
Other Federal government	6	5	1	—	—	29	26	3	—	—
University of Hawaii system	8	7	1	—	—	766	716	50	—	—
Community Colleges	7	4	1	1	1	85	52	3	7	23
Private colleges	4	3	—	—	1	126	110	—	—	16
Museums	4	4	—	—	—	71	71	—	—	—
Other organizations ¹	38	38	—	—	—	147	147	—	—	—

¹Business firms, consulates, private agencies, etc.

Source: Hawaii Library Association, "Directory of Libraries and Information Sources in Hawaii and the Pacific Islands," *HLA Journal*, Vol. XXVII, No. 2, December 1970.

Table 53.—THE HAWAII STATE AND UNIVERSITY OF HAWAII LIBRARY SYSTEMS: 1910 TO 1972

Year	Hawaii State Library System						University of Hawaii libraries: number of volumes, June 30		
	Number of volumes, June 30 ¹			Circulation, year ended June 30 ²			System total	Manoa Campus ³	Rest of system ⁴
	State total	Oahu	Other Islands	State total	Oahu	Other Islands			
1910	—	—	—	—	—	—	6,050	6,050	—
1915	27,569	27,569	—	90,961	85,397	5,564	11,686	11,686	—
1920	78,002	45,905	32,097	219,264	153,506	65,758	25,709	25,709	—
1925	134,333	79,676	54,657	462,245	324,286	137,959	36,691	36,691	—
1930	183,456	99,938	83,518	542,799	315,660	227,139	50,194	50,194	—
1935	235,881	129,835	106,046	1,269,157	712,769	556,388	79,281	79,281	—
1940	293,523	153,331	140,192	1,751,054	950,828	800,226	131,586	131,586	—
1945	351,709	181,219	170,490	1,533,854	832,416	701,438	158,205	158,205	—
1950	388,617	204,635	183,982	1,713,568	955,657	757,911	210,157	210,157	—
1955	456,467	257,883	198,584	2,267,772	1,325,257	942,515	259,751	256,651	3,100
1960	536,714	314,836	221,878	2,864,321	1,709,727	1,154,594	307,701	302,188	5,513
1965	652,684	399,771	252,913	3,544,239	2,312,096	1,223,143	510,033	467,684	42,349
1970	1,048,858	710,649	338,209	3,645,950	2,602,146	1,043,804	1,166,552	1,027,513	139,039
1971	1,168,857	799,369	369,488	3,905,825	2,851,411	1,054,414	1,300,191	1,116,932	183,259
1972	1,216,408	823,696	392,712	4,130,736	3,042,966	1,087,770	1,390,507	1,193,807	196,700

¹December 31 for 1930 and earlier years.

²Calendar years for 1930 and earlier.

³Includes East-West Center.

⁴Hilo College and Community Colleges.

Source: Hawaii State Department of Education, Division of Library Services, records; University of Hawaii, records.

SECTION 4

LAW ENFORCEMENT, COURTS, AND CORRECTIONS

Statistics in this section refer to crime and delinquency, the police, the judiciary system, prisons, and training schools.

Major offenses reported to the police in 1971 numbered 42,952, almost three times as many as in 1960. The rate per 100,000 population has increased from 1,145 in 1939 to 5,434 in 1971. More than 87 percent of the 1971 total occurred on Oahu. For the State as a whole, 23.1 percent of the major offenses and 68.7 percent of the minor offenses were cleared by arrest or otherwise. Fifty-six percent of the persons arrested for major crimes and one-third of those arrested for lesser offenses were less than 18 years of age. Almost one-fourth of the juveniles were counseled and released, and only a small number were committed to the State Youth Correctional Facility. Inmates of the State correctional institutions averaged 314 during 1972, compared with 1,000 five decades earlier. The State Supreme Court, five circuit courts, and twenty-seven district courts handled almost 560,000 cases in 1972, double the case load a decade earlier.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, and the Department of Social Services and Housing. National data are summarized in the *Statistical Abstract of the United States: 1972*, Section 5.

**Table 54.—ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY:
1884-86 TO 1972**

Calendar year	The State		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate ¹				
1884-1886 ²	579	356	213	135	129	102
1925	(NA)	(NA)	(NA)	72	(NA)	(NA)
1926	(NA)	(NA)	(NA)	78	(NA)	(NA)
1927	(NA)	(NA)	(NA)	38	(NA)	(NA)
1928	(NA)	(NA)	(NA)	78	(NA)	(NA)
1929	(NA)	(NA)	(NA)	52	(NA)	(NA)
1930	(NA)	(NA)	(NA)	80	(NA)	(NA)
1931 ³	(NA)	(NA)	1,664	78	(NA)	(NA)
1932	(NA)	(NA)	2,690	(NA)	14	(NA)
1933	(NA)	(NA)	2,725	(NA)	51	(NA)
1934	(NA)	(NA)	3,100	(NA)	43	(NA)
1935	(NA)	(NA)	3,566	(NA)	117	(NA)
1936	(NA)	(NA)	3,168	240	23	(NA)
1937	(NA)	(NA)	3,153	518	47	(NA)
1938	(NA)	(NA)	3,245	429	59	(NA)
1939	4,760	1,145	3,948	434	46	332
1940	5,266	1,231	4,115	649	68	434
1941	5,091	1,108	4,377	348	47	319
1942	3,719	639	3,001	356	42	320
1943	4,434	683	3,637	340	69	388
1944	5,328	620	4,086	591	175	476
1945	5,261	646	4,192	445	144	480
1946	5,437	997	4,499	406	128	404
1947	5,778	1,098	4,751	438	122	467
1948	6,058	1,172	5,014	367	195	482
1949	6,645	1,300	5,443	375	320	507
1950	6,639	1,333	5,467	516	243	413
1951	6,428	1,250	5,286	420	218	504
1952	7,588	1,467	6,322	405	251	610
1953	7,253	1,422	5,962	507	260	524
1954	8,120	1,606	6,874	448	247	551

NA Not available.

¹Annual average per 100,000 mid-period population (including armed forces). Population estimate for April 1, 1885 interpolated from Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), p. 223; other years from the Hawaii State Department of Planning and Economic Development, Statistical Report 81 (July 23, 1971), pp. 3-6, and Statistical Report 86 (November 12, 1971), table 2.

²April 1, 1884 to March 31, 1886.

³According to the source for these data, "due to the poor record system of the Honolulu police department, it is probable that all offenses known to the police were not recorded."

(Continued on next page)

**Table 54.—ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY:
1884-86 TO 1972 (continued)**

Calendar year	The State		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate ¹				
1955	8,919	1,654	7,636	454	282	547
1956	9,282	1,662	7,864	632	316	470
1957	11,685	1,999	9,998	714	371	602
1958	13,971	2,308	12,150	902	349	570
1959	14,205	2,283	12,648	662	402	493
1960	14,569	2,271	12,986	628	465	490
1961	16,608	2,521	14,981	689	471	467
1962	17,675	2,586	15,973	747	408	547
1963	17,673	2,590	16,065	698	448	462
1964	19,198	2,743	17,533	643	395	627
1965	22,891	3,252	20,723	829	524	815
1966	24,865	3,501	22,689	816	506	854
1967 ⁴	27,221	3,767	24,847	919	649	806
1968 ⁴	34,295	4,669	31,044	1,297	730	1,224
1969 ⁴	36,109	4,813	32,636	1,406	779	1,288
1970 ⁴	41,201	5,325	36,779	1,626	993	1,803
1971 ⁴	42,952	5,434	37,459	1,867	1,326	2,300
1972	(NA)	(NA)	35,994	2,047	(NA)	2,255

NA Not available.

⁴Revised from 1972 *Data Book*, table 41.

Source: *Report of the Attorney General to the Legislative Assembly of 1886*, table E; Seth W. Richardson, *Law Enforcement in the Territory of Hawaii* (1932), pp. 228 and 230; county police departments, annual reports and records.

Table 55.—ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1931 TO 1972

Year	Total Part I offenses	Murder; non-neg. mansl.	Man-slaughter (neglig.)	Rape	Robbery	Aggravated assault	Burglary	Larceny ¹		Auto theft
								\$50 & over	Under \$50	
1931	1,664		28	16	57	101	556	819		87
1932	2,690	17	27	14	53	121	786	85	1,059	528
1933	2,725	3	22	21	24	122	757	124	1,447	205
1934	3,100	11	15	18	27	75	781	117	1,830	226
1935	3,566	16	16	16	20	47	958	116	2,116	261
1936	3,168	4	27	13	14	46	982	124	1,686	272
1937	3,153	16	7	14	13	31	954	139	1,751	228
1938	3,245	10	12	11	28	37	915	136	1,901	195
1939	3,948	14	10	12	15	32	1,129	176	2,285	275
1940	4,115	8	7	9	18	24	1,224	182	2,335	308
1941	4,377	12	16	25	30	40	1,271	297	2,186	500
1942	3,001	17	6	8	6	47	828	348	1,521	220
1943	3,637	16	11	20	14	61	1,167	422	1,682	244
1944	4,086	18	26	32	11	108	1,063	466	1,796	566
1945	4,192	14	21	25	56	110	1,005	458	1,830	673
1946	4,499	16	19	17	80	117	1,243	379	2,138	490
1947	4,751	16	16	17	63	92	1,451	515	2,250	331
1948	5,014	20	15	13	53	106	1,277	486	2,695	349
1949	5,443	15	13	14	57	127	1,457	472	2,949	339
1950	5,467	8	19	27	42	103	1,272	572	3,097	327
1951	5,286	12	22	22	46	85	1,196	479	3,059	365
1952	6,322	22	9	9	55	72	1,780	515	3,481	379
1953	5,962	11	19	23	38	63	1,426	222	3,798	362
1954	6,874	17	8	16	36	64	1,706	205	4,395	427
1955	7,636	23	13	39	52	48	2,135	227	4,697	402
1956	7,864	5	14	40	36	85	1,789	207	5,069	619
1957	9,998	12	19	35	44	64	2,574	252	6,100	898
1958	12,150	14	20	18	85	40	3,454	302	7,094	1,123
1959	12,648	17	21	19	108	39	3,186	367	6,940	1,951
1960	12,986	12	22	18	68	32	2,922	438	7,816	1,658
1961	14,981	12	26	21	68	47	3,455	659	8,738	1,955
1962	15,973	19	24	15	118	97	4,167	780	8,577	2,176
1963	16,065	11	19	16	78	98	4,541	748	8,936	1,618
1964	17,533	13	15	15	95	48	5,486	870	9,253	1,738
1965	20,723	18	4	6	130	52	6,430	1,210	10,342	2,531
1966	22,689	18	15	30	151	46	7,440	1,518	11,230	2,241
1967	24,847	17	20	33	144	77	7,857	1,673	12,138	2,888
1968	31,044	19	11	52	167	130	9,776	2,214	14,863	3,812
1969	32,636	23	22	82	272	124	9,417	2,728	15,848	4,120
1970	36,779	25	3	85	473	219	10,252	3,568	17,913	4,241
1971	37,459	31	46	124	715	341	9,599	9,426	12,923	4,254
1972	35,994	44	46	149	428	366	8,998	7,792	11,005	3,005

¹Classified as "\$50 and over" and "Under \$50" for 1932-1952 and 1971-1972; "\$100 and over" and "Under \$100" for 1953-1958; and "Over \$100" and "Under \$100" for 1959-1970.

Source: Honolulu Police Department, *Annual Report* (1934-1956) and *Statistical Report* (annual, 1957-1972); Seth W. Richardson, *Law Enforcement in the Territory of Hawaii* (1932), p. 228.

Table 56.—PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1932 TO 1972

Year	Part I offenses cleared ¹		Persons arrested for Part I offenses			
	Number	Percent	Total	Juveniles under 18 years		18 years of age and over
				Male	Female	
1932	(NA)	34	1,096	(NA)	(NA)	(NA)
1933	(NA)	41	1,589	587	18	984
1934	(NA)	44	1,863	808	43	1,012
1935	1,592	45	1,795	755	44	996
1936	1,484	47	1,722		817	905
1937	1,438	46	1,643		865	778
1938	1,541	47	1,602		831	771
1939	1,816	46	1,583		893	690
1940	1,765	43	1,802	1,021	44	737
1941	1,805	41	1,901	1,119	26	756
1942	1,416	47	1,292	629	46	617
1943	1,644	45	1,460	679	52	729
1944	1,599	39	1,735	758	36	941
1945	1,757	42	2,031	919	66	1,046
1946	1,888	42	2,166	1,121	63	982
1947	1,744	37	1,982	991	75	916
1948	2,142	43	2,088	936	106	1,046
1949	1,910	35	2,080	990	92	998
1950	2,255	41	2,096	1,073	81	942
1951	2,000	38	2,107	1,115	83	909
1952	2,154	34	2,241	1,172	87	982
1953	1,887	32	1,894	1,041	82	771
1954	2,145	31	2,360	1,233	153	974
1955	2,513	33	2,684	1,503	130	1,051
1956	2,483	32	2,689	1,580	147	962
1957	3,194	32	3,248	2,062	166	1,020
1958	3,239	27	3,450	2,250	176	1,024
1959	3,424	27	3,615	2,182	246	1,187
1960	3,168	24	3,371	2,000	233	1,138
1961	3,405	23	3,525	2,164	203	1,158
1962	3,767	24	3,686	2,155	254	1,277
1963	3,992	25	3,019	1,602	226	1,191
1964	3,809	22	2,988	1,685	252	1,051
1965	3,815	18	3,283	2,123	311	849
1966	4,402	19	4,071	2,328	460	1,283
1967	3,917	16	4,363	2,497	631	1,235
1968	6,028	19	5,841	3,380	907	1,554
1969	6,393	20	6,217	3,340	1,030	1,847
1970	6,437	18	6,405	2,899	995	2,511
1971	8,325	22	6,730	2,770	979	2,981
1972	11,812	33	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹Major (Part I) offenses cleared by arrest or otherwise, including prior years offenses.

Source: Honolulu Police Department, *Annual Report* (1934-1956) and *Statistical Report* (annually, 1957-1972).

Table 57.—ACTUAL OFFENSES KNOWN TO POLICE, BY COUNTY, AND OFFENSES CLEARED BY ARREST OR OTHERWISE: 1971

Classification of offense	Actual offenses known to police					Cleared by arrest or otherwise ¹	
	State total	City & Co. of Honolulu	Co. of Hawaii	Co. of Kauai	Co. of Maui	Number	Percent
All offenses	80,097	67,205	3,833	2,994	6,065	35,445	44.3
Part I offenses	42,952	37,459	1,867	1,326	2,300	9,915	23.1
1A Murder; non-neg. manslaughter	41	31	5	1	4	32	78.0
1B Manslaughter (negligent)	61	46	7	1	7	56	91.8
2 Rape	139	124	3	4	8	89	64.0
3 Robbery	732	715	11	1	5	289	39.5
4 Aggravated assault	427	341	59	16	11	296	69.3
5 Burglary	11,368	9,599	604	367	798	3,464	30.5
6A Larceny, \$50 and over ²	10,252	9,426	410	216	200	1,049	10.2
6B Larceny, under \$50 ³	15,427	12,923	686	649	1,169	3,833	24.8
7 Auto theft	4,505	4,254	82	71	98	807	17.9
Part II offenses ⁴	37,145	29,746	1,966	1,668	3,765	25,530	68.7
8 Other assaults	5,885	4,733	300	341	511	4,653	79.1
9 Arson	175	157	18	0	0	22	12.6
10 Forgery; counterfeiting	439	392	0	8	39	314	71.5
11 Fraud	952	709	77	51	78	593	62.3
12 Embezzlement		34	3				
13 Stolen property, reg.	93	64	16	1	12	91	97.8
14 Vandalism	5,011	4,583	428	0	0	883	17.6
15 Weapons	508	461	12	1	34	463	91.1
16 Prostitution	21	18	1	1	1	17	81.0
17 Sex offenses	697	630	16	2	49	555	79.6
18 Drug laws	1,700	1,092	235	218	155	1,311	77.1
19 Gambling	905	843	11	18	33	805	89.0
20 Offenses against family	54	41	6	1	6	51	94.4
21 Driving intoxicated	877	721	49	35	72	877	100.0
22 Liquor laws	303	217	47	1	38	296	97.7
24 Disorderly conduct	1,939	1,497	102	232	108	1,774	91.5
25 Vagrancy	321	115	53	45	108	182	56.7
26 All other offenses ⁵	17,265	13,439	592	713	2,521	12,643	73.2

¹Includes previous year's cases cleared.

²Grand larceny for Kauai; larceny, over \$100 for Maui.

³Petty larceny for Kauai; larceny, \$100 or under for Maui.

⁴Excludes no. 23, drunkenness, reclassified as non-criminal offense as of 1969.

⁵Excludes traffic offenses.

Source: County police departments.

Table 58.—PERSONS ARRESTED OR CHARGED, FOR OAHU: 1971

Age of persons arrested	All offenses	Part I offenses		Part II offenses	
		Male	Female	Male	Female
Persons arrested, total	19,992	4,920	1,810	10,408	2,854
Juveniles under 18 years	7,795	2,770	979	2,658	1,388
18 and 19 years	2,077	689	185	1,041	162
20 to 24 years	3,969	799	309	2,297	564
25 to 34 years	2,791	372	192	1,864	363
35 to 44 years	1,532	112	70	1,099	251
45 to 64 years	1,552	150	63	1,234	105
65 years and over	185	21	9	151	4
Unknown age	91	7	3	64	17
Subject				Part I offenses	Part II offenses
Juveniles arrested, total				3,749	4,046
Released without charges				512	216
Counseled and released				997	940
Referred to social agencies				7	195
Referred to Family Court				1,638	2,371
Probation or protective supervision				560	555
Counseled and released				588	954
Hawaii Youth Correctional Facilities				66	48
Social agencies				9	83
Discharged or other disposition				309	413
All others				4	41
Intern counseling project				479	154
District and Circuit Court dispositions of persons charged, total				1,737	8,350
Convicted				1,237	4,966
Disposed of otherwise				500	3,384
Fine				807	4,306
Jail				259	312
Probation, suspended sentence				171	331
Other convictions				—	17
Bail forfeitures				74	512
Discharged				143	944
Stricken, N/P				283	1,928

Source: Honolulu Police Department, *1971 Statistical Report*, pp. 44-46, 49, 57, and 68.

Table 59.—STATE JUDICIARY CASELOAD: 1959 TO 1972

Year	Supreme Court ¹		Circuit Courts ²		District Courts ³	
	Filed	Terminated	Filed	Terminated	Filed	Terminated
1959	(NA)	174	(NA)	(NA)	(NA)	(NA)
1960	(NA)	161	13,442	13,096	(NA)	150,736
1961	145	146	15,431	13,812	202,617	202,491
1962	187	180	17,383	15,010	195,203	195,287
1963	200	192	16,841	15,025	274,599	273,966
1964	217	231	17,178	16,664	280,660	280,713
1965	283	271	19,950	18,677	291,058	290,566
1966	302	293	21,327	19,290	316,415	313,254
1967 ⁴	452	426	13,691	11,313	177,739	174,825
1968	441	466	28,143	23,482	331,838	330,424
1969	321	300	27,328	23,355	333,610	331,036
1970	294	324	27,895	27,258	401,291	397,427
1971	411	375	27,122	30,348	460,417	454,137
1972	312	315	26,885	25,768	531,709	521,507

NA Not available.

¹Calendar years, 1959-1967; years ended June 30, 1968-1972.

²Calendar years, 1959-1966; January 1-June 30, 1967; years ended June 30, 1968-1972. Includes all circuits. Data for 1960 exclude naturalization cases.

³Calendar years, 1959-1966; January 1-June 30, 1967; years ended June 30, 1968-1972. Data for 1960 limited to District Courts of the First Circuit only; data for 1961 and later years include all District Courts. Data for 1970 are revised.

⁴Data for Circuit Courts and District Courts refer to the first six months of the year.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records.

Table 60.—STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1972
(Year ended June 30)

Court and type of action	Number	Court and type of action	Number
Supreme Court, total	312	District Court, total	531,709
Primary cases	121	Civil	14,352
Appeals	116	Regular	13,651
Original proceedings	5	Small claims	701
Supplemental proceedings	191	Traffic	490,448
Circuit Court Proper, total	9,138	Moving—arrest and citation	138,220
Primary proceedings	8,605	Non-moving	49,644
Civil actions	3,299	Parking	302,584
Probate proceedings	1,595	Other violations	14,035
Guardianship proceedings	526	Criminal actions	12,874
Miscellaneous proceedings	709	Part I offenses	2,599
Criminal actions	2,476	Part II offenses	10,275
Part I offenses	919		
Part II offenses	1,557		
Supplemental proceedings	533		
Family Courts, total ,	17,747		
Primary proceedings, referrals	14,573		
Marital actions, proceedings	4,926		
Adoption proceedings	864		
Paternity proceedings	57		
Miscellaneous proceedings	203		
Criminal actions	14		
Adults' referrals	1,078		
Children and minors' referrals	7,431		
Supplemental proceedings	3,174		

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1971 to June 30, 1972.*

Table 61.—STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1972
(Year ended June 30)

Court and type of termination	Number	Court and type of termination	Number
Supreme Court, total	315	District Court, total	521,507
Opinion filed	82	Felonies	1,881
Dismissal motion granted	7	Stricken or discharged	797
Withdrawn or discontinued	34	By commitment to Grand Jury	1,063
Other disposition	192	By commitment to Circuit Court	21
		Misdemeanors	11,245
Circuit Court Proper, total	8,553	By discharge or dismissal	2,175
No service	635	By nolle prosequi	1,164
No answer	522	Stricken	1,005
No statement of readiness	49	By bail forfeiture	826
Dismissal: Notice of	501	By commitment to Circuit Court	453
Stip. for	1,265	By conviction	5,622
By judge	166	Civil cases	14,143
Nonjury: Trial	444	By discontinuance or dismissal	4,180
Trial not completed	25	By default or confession	9,174
Jury: Verdict	176	By trial	789
Trial not completed	43	Traffic and other violations	494,238
Hearings: No trial held	1,004	By discharge or dismissal	5,014
Contested	61	By nolle prosequi	2,329
Uncontested	1,792	Stricken	58,982
Others	1,870	By bail forfeiture	382,237
		By commitment to Circuit Court	29
Family Courts, total	17,215	By conviction	45,647
Nolle prosequi	2		
Dismissal	90		
Nonjury: Trial	52		
Trial not completed	1		
Jury: Verdict	3		
Trial not completed	1		
Hearings: No trial held	72		
Contested	2,956		
Uncontested	7,378		
Counseling service	4,102		
Others	2,558		

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1971 to June 30, 1972.*

Table 62.—INMATES OF CORRECTIONAL INSTITUTIONS: 1878 TO 1972

Year	State Prison System ¹	Youth Correctional Facility		Honolulu Jail ²
		Boys ³	Girls ⁴	
1878-1880	170	—	—	—
1884-1886	172	—	—	—
1888-1890	154	—	—	—
1894-1895	174	—	—	—
1900	127	—	—	—
1905-1906 ⁵	218	75	—	—
1909-1910 ⁶	229	—	52	—
1915-1916 ⁷	485	142	96	—
1920 ⁷	703	159	136	—
1925	414	151	103	—
1930	483	230	140	—
1935 ⁸	476	215	132	—
1940	559	144	124	—
1945	482	160	182	132
1950 ⁹	616	130	105	121
1955	597	89	62	131
1960 ¹⁰	513	102	66	122
1965	514	148		134
1966	480	135		148
1967	437	111		148
1968	383	85		127
1969	320	72		97
1970	281	67		111
1971	257	73		127
1972	256	58		121

¹Includes Oahu Prison (built in Iwilei in 1857, relocated in Kalihi in 1918, and renamed Hawaii State Prison in 1962), the subsidiary prison (or honor) camps on other islands, the Conditional Release Center, and Adult Furlough Center. Before 1911, persons convicted of misdemeanors as well as those convicted of felonies and "persons committed, awaiting trial" were confined to Oahu Prison; since that time, only those convicted of felonies have been inmates of the State Prison System. Data refer to the average inmate populations for two-year periods ended March 31, 1880 to 1890, the 21-month period ended December 31, 1895, calendar year 1900, the 18-month period ended December 31, 1906, two-year periods ended December 31, 1910 and 1916, and fiscal years ended June 30, 1920, 1935, 1940, and 1955-1972, and to June 30 inmate totals for 1925, 1930, 1945 and 1949.

²Calendar year averages for the City and County Jail, built in Iwilei in 1857 and relocated to Halawa in 1962.

³Includes Keoneula Reformatory School (built in Kapalama in 1865 and used for boys until 1903), Waialeale Training School for Boys (built 1903 and used until 1950), Koolau Boys Home (opened 1950), and subsidiary forestry camps. Data refer to total ward population as of May 1903, January 1, 1916, December 31, 1920, and June 30, 1925, 1935, and 1960, and average ward population for the 18-month period ended December 31, 1930 and fiscal years ended June 30, 1940-1955 and 1965-1972.

⁴Includes the Girls' Industrial School (built in Kapalama in 1865 and occupied until 1929) and Maunawili Training School (opened 1929 and renamed Kawaihoa Girls' School in 1931). Data refer to average ward population for calendar years 1909, 1916, 1920, and 1925, the 18-month period ended December 31, 1930, and fiscal years ended June 30, 1940-1955 and 1965-1972, and to ward totals for June 30, 1934 and 1960.

⁵Oahu Prison data for 1905-1906 include Honolulu Jail. The boys' figure refers to 1903.

⁶The girls' figure refers to 1909.

⁷Oahu Prison data for 1915 and 1920 appear to include paroled prisoners as well as those actually confined. The Youth Facility data for 1915-1916 refer to 1916.

⁸Youth Facility data refer to 1934.

⁹The Prison System figure refers to 1949.

¹⁰The Prison System figure refers to 1959.

Source: *Biennial Report of the Minister of the Interior* for 1880-1890; *Report of the Attorney General* for 1896 and 1906-1916; *Financial Statement of the Attorney General* . . . 1900; *Report of the Governor of Hawaii* for 1920-1930; *Report of the Board of Industrial Schools* for 1916-1930; *Annual Report of the Board of Prison Directors* for 1935; *Annual Report of the Department of Institutions* for 1940 and 1945-1959; Lee M. Brooks and C.K. Cheng, *Survey of Conditions and Needs Basic to Planning a New Jail for the City and County of Honolulu* (1955), p. 41; *Honolulu Police Department Statistical Report* for 1961-1972; and Hawaii State Department of Social Services and Housing, Corrections Division, records.

**Table 63.—INMATE MOVEMENT FOR HAWAII STATE CORRECTIONAL FACILITIES:
YEAR ENDED JUNE 30, 1972**

Subject	Hawaii State Prison	Adult Furlough Center	Conditional Release Center	Kulani Honor Camp	Olinda Honor Camp	Youth Correctional Facility
Committed	98	—	—	4	3	183
Returned from parole	32	—	—	—	—	50
Transfers in	61	73	20	40	33	—
Transfers out	153	18	8	29	17	—
Continued on parole	8	—	—	—	—	15
Paroled	22	46	6	12	8	71
Discharged	6	—	—	1	2	138
Died	1	—	—	1	—	—
Average number	181	11	14	29	21	58
Population, June 30, 1972	180	15	18	30	27	71

Source: Hawaii State Department of Social Services and Housing, Corrections Division, records.

SECTION 5

ELECTIONS

This section presents data on the number of registered voters, votes cast, and the party affiliation of elected officials.

More than 337,800 persons were registered to vote in the general election of November 1972. This amounted to 41.8 percent of the population (including those below the legal voting age or otherwise ineligible); the proportion registered was 29.4 percent in 1959 and 20.4 percent in 1940. Votes cast in 1970 amounted to 31.8 percent of the total population, 60.8 percent of civilians of voting age, 75.0 percent of all eligible persons, and 84.9 percent of those registered. The minimum voting age is 18 years. Elective offices in Hawaii include the presidency, two U.S. Senators, two U.S. Congressmen, the Governor, 25 State Senators, 51 State Representatives, and various county officials.

Official election results are published by the Office of the Lieutenant Governor. Additional information is often available from the various County Clerks and the Legislative Reference Bureau. An analysis of voting trends in Hawaii, *Voter Participation in Hawaii, 1970*, was published jointly by the Hawaii State Department of Planning and Economic Development and Office of the Lieutenant Governor in 1971. National statistics appear in the *Statistical Abstract of the United States: 1972*, Section 13.

Table 64.—REGISTERED VOTERS AND VOTES CAST: 1858 TO 1972

Election date	Population ¹	Registered voters		Votes cast ²		
		Number	Percent of population	Number	Percent of population	Percent of registration
1858: Jan. 4 ³	71,800	(NA)	(NA)	12,673	17.7	(NA)
1890: Feb. 5	87,300	14,113	16.2	11,671	13.4	82.7
1900: Nov. 6	154,001	11,216	7.3	9,589	6.2	85.5
1910: Nov. 8	191,874	14,442	7.5	13,541	7.1	93.8
1920: Nov. 2	255,881	26,335	10.3	22,833	8.9	86.7
1930: Nov. 4	368,300	52,127	14.2	43,544	11.8	83.5
1940: Nov. 5	427,884	87,321	20.4	74,538	17.4	85.4
1950: Nov. 7	497,980	141,319	28.4	118,704	23.8	84.0
1959: July 28	622,087	183,118	29.4	171,383	27.5	93.6
1960: Nov. 8	641,520	202,059	31.5	188,206	29.3	93.1
1962: Nov. 6	683,513	221,650	32.4	200,441	29.3	90.4
1964: Nov. 3	699,858	239,361	34.2	214,693	30.7	89.7
1966: Nov. 8	710,325	253,242	35.7	220,137	31.0	86.9
1968: Nov. 5	734,456	274,199	37.3	239,765	32.6	87.4
1970: Nov. 3	773,212	291,681	37.7	247,740	32.0	84.9
1972: Nov. 7 ⁴	808,560	337,837	41.8	286,691	35.5	84.9
COUNTIES: 1972 ⁴						
Honolulu	660,125	262,597	39.8	220,689	33.4	84.0
Hawaii	68,363	34,958	51.1	30,802	45.1	88.1
Maui	49,234	24,581	49.9	20,981	42.6	85.4
Kauai	30,838	15,701	50.9	14,219	46.1	90.6

NA Not available.

¹Total resident population. Includes armed forces and persons ineligible to vote because of age, sex, citizenship or other reasons. Data for 1858 and 1890 are January 1 estimates; for 1900-1930, official census counts; and for 1940 forward, July 1 estimates.

²For Representatives to the Legislative Assembly, 1858 and 1890; Delegate to Congress, 1900 and 1910; any office, 1920 forward.

³Earliest election for which all-Island totals are available. The first formal election in Hawaii was held January 6, 1851, but regular publication of election totals was not initiated until 1887.

⁴Includes presidential short ballots (98).

Source: Population from Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 115 and 223, and the Hawaii State Department of Planning and Economic Development, Statistical Report 95, pp. 4-7. Registered voters and votes cast from Robert C. Schmitt, "Voter Participation Rates in Hawaii Before 1900," *The Hawaiian Journal of History*, Vol. 5 (1971), pp. 50-58; the Hawaii State Department of Planning and Economic Development and the Office of the Lieutenant Governor, *Voter Participation in Hawaii, 1970* (December 28, 1971), tables 1 and 5; and Office of the Lieutenant Governor, *Result of Votes Cast, General Election, Tuesday, November 7, 1972, State of Hawaii*, p. 6.

Table 65.—SEX OF REGISTERED VOTERS, FOR HAWAII: 1890 TO 1972

Year	Population 20 years and older ¹			Registered voters ²			Percent of population registered		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
1890 ...	56,766	40,132	16,634	13,593	13,593	—	23.9	33.9	0
1900 ...	108,486	81,817	26,669	11,216	11,216	—	10.3	13.7	0
1910 ...	121,602	86,313	35,289	14,442	14,442	—	11.9	16.7	0
1920 ...	144,462	93,364	51,098	26,335	17,084	9,251	18.2	18.3	18.1
1930 ...	201,505	135,657	65,848	52,149	31,845	20,304	25.9	23.5	30.8
1940 ...	243,982	152,304	91,678	87,321	(NA)	(NA)	35.8	(NA)	(NA)
1950 ...	299,749	170,583	129,166	140,800	76,602	64,198	47.0	44.9	49.7
1960 ...	360,193	196,431	163,762	202,059	104,591	97,468	56.1	53.2	59.5
1970 ...	466,259	243,893	222,366	291,681	146,630	145,051	62.6	60.1	65.2
1972 ...	520,000	272,000	248,000	337,837	169,896	167,941	65.0	62.5	67.7

NA Not available.

¹As of December 28, 1890, June 1, 1900, April 15, 1910, January 1, 1920, April 1, 1930-1970, and July 1, 1972. The 1972 estimates refer to persons 18 years old and over. Data for 1900-1940 include persons of unreported age.

²As of December 28, 1890 and November 1900-1972.

Source: *Report of the General Superintendent of the Census, 1890*, tables 5 and 7; *U.S. Census of Population: 1960*, Final Report PC (1)-13B, table 17; *U.S. Census of Population: 1970*, Final Report PC(1)-B13, table 20; Hawaii State Department of Planning and Economic Development and Office of the Lieutenant Governor, *Voter Participation in Hawaii, 1970* (December 28, 1971), table 1; Office of the Lieutenant Governor, *Result of Votes Cast, General Election, Tuesday, November 7, 1972, State of Hawaii*, p. 98; unpublished 1972 population estimates by the Department of Planning and Economic Development.

Table 66.—SEX AND PARTY OF REGISTERED VOTERS: NOVEMBER 7, 1972

County	Total	Sex		Party affiliation		
		Male	Female	Democratic party	Republican party	Non-affiliated
The State	337,837	169,896	167,941	171,374	46,890	119,573
Honolulu	262,597	131,442	131,155	128,743	37,875	95,979
Hawaii	34,958	17,668	17,290	17,879	5,586	11,493
Maui	24,581	12,641	11,940	14,644	2,328	7,609
Kauai	15,701	8,145	7,556	10,108	1,101	4,492

Source: Office of the Lieutenant Governor, *Result of Votes Cast, General Election, Tuesday, November 7, 1972, State of Hawaii*, p. 98.

**Table 67.—POPULATION BY ELIGIBILITY TO VOTE, REGISTERED VOTERS,
AND VOTES CAST: 1970**

Subject	Number ¹
Population ²	778,853
Under 20 years old	306,350
20 years old and over	472,503
Armed forces	45,864
Military dependents	19,357
Other civilians	407,282
Ineligible "other civilians"	76,989
Aliens	57,187
Residence less than one year ³	18,349
Patients in mental institutions	1,029
Other non compos mentis	(NA)
Undischarged felons	424
Eligible	330,293
Percent of "other civilians," 20 and over	81.1
Registered for general election	291,681
Percent of "other civilians," 20 and over	71.6
Percent of number eligible	88.3
Registered after general election ⁴	255,053
Percent of "other civilians," 20 and over	62.6
Percent of number eligible	77.2
Votes cast in general election	247,740
Percent of total population	31.8
Percent of "other civilians," 20 and over	60.8
Percent of number eligible	75.0
Percent of number registered	84.9

NA Not available.

¹Unrounded estimates used for computational convenience; not meant to imply accuracy beyond two or three significant figures.

²Based on usual place of residence, as defined by the U.S. Bureau of the Census. Excludes persons from Hawaii attending school or serving in the armed forces on the Mainland or abroad, many of whom are eligible to participate in Hawaii elections. In Fall 1968, 7,899 students from Hawaii (including those below voting age) were attending colleges and universities in other States, and, as of July 31, 1970, 13,641 Selective Service registrants from Hawaii were on active duty with the armed forces.

³Persons qualified by citizenship and age but not by length of legal residence in Hawaii. Such persons may, however, vote in presidential elections upon application.

⁴Purged total, after persons who voted in neither the primary nor general elections of 1970 were dropped from the registration rolls.

Source: Hawaii State Department of Planning and Economic Development and Office of the Lieutenant Governor, *Voter Participation in Hawaii, 1970* (December 28, 1971), table 6.

Table 68.—PARTY MEMBERSHIP OF THE TERRITORIAL AND STATE LEGISLATURES: 1901 TO 1973

Regular session	House of Representatives				Senate			
	Total	Democrats	Republicans	Home Rule	Total	Democrats	Republicans	Home Rule
1901	30	4	9	17	15	—	6	9
1911	30	—	28	2	15	1	12	2
1921	30	4	26	—	15	1	14	—
1931	30	3	27	—	15	1	14	—
1941	30	3	27	—	15	3	12	—
1951	30	9	21	—	15	6	9	—
1961	51	33	18	—	25	11	14	—
1963	51	40	11	—	25	15	10	—
1965	51	39	12	—	25	16	9	—
1967	51	39	12	—	25	15	10	—
1969 ¹	50	38	12	—	25	17	8	—
1971 ²	51	34	17	—	24	16	8	—
1973	51	35	16	—	25	17	8	—
COUNTIES: 1973								
Hawaii	6	3	3	—	3	2	1	—
Maui	4	3	1	—	2	2	—	—
Honolulu	38	27	11	—	19	12	7	—
Kauai	3	2	1	—	1	1	—	—

¹One disputed House seat was left unfilled for the session.

²Excludes vacancy caused by the death of a Senate Democrat prior to the session.

Source: Hawaii State Department of Planning and Economic Development and Office of the Lieutenant Governor, *Voter Participation in Hawaii, 1970* (December 28, 1971), p. 7; Chamber of Commerce of Hawaii, *Who's Who in Government, State of Hawaii, 1972-1973*.

Table 69.—VOTES CAST FOR MAJOR OFFICES: 1966 TO 1972

Election and office	Democratic party		Republican party		Other parties	
	Candidate	Votes	Candidate	Votes	Candidate	Votes
November 8, 1966:						
Governor	Burns	108,840	Crossley	104,324	None	—
U.S. Representative ¹	Matsunaga	140,110	Carroll	67,281	None	—
	Mink	140,880	Kealoha	62,473	None	—
November 5, 1968:						
President	Humphrey	141,324	Nixon	91,425	Wallace ²	3,469
U.S. Senator	Inouye	189,248	Thiessen	34,008	Lee ³	3,671
U.S. Representative ¹	Matsunaga	161,954	Blaisdell	78,733	Olsen ³	2,432
	Mink	149,207	DuBois	39,233	Lombardi ³	2,026
November 3, 1970:						
Governor	Burns	137,150	King	100,573	None	—
U.S. Senator	Heftel	116,039	Fong	123,334	None	—
U.S. Representative, Dist. 1	Matsunaga	84,845	Cockey	31,534	None	—
U.S. Representative, Dist. 2	Mink	90,628	None	—	None	—
November 7, 1972:						
President	McGovern	101,409	Nixon	168,865	None	—
U.S. Representative, Dist. 1	Matsunaga	73,826	Rohlfing	61,138	None	—
U.S. Representative, Dist. 2	Mink	79,856	Hansen	60,043	None	—

¹Two elected at large.

²American Independent.

³Peace and Freedom.

Source: Office of the Lieutenant Governor, *Results of Votes Cast, General Election, State of Hawaii* for 1966, 1968, 1970, and 1972.

SECTION 6

GEOGRAPHY AND ENVIRONMENT

This section relates to area, climatologic, topographic, hydrologic, and other geographic and environmental measurements of Hawaii.

The State consists of eight major Islands and 124 minor Islands with a total land area of 6,425 square miles and a coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), and 2,397 miles from San Francisco. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kauhonahua Stream, 33 miles in length; the biggest lake is Halalii, 841 acres; and the highest named waterfall is Kahiwa, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter and radioactivity, indicate that Honolulu is one of the cleanest cities in the nation. There is also very little water pollution: eight out of nine major Oahu beaches were rated "A" in 1971 (coliform not exceeding 50 to 100 ml.) and only one was rated either "B" (51-500) or "C" (501 or more). Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range in downtown Honolulu, for example, is from 57° to 88°F. Normal precipitation, however, ranges from 5.7 inches near Kawaihae to 486 inches atop Waialeale. The longest volcanic eruption in Island history lasted 875 days, the worst earthquake attained 7.5 on the Richter scale, and the highest tsunami wave reached 66 feet.

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in *Geographic Statistics of Hawaii*, published by the Department of Planning and Economic Development (now out of print). National data are reported in *Statistical Abstract of the United States: 1972*, Section 6.

Table 70.—GREAT CIRCLE DISTANCES IN STATUTE MILES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Miles from Honolulu	Place	Miles from Honolulu
Hawaiian Islands:		Other Pacific, con.:	
Cape Kumukahi, Hawaii ¹	236	Hong Kong	5,541
Hilo, Hawaii	214	Johnston Island	820
Ka Lae (South Cape), Hawaii	221	Kingman Reef	1,073
Kailua, Kona, Hawaii	168	Manila, Philippines	5,293
Kahului, Maui	98	Pago Pago, Amer. Samoa	2,606
Lanai Airport	72	Palmyra Islands	1,101
Molokai Airport	54	Papeete, Tahiti	2,741
Lihue, Kauai	103	Suva, Fiji	3,159
Puuwai, Niihau	152	Sydney (Port Jackson), Australia	5,070
Nihoa	283	Tokyo, Japan	3,847
Necker Island	520	Wake Island	2,294
French Frigate Shoals	556		
Gardner Pinnacles	688	North America:	
Maro Reef	851	Anchorage, Alaska	2,781
Laysan Island	936	Chicago, Illinois	4,179
Lisianski Island	1,065	Cristobal, Canal Zone	5,214
Pearl and Hermes Atoll	1,208	Los Angeles, California	2,557
Midway Islands	1,309	Miami, Florida	4,856
Kure Atoll ¹	1,367	New York, N.Y.	4,959
Trust Territory of the Pacific Islands:		Portland, Oregon	2,595
Majuro, Marshall Islands	2,271	San Diego, California	2,610
Kwajalein, Marshall Islands	2,443	San Francisco, California	2,397
Kolonia, Ponape, E.C.I.	3,087	Seattle, Washington	2,679
Saipan, Mariana Islands	3,704	Vancouver, B.C.	2,709
Koror, Palau, W.C.I.	4,593	Victoria, B.C.	2,668
Other Pacific locations:		Tijuana, Mexico	2,616
Apra Harbor, Guam	3,806	Washington, D.C.	4,829
Auckland, N.Z.	4,393		

¹The great circle distance from Kure Atoll to Cape Kumukahi, Hawaii, is 1,523 statute miles. This distance represents the total length of the Hawaiian Archipelago.

Source: U.S. Geological Survey measurements cited in the Hawaii State Department of Planning and Economic Development, *Geographic Statistics of Hawaii* (Statistical Report 67, July 1, 1969), p. 5.

Table 71.—AREA AND COASTLINE OF COUNTIES, ISLANDS, AND CITIES

County, Island or city	Area in square statute miles			Coastline in statute miles	
	Total	Land	Inland water	General coastline ¹	Tidal shoreline
The State	6,450	6,425	25	750	1,052
Counties:					
Hawaii	4,038.0	4,037.0	1.0	266	313
Maui	1,161.1	1,160.3	0.8	} 210	343
Kalawao	13.3	13.3	—		
Honolulu	610.9	595.7	15.2		
Kauai	627.1	619.1	8.0	137	234
				137	162
Islands:					
Hawaii	4,038.0	4,037.0	1.0	266	313
Maui	728.8	728.2	0.6	120	149
Kahoolawe	45.0	45.0	—	29	36
Molokini	<0.01	<0.01	—	—	—
Lanai	139.5	139.5	—	47	52
Molokai	261.1	260.9	0.2	88	106
Oahu	607.7	592.7	15.0	112	209
Kauai	553.3	548.7	4.6	90	110
Niihau	73.0	69.6	3.4	45	50
Lehua	0.4	0.4	—	—	—
Kaula	0.4	0.4	—	2	2
Northwestern Haw'n Isl.	3.2	3.0	0.2	25	25
Cities:					
Hilo	298.9	298.9	—	—	—
Honolulu	88.7	86.6	2.1	—	—
On Oahu	85.5	83.6	1.9	—	—
On NW Haw'n Isl.	3.2	3.0	0.2	25	25

¹Figures for the four Islands of Maui County are not consistent with the published County total.

Source: Hawaii State Department of Planning and Economic Development, *Geographic Statistics of Hawaii* (Statistical Report 67, July 1, 1969).

Table 72.—MOUNTAIN HEIGHTS
(Elevation of the highest point on each Island and other important peaks.)

Island and mountain	Elevation (feet)	Island and mountain	Elevation (feet)
Hawaii:		Oahu:	
Mauna Kea ¹	13,796	Kaala	4,020
Mauna Loa	13,677	Konahuanui ²	3,150
Hualalai	8,271	Tantalus	2,013
Kohala	5,480	Olomana	1,643
Kilauea (Uwekahuna)	4,090	Diamond Head	760
Kilauea (Halemaumau Rim)	3,646	Punchbowl	500
		Koko Head	642
Kahoolawe:		Kauai:	
Lua Makika	1,477	Kawaikini	5,243
		Waialeale	5,148
Maui:		Niihau:	
Haleakala (Red Hill)	10,023	Paniau	1,281
Haleakala (Kaupo Gap)	8,201		
Puu Kukui	5,788	Kaula	550
Iao Needle	2,250	Nihoa	910
Lanai:		Necker Island	277
Lanaihale	3,370	La Perouse Pinnacle	135
		Gardner Pinnacles	190
Molokai:		Maro Reef	Awash
Kamakou	4,970	Laysan Island	35
Puu Nana	1,381	Lisianski Island	20
		Pearl and Hermes Atoll	—
		Midway Islands ³	12+
		Kure Atoll	20
		Kingman Reef ³	3
		Palmyra Islands ³	6

¹Includes 19 cones over 11,000 feet, five of them over 13,000.

²Two distinct peaks. The lower has an elevation of 3,105 feet.

³Not part of the State of Hawaii.

Source: U.S. Geological Survey data cited in the Hawaii Department of Planning and Economic Development, *Elevations of Major Mountains in Hawaii* (Statistical Report 52, November 7, 1967), as revised.

Table 73.—MAJOR STREAMS, LAKES, AND WATERFALLS

Subject	Name	Island	Magnitude
Streams:			
Longest water feature (mi.)	Kaukonahua Str.	Oahu	33.0
Second longest water feature (mi.)	Wailuku Riv.	Hawaii	32.0
Greatest ave. discharge (million gal./day)	Wailuku Riv.	Hawaii	303.5
Lakes:			
Greatest area (natural) (acres) ¹	Halulu	Niihau	182
Greatest area (man-made) (acres)	Koloa Res.	Kauai	422
Longest shoreline (miles)	Wahiawa Res.	Oahu	11
Highest (feet above sea level)	Lake Waiau	Hawaii	13,020
Named waterfalls:			
Greatest sheer drop (feet)	Akaka	Hawaii	442
Highest cascade (feet)	Kahiwa	Molokai	1,750

¹Excludes fishponds and intermittent lakes. The largest intermittent lake is Halalii Lake, Niihau (840.7 acres).

Source: Hawaii State Department of Planning and Economic Development, *Geographic Statistics of Hawaii* (Statistical Report 67, July 1, 1969), as corrected.

Table 74.—VOLCANIC ERUPTIONS: 1790 TO 1973

(Includes eruptions over 200 days in duration, 15 square miles in area, or 200,000,000 cubic yards in volume; the most recent eruption of record for each volcano; and all eruptions since 1968.)

Volcano and date of outbreak	Duration (days)	Area (square miles)	Volume (cubic yards)
Haleakala:			
c. 1790	(NA)	2.2	35,000,000
Hualalai:			
1800-1801	(NA)	17.7	410,000,000
Mauna Loa:			
1843: Jan. 9	90	20.2	250,000,000
1855: Aug. 11	450	12.2	150,000,000
1859: Jan. 23	300	32.7	600,000,000
1873: Apr. 20	547	(NA)	(NA)
1880: Nov. 1	280	24.0	300,000,000
1887: Jan. 16	10	11.3	300,000,000
1899: July 4	19	16.2	200,000,000
1919: Sept. 29	Short	9.2	350,000,000
1950: June 1	23	35.0	600,000,000
Kilauea:			
1840: May 30	26	6.6	281,000,000
1919: Feb. 7	294	1.6	34,500,000
Dec. 21	221	5.0	62,000,000
1967: Nov. 5	251	0.25	110,000,000
1968: Aug. 22	5	0.01	50,000
Oct. 7	15	0.8	9,000,000
1969: Feb. 22	6	2.3	22,00,000
May 24	875	19.0	240,000,000
1971: Aug. 14	< 1	0.8	12,000,000
Sept. 24	5	1.5	10,000,000
1972: Feb. 4 ¹	In progress	13.5	175,000,000
1973: May 5	< 1	0.07	1,200,000

NA Not available.

¹Still in progress, July 1973; area and volume are as of early May 1973.

Source: Gordon A. Macdonald and Agatin T. Abbott, *Volcanoes in the Sea* (University of Hawaii Press, 1970), pp. 50, 53, 56-57, and 74-75; Hawaiian Volcano Observatory, records.

Table 75.—EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1838 TO 1973

Date	Location	Estimated Richter magnitude ¹
1838: December 12	Hawaii	6
1841: April 7	Hawaii	6
1852: March 31	Hawaii	6
1868: March 28	Hawaii	6.5
April 2	Hawaii	7.5
1871: February 18	South of Oahu	6.5
1875: November 23	Hawaii	6
1887: January 24	Hawaii	6
1913: October 25	Hawaii	6.5
1918: November 1	Hawaii	6.5
1919: September 14	Hawaii	6.5
1929: October 6	Hawaii	6.5
1938: January 23	N. of Pauwela Pt., Maui	6.75
1940: June 17	Hawaii	6
1941: September 25	Hawaii	6
1950: May 30	Hawaii	6.25
1951: April 23	Hawaii	6.5
August 21	Hawaii	6.9
1952: May 23	Hawaii	6
1953: January 15	Hawaii	5.25
1954: March 30	Hawaii	6
March 30	Hawaii	6.5
1961: September 25	Hawaii	5.75-6
1962: June 28	Hawaii	6.1
1963: October 23	Hawaii	5
1964: October 11	W. of Kona Coast	5
1972: December 23	W. of Kona Coast	5
1973: April 26	Honolulu, Hawaii	6.2

¹Except for the earthquake of April 2, 1868, magnitudes prior to 1929 are conjectural.

Source: Information supplied by Wm. Mansfield Adams and Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii; *Honolulu Advertiser*, April 27, 1973. Correct to April 26, 1973.

Table 76.—TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1819 TO 1973

Date ¹	Maximum height in Hawaii (feet)	Deaths in Hawaii	Damage in Hawaii
1819: April 12	6.6	—	Unknown
1837: Nov. 7	19.7	16	174 houses
1841: May 17	15.1	—	Unknown
1868: April 2	65.6	46	Great locally
August 14	15.1	—	Severe
1869: July 25	29.9	—	Some
1877: May 10	16.1	5	Extensive
1878: Jan. 20	9.8	—	Some houses
1896: June 15	29.9	—	Unknown
1906: Jan. 31	11.8	—	Minor
August 16	11.8	—	Some
1919: April 9	14.1	—	Minor
April 30	13.8	—	Unknown
1922: November 11	6.9	—	Minor
1923: February 3	20.0	1	\$1,500,000
1924: May 30	16.4	—	Great locally
1933: March 2	9.5	—	Unknown
1946: April 1	55.8	159	\$26,000,000
1952: November 4	20.0	—	\$ 1,000,000
1957: March 9	52.5	—	\$ 5,000,000
1960: May 23	34.4	61	\$23,000,000
1964: March 27	15.7	—	\$ 67,590

¹Limited to tsunamis with a maximum run-up of 2.0 meters or more.

Source: George Pararas-Carayannis, *Catalog of Tsunamis in the Hawaiian Islands* (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. III (1969), pp. 66-86; Hawaii Institute of Geophysics, records. Correct to January 30, 1973.

Table 77.—WATER QUALITY DATA FOR OAHU BEACHES: 1950 TO 1971

Beach	Coliform per 100 milliliters (logarithmic average)					
	1950	1960	1968	1969	1970	1971
Ala Moana Park	177.0	11	14	5	3	7
Fort De Russy	19.2	7	25	13	11	15
Kuhio Beach	4.0	6	12	15	25	43
Hanauma Bay	3.9	2	6	13	16	7
Kailua Beach	6.4	6	12	13	15	14
Punaluu Park	6.3	157	20	7	8	74
Haleiwa Park	12.6	81	21	7	7	11
Waianae Park	1.7	3	52	9	13	32
Ewa Beach	2.4	9	6	6	4	6

Source: *Annual Report, Department of Health, State of Hawaii, Statistical Supplement, 1950-1971.*

Table 78.—DAILY REFUSE, FOR OAHU: 1970
 (Excludes agricultural and military refuse.)

Kind of refuse	Tons
Total refuse	2,236
Combustible:	
Paper	635
Trimming	362
Rags	23
Wood	494
Food	51
Plastics and miscellaneous	20
Non-combustible:	
Metal	127
Glass	63
Demolition material	461

Source: Metcalf & Eddy, *Solid Waste Management Plan for City and County of Honolulu* (July 1971), p. 61.

Table 79.—AEROMETRIC SURVEY DATA, FOR HONOLULU: 1957 TO 1972

Year	Suspended particulate matter (mean micrograms per cubic meter)	Benzene-soluble organic matter (mean micrograms per cubic meter)	Beta radioactivity (mean micromicrocuries per cubic meter)
1957	47	3.5	0.6
1958	59	7.5	3.3
1959	63	5.4	1.3
1960	47	4.1	0.0
1961	43	3.0	0.8
1962	41	3.1	4.0
1963	42	4.3	3.7
1964	44	2.3	0.9
1965	41	2.5	0.3
1966	35	2.8	0.2
1967	38	2.5	0.3
1968	45	2.8	(NA)
1969	43	2.3	(NA)
1970	37	1.5	(NA)
1971	45	(NA)	(NA)
1972	41	(NA)	(NA)

NA Not available.

Source: Hawaii State Department of Health, Environmental Health Division, Air Sanitation Branch, records.

Table 80.—AIR POLLUTANT EMISSIONS, BY SOURCE AND COUNTY: 1970

(In tons per year)

Source or county	Sulphur oxides	Particulates	Carbon monoxide	Hydrocarbons	Nitrogen oxides
Total	58,000	78,000	636,000	145,000	77,000
Source:					
Motor vehicles	1,000	1,420	413,500	67,900	40,700
Aircraft	570	1,390	4,570	3,810	1,250
Vessels	1,490	160	400	100	610
Other transportation	420	240	3,040	3,460	3,220
Fuel combustion in stationary sources	53,000	25,000	1,550	3,200	25,000
Residential, commercial, institutional ...	12,200	490	83	170	3,470
Industrial	12,000	910	11	160	3,000
Agricultural	2,550	22,800	1,450	2,200	3,900
Steam-electric utilities	26,200	1,150	6	700	14,800
Solid waste disposal	400	5,800	24,600	8,700	1,900
Industrial process losses	1,280	11,800	270	20,200	200
Agricultural	(N)	31,900	188,000	37,600	3,740
County:					
City and County of Honolulu	50,500	29,300	396,000	91,700	58,400
Hawaii County	3,000	22,800	97,400	21,800	8,100
Kauai County	1,200	11,900	55,600	12,200	3,900
Maui County	3,400	14,000	86,600	19,200	6,200

N Negligible

Source: Hawaii State Department of Health, Air Sanitation Branch, *Summary of Air Pollutant Emissions in the State of Hawaii, 1970* (table).

Table 81.—AEROMETRIC SURVEY DATA FOR SPECIFIED LOCATIONS:1972

Subject	Department of Health Bldg. ¹	Kalihi Kai ²	Pearl City ²	Barbers Point ³	Waimanalo ⁴	Ala Moana ²	Kahului, Maui ⁵	Kihei, Maui ⁶	Hilo, Hawaii ⁷
Minimum:									
Particulate matter ⁸	17	33	20	24	17	32	26	19	14
Sulfur dioxide ⁸	< 5	< 5	< 5	< 5	—	< 5	< 5	—	< 5
Nitrogen dioxide ⁸	<20	<20	<20	<20	—	<20	—	—	<20
Carbon monoxide, 1 hr. values ⁹ ...	1.5	—	—	—	—	—	—	—	—
Carbon monoxide, 8 hr. values ⁹ ...	0.1	—	—	—	—	—	—	—	—
Photochemical oxidants ⁸	< 1	—	—	—	—	—	—	—	—
Maximum:									
Particulate matter ⁸	114	232	172	155	78	104	184	125	95
Sulfur dioxide ⁸	36	< 5	7	7	—	12	234	—	16
Nitrogen dioxide ⁸	236	170	102	49	—	190	—	—	36
Carbon monoxide, 1 hr. values ⁹ ...	25.1	—	—	—	—	—	—	—	—
Carbon monoxide, 8 hr. values ⁹ ...	8.6	—	—	—	—	—	—	—	—
Photochemical oxidants ⁸	57	—	—	—	—	—	—	—	—
Annual average:									
Particulate matter ⁸	41	78	44	55	34	70	61	67	34
Sulfur dioxide ⁸	11	< 5	< 5	< 5	—	< 5	38	—	< 5
Nitrogen dioxide ⁸	56	47	26	21	—	64	—	—	27

¹Period of sampling: 12 months for particulates, 12 months for sulfur dioxide, 12 months for nitrogen dioxide, 11 months for carbon monoxide, and 12 months for photochemical oxidants.

²Period of sampling: 12 months for particulates, 12 months for sulfur dioxide, and 12 months for nitrogen dioxide.

³Period of sampling: 9 months for particulates, 9 months for sulfur dioxide, and 9 months for nitrogen dioxide.

⁴Period of sampling: 12 months.

⁵Period of sampling: 12 months for particulates and 9 months for sulfur dioxide.

⁶Period of sampling: 9 months.

⁷Period of sampling: 9 months for particulates, 7 months for sulfur dioxides, and 7 months for nitrogen dioxide.

⁸Concentration in micrograms per cubic meter.

⁹Concentration in milligrams per cubic meter.

Source: Hawaii State Department of Health, Environmental Health Division, Air Sanitation Branch, records.

Table 82.—ENVIRONMENTAL QUALITY CONTROL: 1970-1971

Level of government and expenditure category	Revenue: fiscal 1970-71 ¹ (\$1,000)	Expenditure: fiscal 1970-71 (\$1,000)		Employment: October 1971		Payroll: October 1971 (\$1,000)
		Current operation	Capital outlay	Full- time	Part- time	
State of Hawaii:						
Water quality control	—	299	199	19	—	16
Solid waste management	—	83	—	—	52	6
Air quality control	—	246	—	22	—	20
City & Co. of Honolulu:						
Water quality control	253	4,402	15,678	394	—	325
Solid waste management	1,504	5,690	1,480	592	—	411
Air quality control	—	—	—	—	—	—

¹From sewerage or sanitation charges.

Source: U.S. Bureau of the Census, *Environmental Quality Control, Finances and Employment for Selected Large Governmental Units: Fiscal 1970-71*, GSS-No. 63 (December 1972).

Table 83.—CLIMATIC DATA FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F)		Extreme temperature of record (°F)		Average annual precipitation (inches)	Average annual possible sunshine (percent)
		Coolest month	Warmest month	Lowest	Highest		
Hawaii:							
Hilo Airport	27	70.6	75.8	53	94	136.62	38
Haw'n Volcanoes Nat. Park Hdq.	3,971	57.9	63.5	37	85	100.69	—
Kona (Kailua)	30	72.1	77.3	54	93	25.22	—
Puako ¹	10	73.1	79.8	52	98	9.47	—
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05	—
Mauna Kea summit ²	13,796	31.1	42.5	11	66	8.08	—
Maui:							
Hana	120	71.3	76.8	50	90	70.65	—
Haleakala summit	9,960	42.6	50.0	14	73	50.69	—
Kihei ³	90	70.9	78.4	49	98	13.25	—
Kahului Airport	48	71.7	79.0	48	95	16.33	70
Lahaina	45	71.2	77.7	52	93	14.53	—
Molokai:							
Kaunakakai	12	—	—	—	—	14.08	—
Molokai Airport	450	70.2	77.6	48	90	29.21	—
Lanai:							
Lanai City	1,620	65.8	72.8	46	88	38.44	—
Oahu:							
Honolulu International Airport ..	7	72.4	79.4	52	92	21.89	69
Honolulu Federal Building ⁴	12	71.9	78.4	57	88	23.96	65
Waikiki ⁵	10	71.9	80.6	51	93	28.90	—
Manoa (HSPA)	500	69.4	75.2	—	—	158.41	—
Kaneohe MCAS	10	72.9	79.1	58	90	43.88	—
Kahuku	25	70.6	77.8	49	95	41.10	—
Wheeler AFB	826	68.2	75.5	52	89	39.85	—
Waianae	20	72.1	79.7	45	96	20.31	—
Kauai:							
Kilauea	315	68.7	75.6	49	94	68.03	—
Kealia	9	70.2	78.0	44	93	43.28	—
Lihue Airport	103	70.7	78.4	50	90	43.00	55
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39	—
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	80	72.25	—
Waialeale	5,075	—	—	—	—	486.	—
Northwestern Hawaiian Islands:							
Midway	10	65.0	78.6	52	89	43.60	—

¹Temperature data are for Mahukona.

²Based on incomplete and non-continuous data for 1966-1972.

³Temperature data refer to Puunene Airport.

⁴Temperature sensors are 87 feet above the ground.

⁵Located at Honolulu Zoo. Available only from 1965. The rainfall average shown is thought to be above the long-term average.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 13, 1973.

Table 84.—CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term average:			
Lowest monthly average minimum temperature (°F.)	February	Mauna Kea summit	23.3
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit	31.1
Highest monthly average maximum temperature (°F.)	August	Waiawa, Kauai	89.7
Highest monthly average daily temp. (°F.)	August	Puako, Hawaii	80.7
Lowest average annual rainfall (inches) . . . . .	. . . . .	N. of Kawaihae	5.7
Highest average annual rainfall (inches) . . . . .	. . . . .	Waialeale	486
Single events:			
Lowest temperature of record (°F.)	Feb. 11, 1973	Mauna Kea summit	11
Highest temperature of record (°F.)	April 27, 1931	Pahala	100
Lowest annual rainfall of record (inches)	1953	Kawaihae, Hawaii	0.2
Highest annual rainfall of record (inches)	1947-1948	Waialeale	624
Highest wind speed of record (m.p.h.)	Jan. 17-18, 1959	Mauna Loa Obser.	105+

Source: U.S. Department of Commerce, National Weather Service Pacific Region, data supplied March 14, 1973.

**Table 85.—HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA:
1945 TO 1972**

(Counts made in late December, in a circle, 15 miles in diameter,
centered near Nuuanu Pali.)

Years	Annual average		Species	Birds, 1972
	Species	Individual birds		
1945-49	30	3,190	House Sparrow	2,538
1950-54	26	3,561	Common Mynah	2,427
1955-59	35	5,383	Barred Dove	1,809
1960-64	36	5,936	Red-footed Booby	1,615
1965-69	50	14,256	Cattle Egret	1,208
			Great Frigatebird	984
1970	51	10,454	Pacific Golden Plover	683
1971	50	13,218	Spotted Dove	627
1972	52	14,559	Japanese White-eye	561
			Rice bird	369

Source: Hawaii Audubon Society, *The Elepaio*, for Feb. 1949, Feb. 1958, Feb. 1962, Feb. 1972, and Feb. 1973.

SECTION 7

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories, such as farms, forests, parks, or military land, is given elsewhere.

Out of 4,050,176 acres on the six largest islands of the State, only 155,705 are in urban use. The largest uses are grazing (1,150,534 acres), forest reserve (1,190,954), and *pali* or other barren land (503,308). Approximately half of the 55,000 acres in Honolulu were unused open space when last surveyed in 1969; the second largest category at that time was residential use, with over 8,300 acres. For the State as a whole, the Land Use Commission has zoned 134,300 acres as "urban," 2,038,400 as "conservation," 1,932,500 as "agricultural," and 6,300 as "rural." Approximately 9 percent of the land in the State is owned by the Federal government, 38 percent by State government, 46 percent by major private owners (those with 1,000 or more acres), and less than 7 percent by small landowners.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with State totals ranging from 356,000 to 397,000 acres. Recent statistics on military land use are likewise confusing, going as high as 175,000 acres and as low as 56,000.

Reports of the Hawaii State Department of Land and Natural Resources, Department of Taxation, and Department of Transportation, the Land Study Bureau of the University of Hawaii, and the Congressional Committee on Government Operations provided the data for this section. Statistics for the nation as a whole are available in Sections 7 and 23 of the *Statistical Abstract of the United States: 1972*.

Table 86.—LAND USE ACREAGES, BY ISLAND: 1968

Land Use	Six Islands	Kauai	Oahu	Molokai	Lanai	Maui	Hawaii
All uses	4,050,176	354,112	388,928	167,104	89,280	466,432	2,584,320
Pineapple	69,276	2,699	18,987	17,276	16,236	14,078	—
Sugar cane	262,377	58,927	40,852	4	—	47,819	114,775
Nonplantation agriculture	1,197,688	55,311	51,741	90,072	—	180,511	820,053
Vegetable	6,708	339	2,102	845	—	1,506	1,916
Orchard	24,294	455	1,670	104	—	536	21,529
Grazing	1,150,534	53,637	38,608	86,850	—	176,810	794,629
Other ¹	2,567	547	1,434	2	—	331	253
Idle agricultural land	13,585	333	7,927	2,271	—	1,328	1,726
Forest	289,039	38,716	30,033	2,037	5,926	14,504	197,823
Forest reserve	1,190,954	157,555	118,766	48,338	—	156,035	710,260
Recreation ²	334,256	11,244	5,184	415	66,683	18,980	231,750
Military	38,048	1,886	35,055	316	—	—	791
Urban	155,705	4,550	56,850	1,091	435	6,204	86,575
Civilian	61,233	4,400	36,957	1,091	435	6,204	12,146
Military	17,658	150	17,508	—	—	—	—
Undeveloped subdivision	76,814	—	2,385	—	—	—	74,429
Pali and barren land	503,308	22,235	23,799	7,477	—	27,852	421,945
Quarry	1,462	23	1,077	30	—	85	247
Water	8,063	966	6,584	48	—	364	101

¹Includes water crop (974), forage (423), dairy (738), poultry (275), swine (103), feed lot (38), and salt bed (16).

²Includes game management areas (87,585), national parks (299,423), and other recreation areas (17,248).

Source: A.Y. Ching and T. Sahara, *Land Use and Productivity Rating, State of Hawaii, 1968*, Land Study Bureau Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 18-19.

Table 87.—LAND USE SUMMARY, FOR OAHU: 1969

Land use	Area (in acres)		
	Oahu	Honolulu	Rest of Oahu
Total area ¹	381,934.85	54,738.26	327,196.59
Residential ²	22,676.00	8,309.47	14,366.53
Industrial	6,304.94	2,622.62	3,682.32
Commercial	1,645.23	1,024.57	620.66
Hotel	97.87	90.73	7.14
Public buildings	5,226.08	2,372.90	2,853.18
Public open spaces	7,795.17	2,660.40	5,134.77
Highways and streets	8,495.00	3,718.00	4,777.00
Agriculture	88,739.90	1,004.95	87,734.95
Military	47,650.43	5,394.53	42,255.90
Unused open space ²	193,304.23	27,540.09	165,764.14

¹Differs somewhat from measurement by the Bureau of the Census (379,328 for Oahu, 53,504 for Honolulu, and 325,824 for the rest of Oahu).

²Not directly comparable to 1964 data in *State of Hawaii Data Book 1970*, table 39, p. 36; for 1969, large parcels containing both residential and vacant areas were divided and reported separately.

Source: Hawaii State Department of Transportation, Advance Transportation Planning Office, 1969 land use files.

Table 88.—LAND AND FLOOR AREA IN COMMERCIAL AND HOTEL USE, FOR OAHU: 1964 AND 1969

Land use	Number of establishments	Land area (acres)	Floor area (square feet)	
			Total	Per establishment
Retailing:				
1964	3,746	1,016	10,986,345	2,933
1969	3,906	1,036	13,375,672	3,424
Services, exc. hotels:				
1964	4,862	434	9,146,100	1,881
1969	5,696	602	13,933,747	2,446
Hotels:				
1964	60	73	5,001,017	83,350
1969	81	116	7,571,981	93,481

Source: State of Hawaii and City and County of Honolulu, *Oahu Transportation Study*, Vol. I, *Economic, Population, and Land Use* (1967), p. IV-A-3; Hawaii State Department of Transportation, 1969 land use files from Oahu Transportation Planning Program.

Table 89.—ESTIMATED ACREAGE OF LAND USE DISTRICTS: FEBRUARY 15, 1972

(Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes.)

Island	Total area ¹	Classification by State Land Use Commission			
		Urban ²	Conservation ³	Agricultural ⁴	Rural ⁵
State total	4,111,500	134,300	2,038,400	1,932,500	6,300
Hawaii	2,573,400	25,600	1,355,100	1,191,600	1,100
Maui	465,800	14,300	193,000	255,200	3,300
Kahoolawe	28,800	—	28,800	—	—
Lanai	90,500	500	57,300	32,700	—
Molokai	165,800	5,100	49,900	109,900	900
Oahu	385,300	79,700	156,700	148,900	—
Kauai	353,900	9,100	195,300	148,500	1,000
Niihau	45,700	—	—	45,700	—
Kaula and Lehua	400	—	400	—	—
Northwestern Haw'n I.	1,900	—	1,900	—	—

¹These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census: State total, 4,128,256; Hawaii, 2,584,320; Maui, 466,432; Kahoolawe, 28,800 (same); Lanai, 89,280; Molokai, 167,104; Oahu, 388,928; Kauai, 354,112; Niihau, 46,720; Kaula and Lehua, 512; the Northwestern Hawaiian Islands, excluding Midway, 2,048.

²Defined as "those lands now in urban use and a sufficient reserve for future urban growth" (H.R.S. § 205-2).

³Includes all areas formerly designated "forest and water reserve zones" and includes, among others, "areas necessary for protecting watersheds and water sources; preserving scenic areas; providing park lands, wilderness, and beach reserves..." (*ibid.*).

⁴Defined as lands with a "high capacity for intensive cultivation" (*ibid.*).

⁵Defined as areas "primarily of small farms mixed with very low density residential lots" (*ibid.*).

Source: Hawaii State Land Use Commission, unpublished estimates.

Table 90.—LAND OWNERSHIP OR TENURE, BY ISLAND: JUNE 30, 1968

Island	Ownership or tenure (in acres)				
	Total land area	Federal government ¹	State government ²	Major private owners	Other owners ³
State total	4,128,263	355,769	1,584,715	1,917,560	270,219
Hawaii	2,584,320	241,858	1,106,126	1,052,583	183,753
Maui	466,439	26,478	204,895	221,223	13,843
Kahoolawe	28,800	28,800	—	—	—
Lanai	89,280	8	—	87,832	1,440
Molokai	167,104	78	53,019	110,444	3,563
Oahu	388,928	56,241	64,810	221,820	46,057
Kauai	354,112	2,306	153,305	176,953	21,548
Niihau	46,720	—	—	46,705	15
Other islands ⁴	2,560	—	2,560	—	—

¹Includes fee simple and ceded land.

²Includes State land managed by the County governments and various State agencies, and Hawaiian Homes Commission lands.

³Land owned by private landowners with less than 1,000 acres in fee simple and County land acquired by purchase or gift in the name of the Counties.

⁴Kaula, Lehua, and the Northwestern Hawaiian Islands.

Source: Hawaii State Department of Land and Natural Resources, *Report to the Governor, 1971-1972*, p. 50.

Table 91.—FEDERALLY OWNED PROPERTY IN HAWAII: 1960 AND 1970

Subject	June 30, 1960	June 30, 1970
Number of installations	167	160
Land (acres), total	234,074.1	396,900.7
Urban	23,530.2	57,202.3
Rural	210,543.9	339,698.4
Number of buildings	11,506	11,479
Cost (\$1,000), total	877,162	1,115,240
Land	21,910	40,083
Buildings	407,478	545,140
Structures and facilities	447,774	530,017

Source: Committee on Government Operations, U.S. House of Representatives, *Federal Real and Personal Property Inventory (Civilian and Military) of the United States Government Covering Its Properties Located in the United States, in the Territories, and Overseas* (biennial report).

SECTION 8

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the State income and product system and the other to the distribution of income to families and individuals. Specifically, information is given on the State balance of payments, personal income, family income, personal wealth, and family expenditures. Data on workers' earnings and payrolls appear in Section 10; on taxable income, in Section 13.

Total 1971 earnings from overseas, exclusive of capital movements, exceeded \$2,600,000,000, or about twice the 1964 total. The major sources of income to Hawaii in 1971 were defense expenditures (\$722 million), pineapple production (\$137 million), sugar production (\$214 million), and visitor expenditures (\$645 million). Personal income in 1971 was \$3,694 million, compared with \$1,595 million only ten years earlier, and per capita personal income was \$4,738, almost twice the 1961 level. The median annual income of families in 1969 ranged from \$9,643 in Maui County to \$12,035 on Oahu. The most recent family expenditure survey reported that the largest items in the family budget on Oahu were food and beverages (accounting for 28.3 percent of spending for current consumption) and housing (25.6 percent).

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, Hawaii State Department of Health, University of Hawaii Economic Research Center, Bank of Hawaii, and First Hawaiian Bank. Comparable data for the country as a whole are given in *Statistical Abstract of the United States: 1972*, Section 11.

Table 92.—BALANCE OF PAYMENTS (EXCLUDING CAPITAL MOVEMENTS): 1950 TO 1971
(In millions of dollars)

Year	Earnings by Hawaii from overseas					Expenditures by Hawaii to overseas				
	Total	Commodity exports	Federal expenditures	Services performed	Return on overseas investments	Total	Commodity imports	Payments to Federal government	Services performed	Return on investments in Hawaii
1950	513	230	202	60	21	564	363	98	84	19
1951	595	238	261	74	22	609	375	128	84	22
1952	633	239	294	77	23	600	338	152	89	21
1953	690	266	308	90	26	671	403	150	95	23
1954	679	259	306	90	24	643	370	152	92	29
1955	747	270	338	113	26	707	419	146	109	33
1956	805	286	357	130	32	748	430	164	117	37
1957	856	279	385	158	34	833	489	183	121	40
1958	859	253	421	152	33	821	460	191	130	40
1959	954	276	447	194	37	922	521	219	141	46
1960	1,029	264	486	230	49	1,036	566	259	165	46
1961	1,082	282	530	219	51	1,077	573	278	176	50
1962	1,112	294	530	229	59	1,120	548	314	197	61
1963	1,199	334	536	263	66	1,183	572	314	225	72
1964	1,310	322	602	313	73	1,314	653	337	242	82
1965	1,418	331	647	354	86	1,398	711	343	251	93
1966	1,607	351	751	415	90	1,544	796	382	262	104
1967	1,828	373	847	507	101	1,762	947	414	287	114
1968	1,983	378	912	580	113	1,999	1,029	527	313	130
1969	2,156	367	986	683	121	2,329	1,200	634	341	155
1970 ¹	2,325	391	1,079	727	128	2,778	1,534	672	419	153
1971 ¹	2,601	412	1,219	825	144	2,755	1,425	696	450	185

NA Not available.

¹Preliminary.

Source: Bank of Hawaii, *Hawaii '68* (August 1968), p. 44; *Hawaii '72* (August 1972), p. 45; and records.

Table 93.—GROSS STATE PRODUCT: 1939 TO 1971

Year	Millions of dollars	Year	Millions of dollars	Year	Millions of dollars
1939	264.6	1954	1,102.1	1969	3,653.8
1940	298.6	1955	1,179.8	1970	4,129.7
1941	413.9	1956	1,263.5	1971 ¹	4,473.7
1942	742.9	1957	1,352.2		
1943	944.4	1958	1,429.9		
1944	1,247.9	1959	1,584.9		
1945	1,224.8	1960	1,814.4		
1946	872.8	1961	1,903.8		
1947	875.2	1962	1,990.1		
1948	880.0	1963	2,075.4		
1949	831.5	1964	2,274.0		
1950	839.9	1965	2,423.9		
1951	962.5	1966	2,691.9		
1952	1,050.0	1967	2,922.1		
1953	1,087.6	1968	3,269.6		

¹Preliminary.

Source: Bank of Hawaii, *Hawaii '71* (August 1971), p. 43; *Hawaii '72* (August 1972), p. 43; and records.

Table 94.—EXPENDITURES ON GROSS DOMESTIC PRODUCT: 1958 TO 1968
(In millions of dollars)

Year	Personal consumption expenditures	Gross private investment	Changes in inventory	Gov't purchase of goods and services	Export of goods and services	Less: Import of goods and services	Expenditures on gross domestic product
1958.....	909.2	171.7	9.6	532.6	425.7	624.0	1,424.8
1959.....	1,010.0	239.0	11.3	567.3	486.7	704.7	1,609.5
1960.....	1,130.7	297.8	14.1	644.2	513.8	775.3	1,825.2
1961.....	1,183.9	284.4	16.2	693.8	535.7	796.2	1,917.8
1962.....	1,183.0	316.4	13.7	721.6	578.1	805.1	2,007.7
1963.....	1,230.4	290.2	7.9	770.9	664.7	865.7	2,098.4
1964.....	1,377.0	344.0	29.6	826.3	703.0	978.0	2,301.9
1965.....	1,388.7	394.1	57.7	896.6	770.9	1,057.8	2,450.2
1966.....	1,496.6	499.5	11.6	1,032.9	852.1	1,167.1	2,725.6
1967.....	1,679.4	454.8	28.9	1,172.1	1,001.6	1,382.3	2,954.5
1968.....	1,744.8	658.5	31.9	1,271.6	1,090.0	1,491.7	3,305.1

Source: Yung C. Shang, William H. Albrecht, and Glenn Ifuku, *Hawaii's Income and Expenditure Accounts, 1958-1968* (Economic Research Center, University of Hawaii, July 1970), pp. 11-12.

**Table 95.—DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES:
1950 TO 1972**
(In millions of dollars)

Year	Defense expenditures	Receipts from sales		Visitor expenditures
		Pineapple canning	Sugar processing	
1950	147.0	102.4	123.9	24.2
1951	213.5	95.6	135.1	29.0
1952	245.1	96.9	138.0	32.8
1953	251.1	113.5	147.8	42.6
1954	237.2	108.8	141.4	48.9
1955	272.5	115.7	145.7	55.0
1956	284.5	122.5	148.9	65.0
1957	307.9	115.9	147.5	77.6
1958	327.4	130.1	106.4	82.7
1959	338.0	128.3	132.2	109.0
1960	373.1	119.4	127.2	131.0
1961	401.9	119.5	146.4	137.0
1962	375.8	115.0	159.5	154.0
1963	368.6	123.7	191.7	186.0
1964	415.9	126.9	165.2	205.0
1965	459.6	126.6	176.4	225.0
1966	517.1	127.7	190.3	280.0
1967	584.8	133.3	190.9	380.0
1968	606.1	127.6	200.0	440.0
1969	660.2	125.3	189.2	525.0
1970	683.4	135.0	198.1	570.0
1971	721.8	137.0	213.6	645.0
1972	765.5	(NA)	(NA)	755.0

NA Not available.

Source: Hawaii Visitors Bureau, *Revised Visitor Statistics, 1964-1970* (July 1971) and records; Bank of Hawaii, *Hawaii '71, Annual Economic Review* (August 1971), pp. 45 and 47, and records.

Table 96.—DIRECT AND INDIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1960 AND 1971

Source of income	Expenditures or revenues (in millions of dollars)		Percent of income remaining in State ²	Amount remaining in State ¹ (in millions of dollars)		Total contribution to personal income ² (in millions of dollars)		Percent of personal income ³	
	1960	1971		1960	1971	1960	1971	1960	1971
Defense	351	709	79	277.3	560.1	477.0	963.4	32.3	25.3
Visitors	131	645	54	70.7	348.3	121.6	599.1	8.2	15.7
Sugar	127	210	67	85.1	140.7	146.4	242.0	9.9	6.4
Pineapple	119	135	53	63.1	71.6	108.5	123.2	7.3	3.2

¹After immediate leakages outside the State.

²Based on a regional multiplier of 1.72.

³Based on estimated totals of \$1,478 million in 1960 and \$3,810 million in 1971.

Source: Thomas K. Hitch, *The Impact of Exports on Income in Hawaii: 1971* (Research Division, First Hawaiian Bank, April 1972).

Table 97.—PERSONAL INCOME: 1939 TO 1972

Year	Total (millions of dollars)	Per capita (dollars)	Year	Total (millions of dollars)	Per capita (dollars)	Year	Total (millions of dollars)	Per capita (dollars)
1939	218	525	1951	793	1,580	1963	1,772	2,641
1940	246	577	1952	865	1,748	1964	1,907	2,813
1941	341	749	1953	896	1,795	1965	2,014	2,885
1942	612	1,087	1954	908	1,802	1966	2,220	3,185
1943	778	1,186	1955	972	1,838	1967	2,414	3,409
1944	1,028	1,239	1956	1,041	1,899	1968	2,700	3,755
1945	1,009	1,328	1957	1,114	1,944	1969	3,044	4,097
1946	719	1,312	1958	1,178	1,981	1970	3,472	4,557
1947	721	1,384	1959	1,315	2,156	1971	3,694	4,738
1948	723	1,407	1960	1,476	2,366	1972	3,991	4,995
1949	685	1,353	1961	1,595	2,481			
1950	692	1,386	1962	1,676	2,567			
	Total by county (millions of dollars)				Per capita by county (dollars)			
Year	Honolulu	Hawaii	Maui	Kauai	Honolulu	Hawaii	Maui	Kauai
1959	1,084.9	100.6	82.4	48.7	2,250	1,700	1,992	1,792
1962	1,406.8	124.3	92.9	56.5	2,690	2,083	2,194	2,015
1965	1,708.5	159.9	102.1	62.7	3,034	2,593	2,303	2,172
1966	1,874.6	158.7	110.8	67.7	3,325	2,616	2,513	2,379
1967	2,044.2	174.9	118.7	76.2	3,359	2,894	2,667	2,663
1968	2,301.2	188.4	129.3	83.7	3,939	3,083	2,909	2,871
1969	2,609.3	206.8	142.8	90.7	4,324	3,277	3,077	3,018
1970	2,947.2	238.9	160.9	100.3	4,740	3,745	3,465	3,340

Source: U.S. Department of Commerce, *Personal Income by States Since 1929* (1956), pp. 140-143, and *Survey of Current Business* for August 1971 (pp. 30-31), August 1972 (pp. 24-25), and April 1973 (p. 17); First Hawaiian Bank, *Economic Indicators Source Book* (1971), p. 61, and records.

Table 98.—PERSONAL INCOME BY MAJOR SOURCES: 1969 TO 1971

Item	Millions of dollars		
	1969	1970	1971
Personal income	3,044	3,472	3,694
Wage and salary disbursements	2,271	2,586	2,703
Farms	68	76	70
Mining	(¹)	(¹)	(¹)
Coal mining	—	—	—
Crude petroleum and natural gas	—	—	—
Mining and quarrying except fuel	(¹)	(¹)	(¹)
Contract construction	237	281	259
Manufacturing	167	182	193
Durables	41	43	42
Nondurables	126	139	151
Wholesale and retail trade	333	384	408
Finance, Insurance and real estate	118	138	147
Banking	24	29	32
Other finance, insurance and real estate	94	109	115
Transportation, communications and public utilities	186	213	221
Railroad transportation	(¹)	(¹)	(¹)
Highway freight and warehousing	19	22	22
Other transportation	86	98	103
Communications and public utilities	81	92	95
Services	303	346	382
Hotels and other lodging places	66	76	88
Personal services and private households	34	35	36
Business and repair services	53	63	65
Amusement and recreation	18	18	20
Professional, social and related services	132	153	174
Government	853	960	1,015
Federal, civilian	292	313	336
Federal, military	283	310	305
State and local	278	337	375
Other industries	4	6	6
Other labor income	83	101	118
Proprietors' income	198	204	223
Farm	29	24	34
Nonfarm	168	180	190
Property income	411	467	489
Transfer payments	192	240	304
Less: Personal contributions for social insurance	110	126	144

¹Less than \$500,000.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, August 1972, p. 30.

Table 99.—INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1950 TO 1970

(Data refer to income before taxes in calendar year preceding the census)

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County ¹
NUMBER OF FAMILIES: 1970					
All families	170,729	138,369	14,692	6,949	10,719
Less than \$3,000	11,464	8,751	1,231	512	970
\$3,000 to \$4,999	11,310	8,710	1,149	548	903
\$5,000 to \$9,999	47,697	36,305	5,208	2,439	3,745
\$10,000 to \$14,999	44,688	36,155	3,689	2,091	2,753
\$15,000 to \$24,999	42,265	36,703	2,661	1,124	1,777
\$25,000 to \$49,999	11,786	10,486	606	202	492
\$50,000 or more	1,519	1,259	148	33	79
MEDIAN INCOME OF FAMILIES (\$)					
1970	11,554	12,035	9,750	9,946	9,643
1960	6,366	6,792	4,866	4,976	5,216
1950	3,568	3,788	2,909	2,960	3,026
MEDIAN INCOME OF UNRELATED INDIVIDUALS (\$)					
1970 ²	2,981	3,013	2,541	3,382	2,559
1960	1,998	1,968	1,903	2,387	2,379
1950	1,583	(NA)	(NA)	(NA)	(NA)

NA Not available

¹Data for 1950 and 1970 (but not 1960) include Kalawao County.

²Unrelated individuals numbered 83,093 in 1970: 72,869 in the City and County of Honolulu, 4,543 in Hawaii County, 2,220 in Kauai County, and 3,461 in Maui County.

Source: *U.S. Census of Population: 1950*, Bulletin P-B52, table 27; *U.S. Census of Population: 1960*, Final Report PC(1)-13C, tables 66 and 86; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, tables 57 and 124.

Table 100.—INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1971
 (Annual income, before taxes, of families and unrelated individuals surveyed between
 March 1, 1971 and December 21, 1971. Excludes persons in barracks
 and institutions, and all residents of Niihau and Kalaupapa Settlement.)

Subject	Number of families or individuals, by income						Median income ¹ (dollars)
	Total	Under \$5,000	\$5,000 to \$9,999	\$10,000 to \$15,000	\$15,000 and over	Income not reported	
FAMILIES							
Total, six islands	186,961	21,905	52,992	46,366	56,514	9,184	11,509
Civilian	159,684	16,807	38,307	42,016	54,148	8,405	12,443
Military	27,277	5,098	14,685	4,350	2,366	799	7,775
Oahu	151,932	15,865	41,268	37,181	49,541	8,079	11,990
Civilian	124,972	10,804	26,766	32,898	47,205	7,300	13,232
Military	26,960	5,061	14,502	4,283	2,336	779	7,769
Hawaii	16,052	2,657	5,380	3,941	3,587	487	9,763
Maui	10,306	1,721	3,379	3,060	1,742	404	9,780
Kauai	7,080	1,364	2,380	1,728	1,425	182	9,379
Molokai	1,097	174	393	320	192	18	9,650
Lanai	495	124	192	137	27	14	—
UNRELATED INDIVIDUALS							
Total, six islands	36,228	13,049	9,885	4,702	2,093	6,499	5,918
Civilian	34,087	12,076	9,009	4,507	1,996	6,499	5,953
Military	2,141	973	876	195	97	—	—
Oahu	29,977	9,927	8,468	4,283	1,849	5,450	6,380
Civilian	27,836	8,954	7,592	4,088	1,752	5,450	6,475
Military	2,141	973	876	195	97	—	—
Hawaii	2,435	1,262	487	89	177	421	3,992
Maui	1,806	850	531	191	21	212	4,685
Kauai	1,698	849	349	121	45	334	4,016
Molokai	174	37	37	18	—	82	—
Lanai	137	124	14	—	—	—	—

¹Not shown where base (unexpanded) is less than 50.

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

Table 101.—POVERTY STATUS IN 1969 OF FAMILIES AND PERSONS: 1970

(Based on Federal definitions of poverty. Excludes inmates of institutions, members of the Armed Forces living in barracks, college students in dormitories, and unrelated individuals under 14 years of age.)

Subject	Number	Subject	Number
ALL INCOME LEVELS		INCOME LESS THAN POVERTY LEVEL	
Families	170,729	Families	13,046
Percent receiving public assistance income	3.8	Percent of all families	7.6
Mean size of family	3.98	Mean family income	\$1,910
With related children under 18 years	113,860	Mean income deficit	\$1,692
Mean number of related children under 18 years	2.42	Percent receiving public assistance income	17.5
Families with female head	15,971	Mean size of family	3.96
With related children under 18 years	11,380	With related children under 18 years	9,697
With related children under 6 years	5,127	Mean number of related children under 18 years	2.91
Percent of heads in labor force	42.5	Families with female head	5,180
Family heads	170,729	With related children under 18 years	4,822
Percent 65 years and over	8.7	With related children under 6 years	2,927
Civilian male family heads under 65 years	120,327	Percent of heads in labor force	23.3
Percent in labor force	94.2	Family heads	13,046
Unrelated individuals	55,588	Percent 65 years and over	17.7
Percent receiving public assistance income	4.0	Civilian male heads under 65 years	4,790
Percent 65 years and over	16.4	Percent in labor force	65.5
Persons	734,874	Unrelated individuals	16,833
Percent receiving Social Security income	5.8	Percent of unrelated individuals	30.3
Percent 65 years and over	5.8	Mean income	\$774
Percent receiving Social Security income	73.2	Mean income deficit	\$1,086
Households	193,104	Percent receiving public assistance income	7.6
In owner occupied housing units	86,107	Percent 65 years and over	27.1
Mean value of unit	\$36,806	Persons	68,543
In renter occupied housing units	106,997	Percent of all persons	9.3
Mean gross rent	\$125	Percent receiving Social Security income	12.6
Percent lacking some or all plumbing facilities	5.0	Percent 65 years and over	12.3
		Percent receiving Social Security income	76.1
		Related children under 18 years	27,834
		Percent living with both parents	46.2
		Households	20,754
		Percent of all households	10.7
		In owner occupied housing units	4,970
		Mean value of unit	\$31,339
		In renter occupied housing unit	15,784
		Mean gross rent	\$106
		Percent lacking some or all plumbing facilities	14.0

Source: U.S. Census of Population: 1970, Final Report PC(1)-C13, table 58.

Table 102.—PERSONS WITH ASSETS OF \$60,000 AND OVER: 1962

Subject	Number
Persons with assets of \$60,000 and over	11,323
Males	7,694
Females	3,629
Total assets (\$1,000)	1,907,758
Per wealthholder (dollars)	168,485
Net worth (\$1,000)	1,677,117
Males	1,029,688
Females	647,429
Number owning real estate	10,104
Amount owned (\$1,000)	801,943

Source: U.S. Treasury Department, Internal Revenue Service, *Statistics of Income—1962, Personal Wealth Estimated from Estate Tax Returns*, Publication No. 482 (7-67), table 31, p. 55.

SECTION 9

PRICES

This section presents indexes of consumer prices for Honolulu and a comparison of Honolulu family budgets with those in other metropolitan areas.

In December 1972, the Honolulu all-items consumer price index stood at 124.4, with the 1967 level equal to 100. The index had increased 2.7 percent in the preceding 12 months, 7.5 percent since December 1970, and 36.3 percent since December 1962. A "moderate" or "intermediate" budget for a four-person family living on Oahu was estimated at \$13,617 as of the autumn of 1972. This family budget was 19 percent higher than the corresponding urban United States average, and was second only to Anchorage among major American metropolitan areas.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics at three-month intervals since December 1963. This index measures the average change in prices of goods and services purchased by urban wage earner and clerical families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the *Monthly Labor Review* and *The Consumer Price Index*, issued monthly by BLS. A similar series for Honolulu was maintained by the Hawaii State Department of Labor and Industrial Relations from March 1943 to December 1963, using March 1943 as the base date.

Comparisons of living costs between Honolulu and various Mainland communities have most recently been made for the Fall of 1972. These data were compiled and published by the U.S. Bureau of Labor Statistics. Similar comparisons go back to 1847, and include a Honolulu-Los Angeles comparison for 1945, Honolulu-Washington comparisons for 1951 and 1955-1970, and a 40-area comparison for various dates since Autumn 1966. Budget costs for a retired couple have been prepared by BLS for Honolulu and the Mainland as of 1966, 1967, 1969, 1970, and 1971.

Data on prices and living costs are summarized in *Statistical Abstract of the United States: 1972*, Section 12.

Table 103.—AVERAGE EXPENDITURES, INCOME, AND SAVINGS OF URBAN FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1961

Item	Average per family (dollars)
Expenditures for current consumption	6,746
Food and beverages	1,909
Tobacco	88
Housing, total	1,729
Shelter, fuel, light, refrigeration, and water	1,093
Household operations	383
Housefurnishings and equipment	238
Clothing, materials, services	577
Personal care	207
Medical care	403
Recreation	306
Reading and education	212
Automobile purchase and operation	875
Other transportation	253
Other expenditures	187
Gifts and contributions	458
Personal insurance	545
Money income before taxes	9,217
Money income after taxes	7,950
Other money receipts	169
Net change in assets and liabilities	+472
Account balancing difference	-102

Source: U.S. Bureau of Labor Statistics, *Consumer Expenditures and Income. Honolulu, Hawaii, 1961* (BLS Report No. 237-78, November 1963), p. 2. Based on a sample of 215.

Table 104.—CONSUMER PRICE INDEX, FOR HONOLULU: 1940 TO 1973
(All items combined. 1967 average =100)

Year	Annual average	March	June	September	December
1940	40.5	40.1	—	40.8	—
1941	42.9	41.3	—	43.7	—
1942	48.5	47.1	—	49.6	—
1943	52.2	52.0	52.5	52.4	52.4
1944	53.2	52.1	53.5	53.5	53.9
1945	54.4	54.2	54.4	54.6	54.7
1946	58.3	54.4	55.3	60.7	66.8
1947	67.3	65.8	66.5	68.3	69.1
1948	70.9	70.0	69.7	71.9	73.2
1949	69.7	70.0	69.0	70.8	66.6
1950	66.9	66.1	66.2	67.5	68.3
1951	71.0	70.9	70.7	71.3	72.6
1952	73.1	72.3	72.6	73.8	74.2
1953	73.7	72.7	73.8	74.3	73.9
1954	74.4	74.5	73.9	74.7	74.8
1955	75.4	75.4	75.1	75.8	76.0
1956	76.4	76.4	76.1	76.5	77.4
1957	79.0	77.3	77.5	80.5	82.0
1958	82.8	82.8	82.0	83.3	83.3
1959	84.2	84.0	83.7	84.5	85.5
1960	86.3	85.8	86.2	86.6	87.3
1961	88.6	87.7	88.6	89.2	89.8
1962	90.6	90.1	90.0	91.2	91.3
1963	92.6	92.9	92.6	92.6	92.8
1964	92.9	93.2	92.4	92.9	93.7
1965	94.6	94.2	94.1	94.7	96.2
1966	97.3	96.6	96.8	97.9	98.8
1967	100.0	98.9	99.7	100.6	101.8
1968	103.8	102.8	103.4	104.6	105.7
1969	108.5	107.2	108.2	109.6	111.0
1970	114.2	113.2	114.4	114.9	115.7
1971	118.9	116.7	118.5	121.2	121.1
1972	122.8	122.4	122.2	123.1	124.4
1973	—	126.0	127.5	—	—

Source: Semi-annual data for 1940-1942 from studies by Eugene Danaher cited in Hawaii Employers Council, *Cost of Living in Honolulu, 1940-1948* (April 1948), pp. 5 and 7; quarterly data for 1943-1963 from Hawaii State Department of Labor and Industrial Relations, unpublished summary table (revised by DLIR from previously published values); annual and quarterly data for 1964-1972 from U.S. Bureau of Labor Statistics, *The Consumer Price Index* (monthly); annual averages for 1940-1963 computed by Hawaii State Department of Planning and Economic Development, using estimates for un-surveyed months (Jan., Feb., April, May, July, August, Oct., Nov.) based on linear interpolation. Data for 1940-1963 (originally on a March 1943 base) shifted to a 1967 (ann. ave.) base by DPED.

Table 105.—CONSUMER PRICE INDEX, FOR HONOLULU: 1943 TO 1972
(1967=100)

Group	March 1943	December 1953	December 1963	December 1971	December 1972
All items ¹	52.0	73.9	92.8	121.1	124.4
Food	—	—	92.3	120.9	126.8
At home	49.6	74.4	92.5	118.1	124.4
Away from home	—	—	91.5	129.0	133.5
Housing	—	—	89.9	122.8	126.0
Shelter	—	—	86.2	128.0	132.0
Rent	—	—	93.5	125.9	129.3
Homeownership	—	—	81.8	129.4	133.8
Fuel and utilities	71.3	89.9	99.7	108.8	110.8
Gas and electricity	—	—	100.6	104.3	106.2
Household furnishings, operation	—	—	96.3	113.5	114.7
Apparel and upkeep	71.2	84.3	94.5	119.1	120.7
Men's and boys'	—	—	98.6	112.6	114.5
Women's and girls;	—	—	90.8	124.0	123.8
Footwear	—	—	93.6	113.5	115.5
Transportation	43.1	74.1	99.3	121.7	123.1
Private	—	—	97.6	123.3	125.0
Public	—	—	108.3	112.9	113.0
Health and recreation	—	—	92.3	119.9	122.2
Medical care	43.0	68.3	87.4	126.0	129.9
Personal care	46.3	61.9	96.1	118.1	121.1
Reading and recreation	46.6	68.8	96.6	120.4	121.6
Other goods and services	—	—	89.9	113.5	114.8

¹Excludes food away from home and shelter before 1963.

Source: Hawaii State Department of Labor and Industrial Relations, records; U.S. Bureau of Labor Statistics, *The Consumer Price Index-Pacific Cities and U.S. Average* (monthly) and records. The indexes for 1943 and 1953, originally on a March 1943 base, have been shifted to a 1967 base by the Hawaii State Department of Planning and Economic Development.

Table 106.—COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1945 TO 1972

Category and date	Cost of budget (dollars)			Percent of U.S. urban average ¹		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
1945: March	—	—	—	—	125	—
1951	—	—	—	—	115	—
URBAN FAMILY OF FOUR PERSONS						
1966: Autumn	—	11,190	—	—	122	—
1967: Spring	7,246	10,902	16,076	122	120	123
1969: Spring	8,135	12,118	18,315	124	120	126
1970: Spring	8,597	12,776	19,311	124	120	125
1971: Autumn	8,990	13,108	19,700	125	119	124
1972: Autumn	9,118	13,617	20,579	123	119	124
RETIRED COUPLE						
1966: Autumn	—	4,434	—	—	115	—
1967: Spring	3,110	4,429	7,219	116	115	120
1969: Spring	3,401	4,884	7,849	116	115	118
1970: Spring	3,562	5,166	8,312	115	115	117
1971: Autumn	3,875	5,538	8,621	117	116	116

¹The 1945 comparison was with Los Angeles; 1951, with Washington, D.C.

Source: U.S. Bureau of Labor Statistics, *Relative Differences in the Cost of Selected Goods and Services in Honolulu and Los Angeles, March 1945* (May 10, 1946); "Measuring Comparable Living Costs in Cities of Diverse Characteristics," *Monthly Labor Review*, October 1956; *City Worker's Family Budget, Autumn 1966* (Bulletin No. 1570-1), pp. 12-13; *Retired Couple's Budget, Autumn 1966* (Bulletin No. 1570-4), pp. 6-7; *Three Standards of Living for an Urban Family of Four Persons, Spring 1967* (Bulletin No. 1570-5), pp. 24, 33, 35, and 37; *Three Budgets for a Retired Couple, 1967-68* (Bulletin No. 1570-6); *Three Budgets for an Urban Family of Four Persons, 1969-70* (Supplement to Bulletin 1570-5), pp. 10-15, 25, and 28-30; *Three Budgets for a Retired Couple . . . 1969-70* (Supplement to Bulletin No. 1570-6), pp. 10-15, 24, 26-29; *Autumn 1971 Urban Family Budgets and Geographical Comparative Indexes* (release, April 27, 1972); *Three Budgets for a Retired Couple, Autumn 1971* (release, May 16, 1972); *Autumn 1972 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, June 15, 1973).

Table 107.—ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1972

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget ¹	9,118	13,617	20,579	123	119	124
Total consumption	7,288	10,445	14,713	121	116	118
Food	2,490	3,139	4,036	121	117	120
At home	2,208	2,685	3,231	125	120	121
Away from home	282	454	805	98	104	114
Housing ²	2,198	3,481	5,404	141	124	128
Shelter ³	1,785	2,803	4,042	148	127	136
Renter costs ⁴	1,785	2,247	3,289	148	144	134
Homeowner costs ⁵	—	2,988	4,175	—	123	136
Housefurnishings & operations	413	678	1,215	118	114	107
Transportation ⁶	621	1,163	1,548	114	119	122
Automobile owners	878	1,163	1,548	122	113	122
Clothing	697	966	1,370	104	101	98
Personal care	220	290	411	113	111	111
Medical care ⁷	656	660	687	104	104	104
Other family consumption ⁸	406	746	1,257	107	106	108
Other items ⁹	402	627	1,080	110	109	112
Social security & disability payments	468	468	468	118	97	97
Personal income taxes	960	2,077	4,318	161	151	163

¹Among the 40 metropolitan areas for which separate data were reported, Honolulu ranked second at all three levels, behind Anchorage.

²Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

³The average costs of shelter were weighted by the following proportions: lower budget, all families living in rented dwellings; intermediate budget, 25 percent in rented dwellings; higher budget, 15 percent renters.

⁴Includes average contract rent, heating fuel, gas, electricity, water, specified equipment, and insurance on household contents.

⁵Includes interest and principal payments plus taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs.

⁶Based on 65 percent of the lower budget families and all of the intermediate and higher budget families owning automobiles.

⁷Based on 30 percent of all families paying full cost of medical insurance 26 percent paying half cost, and 44 percent covered by noncontributory insurance plans (paid by employer).

⁸Includes reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

⁹Includes gifts and contributions, life insurance, and occupational expenses.

Source: U.S. Bureau of Labor Statistics, *Autumn 1972 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, June 15, 1973).

SECTION 10

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by age, sex, occupation, and industry, and wage rates, payrolls, hours, safety, and unionization of workers.

The number of employed persons almost doubled between 1940 and 1970, reaching 338,000 in the latter year. Agricultural employment fell from 55,000 to 13,000 during this period, while nonagricultural workers (excluding armed forces) rose from 99,000 to 275,000. The unemployment rate averaged 5.1 percent in 1971, with county levels ranging from 4.9 to 6.2 percent. The labor force contains above-average proportions of younger persons and women: the 1970 Census reported that 49 percent of all females 16 years of age or more were either employed or seeking work. By occupation, one out of six civilian workers is classified as professional or technical. Activities with especially large numbers of employees include government (70,000 in 1970, almost half of them in federal jobs), services (82,000), retail trade (50,000), and manufacturing (31,000). Wage and salary levels are high: the average annual earnings of private wage and salary workers under the Hawaii Employment Security Law reached \$7,051 in 1971 (twice the 1957 average), and in some categories exceeded \$11,000. Average weekly hours ranged from 29.0 (for hotels) to 42.2 (for communications and utilities). Labor union membership was estimated at 82,000 in 1970.

Principal sources for these data are the decennial reports of the U.S. Bureau of the Census, various studies by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, annual surveys by the Hawaii Employers Council, and occasional sample surveys by public and private agencies. Statistics for the nation as a whole are published in Section 8 of the *Statistical Abstract of the United States: 1972*.

Table 108.—WORKING-AGE POPULATION AND EMPLOYMENT: 1872 TO 1970

Year	Working-age population ¹	Employment, including armed forces					
		Total	By sex		By military status and activity		
			Male	Female	Civilians		Armed forces
					Agric, forestry, fisheries	Other activities	
1872	41,097	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1878	41,719	24,795	(NA)	(NA)	(NA)	(NA)	(NA)
1884	58,055	39,541	(NA)	(NA)	(NA)	(NA)	(NA)
1890	66,472	41,073	38,930	2,143	(NA)	(NA)	(NA)
1896	78,819	55,294	51,705	3,589	(NA)	(NA)	(NA)
1900	121,044	90,172	84,047	6,125	57,125	32,802	245
1910	137,727	100,900	89,719	11,181	56,122	43,170	1,608
1920	169,164	111,613	97,439	14,174	56,087	51,160	4,366
1930	241,782	154,086	136,400	17,686	63,478	74,317	16,291
1940	301,686	180,796	145,659	35,137	54,629	99,167	27,000
1950	351,375	190,427	143,544	46,883	31,806	135,765	22,856
1960	426,495	256,637	183,459	73,178	15,982	193,388	47,267
1970	553,755	337,635	219,312	118,323	13,283	274,527	49,825

NA not available.

¹Population 15 and over before 1900, 14 and over for 1900-1970.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 73, 77, and 127; U.S. Bureau of the Census, *U.S. Census of Population: 1960*, Final Report PC (1)-13C, tables 53 and 62, and *U.S. Census of Population: 1970*, Final Report PC(1)-C13, tables 53 and 55.

Table 109.—LABOR FORCE ESTIMATES: ANNUAL AVERAGES, 1940 TO 1973

Year	Civilian labor force	Civilian employment	Workers in labor disputes	Unemployment	
				Number	Percent
1940	162,763	155,531	(NA)	7,232	4.4
1941	179,568	173,068	(NA)	6,500	3.6
1942	215,885	213,455	(NA)	2,430	1.1
1943	218,501	216,615	(NA)	1,886	0.9
1944	214,522	212,922	(NA)	1,600	0.7
1945	210,368	208,868	(NA)	1,500	0.7
1946	190,297	188,165	(NA)	2,132	1.1
1947	191,695	188,742	(NA)	2,953	1.5
1948	193,467	184,020	(NA)	9,447	4.9
1949	194,776	173,340	(NA)	21,436	11.0
1950	187,773	170,075	(NA)	17,698	9.4
1951	191,678	183,129	271	8,278	4.3
1952	194,067	185,639	6	8,422	4.3
1953	196,142	186,437	163	9,542	4.9
1954	197,376	185,514	103	11,759	6.0
1955	199,276	189,291	61	9,924	5.0
1956	204,082	195,075	—	9,007	4.4
1957	207,564	199,831	—	7,733	3.7
1958 ¹	211,540	201,370	3,090	7,080	3.4
1959	222,980	216,140	—	6,840	3.1
1960	235,140	228,050	—	7,090	3.0
1961	242,850	232,910	—	9,940	4.1
1962	246,180	234,420	160	11,600	4.7
1963	250,880	238,630	230	12,020	4.8
1964	257,630	247,560	20	10,050	3.9
1965	269,020	259,680	90	9,250	3.4
1966	281,880	272,730	30	9,120	3.2
1967	293,400	282,940	260	10,200	3.5
1968	306,780	297,030	870	8,880	2.9
1969	326,700	317,130	750	8,820	2.7
1970 ²	350,030	337,050	520	12,460	3.6
1971	363,390	344,670	110	18,610	5.1
1972	374,540	352,070	160	22,310	6.0
1973 ³	376,200	357,850	—	18,350	4.9

NA Not available.

¹Data for 1958 and later years are based on somewhat different definitions and procedures than those for 1940-1957, and hence are not fully comparable to the earlier figures. Estimates for 1958 based on the 1940-1957 definitions and procedures are as follows: civilian labor force, 210,399; civilian employment, 199,793; labor disputes, 3,090; unemployed, 7,606; percent unemployed, 3.6.

²Differences from decennial census data for April 1, 1970, reported in other tables of this section, reflect important differences in definitions and statistical procedures as well as variations resulting from the use of annual averages rather than an April 1 time reference. The decennial census count of "employment," for example, measures the number of persons holding jobs, while the monthly and annual estimates prepared by the Hawaii State Department of Labor and Industrial Relations measure the number of jobs held by these persons.

³Preliminary estimate for May 12, 1973.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates* (monthly and annual) and records.

Table 110.—LABOR FORCE ESTIMATES, BY ISLANDS: ANNUAL AVERAGES, 1962, 1971 AND 1972

Year and island	Civilian labor force	Civilian employment	Workers in labor disputes	Unemployment	
				Number	Percent
1962, State total	246,180	234,420	160	11,600	4.7
Oahu	195,260	185,980	160	9,120	4.7
Hawaii	22,240	21,330	—	910	4.1
Kauai	11,590	11,020	—	570	4.9
Maui ¹	17,090	16,090	—	1,000	5.8
1971, State total	363,390	344,670	110	18,610	5.1
Oahu	294,630	279,720	110	14,800	5.0
Hawaii	31,790	30,050	—	1,740	5.5
Kauai	14,080	13,400	—	680	4.9
Maui	19,980	18,780	—	1,200	6.0
Molokai and Lanai	2,900	2,720	—	180	6.1
1972, State total	374,540	352,070	160	22,310	6.0
Oahu	303,630	285,930	140	17,560	5.8
Hawaii	32,560	30,620	—	1,940	6.0
Kauai	14,470	13,530	20	920	6.3
Maui	21,100	19,520	—	1,580	7.5
Molokai and Lanai	2,780	2,470	—	310	11.1

¹Includes Lanai and Molokai.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates* (monthly and annual).

Table 111.—LABOR FORCE CHARACTERISTICS: 1940 TO 1970

Subject	1960 definitions			1970 definitions	
	1940	1950	1960	1960	1970
EMPLOYMENT STATUS					
Population, 14 years old and over	301,686	351,375	426,495	426,495	553,755
Labor force	188,232	207,952	265,707	265,707	346,859
Armed Forces	27,000	22,856	47,267	47,267	49,825
Civilian labor force	161,232	185,096	218,440	218,440	297,034
Employed	153,796	167,571	209,370	209,370	287,810
Unemployed ¹	7,436	17,525	9,070	9,070	9,224
Not in labor force	113,454	143,423	160,788	160,788	206,896
MAJOR OCCUPATION GROUP					
Employed, 14 years old and over	153,796	167,571	209,370	209,370	287,810
Professional, technical, and kindred workers	11,289	16,408	25,299	24,660	42,579
Managers and administrators, exc. farm ²	10,762	13,967	17,795	18,467	23,995
Sales workers	8,054	10,750	13,554	13,612	18,324
Clerical and kindred workers	10,171	20,862	30,412	29,722	49,234
Craftsmen, foremen, and kindred workers	16,519	25,995	33,276	33,821	40,694
Operatives, except transport	17,785	25,129	29,455	19,338	19,646
Transport equipment operatives				8,431	9,275
Laborers, except farm	14,601	12,560	12,997	13,603	12,930
Farmers and farm managers	3,617	4,397	3,433	3,436	1,411
Farm laborers and foremen	42,443	16,853	10,143	10,284	7,126
Service workers, except private household	10,212	16,298	20,685	21,694	37,714
Private household workers	7,770	3,284	4,582	4,563	1,961
Occupation not reported	573	1,068	7,739	7,739	22,921
INDUSTRY					
Agriculture, forestry, and fisheries	54,629	31,806	15,982	15,981	12,104
Mining	256	167	133	133	306
Construction	10,817	11,653	19,882	19,882	24,743
Manufacturing: Durable goods	2,509	5,713	7,777	7,781	9,186
Nondurable goods	12,945	15,761	25,845	25,842	20,410
Trans., communications, other public utilities	8,515	13,450	16,734	16,734	22,503
Wholesale and retail trade	21,816	31,455	39,142	39,142	56,365
Finance, insurance, and real estate	2,112	3,950	7,807	7,814	13,486
Business and repair services	3,016	3,573	4,635	4,625	7,934
Personal services	15,067	10,812	14,285	14,289	18,641
Entertainment and recreation services	1,487	2,442	2,394	2,394	3,231
Professional and related services	11,647	17,321	26,356	27,002	45,622
Public administration	7,569	18,436	22,464	21,817	30,783
Industry not reported	1,411	1,032	5,934	5,934	22,496
CLASS OF WORKER³					
Private wage and salary workers	113,551	111,036	144,602	(NA)	200,912
Government workers	18,553	34,400	46,078	(NA)	70,547
Self-employed workers	15,967	19,192	17,009	(NA)	12,832
Unpaid family workers	5,725	2,943	1,681	(NA)	1,265

NA Not available.

¹The 1940 figure includes 2,326 persons on public emergency work.

²In 1960, designated "managers, officials, and proprietors, except farm."

³In 1970, the tabulation was limited to the 285,556 workers 16 years old and over.

Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13C, tables 53, 56, 59 and 62; *U.S. Census of Population: 1970*,

Table 112.—LABOR FORCE CHARACTERISTICS: 1970

Subject	State total	Sex		Island	
		Male	Female	Oahu	Other
EMPLOYMENT STATUS					
Persons 16 years old and over	522,018	272,726	249,292	427,601	94,417
Labor force	344,269	222,221	122,048	286,706	57,563
Armed Forces	49,785	48,860	925	49,368	417
Civilian labor force	294,484	173,361	121,123	237,338	57,146
Employed	285,556	168,940	116,616	230,252	55,304
Unemployed	8,928	4,421	4,507	7,086	1,842
Not in labor force	177,749	50,505	127,244	140,895	36,854
OCCUPATION					
Employed, 16 years old and over	285,556	168,940	116,616	230,252	55,304
Professional, technical, and kindred	45,544	25,566	19,978	39,366	6,178
Managers and administrators, exc. farm	25,457	19,718	5,739	21,533	3,924
Sales workers	19,393	8,723	10,670	16,474	2,919
Clerical and kindred workers	52,157	13,207	38,950	44,880	7,277
Craftsmen, foremen, and kindred	43,920	41,907	2,013	35,349	8,571
Operations, except transport	21,346	12,384	8,962	16,905	4,441
Transport equipment operatives	10,079	9,654	425	7,412	2,667
Laborers, except farm	14,314	13,277	1,037	10,843	3,471
Farmers and farm managers	1,694	1,228	466	627	1,067
Farm laborers and farm foremen	7,574	6,136	1,438	2,352	5,222
Service workers, exc. private household	41,981	17,067	24,914	33,037	8,944
Private household workers	2,097	73	2,024	1,474	623
INDUSTRY					
Agriculture, forestry, fisheries	13,166	10,830	2,336	4,642	8,524
Mining	328	297	31	279	49
Construction	26,638	24,946	1,692	21,811	4,827
Manufacturing	31,159	21,973	9,186	23,613	7,546
Food and kindred products	13,179	9,734	1,692	7,338	5,841
Other manufacturing	17,980	12,239	5,741	16,275	1,705
Trans., communications, utilities	24,331	18,765	5,566	20,340	3,991
Wholesale trade	11,303	7,813	3,490	9,647	1,656
Retail trade	49,730	21,443	28,287	41,554	8,176
Finance, insurance, real estate	14,340	6,793	7,547	12,849	1,491
Business and repair services	8,547	5,837	2,710	7,397	1,150
Personal services	20,591	7,390	13,201	14,425	6,166
Entertainment and recreation services	3,754	2,104	1,650	3,165	589
Professional and related services	49,175	17,382	31,793	41,606	7,569
Public administration	32,494	23,367	9,127	28,924	3,570
CLASS OF WORKER					
Private wage and salary workers	200,912	118,527	82,385	158,958	41,954
Federal government workers	31,391	22,044	9,347	30,005	1,386
State government workers	28,699	11,596	17,103	23,369	5,330
Local government workers	10,457	7,746	2,711	7,452	3,005
Self-employed workers	12,832	8,798	4,034	9,577	3,255
Unpaid family workers	1,265	229	1,036	891	374

Source: U.S. Census of Population; 1970, Final Report PC(1)-C13, tables 53-56 and 75-78.

Table 113.—LABOR FORCE CHARACTERISTICS, BY COUNTY: 1970

Counties	Nonworker-worker ratio	Percent in labor force					Employed persons				Persons who worked in 1969— Percent worked 50 to 52 weeks
		Female, 16 years and over	Married women, husband present		Male		Civilian labor force— Percent unemployed	Percent in manufacturing industries	Percent in white-collar occupations	Percent government workers	
			Total	With own children under 6 years	18 to 24 years	65 years and over					
The State	1.22	49.0	48.1	37.8	83.9	22.0	3.0	10.9	49.9	24.7	67.0
Hawaii	1.42	45.5	48.8	43.2	72.9	20.9	2.7	15.0	38.2	18.6	65.2
Honolulu	1.18	49.4	47.8	36.6	85.0	23.9	3.0	10.3	53.1	26.4	67.7
Kauai	1.34	49.1	49.6	43.8	76.7	18.7	3.7	11.0	35.5	16.3	66.6
Maui	1.42	47.5	49.8	44.8	73.4	13.4	3.6	13.5	35.5	17.1	59.8

Source: U.S. Census of Population: 1970, Final Report PC(1)-C13, table 44.

Table 114.—EMPLOYMENT BY INDUSTRY: ANNUAL AVERAGES, 1962 AND 1972

Industry	1962: State total	1972, by island					
		State total	Oahu	Hawaii	Maui	Kauai	Lanai & Molokai
Total employment	234,420	352,070	285,930	30,620	19,520	13,530	2,470
Contract construction	15,110	23,120	19,700	1,820	1,170	410	30
Manufacturing	25,020	24,840	17,990	3,210	2,140	1,480	20
Durable goods	3,370	4,760	4,400	80	240	30	10
Lumber & wood prod.	1,210	1,520	1,440	40	30	10	—
Stone, glass & clay	950	1,630	1,470	30	130	—	10
Other durables	1,210	1,610	1,490	10	80	20	—
Non-durable goods	21,650	20,080	13,590	3,130	1,900	1,450	10
Food processing	15,990	12,390	6,740	2,620	1,720	1,310	10
Sugar	(NA)	4,750	870	1,910	890	1,080	—
Pineapple	(NA)	4,260	3,520	—	640	100	—
Other	(NA)	3,380	2,350	710	190	130	10
Textile & apparel	2,220	3,530	3,330	120	30	60	—
Printing & publishing	2,380	2,700	2,360	150	120	50	—
Other non-durables	1,060	1,460	1,160	240	30	30	—
Transport., commun., utilities	15,120	24,320	20,720	1,460	1,050	980	110
Trade	45,320	73,470	62,260	5,530	3,450	2,090	140
Wholesale	12,720	15,770	13,790	1,360	390	220	10
Retail	32,600	57,700	48,470	4,170	3,060	1,870	130
Finance, insur., real estate	10,840	19,730	17,950	830	600	290	60
Services and miscell.	32,700	64,700	53,860	4,510	3,620	2,640	70
Hotels	4,630	17,830	12,190	2,390	1,880	1,330	50
Other services & miscell.	28,070	46,870	41,670	2,120	1,740	1,310	20
Government	51,170	79,420	69,330	4,710	2,670	2,280	430
Federal	27,770	32,700	31,800	370	180	330	30
Air Force	2,810	3,380	3,300	—	—	90	—
Army	5,000	5,990	5,930	40	10	—	—
Navy	10,890	11,820	11,790	—	—	30	—
Other	9,070	11,510	10,780	330	170	210	30
State	15,070	35,290	28,760	3,690	1,810	1,300	330
Local	8,330	11,430	8,770	1,250	680	650	70
Agriculture	12,790	11,020	2,710	2,940	2,150	1,710	1,460
Sugar	7,550	5,390	830	1,720	1,340	1,500	—
Pineapple	3,800	2,940	1,040	—	440	40	1,420
Other	1,440	2,690	840	1,270	370	170	40
Non-agr. self-employed, unpaid family workers, & domestics	21,380	26,870	20,020	3,300	2,110	1,340	90
Agric. self-employed & unpaid family workers	4,970	4,580	1,390	2,260	560	310	60

NA Not available.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates* (monthly and annual) and records.

Table 115.—NON-GOVERNMENTAL EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW: 1939 TO 1971

Year	Total covered employment ¹			Non-agricultural employment		
	Total covered employment	Total wages (\$1,000)	Average annual wages (\$)	Covered employment	Total wages (\$1,000)	Average annual wages (\$)
1939	73,309	71,085	970	73,236	71,046	970
1940	60,856	68,629	1,128	60,768	68,578	1,129
1941	79,276	112,502	1,419	79,199	112,445	1,420
1942	98,076	188,920	1,926	98,037	188,882	1,927
1943	78,981	167,835	2,125	78,919	167,750	2,126
1944	75,588	161,320	2,134	75,526	161,223	2,135
1945	77,149	173,112	2,244	77,092	173,026	2,244
1946	82,278	195,347	2,374	82,168	195,119	2,375
1947	93,599	247,277	2,642	93,324	246,551	2,642
1948	93,953	252,135	2,684	93,613	251,168	2,683
1949	90,547	235,950	2,606	90,208	234,973	2,605
1950	90,698	244,152	2,692	90,314	243,092	2,692
1951	96,022	272,254	2,835	95,610	270,935	2,834
1952	98,478	289,054	2,935	98,061	288,008	2,937
1953	101,013	301,491	2,985	100,555	300,070	2,984
1954	99,292	302,431	3,046	98,847	300,951	3,045
1955	102,787	320,476	3,118	102,324	319,316	3,121
1956	107,083	342,875	3,202	106,576	341,540	3,205
1957	111,205	378,111	3,400	110,766	376,858	3,402
1958	114,225	410,926	3,598	113,645	409,061	3,599
1959	135,163	517,208	3,827	125,002	468,105	3,745
1960	149,520	604,184	4,041	135,061	552,217	4,089
1961	149,052	627,414	4,209	139,758	593,547	4,247
1962	144,506	628,177	4,347	131,453	575,698	4,379
1963	146,364	657,350	4,491	133,473	601,996	4,510
1964	152,034	721,424	4,745	139,153	663,852	4,771
1965	160,715	796,161	4,954	148,057	736,969	4,978
1966	169,206	881,783	5,211	157,557	821,269	5,213
1967	175,202	948,425	5,413	163,041	885,410	5,431
1968	185,551	1,088,657	5,867	174,144	1,026,294	5,893
1969	205,053	1,311,655	6,397	193,817	1,246,449	6,431
1970	221,498	1,519,037	6,858	210,471	1,450,086	6,890
1971	225,633	1,591,049	7,051	215,511	1,524,227	7,073

¹Excludes agricultural workers insured under the self-financed program.
Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 116.—EMPLOYMENT AND PAYROLLS COVERED BY HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY AND COUNTY: 1971

County and industry	Number of employers, December	Average employment	Total wages (dollars)	Average annual wage (dollars)
All counties (excluding government)	13,898	232,437	1,637,377,191	7,044
City and County of Honolulu	11,298	189,005	1,360,866,999	7,200
Hawaii County	1,359	18,692	123,877,103	6,627
Kauai County	569	9,582	57,779,850	6,030
Maui County	916	15,158	94,853,239	6,258
All industries (including government)	13,904	310,658	2,384,784,600	7,677
Agriculture, forestry, fisheries ¹	225	10,871	70,361,522	6,472
Sugar	23	5,725	38,527,708	6,730
Pineapple	8	3,336	20,541,749	6,158
Other	194	1,810	11,292,065	6,239
Mining and contract construction	1,304	23,410	257,938,677	11,018
Manufacturing	654	26,264	192,770,810	7,340
Pineapple canning	31	5,726	33,748,224	5,894
Sugar mill	24	4,928	41,113,198	8,343
Other food processing	133	3,676	25,895,579	7,044
Other manufacturing	466	11,934	92,013,809	7,710
Transportation	468	14,261	128,904,426	9,039
Communications	50	7,239	73,396,658	10,139
Utilities	23	2,486	28,631,342	11,517
Wholesale trade	1,232	16,001	134,233,958	8,389
Retail trade	3,355	55,420	264,391,137	4,771
Finances, insurance, real estate	1,701	17,923	143,016,678	7,980
Services	4,862	58,479	343,349,675	5,871
Nonclassifiable establishments	24	83	382,308	4,606
Government	6	78,221	747,407,409	9,555
Federal	1	32,882	350,467,199	10,658
State	1	34,961	302,285,350	8,646
County	4	10,378	94,654,860	9,121

¹Includes workers insured under the self-financed program.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii, 1971* (December 1972).

Table 117.—WAGE AND SALARY RATES FOR SPECIFIED OCCUPATIONS: 1841 TO 1972

Occupation and year	Annual salary (dollars)	Occupation and year	Monthly salary (dollars)	Occupation and year	Daily wage (dollars)
Chief executive: ¹		Policeman: ²		Sugar workers: ³	
1844	6,000	1843	3.50	1841-44	0.125
1860	16,000	1847	6.00	1854	0.11-0.25
1872	22,500	1861	20.00	1863	0.31-0.38
1888 ⁴	57,588	1873-77	20-22	1888-90	0.60-0.86
1898	12,000	1888	30	1902	0.64
1900	5,000	1903	60	1910	0.70
1910	7,000	1904	75	1915	0.74
1921	10,000	1932	135	1929	1.82
1949	15,000	1940	158	1935	1.70
1956	19,000	1950	245	1941	2.48
1959	25,000	1960	444	1946	5.28
1962	27,500	1966	504	1947	7.63
1965	33,500	1969	555	1957	11.20
1969	38,182	1972	612	1967	21.35
1970	42,000			1972	29.09

¹King to 1893; President, 1893-1899; Governor, 1900 to present. For selected years before 1900; thereafter for each year in which a change was authorized.

²Beginning salary for Honolulu policemen. For selected years.

³Data for 1902-1915 refer to field workers only. Data for 1935 and succeeding years are averages for non-supervisory employees in the industry. Data refer to cash wages only and do not include value of "employee benefits" (\$10.00 a day in 1971) or various workers' perquisites (housing, hospitalization, and sometimes food) provided prior to December 1946.

⁴Includes \$20,000 for privy purse and \$37,588 revenue from rental of Crown lands.

Source: Robert C. Schmitt, "Statistics on Income in Hawaii, 1825-1966," *Hawaii Historical Review, Selected Readings* (Hawaiian Historical Society, 1969), pp. 274-292; Hawaiian Sugar Planters' Association. *HSPA Sugar Manual 1972*, p. 6 and records; *Session Laws of Hawaii 1969*, Act 127; Honolulu Police Department, records, Sugar workers' daily wages for 1863-1929 computed from weekly or monthly data, assuming six working days per week or 26 per month.

Table 118.—MEDIAN EARNINGS OF PERSONS IN THE EXPERIENCED LABOR FORCE DURING THE PREVIOUS YEAR: 1940 TO 1970

Sex	1940 ¹	1950 ¹	1960 ²	1970 ³				
				State total	City and Co. of Hon.	Hawaii County	Kauai County	Maui County
Male	659	2,504	4,353	8,055	8,518	6,672	6,474	6,721
Female	520	1,772	2,407	4,208	4,307	3,893	3,765	3,689

¹Median wage or salary income received by persons 14 years old and over reporting wages or salary of \$100 or more. Includes armed forces.

²Median earnings of all persons 14 years old and over with earnings. Excludes armed forces.

³Median earnings of all persons 16 years old and over with earnings. Excludes armed forces.

Source: *U.S. Census of Population: 1950*, Bulletin P-C52, table 69; *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 68; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, tables 57 and 122.

Table 119.—AVERAGE ANNUAL WAGES PER WORKER IN MANUFACTURING: 1899 TO 1971

Year	All employees (\$)¹	Production workers (\$)²	Year	All employees (\$)¹	Production workers (\$)²
1899	461	403	1958	3,424	2,906
1909	369	357	1963	4,279	3,585
1919	738	666	1967	5,496	4,574
1939	785	674	1970	6,802	5,680
1954	3,164	2,602	1971	7,238	6,040

¹Total payroll divided by total employment.

²Total wage payments divided by average number of production workers.

Source: Robert C. Schmitt, "Statistics on Income in Hawaii, 1825-1966," *Hawaii Historical Review, Selected Readings* (Hawaiian Historical Society, 1969), pp. 274-292; U.S. Bureau of the Census, *Annual Survey of Manufactures: 1971*, M71(AS)-6.9, p. 5.

Table 120.—HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1962 TO 1972

Industry	Ave. weekly earnings (dollars)			Average weekly hours			Ave. hourly earnings (dollars)		
	1962	1971	1972	1962	1971	1972	1962	1971	1972
Contract construction	122.25	223.50	243.54	37.5	37.5	37.7	3.26	5.96	6.46
Manufacturing	72.57	133.73	140.26	37.6	39.8	39.4	1.93	3.36	3.56
Food and kindred products	69.93	123.93	127.83	37.8	40.5	39.7	1.85	3.06	3.22
Communication and utilities	114.26	181.04	192.29	41.7	42.2	41.0	2.74	4.29	4.69
Trade¹	67.58	100.87	105.91	35.2	33.4	33.2	1.92	3.02	3.19
Wholesale trade	88.65	133.73	143.26	39.4	38.1	38.0	2.25	3.51	3.77
Retail trade¹	56.93	87.57	91.08	33.1	31.5	31.3	1.72	2.78	2.91
Finance	84.16	118.08	118.88	—	—	—	—	—	—
Hotels	58.42	77.43	80.35	32.1	29.0	27.9	1.82	2.67	2.88
Laundries	46.60	76.47	77.85	38.2	35.9	34.6	1.22	2.13	2.25

¹Excludes eating and drinking establishments.

Source: Hawaii State Department of Labor and Industrial Relations, records.

**Table 121.—AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS
IN PRIVATE INDUSTRY: 1951 TO 1972**

Survey date	Monthly rates (dollars)				Hourly rates (dollars)		
	Junior typist	Clerk stenographer	Secretary	Civil engineer (entry level)	Carpenter	Electrician	Auto mechanic
1951	193	221	294	—	—	—	—
1952	189	242	295	—	—	—	—
1953	192	247	317	405	1.72	1.86	1.72
1954	191	270	326	434	1.77	1.84	1.72
1955	191	234	328	466	1.75	1.78	1.74
1956	205	279	340	434	1.81	1.87	1.80
1957	208	278	331	540	1.83	1.91	1.87
1958	226	291	343	475	1.96	1.99	2.00
1959	232	301	355	556	2.03	2.10	2.11
1960	234	313	368	488	2.23	2.26	2.27
1961	244	318	373	481	2.32	2.41	2.37
1962	257	321	380	524	2.40	2.51	2.42
1963	255	335	391	560	2.43	2.54	2.49
1964	266	347	408	582	2.63	2.73	2.64
1965	319	358	429	592	2.76	2.90	2.77
1966	294	377	449	601	2.91	3.07	2.98
1967	304	386	470	708	3.10	3.27	3.18
1968	327	423	487	668	3.20	3.43	3.32
1969	357	450	522	768	3.44	3.67	3.53
1970	372	474	547	866	3.57	3.98	3.79
1971	396	500	578	881	3.92	4.17	4.18
1972	430	527	606	885	4.29	4.62	4.57

Source: Hawaii Employers Council, *Compensation for Office Workers in Hawaii* (1951 and 1952) and *Pay Rates in Hawaii* (1953-1972).

**Table 122.—LABOR TURNOVER RATES FOR MANUFACTURING
(EXCEPT PINEAPPLE CANNING): 1961 TO 1972**

Year	Annual accession rates		Annual separation rates		
	Total	New hires	Total	Quits	Layoffs
1961	2.5	2.0	2.7	1.4	0.8
1962	2.9	1.6	3.3	1.1	1.4
1963	3.0	1.8	3.2	1.1	1.1
1964	3.5	2.2	3.3	1.3	0.8
1965	3.1	2.2	2.9	1.3	0.5
1966	2.8	2.0	2.9	1.5	0.4
1967	2.7	1.9	2.7	1.2	0.5
1968	3.4	2.4	3.0	1.5	0.4
1969	3.5	2.9	3.1	1.9	0.2
1970	2.8	2.1	3.2	1.6	0.7
1971	2.2	1.5	2.3	1.1	0.5
1972	2.2	1.8	2.4	1.2	0.3

Source: Hawaii State Department of Labor and Industrial Relations, records.

**Table 123.—INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS:
1919 TO 1972**

Year	Accidents		Deaths		Insurance payments (\$1,000)
	Number	Rate ¹	Number	Rate ²	
1919-1921 ³	3,039	20.20	22	8.5	40
1929-1931 ³	6,251	29.38	17	4.7	34
1939-1941 ³	10,720	42.03	22	4.8	98
1949-1951 ³	21,466	80.06	36	7.0	698
1959-1961 ³	27,592	79.40	19	3.0	4,279
1965	29,436	72.75	21	3.0	5,977
1966	30,473	71.52	30	4.2	5,665
1967	29,491	66.87	27	3.7	11,396
1968	32,056	68.91	38	5.2	10,279
1969	35,790	70.86	32	4.3	7,418
1970	37,405	69.12	40	5.2	12,528
1971	34,561	61.66	21	2.7	16,665
1972	34,901	(NA)	45	(NA)	18,773

NA Not available.

¹Accidental injuries for 1,000,000 estimated employee-hours.

²Accidental deaths per 100,000 civilian population.

³Annual averages.

Source: Robert K. Hasegawa, Director of Labor and Industrial Relations, testimony before Senate Ways and Means Committee, January 25, 1972; Hawaii State Department of Labor and Industrial Relations, *Area Manpower Review, Hawaii-Honolulu, 1972-1973* (October 1972), p. 46, and records.

Table 124.—LABOR UNION MEMBERSHIP: 1964 TO 1970

Year	Members	Percent of nonagricultural employment
1964	49,000	23.6
1966	62,000	26.6
1968	70,000	27.4
1970	82,000	28.1

Source: U.S. Bureau of Labor Statistics, as cited in *Statistical Abstract of the United States* (annual).

**Table 125.—MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS:
1968 AND 1970**

Year	Total unions and associations	Labor unions				Professional and State employee associations
		Total	Affiliated with AFL-CIO	Unaffiliated		
				National	Local unions	
1968	77,000	70,000	36,000	27,000	7,000	7,000
1970	89,000	82,000	45,000	30,000	7,000	8,000

Source: U.S. Department of Labor, Bureau of Labor Statistics, *Directory of National and International Labor Unions in the United States, 1969* (Bulletin 1665) and *Directory of National Unions and Employee Associations* (Bulletin 1750).

Table 126.—WORK STOPPAGES: 1960 TO 1971

Year	Number of stoppages begun in year	Workers involved ¹	Man-days idle during year	Percent of estimated working time
1960	32	5,000	16,000	(NA)
1961	33	22,000	47,000	(NA)
1962	34	4,000	71,000	0.19
1963	27	23,000	176,000	0.47
1964	26	3,000	8,000	0.02
1965	24	8,000	45,000	0.11
1966	28	5,000	44,000	0.10
1967	40	11,000	87,000	0.20
1968	14	8,000	252,000	0.32
1969	26	18,000	205,000	0.03
1970	22	6,800	152,700	0.26
1971	21	3,700	32,200	0.05

NA Not available.

¹Workers counted more than once if involved in more than one stoppage during year.

Source: U.S. Bureau of Labor Statistics data summarized in *Statistical Abstract of the United States* (annual); U.S. Bureau of Labor Statistics, *Analysis of Work Stoppages, 1970* (Bulletin 1727, 1972) and *Work Stoppages in 1971 (Selected Final Tabulations)* (June 1972).

SECTION 11

RECREATION AND TOURISM

Statistics on travel, recreation, cultural activities and parks appear in this section. Information on transportation is given in Section 17; on hotels, in Section 22.

Tourism has become a major Island activity in recent decades. The number of visitors staying overnight or longer in Hawaii has grown from 32,000 in 1941 to 243,000 in 1959 and 2,244,000 in 1972. During the same time, visitor expenditures rose from \$16.4 million to \$755 million. Average length of stay, excluding eastbound and layover visitors, was 10.9 days in 1972, and expenditure per visitor day averaged \$37.23. The State has three national parks, 46 State parks, 479 County parks, 44 golf courses, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than 250,000 annual visitors include fifteen National or State parks, the U.S.S. Arizona Memorial, Honolulu Zoo, Sea Life Park, Waikiki Aquarium, professional baseball, Mormon Temple Grounds, and Polynesian Cultural Center. Over 171,000 Hawaii residents traveled to the Mainland in 1972 and half of them were absent more than 14 days.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau, the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, and other organizations. An extensive summary of these statistics, *Hawaii Tourism Data Book: 1969*, was published by the Department of Planning and Economic Development. National statistics are given in Section 7 of *Statistical Abstract of the United States: 1972*.

Table 127.—MODE OF TRAVEL AND VISITOR STATUS OF PASSENGERS ARRIVING IN HAWAII: 1951 TO 1972

Year	All arriving passengers	Mode of travel		Direction of travel		Visitor status of westbound arriving passengers ¹				
		Air	Surface	Westbound	Eastbound or northbound	Visitors destined to Hawaii	Visitors destined beyond		Returning residents	Intended residents
							Overnight or longer	Transits		
1951	130,437	90,074	40,363	93,002	37,345	43,426	3,994	12,917	16,600	5,853
1952	141,192	104,539	36,653	106,130	35,062	49,432	5,280	15,952	16,708	6,684
1953	163,305	120,739	42,566	126,478	36,827	66,296	5,956	16,992	17,740	6,472
1954	186,008	137,991	48,017	141,503	44,505	74,452	7,224	19,584	19,972	5,852
1955	232,060	176,653	55,407	175,369	56,691	89,772	8,316	31,312	21,996	8,332
1956	272,619	215,033	57,586	203,644	68,975	102,352	12,524	36,012	24,100	11,268
1957	353,590	268,207	85,383	261,282	92,308	128,832	13,468	46,924	28,768	16,676
1958	363,848	279,768	84,080	263,193	100,655	123,576	19,465	38,425	35,888	16,412
1959	452,417	370,072	82,345	336,090	116,327	177,550	30,185	38,714	36,100	18,825
1960	532,547	449,052	83,495	399,804	132,743	213,670	36,475	43,439	38,630	15,030
1961	615,209	532,182	83,027	448,546	166,663	202,850	45,825	47,155	43,590	16,715
1962	690,378	606,972	83,406	497,035	193,343	219,005	60,625	42,690	53,800	21,070
1963	790,378	708,257	82,121	574,984	215,394	258,765	73,915	38,860	54,140	20,200
1964	909,436	832,075	77,361	681,391	228,045	359,554	100,736	110,034	83,313	27,446
1965	1,064,657	988,892	75,765	814,624	250,033	460,603	106,615	118,020	99,792	28,973
1966	1,279,151	1,200,697	78,454	974,419	304,732	558,388	128,498	137,136	117,605	32,031
1967	1,562,414	1,482,884	79,530	1,215,974	346,440	754,910	138,193	147,136	130,995	44,117
1968	1,683,326	1,608,706	74,620	1,348,112	335,214	869,116	146,728	148,802	140,592	42,236
1969	1,941,638	1,876,821	64,817	1,566,013	375,625	1,008,802	172,227	190,710	152,404	41,162
1970	2,219,559	2,174,303	45,256	1,734,560	484,999	1,170,897	206,849	201,589	179,461	41,828
1971	2,500,462	2,455,147	45,315	1,903,130	597,332	1,207,898	222,457	268,001	162,967	41,562
1972	3,053,557	3,013,488	40,069	2,308,712	744,845	1,540,268	242,469	309,595	171,772	44,388

¹Data for 1951-1963 are limited to passengers reporting their visitor status. Data for 1964 and later years include estimates for unsurveyed passengers, and hence are not directly comparable to the data for 1951-1963. (Unrevised 1964 data showed 316,550 visitors destined to Hawaii, 125,130 visitors destined beyond Hawaii, 73,060 returning residents, and 24,040 intended residents.) A small number of surveyed but unclassified passengers are omitted for all years. Total westbound passenger arrivals, including unsurveyed and unclassified, are shown elsewhere in this table, under "direction of travel".

Source: Hawaii Visitors Bureau, *Annual Research Reports, 1952-1971, Revised Visitor Statistics, 1964-1970* (July 1971), as corrected, and records.

Table 128.—VISITOR ARRIVALS, AVERAGE VISITOR CENSUS, AND VISITOR EXPENDITURES: 1886 TO 1972

Year	Visitors staying overnight or longer ¹			Average number present ²	Visitor expenditures ³	Year	Visitors staying overnight or longer ¹			Average number present ²	Visitor expenditures ³
	Total	Westbound	Other ⁴				Total	Westbound	Other ⁴		
1886	2,040	(NA)	(NA)	(NA)	0.3	1952	60,539	54,618	5,921	3,796	32.8
						1953	80,346	72,152	8,194	4,746	42.6
1922	9,676	8,493	1,183	(NA)	4.4	1954	91,289	81,388	9,901	5,369	48.9
1923	12,021	10,699	1,322	(NA)	5.5	1955	109,798	98,105	11,693	6,042	55.0
1924	12,468	11,311	1,157	(NA)	5.7	1956	133,815	114,813	19,002	6,947	65.0
1925	15,193	13,689	1,504	(NA)	7.2	1957	168,829	141,518	27,311	8,205	77.6
1926	16,762	15,177	1,585	(NA)	8.0	1958	171,588	139,984	31,604	8,397	82.7
1927	17,451	15,693	1,758	(NA)	8.2	1959	243,216	207,645	35,571	10,390	109
1928	19,980	18,275	1,705	(NA)	9.2	1960	296,517	250,795	45,722	11,797	131
1929	22,190	20,041	2,149	(NA)	10.3	1961	319,807	248,540	71,267	11,960	137
1930	18,651	16,995	1,656	(NA)	8.7	1962	362,145	279,625	82,520	13,125	154
1931	15,780	14,332	1,448	1,200	6.9	1963	429,140	332,680	96,460	15,316	186
1932	10,370	9,464	906	(NA)	4.1	1964 ⁶	508,870	405,235	103,635	16,739	225
1933	10,111	9,345	766	(NA)	3.8						
1934	16,161	14,841	1,320	(NA)	6.3	1964 ⁷	563,925	460,290	103,635	16,017	205
1935	19,933	18,030	1,903	(NA)	7.9	1965	686,928	567,218	119,710	17,318	225
1936	22,199	20,039	2,160	(NA)	8.9	1966	835,456	686,886	148,570	21,030	280
1937	21,987	19,489	2,498	(NA)	9.5	1967	1,124,818	893,103	231,715	27,690	380
1938	23,043	20,853	2,190	(NA)	10.2	1968	1,314,571	1,015,844	298,727	32,496	440
1939	24,390	21,737	2,653	(NA)	11.0	1969	1,527,012	1,181,029	345,983	37,438	525
1940	25,373	23,369	2,004	1,648	12.0	1970	1,798,591	1,377,756	420,835	38,132	570
1941	31,846	30,425	1,421	2,069	16.4	1971	1,818,944	1,430,325	388,619	40,829	645
1942-45 ⁵	—	—	—	—	—	1972	2,244,377	1,782,737	461,640	50,344	755
1946	15,000	(NA)	(NA)	975	6.3						
1947	25,000	(NA)	(NA)	1,625	12.1						
1948	36,397	(NA)	(NA)	2,366	18.9						
1949	34,386	(NA)	(NA)	2,235	17.7						
1950	46,593	(NA)	(NA)	3,027	24.2						
1951	51,565	47,634	3,931	3,350	29.0						

NA Not available.

¹Data for 1951-1964 are not adjusted for survey nonresponse. Data for 1964 and later years are adjusted for survey nonresponse, and hence are not precisely comparable to the earlier estimates.

²Based on survey data for westbound visitors and rough estimates for eastbound and northbound visitors.

³In millions of dollars. Excludes expenditures for trans-Pacific transportation.

⁴Eastbound and northbound arrivals.

⁵The visitor industry was suspended during World War II.

⁶Unadjusted for survey nonresponse, and comparable to earlier years.

⁷Adjusted for survey nonresponse, and comparable to later years.

Source: Anson Chong, *Economic Development of Hawaii and the Growth of Tourism Before 1945* (May 1965), p. 112; Hawaii Visitors Bureau, *Annual Research Report for 1952-1972, Revised Visitor Statistics, 1964-1970* (July 1971), and records; Hawaii State Department of Planning and Economic Development, estimates of average visitor census before 1951 based on HVB data.

Table 129.—VISITOR ARRIVALS AND VISITOR DAYS, BY MILITARY STATUS AND DIRECTION OF TRAVEL: 1965 TO 1972

Subject and year	All groups	Rest and Recuperation		Non-Rest and Recuperation	
		Personnel ¹	Dependents ²	Westbound	Eastbound and northbound
Visitor arrivals:³					
1965	686,928	—	—	567,218	119,710
1966	835,456	6,970	4,531	682,355	141,600
1967	1,124,818	70,150	50,174	842,929	161,565
1968	1,314,571	101,129	96,740	919,104	197,598
1969	1,527,012	116,327	129,776	1,051,253	229,656
1970	1,798,591	110,815	121,866	1,255,890	310,020
1971	1,818,944	46,029	44,162	1,386,163	342,590
1972	2,244,377	9,775	7,159	1,775,578	451,865
Visitor days:⁴					
1965	6,321,185	—	—	5,842,345	478,840
1966	7,676,176	34,850	27,186	7,047,740	566,400
1967	10,106,661	350,750	301,044	8,808,607	646,260
1968	11,860,815	505,645	580,440	9,984,338	790,392
1969	13,664,858	581,635	778,656	11,385,943	918,624
1970	13,918,408	554,075	731,196	11,393,057	1,240,080
1971	14,902,528	230,145	264,972	13,037,051	1,370,360
1972 ⁵	18,463,214	—	—	—	—

¹All eastbound. Flights began in August 1966.

²All westbound.

³Overnight and longer only.

⁴Includes one-day visitors.

⁵Not available by military status. Total westbound visitor days numbered 16,579,454; total eastbound and northbound, 1,846,560.

Source: Hawaii Visitors Bureau, *Revised Visitor Statistics, 1964-1970* (July 1971), pp. 1-3, and records.

Table 130.—RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1960 TO 1971

Year	Total	United States	Canada	Japan	Australia and New Zealand ¹	Other Pacific and Asia ¹	All others
1960	296,500	237,200	20,800	14,800	11,900	8,900	2,900
1965	686,500	541,000	48,500	36,400	30,300	18,200	12,100
1970 ²	1,564,500	1,170,000	80,000	131,500	69,100	52,500	61,400
1971 ²	1,730,000	1,253,000	100,000	180,000	82,000	66,000	49,000

¹South Pacific islands included with Australia and New Zealand in 1971.

²Excludes Rest and Recuperation personnel and dependents.

Source: Hawaii Visitors Bureau, Research Department, March 1973.

Table 131.—CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1951 TO 1972

Year	California residents ¹ (percent)	Males per 1,000 females	Median age (years)	High status occupations ² (percent)	Persons per party	Arriving June 1-Aug. 31 (percent)	Arriving by sea (percent)	Repeat visitors ³ (percent)	Pleasure trip (percent)	Staying in hotel (percent)	Average intended stay ⁴ (days)	Intending to visit Neighbor Islands ⁵ (percent)
1951	52.3	739	44.8	51.3	1.47	31.0	43.6	22.3	72.3	(NA)	25.0	63.9
1952	48.9	697	46.4	50.2	1.49	25.3	30.6	25.7	73.6	77.8	25.3	66.2
1953	47.3	666	46.9	50.4	1.49	31.5	31.1	23.5	77.5	77.0	23.9	68.4
1954	43.7	676	47.4	49.5	1.50	30.7	27.1	24.5	78.2	78.2	23.6	67.3
1955	43.8	668	46.9	48.3	1.50	32.0	23.3	25.6	75.6	79.7	22.0	66.2
1956	45.1	706	46.1	47.6	1.52	32.6	19.5	27.5	77.6	79.2	22.0	66.0
1957	47.9	688	46.4	47.2	1.52	35.5	24.9	27.4	76.2	(NA)	20.8	64.7
1958	45.6	765	45.3	49.7	1.49	33.2	(NA)	30.4	74.6	(NA)	20.7	(NA)
1959	46.0	701	45.9	47.2	1.56	35.4	(NA)	26.9	73.9	(NA)	18.1	(NA)
1960	42.5	743	45.2	51.7	1.54	33.3	(NA)	25.8	67.3	(NA)	16.9	(NA)
1961	46.9	749	45.4	52.3	1.49	36.5	12.3	29.1	68.4	(NA)	17.2	(NA)
1962	42.8	751	45.5	54.1	1.53	36.7	11.3	29.9	75.4	(NA)	16.8	57.2
1963	45.1	722	45.2	56.5	1.59	33.7	7.9	30.8	68.1	83.1	15.4	65.7
1964	46.5	780	45.5	59.4	1.58	33.2	6.8	30.6	71.9	83.4	14.2	67.6
1965	45.7	807	45.2	60.9	1.61	35.0	5.0	31.7	75.2	90.1	13.0	67.1
1966	39.7	798	45.3	59.9	1.58	30.9	4.1	32.1	71.6	87.1	12.7	64.1
1967	36.5	682	43.2	52.3	1.55	32.7	2.9	29.0	74.9	84.9	12.3	56.5
1968	34.2	631	41.7	48.3	1.52	31.9	2.1	28.5	76.8	84.6	12.1	54.9
1969	33.4	641	40.1	48.3	1.53	30.5	1.2	30.6	72.9	83.2	12.3	53.2
1970	33.4	663	40.7	49.6	1.55	33.1	0.4	32.8	74.8	84.0	10.9	54.8
1971	32.0	741	42.6	54.0	1.61	30.8	0.3	36.4	76.0	84.9	11.0	60.6
1972	27.7	801	44.7	58.9	1.71	29.2	0.4	35.1	77.4	89.0	10.9	61.5

NA Not available.

¹Base for 1970 and later years includes visitors arriving directly from Canada. The base for earlier years included only those passengers from Canada who made an intermediate stop in the United States.

²Party heads only. Professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

³Party heads only.

⁴Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data differ somewhat from those in the source because of different computation procedures.

⁵Base includes nonrespondents to this question among surveyed visitors, assumed to intend not to visit the Neighbor Islands.

Source: Hawaii Visitors Bureau, *Annual Research Report, 1952-1971; Revised Visitors Statistics, 1964-1970* (July 1971); and records.

Table 132.—FAMILY INCOME, ISLANDS VISITED, AND TRIP REACTION OF WESTBOUND VISITORS: 1951 TO 1971

Subject	1951	1962-1963 ¹	1970	1971
All westbound visitors	47,634	287,855	1,377,756	1,430,325
Family income (percent distribution):				
Under \$5,000	32.3	—	} 7.5	4.5
\$5,000 to \$7,499	} 29.2	{ —		
\$7,500 to \$9,999		{ —	14.1	9.9
\$10,000 to \$14,999	} 38.5	{ —	18.5	16.9
\$15,000 to \$24,999		{ —	30.3	32.5
\$25,000 and over		{ —	29.6	36.2
Median	\$8,000	—	\$18,300	\$20,800
Islands visited (percent distribution):				
Oahu only	44.2	36.0	43.7	37.8
One or more Neighbor Islands	55.8	64.0	56.3	62.2
Hawaii	48.3	48.0	35.6	41.1
Maui	30.0	35.8	37.0	43.0
Kauai	27.1	48.6	36.7	41.6
Two or more Neighbor Islands	—	44.8	34.2	38.4
Three or more Neighbor Islands	—	23.7	21.4	25.6
Hawaii compared with other vacation areas visited (percent distribution):				
Quite inferior	—	0.3	0.2	0.2
Below average	—	1.0	1.0	0.8
Average	—	11.9	10.7	9.3
Above average	—	51.8	50.0	50.4
Far superior	—	35.0	38.1	39.2

¹June 1, 1962 to May 31, 1963.

Source: Hawaii Visitors Bureau, *Annual Research Report on Visitors to Hawaii 1952* (March 1953), table 26; *Tourism by Islands* (April 1957), pp. 11, 31, 34, and 37; *Visitor Reaction Survey* (November 1963), pp. 8, 27 and 32; *Visitor Reaction Survey 1970* (May 1971), pp. 3, 27, and 36; *Visitor Reaction Survey 1971* (April 1972), pp. 3, 27 and 36.

Table 133.—VISITOR EXPENDITURES PER VISITOR DAY ON OAHU: 1965—1966

(In dollars)

Item	All visitors	Independent travelers	Prepaid tour travelers	Non-hotel travelers
All items	37.23	41.89	38.61	12.50
Lodging	10.84	12.57	11.55	1.24
Food	9.28	10.64	9.23	2.94
Liquor	2.52	2.97	2.25	1.03
Night clubs	3.08	3.27	3.53	1.19
Other entertainment	1.00	0.96	1.52	—
Clothing	4.30	4.73	4.48	1.79
Ground transportation	2.00	2.22	1.81	1.38
Gifts and souvenirs	2.20	2.26	2.48	1.37
Photo supplies	0.45	0.46	0.42	0.46
Beauty and barber services	0.34	0.42	0.34	0.13
All other	1.23	1.38	1.00	0.99

Source: First National Bank of Hawaii, "Visitor Expenditures in Honolulu," *Economic Indicators*, November 1967, p. 1.**Table 134.—UNITED STATES PASSPORTS ISSUED AND RENEWED IN HAWAII: 1967 TO 1971**

Calendar year	Number	Per 100,000 population
1967	17,030	2,313
1968	19,470	2,596
1969	20,210	2,607
1970	30,990	3,875
1971	26,920	3,383

Source: Research Department, The New Yorker Magazine, Inc., *U.S. Passports Issued and Renewed, Five-Year Study, 1967-1971* (1972).

Table 135.—CHARACTERISTICS OF HAWAII RESIDENTS RETURNING FROM THE MAINLAND UNITED STATES: 1961 TO 1972

Subject	1960-1961	1967	1971	1972
Number returning	41,450	130,995	162,967	171,772
Oahu residents (percent) ¹	86.0	88.0	(NA)	87.2
Median age (years)	32.9	(NA)	(NA)	(NA)
Males per 100 females	125.9	(NA)	(NA)	(NA)
Persons per party	1.35	1.24	1.33	1.36
Armed forces (percent)	6.2	11.7	(NA)	2.6
Average number absent ²	5,200	14,800	(NA)	11,900
Days absent, median ²	23.7	18.4	(NA)	13.8
Days absent, average ²	49.6	45.9	(NA)	25.3
Returning from California (percent)	52.8	(NA)	(NA)	(NA)
Traveling by air (percent)	97.4	99.4	99.8	99.9

NA Not available.

¹Excludes armed forces in 1967 and 1972.

²Based on persons absent 1-365 days.

Source: Hawaii State Department of Planning and Economic Development, *Out-of-State Travel by Hawaii Residents During 1972* (Statistical Report 93, April 10, 1973), table 2.

Table 136.—OAHU HOUSEHOLDS MAKING TRIPS TO THE NEIGHBOR ISLANDS, MAINLAND, OR FOREIGN COUNTRIES DURING THE PREVIOUS TWELVE MONTHS: 1972

Place visited	Percent of households making trips	Percent of all Oahu households
One or more places	100.0	49.3
Kauai	20.9	10.3
Molokai	4.1	2.0
Lanai	1.4	0.7
Maui	33.1	16.3
Hawaii	32.4	16.0
Mainland United States	43.2	21.3
Foreign country	20.3	10.0

Source: Hawaii Newspaper Agency, Inc., *Continuing Home Audit, 1972*. Based on a sample of 300 households. Used with permission.

**Table 137.—PASSENGERS ON SCHEDULED INTERISLAND FLIGHTS ORIGINATING IN HONOLULU,
BY PLACE OF RESIDENCE: 1963, 1969, AND 1971**

Place of residence	1963	1969	1971	Percent distribution		
				1963	1969	1971
All passengers	448,300	959,300	1,261,000	100.0	100.0	100.0
Oahu residents	163,500	300,100	429,800	36.5	31.3	34.1
Neighbor island residents	69,900	131,200	213,900	15.6	13.7	17.0
Mainland and foreign residents	214,900	528,000	617,300	47.9	55.0	49.0

Source: Estimates by Aloha Airlines and Hawaiian Airlines.

Table 138.—ATTENDANCE AT MUSEUMS, STATE MONUMENTS, AND SIMILAR ATTRACTIONS: 1971

Island and attraction	Attendance
Oahu:	
Bernice P. Bishop Museum: ¹	
Exhibition Halls	126,607
Planetarium	68,731
Falls of Clyde Maritime Museum	15,983
Diamond Head State Monument ²	5,000
Foster Botanical Gardens	98,994
Hawaiian Wax Museum	98,804
Honolulu Academy of Arts	115,173
Honolulu Zoo	1,107,193
Iolani Palace State Monument ¹	656,000
Mission Museum ³	22,613
Mormon Temple Grounds, Laie	257,589
Pacific Submarine Museum	42,658
Paradise Park ⁴	247,389
Polynesian Cultural Center	498,000
Post Museum, Schofield Barracks	39,000
Puu O Mahuka State Monument ²	8,000
Queen Emma's Summer Palace ³	17,765
Royal Mausoleum State Monument ¹	269,000
Sea Life Park	451,000
Ulu Mau Village	55,000
Ulu Po Heiau State Monument ²	4,000
U.S.S. Arizona Memorial ³	880,460
Waikiki Aquarium	231,149
Washington Place State Monument	—
Hawaii:	
Hikiau Heiau State Monument ²	16,000
Hulihee Palace State Monument ³	28,975
Kamuela Museum	12,142
Lava Tree State Monument ¹	28,000
Lyman House Memorial Museum ³	12,104
Maui:	
Baldwin Home Missionary Museum	28,569
Hale Hoikeike ⁵	4,259
Hale Kii-Pihana State Monument ¹	10,000
Hale Pa'i Printing Museum	1,476

(Continued on next page)

Table 138.—ATTENDANCE AT MUSEUMS, STATE MONUMENTS, AND SIMILAR ATTRACTIONS: 1971 (continued)

Island and attraction	Attendance
Kauai:	
Hanalei Museum	7,000
Hui O Laka Kokee Museum	49,534
Kauai Museum	15,830
Waioli Mission	426
Russian Fort State Monument	—

¹Year ended June 30, 1972.

²Year ended June 30, 1971.

³Calendar 1972.

⁴Calendar 1970.

⁵Year ended February 28, 1973.

Source: Hawaii State Department of Land and Natural Resources, *Report to the Governor, 1971-1972*, forthcoming; Waikiki Aquarium, *Attendance of Visitors at Hawaii's Parks and Museums* [1971]; information compiled by the Hawaii State Department of Planning and Economic Development from the museums and other attractions.

Table 139.—NATIONAL, STATE, AND COUNTY PARKS: 1971-1972

National park	Acreage (Dec. 31, 1972)		Total visits	
	Federal	Non-Federal	1971	1972
Hawaii Volcanoes National Park	217,030	12,625	980,744	1,389,144
Haleakala National Park	21,190	6,093	254,701	305,489
City of Refuge National Historical Park	181	—	243,404	351,448
Puukohola Heiau National Historic Site	Authorized but not yet established			

County	State parks				County parks: Dec. 31, 1972		
	Number of areas, June 30, 1972	Acreage, June 30, 1972		Visits, years ended June 30 (in thousands)		Number of areas	Acreage
		Total	Developed	1971	1972		
Total	46	15,999.5	543.1	13,007	9,798	479	6,662
Hawaii	13	1,763.9	221.1	2,205	2,151	90*	1,155*
Maui	11	420.8	47.0	1,112	1,144	56	522
Honolulu	15	5,930.2	112.8	3,644	3,578	283	4,489
Kauai	7	7,884.6	162.2	6,046	2,925	50	496

*Dec. 31, 1971 data.

Source: U.S. Department of the Interior, National Park Service, records; Hawaii State Department of Land and Natural Resources, *Report to the Governor 1971-1972*, pp. 87-88; County parks departments, records.

Table 140.—RESIDENT AND VISITOR PARTICIPATION IN MAJOR OUTDOOR RECREATION ACTIVITIES: 1967

Activity	Percent participating		Participant days per month		Number participating, average summer weekend day	
	Residents	Visitors	Residents	Visitors	Residents	Visitors
Pleasure driving, sightseeing	69.5	69*	3.45	4.1*	47,136	13,200
Swimming	68.2	78	4.30	4.1	53,369	13,200
Playing outdoor sports, games	55.9	2	3.90	.07	45,982	225
Picnicking	54.5	—	2.32	—	29,419	—
Sunbathing	44.1	71	4.00	4.0	40,933	12,900
Walking for pleasure	41.8	65	3.46	3.7	33,692	11,900
Motorcycling, bicycling	37.3	—	4.27	—	37,155	—
Attending outdoor sports, cultural events	35.0	53	2.10	1.7	17,041	5,500
Surfing	32.7	11	3.27	.4	23,093	1,300
Scuba, skin diving	26.4	7	1.93	.3	10,260	800
Fishing	22.9	9	3.22	.2	11,622	600
Pleasure boating	20.7	20	2.40	.4	17,095	1,300
Golf	14.5	13	2.17	.5	7,398	1,600
Hiking	10.9	—	2.67	—	6,789	—
Shooting	8.6	—	2.33	—	4,159	—
Camping	5.9	1	2.60	.06	3,895	200
Horseback riding	5.9	—	2.60	—	3,579	—
Hunting	5.5	1	1.66	.002	2,116	6
Waterskiing	3.6	2	1.00	.07	1,826	225

*Pleasure driving only.

Source: Hawaii State Department of Planning and Economic Development, *Comprehensive Outdoor Recreation Plan* (1970), pp. 48-50, 57, 59, and 61.

Table 141.—FRESHWATER GAME FISHING LICENSES AND HUNTING LICENSES ISSUED: 1953 TO 1972

Year ended June 30	Freshwater game fishing licenses	Hunting licenses
1953	2,617	4,695
1955	1,950	4,522
1960	1,682	5,290
1961	3,014	6,214
1962	4,209	6,924
1963	4,264	7,095
1964	5,269	7,766
1965	4,357	7,613
1966	3,743	6,903
1967	3,424	7,142
1968	3,867	8,510
1969	3,798	8,629
1970	5,070	9,773
1971	5,551	10,302
1972	7,759	11,178

Source: Hawaii State Department of Land and Natural Resources, *Report to the Governor, 1971-1972*, p. 43, and records.

Table 142.—CHARACTERISTICS OF SURFERS, FOR OAHU: 1970

(Surfers defined as persons who had surfed at least once in the preceding year.
Based on a telephone survey of 1,271 households.)

Subject	Number
Percent of households with one or more surfers	21.5
Surfers per 100 households	35.6
Surfers per 100 households with surfers	165.6
Male surfers (percent)	87.2
Female surfers (percent)	12.8
Under 14 years of age (percent)	15.2
14 to 25 years of age (percent)	70.1
26 years of age and over (percent)	14.7
Median age (years)	18.6
Median frequency per month	4.6
Males	5.0
Females	1.0

Source: Robert N. Anderson and Howard Co, *Characteristics of Surfers in Hawaii* (preliminary draft, July 13, 1971). Quoted with permission of the authors.

Table 143.—SELECTED RECREATIONAL ACTIVITIES: 1967-1973

Subject	Number
Amusement and recreation establishments with payroll, 1967:	
Billiard and pool establishments	15
Bowling alleys	29
Motion picture theaters, except drive-in	51
Drive-in motion picture theaters	5
Golf courses, October 1972	
Public, 9-hole	44
Public, 18-hole	2
Private, 9-hole	6
Private, 18-hole	8
Private, 27-hole	19
Military, 9-hole	1
Military, 18-hole	2
Golf course attendance, 1972:	
Ala Wai Golf Course	132,080
Pali Golf Course	83,009
Other City and County of Honolulu golf courses	97,960
Sandy shoreline, six major islands (length in miles)	
Safe, clean, accessible, suitable for swimming	184.9
Suitable for swimming during part of the year	24.4
Unsafe, poor bottom, or otherwise unsuitable	24.3
Spectator sports home attendance:	
Baseball: Hawaii Islanders, 1972 season	136.2
Basketball: University of Hawaii, 1972-1973 season	319,378
Football: University of Hawaii, 1972 season	138,247
Honolulu International Center Sports Arena, all sports events, 1972-1973	150,609
Skiing:	
Ski Association of Hawaii paid members, March 1971	448,840
Annual permits for skiing on Mauna Kea, 1972	270
	1,763

Source: *U.S. Census of Business: 1967*, BC67-SA13, table 2; Hawaii Visitors Bureau, *Hawaii Golf Courses* (mimeo. list, 1972); City and County of Honolulu, Department of Auditoriums and Department of Parks and Recreation, records; Hawaii State Department of Planning and Economic Development, *Hawaii's Shoreline* (1965), p. 7; Hawaii Islanders, records; University of Hawaii, Athletics Department records; Ski Association of Hawaii, records; Hawaii State Department of Land and Natural Resources, records.

Table 144.—PERFORMING ARTS: 1925-1926 TO 1971-1972

Season	Oahu theater groups ¹				Honolulu Symphony Orchestra		
	Number reporting	Productions	Performances	Attendance	Performances ²	Attendance ²	Expenditures (dollars)
1925-1926	1	4	7	(NA)	5	(NA)	(NA)
1930-1931 ³	2	13	27	(NA)	7	4,477	8,842
1935-1936	2	11	31	(NA)	4	(NA)	6,911
1940-1941	2	9	39	(NA)	4	(NA)	(NA)
1945-1946	2	5	16	(NA)	6	8,512	22,167
1950-1951	2	16	160	(NA)	21	31,377	68,813
1955-1956	3	14	139	36,000	39	(NA)	86,000
1961-1962	4	22	256	104,000	58	(NA)	213,179
1966-1967	9	61	531	190,000	105	156,678	532,542
1970-1971	8	52	402	161,000	142	(NA)	711,300
1971-1972	7	53	503	188,000	138	181,992	901,866

NA Not available.

¹Major community and university groups. Incomplete prior to 1966-1967. Includes off-island performances.

²Excludes demonstration concerts by small symphony ensembles in schools.

³HSO attendance and expenditure data refer to 1933.

Source: Hawaii State Department of Planning and Economic Development, *Statistics on Cultural Activities in Hawaii* for 1961-1962, 1966-1967, 1970-1971, and 1971-1972.

Table 145.—PET OWNERSHIP, 1970, AND LICENSED DOGS, 1972

Subject	Number
OAHU HOUSEHOLDS, 1970	
Percent with one or more pets	46.9
Honolulu	37.2
Rest of Oahu	59.2
Percent with one or more dogs	24.7
Number of dogs owned ¹	56,300
Percent with one or more cats	14.8
Number of cats owned	48,700
LICENSED DOGS, 1972	
State total	52,505
City and County of Honolulu	39,104
County of Hawaii	3,997
County of Kauai	2,942
County of Maui	6,462

¹The City and County of Honolulu Department of Finance issued 31,559 dog licenses in 1970.

Source: John M. Gooch, D.V.M., *Pet Survey* (Department of Health memorandum, January 13, 1971); information supplied by each County Department of Finance.

Table 146.—DRINKING AND SMOKING IN OAHU HOUSEHOLDS: 1971

Subject	Number of households	Percent of Oahu households
Buying alcoholic beverages	131,752	76.6
Beer	125,904	73.2
Wine	85,828	49.9
Liquor	102,168	59.4
With one or more regular smokers	94,428	54.9
With one or more members who permanently quit smoking in the past year	12,212	7.1

Source: Hawaii Newspaper Agency, Inc., *Continuing Home Audit, 1971*, tables B097, B098, B099, B100, B102, and B104. Used with permission.

SECTION 12

ARMED FORCES

This section presents statistics relating to the armed forces and their dependents, civilian employment in national defense, Selective Service, veterans, military housing and land ownership, and expenditures by the armed forces.

There were approximately 53,000 officers and enlisted men (including 15,000 aboard ships homeported in Hawaii) and over 66,000 military dependents in the Islands as of July 1, 1972. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for almost half of the current total. The importance of national defense in Hawaii can be further measured by total expenditures (\$765,500,000), civilian employment (21,000), veterans in civil life (70,000), federally-connected pupils in public schools (48,000), military housing (15,000 units), and land controlled by the armed forces (227,000 acres).

The Department of Planning and Economic Development has, since 1959, issued periodic reports on *Military Personnel and Dependents in Hawaii*. Other published sources include reports of the Bureau of the Census, the Director of Selective Service, the Administrator of Veterans Affairs, the Department of Defense, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Census Tract Committee, and the Honolulu Redevelopment Agency. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. Section 9 of the *Statistical Abstract of the United States: 1972* presents data on national defense and veterans affairs for other States and the entire nation.

Table 147.—ARMED FORCES AND DEPENDENTS: 1900 TO 1972

Year	Active duty military personnel ¹	Year	Active-duty military personnel, June 30			Dependents located in Hawaii, March 31 ²
			Shore-based	Afloat and mobile		
				Temporarily shore-based	Other ³	
1900	293	1951	27,603	7,588	7,671	(NA)
1905	328	1952	26,486	7,039	21,628	(NA)
1910	1,925	1953	24,785	8,595	12,437	(NA)
1915	9,820	1954	21,669	7,131	8,097	36,199
1920	6,652	1955	39,611	6,623	9,074	(NA)
1925	17,874	1956	39,688	7,278	10,220	49,955
1930	18,908	1957	38,523	9,850	9,171	53,654
1935	22,005	1958	35,849	6,594	10,823	56,976
1939	23,502	1959	37,536	7,034	10,446	50,882
		1960	35,970	7,155	12,577	62,608
		1961	37,681	6,384	13,524	63,172
1940	27,665	1962	41,615	5,737	28,084	63,889
1941	(NA)	1963	41,018	5,966	10,449	66,425
1942	(NA)	1964	45,714	6,462	18,484	68,138
1943	194,300	1965	40,184	4,170	8,862	72,981
1944	442,160	1966	28,695	5,014	15,924	69,048
1945	322,372	1967	34,370	5,374	13,118	57,253
1946	58,837	1968	33,987	8,573	10,356	61,940
1947	34,900	1969	33,739	5,400	7,375	65,925
1948	29,662	1970	33,337	7,102	10,085	57,382
1949	22,553	1971	28,352	3,848	9,677	57,816
1950	19,408	1972	36,494	1,724	9,581	61,713

NA Not available.

¹Shore-based only, 1939 to 1950; treatment of Navy personnel afloat and mobile activities for earlier years not specified. Data for 1900-1935 refer to an unspecified time of the year; 1939, to the quarterly average for the year; 1940-1950, to June 30.

²Except 1954, which refers to December 31, and 1956 and 1957, which refer to January 31.

³Navy personnel afloat, identified with the nearest port.

Source: Data for 1900-1935 from the Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1965* (Statistical Report 36, September 24, 1965), p. 7; 1939 from the U.S. Office of Business Economics, *Income of Hawaii* (1953), p.20; 1940-1972 from Office of the Assistant Secretary of Defense, records.

Table 148.—MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1937 TO 1972
(Includes Navy and Coast Guard personnel afloat on a homeported basis and hence is not comparable to Department of Defense data in the preceding table.)

Year, island, and service ¹	Personnel and dependents	Military personnel			Dependents in Hawaii	Military families in Hawaii
		Total	Ashore	Aboard ship ²		
1937 ³	30,272	24,237	(NA)	(NA)	6,035	(NA)
1950 ⁴	67,729	29,404	(NA)	(NA)	38,325	11,640
1959 ⁵	112,525	56,303	(NA)	(NA)	56,222	(NA)
1960 ⁶	112,938	52,881	41,927	10,954	60,057	19,631
1961	118,381	56,348	44,155	12,193	62,033	21,007
1962	122,933	59,702	48,020	11,682	63,231	21,973
1963	118,588	57,093	45,354	11,739	61,495	21,651
1964	128,930	59,840	47,959	11,881	69,090	21,631
1965	121,929	56,113	42,960	13,153	65,816	23,156
1966	112,359	49,737	31,476	18,261	62,622	21,154
1967	112,303	51,002	38,904	12,098	61,301	20,854
1968	107,746	48,613	36,712	11,901	59,133	21,818
1969	115,979	56,282	38,501	17,781	59,697	21,623
1970	111,549	53,768	39,822	13,946	57,781	20,568
1971	112,943	50,762	35,824	14,938	62,181	23,184
1972	118,760	52,538	37,124	15,414	66,222	23,688
ISLAND: 1972						
Oahu	117,943	52,154	36,771	15,383	65,789	23,531
French Frigate Shoals	26	26	26	—	—	—
Kure Atoll	25	25	25	—	—	—
Hawaii	374	164	148	16	210	82
Kauai	325	145	145	—	180	65
Mauui	62	19	4	15	43	10
Molokai	5	5	5	—	—	—
SERVICE: 1972						
Air Force	28,709	8,838	8,838	—	19,871	6,646
Army	24,883	11,100	11,100	—	13,783	5,163
Coast Guard	2,639	1,114	649	465	1,525	484
Marine Corps	13,985	7,408	7,408	—	6,577	2,372
Navy	48,544	24,078	9,129	14,949	24,466	9,023

NA Not available

¹July 1 data unless otherwise specified.

²Navy and Coast Guard personnel aboard ships homeported in Hawaii, regardless of location on date specified.

³Army as of December 1; Navy, November 26. Excludes Coast Guard.

⁴As of April 1. Approximate totals.

⁵Air Force, Marine Corps and Navy as of March 31; Army, May 31; Coast Guard, January 1.

⁶As of April 1.

Source: Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii* (semi-annual or annual report).

Table 149.—FEDERAL MILITARY EXPENDITURES: 1971 AND 1972

Subject	Millions of dollars	
	1971	1972
Total expenditures	721.8	765.5
By service:		
Air Force	120.5	111.5
Army	208.3	225.9
Coast Guard	14.7	16.7
National Guard	12.0	14.6
Navy	366.3	396.8
By expenditure category:		
Military payroll	250.1	271.2
Civilian payroll	254.0	260.8
Dependents and retired personnel	43.3	44.3
Supplies and services	174.4	189.2

Source: Bank of Hawaii, *Hawaii '72, Annual Economic Review* (August 1972), p. 47, and records.

Table 150.—MILITARY REAL PROPERTY CONTROLLED IN HAWAII: JUNE 30, 1960 AND 1970

Subject	June 30, 1960: total	June 30, 1970			
		Total	Army	Navy	Air Force
Cost to U.S. Govt. ¹	855,122	1,047,218	244,877	646,131	156,210
Acreage controlled	252,647	226,539	153,122	66,636	6,781
Owned ²	34,968	175,225	106,605	62,563	6,057
Public land ²	166,880	—	—	—	—
Temporary use	30,037	12,721	11,679	706	336
Leased	20,087	36,954	34,006	2,750	198
Easements	675	1,639	832	617	190

¹Land and improvements. In thousands of dollars.

²Some lands previously recorded as public land within the United States were reclassified [in 1966] in connection with certain Statehood agreements pertaining to the State of Hawaii."

Source: U.S. House of Representatives, Committee on Government Operations, 92nd Congress, 1st Session, *Federal Real and Personal Property Inventory Report (Civilian and Military) of the United States Government Covering Its Properties Located in the United States, in the Territories, and Overseas* (biennial report).

Table 151.—SELECTIVE SERVICE REGISTRANTS, NATIONAL GUARD STRENGTH, VETERANS IN CIVIL LIFE, DEFENSE EMPLOYMENT, FEDERALLY-CONNECTED PUPILS, AND ARMED FORCES HOUSING: 1970 TO 1972

Subject	1970	1971	1972
Selective service registrants from Hawaii on active duty with the armed forces, December 31 ¹	13,780	12,749	5,411
National Guard strength, June 30	3,929	4,510	4,803
Hawaii Air National Guard	1,604	1,569	1,574
Hawaii Army National Guard	2,325	2,941	3,229
Veterans in civil life, June 30 ²	68,000	70,000	(NA)
War veterans	57,000	59,000	(NA)
Others	11,000	11,000	(NA)
Civilian employment, December 12	21,470	21,580	21,050
Air Force	3,500	3,420	3,350
Army	5,950	6,020	6,050
Navy	12,020	12,140	11,650
Federally-connected pupils in public schools, Fall	51,181	51,236	47,852
Housing units operated by the armed forces, July 1 ³	14,425	14,872	14,875
Owned by the armed forces	13,627	14,085	14,031
Leased from private owners	798	787	844

NA Not available.

¹Data for 1972 exclude registrants 26 years old or over.

²According to the 1970 U.S. Census of Population, 89,098 civilian males 16 years old and over (39.9 percent of all civilian males 16 and over) were veterans.

³The 1970 data refer to April 1.

Source: National Headquarters, Selective Service System, records; *Annual Reports Department of Defense, State of Hawaii* (annual) and records; *Annual Report, Administrator of Veteran Affairs* (annual); Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates* (monthly); Hawaii State Department of Education, *Report on Federally Connected Pupils, Hawaii Public Schools* (annual); Hawaii State Census Tract Committee, *The Geographic Distribution of Government Housing in Hawaii* (annual).

SECTION 13

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the financial structure and civilian employment of Federal, State and local government in Hawaii.

Local government is vested in one combined City-County (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan Counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist. The Counties establish real property tax rates but, except for licenses, permits and fees, tax collections are the responsibility of the State.

Tax collections by Federal, State and County governments in fiscal 1971 reached \$1,106 million, almost double the level reported five years earlier. The 1971 total included \$608 million in U.S. taxes, \$481 million in State taxes, and \$17 million in County licenses and Individual income taxes accounted for 83 percent of Federal collections and 24 percent of State collections in Hawaii in 1971. State revenue receipts totalled \$631 million, chiefly from the General Excise and Use tax (\$178 million) and Federal grants-in-aid (\$147 million). The largest expenditure item in the State accounts for 1971 was education, with \$260 million (out of \$685 million) going to the University of Hawaii and public schools and libraries. The Counties, in contrast, depended largely on the real property tax (assessed and collected by the State) for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State doubled between 1964 and 1971. Public bonded debt outstanding at the end of 1971 exceeded \$925 million. Average government employment reported for 1971 was 78,140, about 55 percent over the 1961 average but still less than the 1944 peak of 78,617. The 1971 total included 32,840 Federal workers, 34,920 persons employed by the State, and 10,850 persons on County payrolls.

Important sources for statistics on government in Hawaii include the 1967 U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, *Government in Hawaii: A Handbook of Financial Statistics*. Comparable Mainland statistics appear in the *Statistical Abstract of the United States: 1972*, Sections 14 and 15.

Table 152.—FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1852 TO 1972
(In thousands of dollars)

Year	Total	U.S. govt. ¹	Hawaiian govt. ²	County govs. ³
1852-1855 ⁴	205	—	205	—
1856-1860 ⁴	219	—	219	—
1860-1864 ⁴	218	—	218	—
1864-1870 ⁴	344	—	344	—
1870-1874 ⁴	400	—	400	—
1874-1880 ⁴	476	—	476	—
1880-1884 ⁴	862	—	862	—
1884-1890 ⁴	1,036	—	1,036	—
1890-1894 ⁴	1,238	—	1,238	—
1894-1898 ⁴	1,511	—	1,511	—
1901	2,088	102	1,986	—
1905	1,838	44	1,794	—
1910	3,103	209	2,894	(NA)
1915	3,607	435	3,172	(NA)
1920	19,477	11,930	7,547	(NA)
1925	17,974	5,750	12,224	(NA)
1930	21,626	5,516	16,110	(NA)
1935	20,282	5,692	14,590	(NA)
1940	36,205	9,875	24,429	1,901
1945	216,625	173,999	40,451	2,175
1950	150,558	81,401	65,148	4,009
1955	210,799	126,340	79,097	5,362
1960	372,012	216,939	148,256	6,817
1961	414,517	242,358	164,816	7,343
1962	453,021	272,265	172,762	7,994
1963	454,641	271,153	175,260	8,228
1964	493,311	293,453	191,235	8,623
1965	512,066	290,164	212,712	9,190
1966	596,646	323,614	263,239	9,793
1967	652,681	342,842	297,410	12,429
1968	778,291	440,237	324,323	13,731
1969	922,122	526,624	379,881	15,617
1970	1,057,376	602,998	438,397	15,981
1971	1,105,657	608,051	480,690	16,916
1972	1,162,700	632,583	512,047	18,070

NA Not available.

¹Twelve-month periods ended June 30. Internal revenue collections only.

²Four- or six-year periods ended December 31, 1855 and March 31, 1860 to 1894; fifty-seven-month period ended December 31, 1898; and twelve-month periods ended June 30, 1901 and thereafter. Includes Kingdom of Hawaii (to 1893), provisional government (1893-1894), Republic of Hawaii (1894-1900), Territory of Hawaii (1900-1959), and State of Hawaii (1959 and thereafter).

³Previous calendar year for the City and County of Honolulu through 1961, for the Counties of Hawaii, Kauai, and Maui through 1966; fiscal years ended June 30 for the City and County of Honolulu beginning in 1961 and for the Counties of Hawaii, Kauai, and Maui beginning in 1967. Comparable data not available before 1940.

⁴Annual averages.

Source: U.S. Treasury Department, Internal Revenue Service, records (for Federal collections, 1900-1940); Robert M. Kamins, *The Tax System of Hawaii* (1952), pp. 164, 166, and 173-176 (for Hawaiian Government collections, 1852-1940); Chamber of Commerce of Honolulu, Tax Study Committee, *Government in Hawaii, 1951*, p. 7 (for all levels, 1945); Tax Foundation of Hawaii, *A Compendium of Governmental Finances in Hawaii, 1949-1968*, pp. 30-32 (for Federal and County collections, 1949-1967, and State collections, 1949-1966); Tax Foundation of Hawaii, *Government in Hawaii*, annual, 1970 to 1973 (for Federal and County collections, 1968 and succeeding years, and State collections, 1967 and succeeding years); Tax Foundation of Hawaii, records (for County collections in 1940).

Table 153.—FEDERAL STATE, AND COUNTY TAX COLLECTIONS, BY SOURCE: 1962 TO 1972
(Years ended June 30. In thousands of dollars.)

Level of government and source	1962	1967	1971	1972
Total, all levels	453,021	623,181	1,105,657	1,162,700
Federal collections	272,265	342,842	608,051	632,583
Individual income and employment	202,043	265,903	507,062	532,391
Corporation income and excess profits	53,909	59,019	74,022	65,715
Other sources	16,313	17,920	26,967	34,477
State	172,762	267,910	480,690	512,047
General excise and use	66,076	104,495	178,030	186,556
Fuel	17,252	20,317	27,260	28,347
Public service companies	5,279	8,964	13,620	15,661
Corporate income	6,660	10,525	12,876	11,766
Individual net income	31,025	63,512	116,233	120,061
Real property	30,808	30,644	87,893	98,265
Unemployment compensation	5,142	10,769	14,018	18,294
Other sources	10,520	18,684	30,760	33,097
Counties ¹	7,994	12,429	16,916	18,070
Motor vehicle weight	5,078	8,545	10,451	10,970
Other sources	2,916	3,884	6,465	7,100

¹Previous calendar year for Honolulu, 1961, and Hawaii, Kauai, and Maui, 1961 and 1966.
Source: Tax Foundation of Hawaii, *Government in Hawaii, 1973*, pp. 18 and 34.

Table 154.—ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY: 1970 AND 1971
 (Based on a gross family income of \$16,408 in 1970 and \$18,108 in 1971, equivalent
 to four times the per capita personal income estimated for Hawaii.)

Tax category ¹	1970	1971
Total tax burden	5,559	6,178
Direct taxes	4,410	4,881
Real property	366	365
Automobile	225	228
General excise	304	327
Specific excises	67	103
State income	693	802
Federal income	2,130	2,360
Social Security	624	696
Employment taxes paid by employer	1,149	1,297
Social Security	624	696
Unemployment compensation	163	192
Workmen's compensation	256	294
Temporary disability insurance	106	115

¹For underlying assumptions, see source.

Source: Tax Foundation of Hawaii, *Arnie Aloha's 1971 Family Tax Burden* (July 1972).

Table 155.—STATE REVENUE RECEIPTS BY SOURCE, 1971 AND 1972, AND STATE OPERATING EXPENDITURES, BY FUNCTION, 1962 TO 1972
(For years ended June 30. In thousands of dollars)

Source of revenues	Total, general and special funds		General fund		Special funds	
	1971	1972	1971	1972	1971	1972
All revenue receipts	630,598	689,958	497,854	529,800	132,744	160,158
Tax revenues	383,668	404,513	351,550	367,102	32,118	37,411
General excise	178,048	186,573	178,048	186,573	—	—
Individual income	116,233	120,063	116,233	120,063	—	—
Other taxes	89,387	97,877	57,269	60,466	32,118	37,411
Federal grants in aid	147,193	178,639	109,093	131,009	38,100	47,629
Earnings—gen. depts.	34,788	39,595	19,514	15,741	15,274	23,854
Earnings—pub. serv. int.	23,860	26,622	742	—	23,118	26,622
Interest earned	11,921	9,802	5,988	4,080	5,933	5,722
Other services	29,168	30,787	10,967	11,868	18,201	18,920
			State government operating expenditures			
Functions	1962	1967	1971	1972		
All expenditures	216,932	382,946	685,058	762,413		
General government—control	3,578	6,438	11,576	12,414		
General government—staff	9,324	11,998	26,285	24,980		
Public safety	24,374	20,031	23,581	26,292		
Highways	15,612	41,580	14,946	9,840		
Natural resources	10,591	13,740	19,608	15,344		
Health and sanitation	4,133	6,256	10,939	12,464		
Hospitals and institutions	12,201	17,895	39,941	40,348		
Public welfare	11,818	24,180	65,683	91,343		
Higher education	20,470	52,616	90,723	107,178		
Public schools	51,241	107,855	160,896	165,072		
Libraries and other education	2,043	3,412	7,982	7,442		
Recreation	1,533	773	1,699	1,581		
Utilities and other enterprises	9,108	9,738	26,112	24,580		
Debt service	10,850	18,572	34,508	42,541		
Retirement and pension	9,471	13,352	24,356	34,428		
Employees' health & hosp. insur.	—	2,461	6,804	7,610		
Salary adjustments	—	—	2,518	5		
Unemployment compensation	16,554	14,770	32,978	48,970		
Grants-in-aid to counties	4,031	10,507	16,345	19,448		
Miscellaneous	—	6,772	11,406	12,185		
Cash capital improvements	—	—	56,174	58,348		

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1973*, pp. 17 and 41.

**Table 156.—OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT,
FOR COUNTIES: 1972**

(For year ended June 30. In thousands of dollars.)

Subject	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES				
Total	145,720	13,046	19,012	8,302
Real property taxes	80,440	5,238	9,368	3,217
Other taxes	18,211	1,689	2,068	975
Licenses, fees, permits, fines	5,095	442	680	156
Departmental earnings	7,873	1,423	952	434
State grants	9,832	4,139	4,931	3,376
Federal grants	20,643	—	734	42
Land sales	504	—	—	—
Other sources	3,123	115	278	103
OPERATING EXPENDITURES				
Total	132,461	15,969	17,290	8,272
General government	14,319	1,715	2,808	1,317
Police and fire	31,256	3,419	5,101	2,343
Other protection	6,378	287	786	230
Highways	8,862	1,519	2,179	1,444
Health and sanitation	12,285	347	537	237
Recreation	10,257	956	1,620	553
Interest	8,053	1,127	806	241
Bond redemption	10,986	747	722	220
Pension and retirement	7,243	1,242	1,441	585
Urban redevelopment	10,066	—	—	—
Miscellaneous	4,876	1,428	747	698
Cash cap. improvement	7,879	3,182	545	404

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1973*, pp. 30, 31, 42, and 43.

Table 157.—GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1962, 1971, AND 1972

Source of revenue	Tax base (\$1,000)			Tax collections (\$1,000)		
	1962 ¹	1971	1972	1962 ¹	1971	1972
Total	2,650,480	6,390,337	6,964,568	67,434	178,449	193,439
Retailing	920,956	2,030,170	2,213,704	31,668	81,193	88,523
Services	228,421	523,824	578,260	7,886	20,952	23,129
Contracting	256,952	692,938	695,939	8,921	27,716	27,835
Theater, amuse., etc.	22,654	48,503	53,108	787	1,940	2,124
Interest	22,008	43,275	41,559	764	1,727	1,662
Commissions	45,310	98,044	120,218	1,579	3,922	4,808
Hotel rentals	195,053	198,539	227,058	6,723	7,942	9,075
Other rentals		375,067	422,895		15,003	16,916
Consumption	32,384	—	—	1,134	—	—
Use (4%)	—	82,186	74,993	—	3,287	3,000
All others	28,019	66,822	70,751	947	2,673	2,830
Public utility airlines	14,305	—	—	501	—	—
Insurance solicitors	7,395	20,852	27,068	111	417	541
Sugar processing	135,328	190,209	205,962	2,085	951	1,030
Pineapple canning	99,143	124,548	124,265	1,778	623	621
Producing	53,530	75,487	79,944	262	377	400
Manufacturing	158,157	284,929	307,833	786	1,425	1,539
Blind vendors	512	736	1,372	3	4	7
Wholesaling	386,135	918,425	1,002,214	1,892	4,592	5,011
Services (intermediary)	12,350	30,387	33,096	60	152	165
Compensating	31,868	—	—	160	—	—
Use (½%)	—	585,395	684,328	—	2,927	3,422
Payment of est. tax	—	—	—	—	-17	3
Disaster refunds	—	—	—	-925	—	—
Penalties and interest	—	—	—	314	644	797

¹General excise, consumption, and compensating tax.

Source: Hawaii State Department of Taxation, annual tabular releases.

Table 158.—ASSESSED VALUATION OF REAL PROPERTY: 1860 TO 1973
(In thousands of dollars. Real property has been legally assessed at 70 percent of market value since 1957. The ratio was 60 percent from 1952 to 1956, 30 percent from 1943 to 1951, and unspecified for earlier years.)

Year	Assessor's gross valuation	Valuation for tax rate purposes	Year	Assessor's gross valuation	Valuation for tax rate purposes
1860 ¹	3,417	(NA)	1959	2,211,810	1,152,398
1865	4,334	(NA)	1960	3,174,073	1,820,104
1870	5,396	(NA)	1961	3,327,737	1,958,352
1876	7,624	(NA)	1962	3,630,203	2,146,472
1880	12,194	(NA)	1963	3,810,422	2,270,903
1885	15,413	(NA)	1964 ²	2,988,028	2,544,552
1890	18,483	(NA)	1965	4,574,005	2,749,162
1895	20,747	(NA)	1966	5,036,156	3,069,066
1900	46,608	(NA)	1967	(NA)	3,416,194
1905	67,509	(NA)	1968-1969	6,044,461	3,639,215
1910	75,793	(NA)	1969-1970	6,555,382	4,062,060
1915	99,186	(NA)	1970-1971	7,663,518	4,627,047
1920	155,238	144,734	1971-1972	8,564,188	5,278,571
1925	229,715	194,804	1972-1973	9,744,772	6,068,713
1930	283,857	202,102			
1935	298,762	158,923			
1940	350,734	183,048			
1945	500,494	210,909			
1950	772,784	333,644			
1955	1,366,085	674,471			

Subject	County data for 1972-1973				
	State total	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation	9,744,772	7,913,481	581,817	930,459	319,015
Land	5,312,116	4,171,546	330,167	604,739	205,664
Improvement	4,432,657	3,741,935	251,650	325,721	113,351
Exemptions	3,610,282	3,096,361	161,091	272,866	79,964
Federal	848,448	836,119	1,715	6,855	3,759
State and Haw'n Homes Comm.	999,415	808,842	34,145	134,712	21,716
County	314,379	275,960	20,425	10,938	7,056
Homes, fee and leasehold	968,451	761,456	72,994	95,611	38,390
All other ³	479,589	413,984	31,812	24,750	9,043
Assessor's net taxable valuation	6,134,490	4,817,120	420,726	657,593	239,051
Valuation for tax rate purposes	6,068,713	4,768,305	412,377	655,985	232,046

NA Not available

¹Earliest year available. The first Hawaii real property tax law was enacted in 1859.

²Tax exempt property assessed at \$1 rather than 70 percent of market value.

³Public utilities, religious, charitable, educational, hospital, etc.

Source: *Biennial Report of the Minister of Finance* for 1870 and 1872; *Report of the Auditor General* for 1886 and 1892; *Report of the Governor ... 1901*; *Report of the Treasurer ... 1935*; *Report of the Tax Commissioner* for 1940, 1941-1947, and 1950; Department of Taxation, tabular releases, 1955 and later years.

Table 159.—INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1916 TO 1970
(These historical data are not precisely comparable among all years, due to changes in law, return forms, and methods of obtaining data.)

Year earned	Number of returns	Income ¹		Year earned	Number of returns	Income ¹	
		Total (\$1,000)	Per return (dollars)			Total (\$1,000)	Per return (dollars)
1916 ²	1,144	20,362	17,799	1943 ²	155,834	420,058	2,696
1917 ²	3,131	21,889	6,991	1944 ²	172,862	476,099	2,754
1918	4,242	20,055	4,728	1945	190,431	522,070	2,742
1919	8,136	33,164	4,076	1946	191,218	477,568	2,498
1920	13,715	55,573	4,052	1947	206,054	585,771	2,843
1921	11,481	37,840	3,296	1948 ²	182,227	586,944	3,221
1922	11,597	37,123	3,201	1949	182,803	540,858	2,959
1923	12,421	42,829	3,448	1950	179,871	583,616	3,245
1924 ²	12,387	46,395	3,745	1951	189,836	653,248	3,441
1925	9,306	41,465	4,456	1952	198,799	662,698	3,334
1926 ²	9,146	42,950	4,696	1953	200,739	705,874	3,516
1927	9,252	44,619	4,823	1954	196,816	719,347	3,655
1928	8,047	43,350	5,387	1955	205,298	801,826	3,906
1929	8,210	43,291	5,273	1956	207,901	835,360	4,018
1930	7,869	37,246	4,733	1957	212,520	897,985	4,225
1931	7,328	33,869	4,622	1958	215,402	896,695	4,163
1932 ²	12,192	37,277	3,057	1959	225,050	1,051,888	4,674
1933	10,835	34,358	3,171	1960	233,723	1,195,047	5,113
1934	11,252	37,516	3,334	1961	238,993	1,333,816	5,581
1935	13,262	46,902	3,537	1962	243,805	1,328,945	5,451
1936	15,214	58,738	3,861	1963	246,368	1,381,865	5,609
1937	17,394	64,825	3,727	1964	254,499	1,473,087	5,788
1938	19,048	62,684	3,291	1965	257,466	1,589,418	6,173
1939	22,873	73,190	3,200	1966	250,678	1,784,039	7,117
1940 ²	42,952	110,279	2,567	1967	263,518	1,910,919	7,252
1941 ²	99,426	222,663	2,239	1968	273,823	2,113,522	7,719
1942 ²	164,583	419,956	2,552	1969	290,251	2,407,048	8,293
				1970	302,426	2,802,445	9,267

¹Net income, 1916-1943; adjusted gross income (less deficit), 1944 and later years.

²Income limits for persons required to file returns were revised in 1917, 1924, 1926, 1932, 1940, 1941, 1942, 1943, 1944, and 1948. Initial and revised limits were as follows:

Period	Married and living with spouse	Single or separated
Net income:		
1913-1916	\$3,000	\$3,000
1917-1923	2,000	1,000
1924-1925	2,500	1,000
1926-1931	3,500	1,500
1932-1939	2,500	1,000
Gross income:		
1940	2,000	800
1941	1,500	750
1942	1,200	500
1943	624	500
1944	500	500
1948	600	600

Source: U.S. Department of the Treasury, Internal Revenue Service, *Statistics of Income* (annual).

Table 160.—INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1919 TO 1970
 (These data are not precisely comparable among all years, due to changes in law, return forms, and methods of obtaining data.)

Income classes ¹	1919	1929	1933	1939	1949	1959	1969	1970
All returns	8,136	8,210	10,835	22,699	182,803	225,050	290,251	302,426
No adjusted gross income	—	—	—	—	—	(NS)	(NS)	—
Under \$1,000	—	614	1,335	1,092	26,170	26,210	40,027	38,320
\$1,000, under \$2,000	2,529	1,944	3,995	8,679	40,598	34,335	25,687	13,252
\$2,000, under \$3,000	2,530	1,595	2,387	5,327	54,707	34,047	27,398	25,056
\$3,000, under \$4,000	1,418	1,208	1,443	3,328	30,620	31,262	19,036	18,429
\$4,000, under \$5,000	721	936	496	1,824	11,607	22,094	17,030	18,179
\$5,000, under \$6,000	209	461	320	793	} 15,333	19,025	10,998	18,495
\$6,000, under \$7,000	154	292	193	447		14,059	18,094	20,993
\$7,000, under \$8,000	90	217	130	262		12,466	10,887	13,083
\$8,000, under \$9,000	66	140	109	186	} 6,110	8,059	10,431	11,342
\$9,000, under \$10,000	59	119	69	125		6,110	12,793	12,552
\$10,000, under \$15,000	136	289	140	305	2,326	11,803	52,871	56,096
\$15,000, under \$20,000	59	117	68	116	579	2,253	26,806	31,559
\$20,000, under \$25,000	40	79	33	78	348	941	10,239	13,173
\$25,000, under \$30,000	16	34	32	39	199	} 1,444	3,953	4,698
\$30,000, under \$50,000	51	86	43	55	196		2,380	5,411
\$50,000, under \$100,000	47	51	35	38	95	323	1,317	1,480
\$100,000 and over	11	28	7	5	25	83	295	308
Median income (dollars)	2,608	2,970	2,037	2,296	2,450	3,556	6,273	6,928

NS Estimate not shown separately because of high sampling variability.

¹Net income classes, 1919-1939; adjusted gross income classes, 1949 and later. Includes nontaxable returns. Single persons, or married and not living with spouse, were required to file returns if their net incomes exceeded \$1,000 in 1919, \$1,500 in 1929, or \$1,000 in 1939; married persons living with spouse were required to file if their net incomes exceeded \$2,000 in 1919, \$3,500 in 1929, or \$2,500 in 1939. Anyone with gross income over \$600 was required to file a return in 1949 and later years (with certain exceptions).

Source: U.S. Department of the Treasury, Internal Revenue Service, *Statistics of Income* (annual).

Table 161.—STATE INCOME TAX RESIDENT RETURNS FOR 1970, BY ADJUSTED GROSS INCOME CLASSES

Adjusted gross income class	Number of returns ¹	Adjusted gross income ² (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
Total	304,365	2,645,390	1,743,908	108,446
Taxable returns	246,522	2,533,835	1,705,870	106,460
\$500 to \$4,999	77,227	192,483	105,621	4,040
\$5,000 to \$9,999	66,469	491,471	316,742	16,553
\$10,000 to \$14,999	50,064	619,866	408,634	23,620
\$15,000 to \$19,999	28,276	487,198	332,891	21,002
\$20,000 to \$24,999	12,750	281,955	200,011	13,678
\$25,000 to \$49,999	9,991	315,471	232,449	17,579
\$50,000 to \$99,999	1,438	94,449	72,161	6,386
\$100,000 to \$149,999	193	22,611	17,160	1,625
\$150,000 and over	114	28,330	20,201	1,977
Non-taxable returns	36,134	38,922	—	—
Loss	747	-4,104	—	—
Under \$500	16,716	4,228	—	—
\$500 to \$4,999	17,727	26,041	—	—
\$5,000 and over	944	8,653	—	—
Non-resident returns	21,709	72,632	38,038	1,987

¹The median for taxable returns was \$8,348 (\$3,981 for single returns and \$13,072 for joint returns); for taxable and non-taxable returns combined, it was \$7,018 (\$2,969 for single returns and \$12,358 for joint returns).

²Totals and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns 1970. Individuals* (May 1973), pp. 5 and 14.

Table 162.—FEDERAL OUTLAYS IN HAWAII: FISCAL 1972

Federal agency	Outlay
State total	\$1,173,339,871
Department of Agriculture	35,929,094
Department of Commerce	6,023,545
Department of Defense	669,999,000
Department of Health, Education and Welfare	212,825,973
Department of Housing and Urban Development	18,153,776
Department of the Interior	6,633,815
Department of Justice	3,917,510
Department of Labor	22,391,678
Department of State	4,729,345
Department of Transportation	77,585,688
Treasury Department	28,290,212
Action	320,942
Agency for International Development	2,054,007
Atomic Energy Commission	1,245,598
Civil Service Commission	35,228,118
Environmental Protection Agency	1,653,126
Federal Communications Commission	150,909
General Services Administration	4,279,205
National Aeronautics and Space Administration	2,903,625
National Foundation on Arts and Humanities	307,607
Office of Economic Opportunity	2,822,438
Railroad Retirement Board	837,218
Small Business Administration	683,813
U.S. Information Agency	5,154
Veterans Administration	29,739,005
Water Resources Council	63,700
American Battle Monuments Commission	33,140
Federal Mediation and Conciliation Service	34,550
Federal Trade Commission	36,782
National Labor Relations Board	100,390
National Science Foundation	3,992,619
Selective Service System	350,310
Tennessee Valley Authority	17,979

Source: Office of Economic Opportunity, *Federal Outlays in Hawaii, Fiscal Year 1972* (OEOOSL-73-12).

Table 163.—PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1949 TO 1972
(As of December 31. In millions of dollars.)

Year	Total outstanding	Governmental unit and funds charged with debt service costs	Amount outstanding Dec. 31, 1971		
			Total	Issued by State	Issued by counties
1949	39.5	Total, State and counties	1,080.4	813.7	266.7
1950	63.9				
1951	69.2	State	804.1	804.1	—
1952	84.0	General Fund	424.2	424.2	—
1953	96.8	Highway Fund	88.2	88.2	—
1954	102.2	Airport Fund	17.8	17.8	—
1955	106.7	Harbor Fund	15.3	15.3	—
1956	143.2	Land Revolving Fund	4.7	4.7	—
1957	184.8	Veterans' Loan Fund	7.7	7.7	—
1958	214.4	Airport revenues ¹	210.1	210.1	—
1959	273.8	Harbor revenues ¹	28.1	28.1	—
		All others ²	8.0	8.0	—
1960	285.6				
1961	306.8	City and County of Honolulu	215.8	6.6	209.1
1962	312.7	General Fund	140.6	6.6	133.9
1963	386.5	Highway Fund	23.8	—	23.8
1964	423.6	Water Fund	13.6	—	13.6
1965	454.1	Water revenues ¹	24.3	—	24.3
1966	412.3	Others	13.5	—	13.5
1967	472.9	County of Maui	24.6	0.3	24.3
1968	533.8	General Fund	21.1	0.3	20.8
1969	631.3	Others ²	3.6	—	3.6
1970	742.0	County of Hawaii	26.3	2.4	23.9
1971	925.5	General Fund	25.5	2.3	23.3
1972	1,080.4	Others ²	0.8	0.1	0.7
		County of Kauai	9.6	0.3	9.3
		General Fund	8.6	0.3	8.3
		Others	1.0	0.1	1.0

¹Revenue bonds.

²Includes revenue bonds.

Source: Tax Foundation of Hawaii, *A Compendium of Governmental Finances in Hawaii, 1949-1968*, p. 71, and *Government in Hawaii* for 1970 (p. 59), 1971 (p. 59), 1972 (p. 59), and 1973 (p. 59).

Table 164.—FEDERAL, STATE, AND COUNTY EMPLOYMENT: 1889 AND 1939 TO 1973

Year (annual average unless otherwise specified)	Full-and part-time civilian employment					Armed Forces ashore ¹
	Total civilian govt. employ.		Federal	Kingdom, Territory, or State	City and County	
	Number	Percent ²				
1889: Aug. 31	(NA)	(NA)	(NA)	1,796	—	33
1939	20,495	(NA)	9,642	5,990	4,863	23,502
1944 ³	78,617	36.9	66,809	6,550	5,258	378,322
1949	40,119	23.1	24,082	9,392	6,645	25,603
1954	39,082	21.1	21,966	10,009	7,107	36,000
1959	48,320	22.4	26,200	14,290	7,830	45,000
1960	49,510	21.7	27,010	14,620	7,880	42,000
1961	50,390	21.6	27,290	15,030	8,070	45,000
1962	51,170	21.8	27,770	15,070	8,330	48,000
1963	52,890	22.2	27,910	16,430	8,550	48,000
1964	54,440	22.0	28,440	17,150	8,850	51,000
1965	57,840	22.3	29,690	18,880	9,270	48,000
1966	62,630	23.0	31,620	21,260	9,750	41,000
1967	66,340	23.4	33,900	22,630	9,810	41,000
1968	69,230	23.3	34,970	24,420	9,840	42,000
1969	71,130	22.4	34,690	26,090	10,350	41,000
1970	73,640	21.8	33,380	30,600	9,660	42,000
1971	78,220	22.7	32,920	34,920	10,380	40,000
1972	79,420	22.6	32,700	35,290	11,430	(NA)
1973: May 12	79,800	22.3	31,950	37,200	10,650	(NA)

NA Not available

¹Excludes Naval personnel aboard ships. The 1889 figure is the authorized strength of the King's Guard, and excludes two battalions of volunteers (with a maximum authorized strength of 520) created in 1888 and abolished in 1890.

²Total civilian government employment as a percent of total civilian employment.

³Peak year of World War II.

Source: Data for 1889 from Thos. G. Thrum, ed., *Hawaiian Almanac and Annual for 1890*, p. 11, and Ralph S. Kuykendall, *The Hawaiian Kingdom*, Vol. III, 1874-1893, *The Kalakaua Dynasty* (1967), pp. 421, 432, and 465-466; 1939-1949 from the U.S. Office of Business Economics, *Income of Hawaii* (1953), p. 20, and estimates of total civilian employment by the Hawaii Territorial Department of Labor and Industrial Relations; 1954 and later years from the Hawaii State Department of Labor and Industrial Relations, *Labor Force Estimates* (monthly and annual) and data on Armed Forces supplied by the U.S. Bureau of Economic Analysis.

**Table 165.—EMPLOYMENT AND PAYROLLS OF STATE AND LOCAL GOVERNMENTS:
OCTOBER 1967**

Subject	State and local governments	State	Local governments ¹		
			Total ²	City & Co. of Honolulu	Other Counties
Number of employees	35,257	26,196	9,061	6,090	2,969
Full-time	31,023	22,237	8,786	5,924	2,862
Part-time	4,234	3,959	275	166	107
Full-time equivalent employment	31,932	23,082	8,850	5,973	2,877
Education	15,911	15,911	—	—	—
Functions other than education	16,021	7,171	8,850	5,973	2,877
October payrolls (\$1,000)	19,292	13,964	5,328	3,650	1,678
Education	9,566	9,566	—	—	—
Other than education	9,725	4,397	5,328	3,650	1,678
Median annual rate of pay (dollars)	6,827	6,913	6,687	6,719	6,622
Teachers	8,552	8,552	—	—	—
Other than teachers	(NC)	5,921	6,687	6,719	6,622

NC Not computed.

¹The 1967 Census of Governments reports data for 19 local governments in Hawaii: one municipality (the City and County of Honolulu), three Counties (Hawaii, Kauai, and Maui), and 15 special districts (three soil conservation districts on Oahu and 12 on other Islands).

²Includes data for the 15 special districts, not shown separately in this table.

Source: U.S. Bureau of the Census, *Census of Governments, 1967*. Vol. 7: *State Reports*, No. 11: *Hawaii* (1970), pp. 13, 14, 16, and 17.

SECTION 14

WELFARE SERVICES

This section presents data on government and private programs for social insurance and public welfare.

Total public welfare costs reached \$94,212,000 in fiscal 1972, compared with \$11,618,000 in 1962 and \$1,382,000 in 1942. About 59.5 percent of the 1972 total came from State funds and the remainder from the Federal government. The monthly average number of individuals served by major welfare programs in 1972 was 57,462, or 7.3 percent of the population of the State as of the beginning of the year. The average monthly payment for public assistance was \$221. Among workers receiving unemployment compensation in 1970, weekly benefits averaged \$56. More than 70,900 Hawaii residents received Social Security benefits as of the end of 1971. Over 47,500 were enrolled for Medicare benefits. Expenditures of the Aloha United Fund amounted to \$4.6 million in 1971.

Major data sources include reports of the U.S. Department of Health, Education, and Welfare, the U.S. Department of Labor, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employee's Retirement System, and the Aloha United Fund. Section 10 of the *Statistical Abstract of the United States: 1972* presents comparable Mainland data.

Table 166.—SOCIAL WELFARE COSTS: 1939 TO 1972

Year ended June 30	Total costs		By source of funds		By expenditure category		
	Amount (\$1,000)	Per capita (dollars) ¹	Federal (\$1,000)	State (\$1,000)	Administration (\$1,000)	Medical payments ² (\$1,000)	Money payments (\$1,000)
1940	1,124	2.86	319	805	176	—	956
1941	1,401	3.52	426	975	208	—	1,193
1942	1,382	3.36	406	976	261	—	1,121
1943	1,350	3.03	359	991	331	—	1,019
1944	1,801	4.00	361	1,440	372	366	1,063
1945	2,058	4.55	368	1,690	392	540	1,126
1946	2,434	5.29	408	2,026	515	613	1,306
1947	3,738	7.79	693	3,045	730	920	2,088
1948	4,291	8.80	1,038	3,253	727	599	2,966
1949	5,228	10.80	1,532	3,696	791	452	3,985
1950	8,076	16.81	2,276	5,800	880	555	6,641
1951	9,425	19.72	2,911	6,514	954	699	7,772
1952	7,439	15.83	2,872	4,567	971	—	6,469
1953	7,189	15.62	3,164	4,025	946	—	6,243
1954	6,379	13.79	3,154	3,225	953	—	5,426
1955	7,638	16.33	3,518	4,120	974	—	6,664
1956	8,073	16.73	3,540	4,534	899	499	6,676
1957	7,909	15.78	3,604	4,306	981	420	6,508
1958	8,193	15.61	3,813	4,380	1,100	563	6,530
1959	8,578	15.59	3,992	4,586	1,143	581	6,854
1960	9,329	16.50	4,032	5,297	1,363	1,158	6,808
1961	9,489	16.29	4,090	5,398	1,339	1,277	6,873
1962	11,618	19.43	5,118	6,500	1,736	2,699	7,183
1963	12,697	21.00	5,897	6,800	1,667	3,100	7,931
1964	14,381	23.10	6,472	7,909	2,089	4,206	8,085
1965	14,673	23.41	6,404	8,269	2,146	4,356	8,171
1966	19,955	30.68	8,034	11,921	2,580	6,390	10,985
1967	23,704	36.44	10,869	12,835	2,642	7,396	13,666
1968	29,565	45.05	12,941	16,624	2,951	10,297	16,318
1969	35,706	52.71	15,167	20,539	3,272	12,948	19,486
1970	46,566	66.36	20,396	26,170	3,730	16,421	26,415
1971	67,645	93.95	27,769	39,876	5,483	23,926	38,236
1972	94,212	127.38	38,143	56,069	6,324	34,278	53,610

¹Based on civilian population at beginning of fiscal year; for example, per capita costs for 1940 are based on estimated civilian population as of July 1, 1939. Population from the Hawaii State Department of Planning and Economic Development, Statistical Reports 81 (table 2) and 95 (table 1).

²Expenditures by the Department of Public Welfare or Department of Social Services and Housing. Beginning in 1944, the Department's program was limited to payment of hospital care, dental care and burial, and county departments were authorized to provide medical care. In 1952 responsibility for medical care was transferred to the Department of Health and the Department of Public Welfare participated in "Premium Payment Plan" for indigents only for hospital care in order to obtain Federal funds. Effective January 1960, the Medical Care Program for Indigents and Medically Indigents was established under the Department of Social Services, and the Department of Health and County departments were no longer responsible.

Source: Hawaii State Department of Social Services and Housing, records.

**Table 167.—PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED
BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING:
1940 TO 1972, MONTHLY AVERAGES**

Year ended June 30	Major programs ¹		Service cases	Medical payments		Average payments ² (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1940	4,199	8,719	483	—	—	—	9.15
1941	4,749	9,895	810	—	—	—	10.11
1942	4,539	8,647	1,549	—	—	—	10.98
1943	3,686	6,315	1,507	—	—	—	13.76
1944	3,399	5,589	1,537	—	—	—	15.85
1945	3,227	5,205	1,764	—	—	—	18.04
1946	3,267	5,446	1,264	—	—	—	20.44
1947	3,951	6,905	1,351	—	—	—	25.41
1948	4,982	9,389	1,458	—	—	—	26.89
1949	6,354	12,963	1,722	—	—	—	26.09
1950	9,933	22,577	1,880	—	—	—	25.02
1951	11,357	24,732	1,901	—	—	—	26.88
1952	9,835	20,816	2,022	—	—	—	27.35
1953	9,230	19,201	1,790	—	—	—	27.88
1954	7,968	16,479	1,244	—	—	—	27.78
1955	9,087	19,526	985	—	—	—	28.68
1956	9,159	19,824	820	—	—	—	28.22
1957	8,123	17,416	921	—	—	—	31.43
1958	7,575	16,752	954	—	—	—	32.77
1959	7,187	15,925	936	—	—	—	36.22
1960	6,764	14,974	962	—	—	—	38.19
1961	6,537	14,661	967	—	—	—	39.48
1962	6,599	15,898	1,378	—	—	91.59	37.91
1963	6,897	17,300	1,463	—	—	96.75	37.70
1964	6,931	17,722	1,696	—	—	97.21	38.02
1965	6,807	17,634	1,474	—	—	100.03	38.62
1966	7,383	19,136	1,457	—	—	123.99	47.84
1967	8,581	22,350	1,311	—	—	132.71	50.96
1968	10,043	26,337	961	—	—	137.39	52.39
1969	11,013	28,845	926	2,492	2,700	147.86	56.45
1970	12,940	34,320	900	2,942	3,370	170.17	64.14
1971	16,467	44,897	743	4,073	4,496	198.20	72.69
1972	20,627	57,462	1,767	4,068	5,672	220.79	79.26

¹Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance.

²Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 168.—PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1971 AND 1972
(Years ended June 30)

Program	Total payments (\$1,000)		Number of recipients (monthly average)		Average monthly pay- ment (dollars)	
	1971	1972	1971	1972	1971	1972
All programs	39,164	54,651	16,467	20,627	198	221
Old age assistance	2,763	3,281	2,392	2,691	96	102
Aid to the blind	109	127	71	80	127	133
Aid to disabled	3,051	3,603	1,882	2,083	135	144
Aid to families with de- pendent children ¹	25,921	35,983	8,418	10,639	257	282
Child welfare foster care	845	967	564	577	125	140
General assistance	6,745	10,690	3,139	4,557	172	195

¹Includes AFDC unemployed parent and AFDC foster care.
Source: Hawaii State Department of Social Services and Housing, records.

Table 169.—SOCIAL SECURITY RECIPIENTS AND BENEFITS: 1940 TO 1971

Year	Number of recipients at end of year	Monthly amount payable at end of year (\$1,000)	Total amount paid during year ¹ (\$1,000)
1940	621	9	73
1945	3,731	61	614
1950	8,322	270	2,318
1955	17,978	833	10,110
1960	30,415	1,771	21,127
1961	34,533	2,084	24,555
1962	37,804	2,325	28,345
1963	40,719	2,557	30,814
1964	43,068	2,751	33,250
1965	46,861	3,254	38,751
1966	53,392	3,647	43,906
1967	57,254	4,584	48,368
1968	59,815	4,826	57,879
1969	62,824	5,182	63,893
1970	66,488	6,437	77,593
1971	70,912	7,666	92,440

¹Includes also retroactive benefits and lump-sum death payments.
Source: U.S. Department of Health, Education, and Welfare, Social Security Administration, Office of Research and Statistics, Division of OASDI Statistics, records.

Table 170.—MEDICARE ENROLLMENT AND REIMBURSEMENTS: 1966 TO 1971

Year	Hospital and/or Medical Insurance		Hospital Insurance		Supplementary Medical Insurance	
	Number of persons enrolled, July 1	Amount reimbursed (dollars)	Number of persons enrolled July 1	Amount reimbursed (dollars)	Number of persons enrolled July 1	Amount reimbursed (dollars)
1966 ¹	37,443	—	37,307	—	35,888	—
1967 ²	39,170	11,528,000	39,051	8,738,000	37,068	2,790,000
1968	41,510	12,006,000	41,289	8,503,000	40,223	3,503,000
1969	43,350	13,638,000	43,020	9,865,000	42,062	3,773,000
1970	45,232	14,318,000	44,737	10,233,000	44,033	4,085,000
1971	47,563	15,194,000	46,939	10,521,000	46,224	4,673,000

¹Services benefits began July 1, 1966. Reimbursements during July-December 1966 included with reimbursements for 1967.

²Reimbursement data refer to 18-month period, July 1966—December 1967.

Source: U.S. Department of Health, Education, and Welfare, Social Security Administration, Office of Research and Statistics, Division of OASDI Statistics, records.

Table 171.—DISABILITY OF PERSONS 16 TO 64 YEARS OLD: 1970

Disability status	Persons
Persons 16 to 64, not in institutions or attending school	417,422
Disabled or handicapped	30,718
In labor force	15,862
Not in labor force	14,856
Cannot work	10,708
Disabled 6 months or more	9,768

Source: *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 52.

**Table 172.—VOCATIONAL REHABILITATION, CHILD LABOR, AND
UNEMPLOYMENT COMPENSATION: 1972**

Subject	Number
VOCATIONAL REHABILITATION¹	
Disabled persons rehabilitated	870
Federal funds (\$1,000)	2,106
CHILD LABOR CERTIFICATES (1971¹)	
Number issued	15,840
Boys	9,184
Girls	6,656
Under 13 years of age	168
14 or 15 years of age	3,668
16 or 17 years of age	11,996
18 years of age and older	8
UNEMPLOYMENT COMPENSATION	
Number of workers covered	321,751
Wages paid (\$1,000)	2,569,528
Taxable wages (\$1,000)	1,191,277
Gross contributions (\$1,000)	22,787
Gross benefits paid (\$1,000)	37,865
Average weekly benefits (dollars)	65.80

¹Year ended June 30.

Source: Hawaii State Department of Social Services and Housing, records; Hawaii State Department of Labor and Industrial Relations, records.

Table 173.—HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1926 TO 1972

Year	Membership, March 31 ¹	Pensioners, March 31 ¹	Assets, June 30 (\$1,000)	Total benefits paid ² (\$1,000)	Administration expenses ² (\$1,000)
1926 ³	2,028	84	125	42	17
1930	4,524	174	2,666	185	23
1940	8,352	274	10,958	395	28
1950	16,120	824	52,549	1,460	108
1960	24,092	1,971	141,162	4,071	176
1966	31,492	3,611	257,504	10,323	219
1967	33,764	4,176	282,388	13,287	245
1968	35,370	4,625	316,038	15,257	253
1969	36,445	5,169	351,771	22,651	294
1970	38,912	5,641	388,561	22,822	337
1971	42,262	6,069	435,464	25,665	419
1972	43,736	6,667	489,437	31,359	479

¹June 30 for 1926-1960.

²Year ended June 30. Benefits data exclude Pensioners' Bonus and Social Security.

³The System began operations January 1, 1926.

Source: Hawaii State Employees' Retirement System, *47th Annual Report, June 30, 1972* (Publication No. 44), p. 17.

Table 174.—ALOHA UNITED FUND REVENUE AND EXPENDITURES: 1967 TO 1971

Year	Support and revenue (\$)		Expenditures (\$)	
	Total	Campaign contributions ¹	Total	Allocations to agencies
1967	3,450,332	3,553,920	3,101,230	2,880,984
1968	4,013,848	3,835,104	3,499,445	3,266,414
1969	3,975,406	4,036,075	3,892,922	3,605,892
1970	4,377,883	4,507,229	4,277,561	3,963,195
1971	4,714,072	4,862,764	4,615,511	4,265,374

¹Before adjustment for uncollectible allowance.

Source: Aloha United Fund, *Annual Report, 1967-1971*.

SECTION 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and savings and loan associations, insurance, and business firms.

Deposits in Island banks reached \$2.0 billion in 1972, compared with \$673 million in 1960, \$123 million in 1940, and \$4.7 million in 1901. Assets of savings and loan associations stood at \$1.1 billion in 1972, more than five times their 1960 level and 142 times as great as in 1940. Eighty-two percent of the households on Oahu had savings accounts in 1972 and 74 percent had checking accounts.

Life insurance in force in Hawaii at the end of 1971 amounted to \$8.1 billion, triple the figure reported eleven years earlier and thirty-eight times the 1940 coverage. For all insurance companies doing business in the Islands, Hawaii premiums amounted to \$277 million in 1971 and losses, claims, and benefits paid came to only \$120 million. Persons covered by prepaid health insurance plans as of January 1971 numbered 787,000—685,000 on a group basis and 102,000 on an individual basis—but these totals were not adjusted for duplication.

By mid-1972, some 17,400 corporations and partnerships were registered to do business in Hawaii: 11,558 local (“domestic”) corporations, 2,154 Mainland (“foreign”) corporations, and 3,736 partnerships. Business units with one or more employees as of the first quarter of 1971 numbered 12,526, including 762 with fifty or more employees. During fiscal 1972, 1,602 new local corporations were formed and 647 existing local corporations were dissolved or merged.

Sources for statistics on these subjects include the Hawaii State Department of Regulatory Agencies (specifically its Bank Examination, Insurance, and Business Registration Divisions), Hawaii State Department of Labor and Industrial Relations, and the annual report on *County Business Patterns* issued by the U.S. Bureau of the Census. Comparable Mainland data appear in Sections 16 and 17 of *Statistical Abstract of the United States: 1972*.

Table 175.—BANKING, INSURANCE, AND STOCK TRANSACTIONS: 1901 TO 1972
(In thousands of dollars)

Year	Banks			Savings and loan assoc.		Insurance ¹			Stocks and bonds traded, Hon. Stock Exchange ²
	Assets, June 30	Deposits, June 30	Clearings, cal. yr.	Assets, June 30	Deposits, June 30	Premiums, cal. yr.		Life insurance in force, Dec. 31	
						Total	Life		
1901	—	4,662	—	—	—	—	—	—	—
1902	—	5,168	—	—	—	—	—	—	—
1903	—	4,798	—	—	—	914	452	—	1,038
1904	—	5,531	—	—	—	1,077	481	—	—
1905	—	5,688	—	—	—	1,182	500	—	—
1906	—	7,550	—	—	—	1,166	518	13,521	2,837
1907	—	7,744	—	—	—	1,152	498	13,745	2,833
1908	—	7,664	—	—	—	1,163	494	13,804	2,354
1909	—	9,658	—	—	—	1,321	498	13,949	6,489
1910	—	13,324	—	—	—	1,391	528	14,857	10,128
1911	—	15,310	—	—	—	1,508	543	15,569	5,632
1912	—	18,189	—	—	—	1,634	629	17,724	11,381
1913	—	17,206	—	—	—	1,655	700	19,449	4,527
1914	—	16,648	—	—	—	1,674	712	20,006	1,651
1915	—	20,115	—	—	—	1,872	785	21,924	6,629
1916	—	26,379	—	—	—	2,173	932	24,562	19,093
1917	—	32,692	—	—	—	2,855	1,220	29,565	6,390
1918	—	34,513	—	387	—	3,280	1,360	32,241	2,736
1919	—	35,349	—	—	—	3,603	1,494	35,711	12,496
1920	—	52,783	—	—	—	5,071	1,872	45,164	21,890
1921	—	51,181	—	—	—	4,381	2,061	49,132	7,163
1922	—	46,243	—	—	—	4,429	2,268	55,740	10,880
1923	—	53,382	—	—	—	4,961	2,535	66,174	11,235
1924	—	56,496	—	—	—	5,832	2,894	70,700	8,212
1925	—	60,810	—	—	—	6,073	3,108	79,073	11,526
1926	—	67,851	—	—	—	6,336	3,345	86,663	10,226
1927	—	75,024	—	—	—	6,895	3,571	93,150	13,838
1928	—	80,210	—	3,329	—	7,338	3,892	105,254	10,664
1929	—	79,039	—	—	—	8,151	4,459	115,670	10,178
1930	—	80,175	—	4,233	—	7,939	4,675	123,978	7,852
1931	—	83,806	—	—	—	8,236	5,020	134,749	5,191
1932	—	73,684	—	5,211	—	7,861	4,910	136,850	2,502
1933	—	74,355	—	—	—	7,182	4,420	134,821	4,755
1934	93,523	75,952	—	5,287	—	7,580	4,570	137,512	5,169
1935	100,427	83,903	—	—	—	8,488	5,218	145,132	8,008
1936	111,251	94,908	—	4,785	3,910	6,688	5,303	153,529	8,904
1937	120,282	103,201	—	5,586	4,793	7,554	5,691	168,565	6,984
1938	126,952	108,451	—	6,134	5,254	7,597	6,051	182,713	4,045
1939	124,897	111,361	—	6,742	5,638	9,398	6,624	198,812	3,977
1940	137,489	123,296	—	7,663	6,452	9,861	6,797	211,284	3,677

(Continued on next page)

Table 175.—BANKING, INSURANCE, AND STOCK TRANSACTIONS: 1901 TO 1972 (continued)
(In thousands of dollars)

Year	Banks			Savings and loan assoc.		Insurance ¹			Stocks and bonds traded, Hon. Stock Exchange ²
	Assets, June 30	Deposits, June 30	Clearings, cal. yr.	Assets, June 30	Deposits, June 30	Premiums, cal. yr.		Life insurance in force, Dec. 31	
						Total	Life		
1941	167,784	152,762	680,446	8,866	7,526	12,270	7,163	239,582	3,810
1942	214,381	200,027	839,084	10,228	9,309	18,062	7,898	249,204	3,164
1943	324,808	309,877	1,192,621	13,273	12,317	16,847	8,837	277,511	5,906
1944	418,685	402,409	1,558,841	17,071	15,482	18,791	9,869	312,160	6,985
1945	512,149	493,296	1,710,172	20,733	19,022	18,951	11,060	341,010	8,870
1946	522,784	502,544	1,447,207	25,732	23,027	20,612	12,662	395,759	7,472
1947	473,923	452,202	1,679,939	29,522	25,566	28,429	14,786	480,180	6,061
1948	439,166	417,536	1,785,357	32,860	27,981	32,119	16,563	554,739	5,052
1949	412,863	390,149	1,642,927	36,098	31,172	32,487	17,799	614,684	3,755
1950	400,031	376,456	1,815,958	43,336	36,826	35,521	19,247	707,063	5,349
1951	392,951	368,038	2,081,695	49,048	41,214	39,775	20,891	801,460	6,511
1952	407,825	381,211	2,246,312	55,679	47,571	44,005	23,668	924,782	6,399
1953	412,360	384,314	2,477,347	65,127	56,303	49,473	26,214	1,054,853	6,828
1954	422,430	392,179	2,615,371	80,466	71,662	52,417	28,150	1,247,510	8,643
1955	418,498	386,749	2,838,904	99,028	87,245	56,319	31,281	1,446,976	8,737
1956	428,471	395,392	3,187,589	117,186	103,098	60,178	33,612	1,620,086	8,858
1957	481,299	455,611	3,553,661	136,162	118,437	65,068	36,012	1,826,498	7,658
1958	565,464	522,824	3,737,260	150,940	131,740	72,262	38,972	2,078,987	10,132
1959	666,138	614,510	4,287,810	166,111	144,645	80,518	41,683	2,232,582	14,521
1960	735,652	672,866	4,959,892	202,200	165,653	91,387	45,607	2,555,929	11,412
1961	843,084	769,200	5,656,596	228,476	188,179	97,782	50,003	2,873,220	25,378
1962	934,438	842,596	6,425,844	263,781	220,120	105,597	54,166	3,265,933	20,422
1963	934,223	838,080	6,842,960	322,674	273,288	116,263	59,230	3,593,592	20,141
1964	991,432	887,057	6,710,284	395,586	322,355	124,287	63,318	3,760,033	15,163
1965	1,081,588	940,834	7,155,161	460,454	365,211	137,331	69,315	4,212,206	14,988
1966	1,201,515	1,001,426	7,585,786	490,130	387,152	149,321	74,127	4,697,954	11,329
1967	1,263,917	1,110,733	7,700,654	514,407	424,005	162,102	80,217	5,102,132	16,716
1968	1,440,891	1,287,166	9,281,829	569,325	480,137	179,236	85,713	5,874,280	13,449
1969	1,669,606	1,499,459	11,190,757	650,398	528,570	207,184	91,402	6,632,539	11,679
1970	1,762,811	1,558,671	13,286,842	730,712	584,017	246,986	98,360	7,441,077	8,590
1971	2,062,194	1,804,545	15,091,524	869,323	716,674	276,707	106,524	8,127,837	5,533
1972	2,252,841	2,000,685	16,839,868	1,085,455	878,334	(NA)	(NA)	(NA)	3,986

NA Not available.

¹Data on premiums for years before 1947 refer to net premiums written; for 1947 and later years, to total direct premiums written. Life insurance data for 1962 and later years include fraternal.

²Market value of stocks and bonds traded on the Honolulu Stock Exchange. Calendar years.

Source: *Report of the Treasurer, 1929-1959*; Department of Regulatory Agencies, Bank Examination Division, records; *Report of the Insurance Commissioner, 1903-1972*; Honolulu Stock Exchange, records.

Table 176.—ASSETS AND LIABILITIES OF BANKS AND SAVINGS AND LOAN ASSOCIATIONS: DECEMBER 31, 1960 TO 1972

(In thousands of dollars)

Subject	1960	1965	1970	1971	1972
BANKS					
Total assets	813,618	1,155,117	1,917,915	2,169,032	2,429,329
Loans and discounts	400,109	667,133	1,163,467	1,267,036	1,495,600
U.S. govt. and other securities	248,905	282,558	449,642	545,885	578,743
Cash and due from banks	143,400	144,138	215,527	251,520	258,012
Fixed assets	12,105	27,476	43,846	48,204	46,223
Other assets	9,099	33,812	45,433	56,387	50,751
Total liabilities and capital	813,618	1,155,117	1,917,915	2,169,032	2,429,329
Demand deposits	275,452	373,402	608,810	703,398	809,912
Time and other deposits	467,844	632,113	1,088,352	1,235,147	1,384,515
Other liabilities	12,275	62,838	84,695	83,413	201,845
Capital	58,047	86,734	136,057	147,074	33,057
SAVINGS AND LOAN ASSOCIATIONS					
Total assets	210,993	482,067	778,909	978,530	1,217,632
Mortgage loans	185,034	423,603	678,688	854,183	1,061,068
Other loans	4,713	8,750	14,212	17,246	20,341
U.S. govt. and other securities	10,082	17,418	46,471	58,986	74,670
Fixed assets	2,693	8,361	16,282	18,345	20,999
Cash on hand and in banks	7,940	19,687	12,134	15,794	20,409
Other assets	531	4,248	11,122	13,976	20,145
Total liabilities	210,993	482,067	778,909	978,530	1,217,632
Withdrawal shares	175,040	364,036	576,044	716,886	886,063
Withdrawable deposits & invest. certificates ...	277	14,034	49,868	63,603	71,515
Reserves	15,728	27,898	37,346	38,458	38,784
Surplus and undivided profits	977	5,718	22,061	29,936	41,343
Other liabilities	18,971	70,381	93,590	129,647	179,927

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division, tabular releases.

Table 177.—PERCENT OF OAHU HOUSEHOLDS WITH SAVINGS ACCOUNTS, CHECKING ACCOUNTS, AND CREDIT CARDS: 1970 TO 1972

Year	Percent with savings accounts	Percent with checking accounts	Percent with major credit cards	
			Including gasoline	Excluding gasoline
1970	79.7	76.0	—	42.5
1971	87.4	81.2	—	45.8
1972	82.0	73.7	53.3	—

Source: Hawaii Newspaper Agency, Inc., *Continuing Home Audit, 1972*.

Table 178.—INSURANCE: 1971

Class of insurance	Premiums (\$1,000)	Losses, claims and benefits paid (\$1,000)	Subject ¹	Amount, Dec. 31 (\$1,000)
All insurance	276,707	119,880	Assets	238,658,855
Life	106,369	45,287	Liabilities excluding capital & surplus	211,607,627
Fraternal	155	14	Policyholders' surplus, ind. capital	27,051,229
Fire, marine, casualty, miscell.	169,023	74,487	Capital	1,763,150
Accident and health	26,556	12,825	Investments, total ²	1,168,952
Fire	7,981	3,274	Mortgage loans	672,944
Automobile	73,015	35,398	Collateral loans	404
Workmen's compensation	23,593	11,826	State, county bonds	122,715
Fidelity and surety	3,968	194	Utility stocks, bonds	118,373
Marine	5,656	1,956	Other stocks, bonds	241,542
Other types	28,255	9,014	Real estate	12,974
Surplus lines	1,160	91		

Type of life insurance	Policies written (\$1,000)	Policies transferred (net) (\$1,000)	Policies terminated (\$1,000)	Policies in force, Dec. 31		Premiums received ³ (\$1,000)	Claims and benefits paid (\$1,000)
				Number	Amount (\$1,000)		
All life insurance	1,496,215	+69,057	634,476	467,069	8,127,837	106,524	45,301
Ordinary	835,491	+63,628	415,255	455,817	4,589,788	81,521	29,322
Group	656,858	+5,686	217,911	1,700	3,523,089	24,798	15,888
Industrial	387	-5	457	7,889	3,663	50	77
Fraternal	3,478	-253	853	1,663	11,297	155	14

¹For all insurance companies authorized to transact business in Hawaii.

²Hawaii investments only. Stocks, bonds, and real estate at market value.

³Includes \$14,111 by Hawaii companies, \$81,377 by Mainland ("foreign") companies, and \$11,036 by non-U.S. ("Alien") companies.

Source: *Report of the Insurance Commissioner of Hawaii, 1972* pp. 7, 16, 34, 50-51.

Table 179.—PERSONS COVERED BY PREPAID HEALTH PLANS: JANUARY 1971
(Not adjusted for duplication)

Plan	Group basis			Individual basis		
	Total	Subscribers	Dependents	Total	Subscribers	Dependents
Hawaii Medical Service						
Association ¹	353,007	128,776	224,231	28,236	20,218	8,018
Kaiser ¹	78,252	28,309	49,943	8,855	4,932	3,923
Commercial carriers:						
Hospital	90,006	35,585	54,421	34,704	19,836	14,868
Surgical	83,817	33,938	49,879	20,587	10,358	10,229
Medical	80,158	32,083	48,075	9,336	5,064	4,272

¹Provides hospital, surgical, and medical coverage.

Source: Stefan A. Riesenfeld, *Prepaid Health Care in Hawaii* (University of Hawaii, Legislative Reference Bureau, Report No. 2, 1971), table 1(a).

Table 180.—REGISTERED CORPORATIONS AND PARTNERSHIPS: 1910 TO 1972
(Number on record as of June 30. Excludes eleemosynary corporations.)

Year	Corporations ¹		Year	Corporations ¹		Partner- ships ²	Year	Corporations ¹		Partner- ships ²
	Domestic	Foreign		Domestic	Foreign			Domestic	Foreign	
1910	628	124	1935	—	71	355	1960	4,139	640	2,153
1911	—	—	1936	961	71	377	1961	4,794	722	2,276
1912	694	136	1937	938	74	405	1962	5,300	844	2,355
1913	—	—	1938	947	67	474	1963	5,789	867	2,331
1914	765	149	1939	984	67	541	1964	6,409	896	2,186
1915 ³	787	152	1940	929	68	584	1965	7,080	998	2,238
1916 ³	587	154	1941	943	82	707	1966	7,566	1,052	2,303
1917	596	153	1942	923	83	735	1967	7,996	1,131	2,132
1918	628	144	1943	864	80	807	1968	8,356	1,248	2,196
1919	675	152	1944	794	83	1,253	1969	9,035	1,492	2,492
1920	719	155	1945	767	84	1,951	1970	9,755	1,734	2,750
1921	785	163	1946	959	91	2,595	1971	10,603	1,939	3,160
1922	784	169	1947	1,158	119	2,993	1972	11,558	2,154	3,736
1923	801	172	1948	1,348	143	2,939				
1924	809	178	1949	1,490	159	2,801				
1925	851	180	1950	1,491	167	2,637				
1926	778	199	1951	1,511	187	2,675				
1927	817	194	1952	1,558	204	2,727				
1928	854	199	1953	1,657	236	2,184				
1929	855	206	1954	1,815	266	2,144				
1930	870	214	1955	1,979	311	2,145				
1931	904	78	1956	2,268	331	2,204				
1932	933	74	1957	2,568	344	2,088				
1933	948	71	1958	2,902	458	2,058				
1934	944	67	1959	3,345	529	2,013				

¹Hawaii corporations are termed "domestic;" Mainland and foreign corporations, "foreign."

²Not available before 1935.

³Statistics for 1910-1915 included many defunct corporations, which were deleted from the records following approval of Act 57, L. 1915, authorizing such action.

Source: *Report of the Treasurer to the Legislature, 1911-1957*; *Report of the Department of Treasury and Regulation, 1960*; Department of Regulatory Agencies, *Annual Report . . . 1968*, and records.

Table 181.—CHARACTERISTICS OF BUSINESS UNITS: 1946 TO 1971

Year ¹	Number of employees, mid-March pay period	Taxable payrolls, Jan.-Mar. (\$1,000)	Total reporting units	Number of reporting units by employment-size class								
				1 to 3 ²	4 to 7	8 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more	
1946	74,134	40,946	5,962		5,451		291	109		95		16
1947	84,399	54,343	6,401	3,649	1,326	844	329	122		105		26
1948	89,046	58,335	7,177	3,985	1,496	1,046	397	122		106		25
1951	89,851	61,902	7,584	4,358	1,521	1,026	420	127	84		28	20
1953	93,333	68,951	7,577	4,207	1,582	1,074	426	153	82		33	20
1956	95,953	74,203	8,171	4,478	1,658	1,260	488	153	87		31	16
1959	117,086	106,221	9,406	4,975	1,823	1,564	672	194	125		33	20
1962	134,927	139,901	10,059	5,070	2,044	1,695	791	260	139		38	22
1964	142,453	160,573	10,862	5,345	2,218	1,984	845	264	144		38	24
1965	151,633	175,334	11,242	5,424	2,307	2,076	910	300	161		41	23
1966	164,026	198,320	11,438	5,352	2,360	2,194	971	311	179		46	25
1967	170,877	213,174	11,609	5,366	2,427	2,253	969	334	184		45	31
1968	180,127	242,509	11,863	5,296	2,484	2,353	1,095	365	187		56	27
1969	196,343	283,081	12,046	5,268	2,449	2,462	1,190	369	220		56	32
1970	208,882	330,607	12,146	5,212	2,487	2,464	1,243	403	240		64	33
1971	214,916	351,722	12,526	5,351	2,570	2,585	1,258	424	236		70	32

¹Data not published for unlisted years.

²Interval shown as 0 to 19 in 1946 and 0 to 3 in 1947-1959. Data for 1962 and later years include establishments with no employees in the mid-March pay period if they reported any taxable payroll for the quarter.

Source: U.S. Department of Commerce, *Business Establishments, Employment and Taxable Payrolls Under Old Age and Survivors Insurance Program*, (annual, 1946 and 1947); U.S. Department of Commerce, *County Business Patterns* (irregular, 1948-1962; annual, 1964 and thereafter).

Table 182.—CHARACTERISTICS OF BUSINESS UNITS: 1971

County and industry group	Number of employees, mid-March pay period	Taxable payrolls, Jan.-Mar. (\$1,000)	Total reporting units	Number of reporting units, by employment-size class							
				1 to 3	4 to 7	8 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
Total	214,916	351,722	12,526	5,351	2,570	2,585	1,258	424	236	70	32
Counties:											
Hawaii	16,557	24,506	1,280	554	304	252	110	31	21	7	1
Honolulu	179,295	301,226	9,439	3,893	1,872	2,004	1,031	354	199	56	30
Kalawao	44	88	2	—	—	1	1	—	—	—	—
Kauai	6,721	8,919	496	236	103	93	40	11	10	3	—
Maui	10,031	13,291	799	338	191	168	63	28	6	4	1
Statewide	2,268	3,692	510	330	100	67	13	—	—	—	—
Major industry group:											
Agric. services, forestry, fisheries	957	1,093	142	68	31	33	8	2	—	—	—
Mining	475	948	11	4	1	1	1	3	1	—	—
Contract construction	22,587	57,180	1,163	428	246	237	151	60	32	7	2
Manufacturing: food & kindred products	13,083	21,785	201	39	37	48	32	15	19	7	4
Manufacturing, except food	14,913	28,574	468	104	89	123	81	42	19	8	2
Transportation & other public utilities	22,151	48,642	466	128	78	111	81	27	30	5	6
Wholesale trade	14,921	29,626	1,086	369	257	286	124	33	13	4	—
Retail trade	52,904	56,974	3,097	988	665	851	415	110	52	11	5
Finance, insurance, and real estate	17,994	31,538	1,502	907	245	186	95	41	18	8	2
Services: hotels and other lodging places	13,008	14,885	190	51	27	33	33	22	10	5	9
Services, except hotels	39,615	57,795	3,698	1,952	791	601	226	69	42	15	2
Unclassified establishments	2,308	2,682	502	313	103	75	11	—	—	—	—

Source: U.S. Bureau of Census, *County Business Patterns, 1971. Hawaii*. CBP-71-13.

SECTION 16

COMMUNICATIONS, POWER, AND SCIENCE

This section presents statistics relating to postal services, telephones, telegraphs, radio, television, newspapers, electrical and gas power and energy, and scientific resources.

Hawaii is served by all communications media. The most recent statistics indicate 89 post offices, 449,000 telephones, 31 radio stations, 12 television stations, and seven daily newspapers.

Electricity sales exceeded 4.1 billion kilowatt-hours in 1971, or 7,124 per housing unit. Manufactured gas sales totaled 30 million therms.

The State is also well served with scientific resources. A 1972 inventory reported 345 companies and agencies with research or scientific capabilities. Employment in these organizations was more than 25,000.

Information on communications, power and science can be obtained from reports and records of the U.S. Post Office Department, Federal Communications Commission, Hawaii State Public Utilities Commission, individual utility companies, and Audit Bureau of Circulations. Similar data for the nation as a whole can be found in the *Statistical Abstract of the United States: 1972*, Sections 18, 19, and 20.

Table 183.—POSTAL SERVICE: 1851 TO 1972

Year	Number of post offices ¹	Gross postal receipts (\$1,000) ²	Pieces of mail handled (1,000) ³
1851-1852	(NA)	1	34
1855	(NA)	7	74
1858-1860	33	2	(NA)
1864-1866	(NA)	3	(NA)
1868-1870	(NA)	6	139
1874-1876	(NA)	10	101
1878-1880	(NA)	15	175
1884-1886	55	33	(NA)
1890	(NA)	60	1,579
1895	(NA)	61	(NA)
1901	90	103	(NA)
1905	89	123	(NA)
1910	93	(NA)	(NA)
1915	93	(NA)	(NA)
1920	91	352	(NA)
1925	93	611	(NA)
1930	93	774	(NA)
1935	94	834	(NA)
1940	94	1,480	(NA)
1945	91	22,726	(NA)
1950	97	3,955	(NA)
1955	101	5,603	(NA)
1960	83	7,732	127,000
1961	82	8,434	(NA)
1962	82	11,041	(NA)
1963	80	13,037	(NA)
1964	80	(NA)	(NA)
1965	80	13,692	144,000
1966	80	14,984	147,000
1967	80	15,881	149,000
1968	80	17,617	159,000
1969	80	20,178	172,000
1970	80	20,840	187,000
1971	78	21,976	201,000
1972	89	23,434	215,102

NA Not available

¹Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations. Total for 1858-1860 refers to 1859; 1884-1886, to number in operation at beginning (and also end) of biennium ended March 31, 1886; data for 1901 and later years, as of June 30.

²Receipts for 1851-1852 refer to year ended March 31, 1852 (the earliest full year available after establishment of the postal system in December 1850); for 1855, to either calendar 1855 or the year ended March 31, 1856; for 1858-1886, to annual averages for biennial periods ended March 31; for 1890, to the year ended March 31, 1890; for 1895, to the calendar year; and for 1901 and later years, to years ended June 30.

³Data for 1851-1880 limited to letters; for 1890, to letters and prints; for 1960 and thereafter, to all pieces originated in Hawaii. Total for 1851-1852 refers to year ended March 31, 1852; 1855, either to calendar year or year ended March 31, 1856; for 1868-1890, to annual averages for biennial periods ended March 31; for 1960 and later years, to years ended June 30.

Source: *Report of the Minister of the Interior* for 1856, 1880, 1886, and 1890; *Report of the Minister of Finance* for 1860, 1866, 1870, 1876, and 1895; *Annual Report of the Postmaster General* for 1913-1970; *Statistical Abstract of the United States* for 1923-1971; U.S. Postal Service, records; Henry A. Meyer et al., *Hawaii, Its Stamps and Postal History* (1948), p. 276.

**Table 184.—TELEPHONES IN SERVICE, TELEPHONE CALLS, AND TELEGRAPH MESSAGES:
1880 TO 1972**

Year	Telephones in service ¹		Completed calls ²			Telegraph messages ³	
	State total	Oahu	Local (1,000)	Inter-Island	Transpacific	Total	Cable only
1880	(NA)	47	(NA)	—	—	—	—
1885	(NA)	666	(NA)	—	—	—	—
1890	(NA)	931	(NA)	—	—	—	—
1895	(NA)	1,152	(NA)	—	—	—	—
1900	(NA)	1,393	(NA)	—	—	—	—
1905	(NA)	1,800	(NA)	—	—	(NA)	(NA)
1910	(NA)	2,657	(NA)	—	—	(NA)	(NA)
1915	6,527	(NA)	(NA)	—	—	(NA)	(NA)
1920	10,761	(NA)	(NA)	—	—	(NA)	(NA)
1925	18,332	14,471	(NA)	—	—	(NA)	(NA)
1930	24,319	19,169	(NA)	—	—	(NA)	(NA)
1935 ⁴	24,664	19,137	(NA)	16,748	1,332	261,456	52,732
1940 ⁵	39,179	31,799	106,464	43,661	9,687	336,537	74,777
1945	54,734	44,432	125,436	87,347	93,602	713,756	164,326
1950	99,310	79,968	202,344	247,071	92,481	337,984	50,598
1955	143,063	114,678	290,528	285,328	179,274	381,725	—
1960	208,411	171,793	413,908	512,404	516,527	499,331	—
1961	221,599	183,401	422,729	519,789	569,122	492,610	—
1962	233,680	193,570	434,132	573,789	702,428	511,890	—
1963	247,629	205,342	449,933	651,787	750,161	514,782	—
1964	265,793	220,939	470,097	794,060	926,424	559,426	—
1965	283,689	236,006	506,198	948,585	1,336,557	561,377	—
1966	302,506	251,505	539,632	1,129,492	1,687,105	589,386	—
1967	323,849	268,190	562,522	1,332,551	2,144,049	579,696	—
1968	352,196	291,317	585,071	1,624,206	2,594,151	463,985	—
1969	381,982	314,915	611,919	1,963,219	3,267,601	466,197	—
1970	414,165	339,952	631,543	2,288,320	3,753,449	434,936	—
1971	445,995	365,733	667,542	2,569,758	4,476,130	290,087	—
1972	498,593	412,443	702,346	3,072,319	5,427,667	(NA)	—

NA Not available.

¹As of December 31. Includes telephones of the Hawaiian Bell Telephone and Telegraph Co. for 1880 and 1885 and the Mutual Telephone Company (renamed the Hawaiian Telephone Company in 1953) from 1885 to the present time, and is thus complete with regard to public telephone service on Oahu for the entire period of record. Other companies, not included in these statistics, operated on Hawaii and Maui until 1919 and Kauai until 1929. Neighbor Island midyear totals for all companies combined (according to the *Annual Reports of the Governor of Hawaii*) were 1,997 in 1915, 3,301 in 1920, and 4,274 in 1925.

²Statewide totals. The interisland and transpacific data refer to paid calls (whether paid in Hawaii or elsewhere). The transpacific data include both in and out calls. Interisland and transpacific radiotelephone service began late in 1931.

³Combined totals for messages between Hawaii and the Mainland United States in either direction, whether by cable or radio. Cable service was begun in 1903 and terminated in 1951.

⁴Telegraph data refer to 1936, the earliest year available.

⁵Data on local telephone calls refer to 1941, the earliest year available.

Source: Hawaiian Telephone Co., records; Federal Communications Commission, records.

Table 185.—COMMERCIAL AND EDUCATIONAL RADIO AND TELEVISION BROADCAST STATIONS ON THE AIR AND DAILY NEWSPAPER CIRCULATION: 1912 TO 1973

Year	Commercial broadcast stations ¹			Educational broadcast stations ¹		Daily newspaper circulation ²		
	AM	FM	TV	FM	TV	Honolulu Advertiser	Honolulu Star-Bulletin	Hawaii Tribune-Herald
1912	—	—	—	—	—	3,210	4,262	(NA)
1915	—	—	—	—	—	4,900	4,606	(NA)
1920	—	—	—	—	—	5,793	8,509	(NA)
1925	2	—	—	—	—	12,432	16,444	(NA)
1930	1	—	—	—	—	12,308	20,618	(NA)
1935	2	—	—	—	—	13,026	24,141	(NA)
1940	3	—	—	—	—	25,418	38,188	4,674
1945	4	—	—	—	—	140,414	156,041	9,166
1950	12	—	—	—	—	44,965	77,696	9,848
1955	13	1	3	1	—	50,814	91,355	10,222
1960	17	1	7	2	—	64,287	104,901	9,884
1961	18	1	8	1	—	70,097	104,212	10,421
1962	20	1	9	1	—	62,239	100,858	10,679
1963	20	1	10	1	—	59,391	102,195	10,826
1964	23	2	10	1	—	62,337	105,099	11,006
1965	23	2	10	—	—	64,435	107,976	11,136
1966	24	2	10	—	—	66,499	109,865	11,447
1967	25	2	10	—	2	67,550	112,182	10,944
1968	25	3	10	—	2	70,135	115,688	11,645
1969	25	4	10	—	2	71,835	119,148	12,483
1970	25	4	10	1	2	74,318	123,765	13,125
1971	25	4	10	1	2	74,441	124,601	13,851
1972	25	5	10	1	2	72,723	126,341	14,250
1973	24	5	10	1	2	—	—	—

NA Not available.

¹As of January 1 (except 1950, June 7). Data before 1950 refer to licensed stations; from 1950 forward, to stations on the air. Television station totals include satellite stations (1 in 1973) but exclude relay stations. Commercial AM broadcasting in Hawaii began in 1922; FM, both commercial and educational, in 1953; commercial television, in 1952; and educational television, in 1966.

²For the three English-language dailies. Data prior to 1935 are October 1 figures supplied by the publishers to the U.S. Post Office; data for 1935 and later years are April-September averages (for Honolulu) and fourth quarter averages (for Hilo) compiled by the Audit Bureau of Circulations, covering daily (but not Sunday) editions. Regular daily newspaper publication began in Hawaii in 1882.

Source: Federal Communications Commission, records; FCC data on broadcast stations on the air, cited in *Statistical Abstract of the United States, 1951-1970*; Hawaii Newspaper Agency, Inc., records; Hawaii Tribune-Herald, records; Hawaii State Department of Planning and Economic Development, *Communications Statistics for Hawaii, 1964* (Statistical Report 19, May 31, 1964).

Table 186.—TELEPHONE AVAILABILITY AND TELEVISION SETS IN OCCUPIED HOUSING UNITS, BY COUNTY: 1970

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All occupied units	203,088	164,763	17,260	8,282	12,783
Telephone:					
Available	185,265	152,198	14,907	7,064	11,096
None	17,823	12,565	2,353	1,218	1,687
Number of television sets:					
One	143,288	114,351	13,101	6,376	9,460
Two or more	46,373	41,254	2,286	864	1,969
None	13,427	9,158	1,873	1,042	1,354

Source: U.S. Bureau of the Census, *U.S. Census of Housing: 1970*, Final Report HC(1)-B13, tables 32, 37, 62, and 63.

Table 187.—CABLE TELEVISION SUBSCRIBERS: DECEMBER 31, 1970 TO 1972

Year (Dec. 31)	State total	City and County of Honolulu	County of Hawaii	County of Kauai ¹	County of Maui
1970	12,091	11,066	—	—	1,025
1971	13,718	12,581	—	37	1,100
1972	16,887	14,732	—	478	1,677

¹Began operation in November 1971.

Source: Hawaii State Department of Regulatory Agencies, CATV Division.

Table 188.—POSTAGE, TELEPHONE, AND TELEGRAPH RATES AND NEWSPAPER PRICES: 1860 TO 1972
(In dollars)

Year (as of July 1)	Postage (letter) rates ¹			Telephone rates (Honolulu) ²				Telegraph rates ³		Newspaper price ⁴	
	Local	To Mainland U.S.		Local call ⁵	To Hilo ⁶	To San Fran. ⁶	Monthly charge ⁷	Cable	Radio	Daily	Sunday
		Surface	Air								
1860	0.05	0.12	—	—	—	—	—	—	—	—	—
1870	0.06	0.06	—	—	—	—	—	—	—	—	—
1880	0.02	0.06	—	(NA)	—	—	6.00	—	—	—	—
1890	0.02	0.05	—	(NA)	—	—	2.00	—	—	0.05	—
1900	0.02	0.02	—	(NA)	—	—	2.50	—	—	0.05	—
1910	0.02	0.02	—	(NA)	—	—	3.50	0.35	—	0.05	0.05
1920	0.02	0.02	—	0.05	—	—	3.25	0.35	0.25	0.05	0.05
1930	0.02	0.02	—	0.05	3.00	21.00	4.00	0.20	0.20	0.05	0.10
1940	0.03	0.03	0.20	0.05	2.00	9.00	3.75	0.12	0.12	0.05	0.10
1950	0.03	0.03	0.06	0.05	2.50	9.38	4.75	0.25	0.25	0.05	0.15
1960	0.04	0.04	0.07	0.10	1.93	6.60	8.42	—	0.21	0.10	0.15
1970	0.06	0.06	0.10	0.10	0.99	4.29	9.90	—	0.21	0.10	0.25
1971	0.08	0.08	0.11	0.10	0.99	4.29	9.90	—	0.21	0.15	0.35
1972	0.08	0.08	0.11	0.10	0.99	4.29	10.12	—	0.21	0.15	0.35

NA Not available.

¹Per ounce, with the following exceptions: local mail, 1880 and 1890; surface mail to the Mainland U.S., 1860-1890; and air mail to the Mainland, 1940—all of which were per half-ounce. The 1860 rate to the Mainland applied only to distances under 3,000 miles. The Honolulu Post Office was established December 22, 1850, and regular transpacific air mail service was initiated in November 1936.

²Including tax. Telephone service commenced on Maui in 1879, Oahu and Kauai in 1880, and Hawaii in 1882. Both inter-island and transpacific telephone service began in 1931.

³Per full-rate word (non-coded language). Cable service between Hawaii and the Mainland commenced January 1, 1903 and ceased operations November 17, 1951. Radio telegraph service between Hawaii and the Mainland was inaugurated September 3, 1912.

⁴Street sales price per copy for the Honolulu Advertiser (daily beginning in 1882, Sundays from 1903 to 1962), the Honolulu Star-Bulletin (daily beginning in 1912, Sundays from 1959 to 1962), and Sunday Star-Bulletin and Advertiser (beginning in 1962). The first newspaper in Hawaii appeared in 1834; the first full-scale dailies, in 1882.

⁵Pay telephones, first five minutes (unlimited after 1940).

⁶Station to station daytime calls, first three minutes, including tax. Data for 1930 refer to rates at initiation of service, late in 1931.

⁷For an individual residential line in Honolulu, including tax. Data for 1880 and 1890 are for Bell Telephone Company, which merged with Mutual (now Hawaiian) Telephone Company in 1895. Rates for 1920-1940 refer to the basic model; for 1950 and later, to any model.

Source: Henry A. Meyer et al., *Hawaii, Its Stamps and Postal History* (1948), pp. 84, 89, and 400-402; *Session Laws of 1878*, Chap. XVIII, Sect. 4; *Hawaiian Almanac and Annual* for 1881 (p. 27) and 1891 (p. 15); Office of the Postmaster General, records; Hawaiian Telephone Company, records; Federal Communications Commission, records; newspaper mast-heads.

Table 189.—ELECTRIC UTILITIES: 1901 TO 1971

Year	Customers, Dec. 31 ¹		KWH sold (1,000) ²			Average annual use (KWH) ³		Average rate (\$/KWH)		Installed capacity (KW)
	Residential	Other	Total	Residential	Other	Residential	Other	Residential	Other	
1901	—	—	1,690	—	—	—	—	—	—	—
1910	—	—	3,926	—	—	—	—	—	—	—
1920	14,800	—	18,039	—	—	301	—	—	—	—
1930	41,600	8,241	86,699	—	—	568	—	—	—	—
1940	74,248	—	240,040	—	—	1,244	—	—	—	—
1950	85,069	21,018	599,309	203,284	396,025	2,390	18,842	.029406	.020066	252,955
1959	127,336	24,602	1,422,145	519,222	902,923	4,078	36,701	.030240	.021664	469,343
1960	132,440	25,138	1,602,197	580,849	1,021,348	4,386	40,630	.029723	.021559	469,343
1961	136,788	25,664	1,766,031	624,730	1,141,301	4,567	44,471	.029057	.021015	527,708
1962	140,661	26,440	1,966,105	678,628	1,287,477	4,825	48,694	.028886	.020722	543,737
1963	144,638	27,194	2,077,570	730,317	1,347,254	5,049	49,542	.028389	.020609	628,312
1964	149,547	28,137	2,284,275	786,118	1,498,157	5,257	53,245	.027949	.020133	716,312
1965	154,822	28,901	2,445,024	853,086	1,591,939	5,510	55,082	.027569	.020072	731,395
1966	160,784	29,492	2,639,866	912,616	1,727,250	5,676	58,567	.027290	.019949	830,644
1967	166,256	30,161	2,832,468	989,785	1,842,684	5,953	61,109	.027039	.020037	829,157
1968	171,346	30,821	3,109,256	1,083,233	2,026,023	6,322	65,735	.026803	.020022	894,532
1969	178,569	31,761	3,426,052	1,174,502	2,251,550	6,577	70,890	.026548	.019647	896,271
1970	186,282	32,721	3,758,094	1,270,732	2,487,362	6,822	76,017	.026810	.020113	1,007,021
1971	193,043	33,471	4,167,127	1,375,308	2,791,819	7,124	83,410	.028229	.021493	1,016,350
COUNTIES:										
1971										
Honolulu	150,285	24,015	3,600,728	1,147,968	2,452,760	7,639	102,135	.025549	.018825	873,000
Hawaii	18,744	4,523	247,104	100,504	146,600	5,362	32,412	.043413	.040996	73,804
Kauai	8,905	1,628	111,882	41,611	70,271	4,673	43,164	.046211	.042850	26,875
Maui	15,109	3,305	207,413	85,225	122,188	5,641	36,971	.037646	.039542	42,671

¹Data limited to Oahu before 1930. The 1930 Oahu totals were 30,972 residential and 6,682 nonresidential customers.

²Amount generated (rather than amount sold) for 1901 and 1910. Data before 1930 limited to Oahu. The 1930 Oahu total was 78,633M KWH, or 90.7 percent of the all-Island total.

³Data before 1950 limited to Oahu. The 1950 residential average on Oahu was 2,688 KWH.

Source: Hawaii State Public Utilities Commission, *Annual Report . . . 1931* (p. 23), *Historical Data, Gas and Electric Utilities, State of Hawaii, 1959 to 1968* (unpaged), and records; Territorial Planning Board, *First Progress Report* (p. 292); *Annual Report of the Governor of Hawaii . . . 1941* (p. 75); Hawaiian Electric Co., Ltd., records.

Table 190.—GAS UTILITIES: 1910 TO 1971

(Data limited to Honolulu Gas Co., Ltd., and its successor organization, Gasco Inc. Excludes bottled gas)

Year	Customers		Gas sold (1,000 therms) ¹			Ave. ann. use (therms)		Average rate (dollars per therm)		Installed capacity (1,000 therms)
	Residential	Other	Total	Residential	Other	Residential	Other	Residential	Other	
1910		1,928	—	—	—	—	—	—	—	—
1920		6,762	—	—	—	—	—	—	—	—
1930		14,144	—	—	—	—	—	—	—	—
1940		24,265	4,405	—	—	—	—	—	—	—
1950	32,392	2,935	11,453	8,755	2,698	270	919	.2348	.1744	—
1959	35,826	2,657	14,869	10,018	4,851	280	1,826	.3538	.2246	2,400
1960	35,536	2,555	15,881	10,299	5,582	290	2,185	.3619	.2280	2,400
1961	35,857	2,227	16,790	10,502	6,289	293	2,824	.3685	.2263	2,400
1962	35,463	2,050	18,197	10,839	7,358	306	3,589	.3679	.2262	2,400
1963	35,034	1,874	18,914	10,775	8,139	308	4,343	.3666	.2238	2,400
1964	34,994	1,515	19,697	10,919	8,778	312	5,794	.3639	.2202	2,400
1965	34,775	1,428	20,397	11,016	9,381	317	6,570	.3634	.2186	2,400
1966	34,956	1,355	21,019	11,171	9,848	320	7,268	.3626	.2185	2,400
1967	35,000	1,382	22,547	11,348	11,198	324	8,103	.3618	.2179	2,400
1968	34,955	1,300	23,570	11,331	12,240	324	9,415	.3618	.2169	2,400
1969	34,829	1,305	25,649	11,848	13,801	340	10,576	.3588	.2156	2,400
1970	32,163	3,979	27,831	10,891	16,940	339	4,257	.3619	.2227	2,400
1971	32,072	4,081	30,445	9,279	21,167	289	5,187	.3699	.2308	2,400
COUNTIES:										
1971										
Honolulu	29,621	4,070	29,082	8,290	20,791	280	5,108	.3660	.2306	2,400
Hawaii	2,072	11	1,257	882	375	426	34,107	.3981	.2419	—
Kauai	—	—	—	—	—	—	—	—	—	—
Maui	379	—	107	107	—	281	—	.4448	—	—

¹Data for years before 1940 were expressed in cubic feet rather than therms. Cubic feet of gas sold amounted to 47,484,100 in 1910, 194,062,800 in 1920, 431,934,600 in 1930, and 855,420,400 in 1940.

Source: Hawaii State Public Utilities Commission, *Historical Data, Gas and Electric Utilities, State of Hawaii, 1959 to 1968* (unpaged), and records; Territorial Planning Board, *First Progress Report* (p. 307); Chamber of Commerce of Honolulu, *General Information About Honolulu... 1936-1940*, p. 27.

Table 191.—TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLAND: MAY 1973

Utility and usage	Oahu	Hawaii ¹	Kauai	Maui	Molokai	Lanai
Water:						
¾ inch meter, 5,000 gal. . . .	4.25	3.75	4.25	4.05	4.05	3.55
¾ inch meter, 10,000 gal. . .	6.10	5.75	6.25	6.10	6.10	5.25
¾ inch meter, 20,000 gal. . .	9.80	9.75	10.25	10.20	10.20	8.65
1½ inch meter, 50,000 gal. . .	26.00	24.00	26.00	25.25	25.25	22.00
Electricity:						
100 kilowatt-hours	5.49	8.62	7.29	7.39	8.34	7.79
250 kilowatt-hours	9.74	14.50	13.88	13.43	14.65	13.77
500 kilowatt-hours	15.23	21.52	23.05	21.29	22.49	21.53
Gas:						
10 therms	4.84	5.01	6.35	5.44	—	—
25 therms	8.99	10.96	13.06	11.35	—	—
50 therms	15.84	20.04	23.99	20.88	—	—
100 therms	29.84	37.20	46.03	39.92	—	—
Telephone:²						
Individual line	9.75	8.50	8.10	8.10	6.95	6.25
Two-party line	8.05	7.15	6.85	6.85	5.90	5.35

¹Water rates are those for Hilo, Kohala, and Ka'u.

²Plus 9 percent Federal excise tax.

Source: Hawaii State Public Utilities Commission; City and County of Honolulu, Board of Water Supply; County of Hawaii Department of Water Supply; County of Kauai Department of Water; County of Maui Department of Water Supply; Lanai Company.

Table 192.—SCIENTIFIC RESOURCES: 1971 AND 1972

Type of organization	Number of companies or agencies		Total employment		Professional employment	
	1972	1971	1972	1971	1972	1971
All organizations	345	301	25,268	22,230	7,206	5,681
With scientific capabilities	75	59	8,842	7,511	2,043	1,446
Computer sciences	46	45	2,022	1,883	765	1,034
R&D and allied companies	41	45	4,992	3,612	1,215	637
Testing laboratories	26	24	911	854	483	474
Government agencies	117	99	7,763	7,677	2,369	1,868
Federal civilian	23	23	1,518	1,670	413	277
Military	10	12	642	1,037	167	164
State, except U.H.	37	33	2,539	2,323	820	684
University of Hawaii	34	18	1,322	998	646	429
County	14	13	1,742	1,649	323	224
Private research agencies	40	29	738	693	331	222
Subject	1972	1971	Subject	1972	1971	
Professional associations	43	45	Colleges and universities	32	31	
Regular membership	11,182	10,365	Full-time enrollment ¹	34,276	31,033	
Associate membership	555	604	Part-time enrollment ¹	46,215	39,479	
Scientific libraries	22	24	Business and technical schools	5	4	
Scientific books	682,042	677,917	Full-time enrollment	1,550	1,520	
			Part-time enrollment	305	150	

¹Because of different enrollment definitions, these data are not comparable to those in Section 3.

Source: Hawaii State Department of Planning and Economic Development, *Hawaii's Scientific Resources, 1972 Directory*, 6th Edition, p. 5.

Table 193.—LARGE OPTICAL TELESCOPES: FEBRUARY 1973

Location	Operated by	Diameter (inches)
Mauna Kea	Univ. of Hawaii	88
Do	Do	24
Do	Do	24
Haleakala	Univ. of Michigan	60
Do	Do	48
Do	Do	48
Ewa Beach	Private	16
Honolulu	Bishop Museum	12

Source: Bernice P. Bishop Museum; University of Hawaii, Institute for Astronomy.

SECTION 17

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, local public transit, civil aviation, and water traffic.

Most local travel in Hawaii is by private automobile. Motor vehicle registration increased from 72,000 in 1940 to 231,000 in 1960 and 440,000 in 1972. Vehicle miles rose during the same period from 716 million to 3.8 billion. By the end of 1972, 511,000 licensed drivers had access to 3,726 miles of streets and highways throughout the State. There was a corresponding decline in the use of local bus service: revenue passengers of the Honolulu Rapid Transit Company dropped from 93 million in 1944 to 22.2 million in 1972.

All scheduled interisland travel is now by air. As recently as 1941, interisland steamers carried 163,000 passengers, while the single airline then operating carried 49,000. In 1972, two scheduled airlines and a number of air taxis reported 4.1 million interisland passengers, ten times their 1950 total.

Similar growth is evident in transpacific travel. Although surface passengers dropped from 95,000 in 1940 to 17,000 in 1971, air passengers increased during the same 31-year span from 639 to 5.3 million. Between 1936 and 1973, sharp declines occurred in both scheduled flight time between California and Hawaii (from 20 to 5 hours) and minimum roundtrip fare (from \$712 to \$206). Overseas cargo received in the State in 1971 amounted to 54,000 tons by air and 7.1 million tons by ship.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors, and Airports Divisions. Other sources include the U.S. Bureau of Public Roads, Civil Aeronautics Board, Federal Aviation Administration, Army Corps of Engineers, Hawaii State Public Utilities Commission, and individual transportation companies. Similar statistics for other areas are reported in *Statistical Abstract of the United States: 1972*, Sections 21 and 22.

Table 194.—MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLAND: 1923 TO 1972

Date and surface	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1923: Sept. 1	1,479	553	272			474	180
Paved ¹	565	184	69			202	110
Unpaved ²	914	369	203			272	70
1938: Dec. 31 ³	2,040.4	610.7	545.2	(NA)	(NA)	650.0	234.5
Paved	1,367.2	400.0	232.0	(NA)	(NA)	562.6	172.6
Unpaved	673.2	210.7	313.2	(NA)	(NA)	87.4	61.9
1958: Dec. 31	2,967.45	1,158.24	600.58			920.81	287.82
Paved	2,392.61	872.53	399.49			861.99	258.60
Unpaved	574.84	285.71	201.09			58.82	29.22
1971: Dec. 31	3,584.71	1,380.32	519.92	62.59	89.14	1,212.23	320.51
Paved	3,114.27	1,138.52	408.41	31.21	68.92	1,172.89	294.32
Unpaved	470.44	241.80	111.51	31.38	20.22	39.34	26.19
1972: Dec. 31	3,725.92	1,312.70	644.84	62.59	89.14	1,288.23	328.42
Paved	3,128.68	1,032.77	477.00	31.09	68.92	1,229.60	289.30
Unpaved	597.24	279.93	167.84	31.50	20.22	58.63	39.12

NA Not available.

¹Concrete, asphalt or oiled macadam, or water-bound.

²Sub-based, coral, or other unpaved.

³"Public and semi-public."

Source: Anon., *Hawaii: An Integral Part of the United States* . . . (c. 1923), p. 18; Hawaii Territorial Highway Department and U.S. Bureau of Public Roads, *A Road Inventory of the Territory of Hawaii* (1939), pp. 2-3; Hawaii State Highway Department, "Mileages of Existing Roads, Streets and Highways (as of December 31, 1958)" (unpublished table); Hawaii State Department of Transportation, Highways Division, records.

**Table 195.—MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES:
1900 TO 1972**

Year	Motor vehicle registration ¹			Fuel consumption per vehicle (gallons)	Vehicle miles	
	Total	Passenger cars	Other motor vehicles ²		Total (millions)	Per vehicle
1900	4	—	—	—	—	—
1905	80	—	—	—	—	—
1910	861	—	—	—	—	—
1915	3,781	—	—	—	—	—
1922	15,336	—	—	—	—	—
1925	28,001	—	—	—	—	—
1930	45,118	—	—	—	—	—
1935	50,422	40,772	9,650	654	461.5	9,153
1940	71,596	58,541	13,055	714	715.6	9,996
1945	70,618	55,672	14,946	638	630.4	8,932
1950	137,917	110,622	27,295	642	1,240.3	8,988
1955	180,755	153,451	27,304	621	1,571.1	8,694
1960	230,791	199,829	30,962	616	1,989.6	8,624
1961	244,898	212,650	32,248	602	2,063.7	8,428
1962	257,215	225,086	32,129	595	2,142.9	8,330
1963	270,176	237,422	32,754	580	2,192.3	8,120
1964	288,452	254,249	34,203	574	2,316.7	8,036
1965	309,331	273,559	35,772	566	2,449.8	7,924
1966	323,843	286,836	37,007	566	2,565.6	7,922
1967	335,326	297,766	37,560	580	2,721.1	8,114
1968	353,888	315,024	38,864	592	2,934.4	8,292
1969	373,541	332,213	41,328	605	3,162.8	8,467
1970	404,463	358,255	46,208	602	3,408.9	8,428
1971	425,210	375,205	50,005	615	3,660.7	8,609
1972	439,993	388,658	51,335	610	3,757.7	8,540

¹Taxable and non-taxable. Excludes military vehicles, motorcycles, motor scooters, trailers, and semi-trailers.

²Ambulances and hearses, buses, trucks, and tractor-trucks.

Source: Hawaii State Department of Transportation, Highways Division, *Annual Traffic Summary, Island of Oahu, 1959*, tables II, III, VI and VII, and records; Robert C. Schmitt, "Automobile Ownership in Hawaii Before 1931: Dates and Data," *Hawaii Historical Review*, Vol. II, No. 10, January 1968, pp. 426-432.

Table 196.—VEHICLE REGISTRATION AND USE, DRIVERS LICENSES IN FORCE, AND STREET AND HIGHWAY MILEAGE, BY COUNTIES: 1972

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered	439,993	341,973	44,515	20,115	33,390
Passenger cars	388,658	308,675	35,805	16,597	27,581
Ambulances and hearses	68	39	15	4	10
Buses	1,112	732	130	111	139
Trucks	48,541	31,519	8,198	3,300	5,524
Tractor-trucks	1,614	1,008	367	103	136
Other vehicles	—	—	—	—	—
Other vehicles registered:					
Trailers, semi-trailers	13,342	8,407	2,281	1,301	1,353
Motorcycles, motor scooters	10,490	8,742	697	411	640
Bicycles	79,188	68,620	3,766	2,729	4,073
Fuel consumption per motor vehicle (gallons)	610	609	660	583	566
Vehicle miles (in millions)	3,757.7	2,917.4	411.5	164.2	264.6
Miles per motor vehicle	8,540	8,531	9,243	8,165	7,925
Drivers licenses in force; Dec. 31	510,518	419,310	39,653	18,870	32,685
Mileage in public streets and highways, Dec. 31	3,725.92	1,288.23	1,312.70	328.42	796.57
De facto population per motor vehicle ¹	1.93	2.00	1.66	1.76	1.67
Motor vehicles per mile of public street or highway	118	265	34	61	42

¹Based on provisional estimates for July 1, 1972 published in the Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1972* (Statistical Report 95, May 2, 1973).

Source: Hawaii State Department of Transportation, Highways Division, records; each County Department of Finance, records; Honolulu Police Department, records.

Table 197.—TRUCKS: 1972

Subject	Number
Number of trucks	48,000
Excluding panels and pickups	13,000
Truck-miles (millions)	463
Excluding panels and pickups	129
Average miles per truck	9,600
Excluding panels and pickups	10,100
Used for personal transportation (percent)	37.6
Pickup, panel, multistop, or walk-in (percent)	73.5
Light-heavy or heavy-heavy (percent)	8.8
Over 4 years old (percent)	59.3
Purchased new (percent)	55.9
In fleet of 20 trucks or more (percent)	20.6
Single-unit, two-axle (percent)	91.2
Local operation (percent)	84.6
Gasoline operation (percent)	86.7
Maintained by owner or owner's repair shop (percent)	43.4

Source: U.S. Bureau of the Census, *Census of Transportation: 1972*, TC72-T12, tables 1 and 2.

Table 198.—AUTOMOBILES AVAILABLE AND MEANS OF TRANSPORTATION TO WORK: 1960 AND 1970

Number of automobiles available	Households		Means of transportation to work	Workers	
	1970	1960		1970	1960
All households	203,089	153,012	All workers ¹	327,310	248,406
None	22,170	25,871	Private automobile, driver	213,521	} 156,992
One	93,854	88,320	Private automobile, passenger	44,493	
Two	69,343	32,577	Bus	19,470	20,039
Three or more	17,722	6,244	Walked only	33,003	22,214
			Other means	11,296	10,173
Percent, two or more	42.9	25.4	Worked at home	5,527	32,843

¹Includes not reported (6,145 in 1960).

Source: *U.S. Census of Housing: 1960*, Final Report HC(1)-13, table 6; *U.S. Census of Population: 1960*, Final Report PC(1)-13C, table 64; *U.S. Census of Housing: 1970*, Final Report HC(1)-B13, table 36; *U.S. Census of Population: 1970*, Final Report PC(1)-C13, table 50.

Table 199.—NEW PASSENGER CAR REGISTRATIONS, FOR OAHU: 1960 TO 1972

Calendar year	Total registrations by origin				Leading make	
	Total	Domestic makes	Foreign makes		Name	Number registered
			Number	Percent		
1960	15,857	12,773	3,084	19.4	Chevrolet	3,702
1967	24,331	17,412	6,919	28.4	Chevrolet	4,706
1968	29,044	19,560	9,484	32.7	Chevrolet	4,409
1969	33,361	22,001	11,360	34.1	Ford	4,738
1970	33,542	20,275	13,267	39.6	Toyota	4,836
1971	32,109	16,308	15,801	49.2	Toyota	6,040
1972	32,450	17,842	14,608	45.0	Toyota ¹	5,246

¹Other makes with 1,000 or more new passenger car registrations in 1972 were: Datsun, 4,271; Chevrolet, 4,102; Volkswagen, 3,058; Ford, 2,852; Plymouth, 2,796; Dodge, 2,183; Pontiac, 1,562; Mercury, 1,129; and Buick, 1,087.

Source: Motor Vehicle Registrations—Hawaii, a Division of Cardinal Services, Ltd., tabular releases.

Table 200.—TRAFFIC VOLUMES, SIGNALIZED INTERSECTIONS, AND PARKING SPACES AND METERS, FOR OAHU: 1940 TO 1972

Year	Busiest intersection ¹		Number of signalized intersections, Dec. 31 ²	City and County public offstreet parking spaces, Dec. 31 ³	Parking meters in operation, Dec. 31 ⁴
	Location	Number of vehicles entering			
1940 ⁵	King, Dillingham, Liliha	28,175	27	—	—
1950 ⁶	King, Dillingham, Liliha	58,846	66	—	—
1960	Vineyard Blvd., Nuuanu Ave..	48,274	132	1,739	4,701
1970	Ala Moana Blvd., Piikoi St.	66,876	239	3,810	5,533
1972	Ala Moana Blvd., Piikoi St.	73,468	281	4,002	5,678

¹Based on 24-hour data for streets and highways under State jurisdiction. There are also numerous intersections under City and County jurisdiction, some of which may be busier than those listed.

²The first traffic light on Oahu was installed at Nuuanu Avenue and School Street, April 24, 1936.

³The first City and County offstreet parking facility was opened at Beretania and Smith Streets, December 19, 1952.

⁴The first City and County parking meters were put into operation in downtown Honolulu, February 1, 1952.

⁵Data for the busiest intersection refer to 1938.

⁶Data for the busiest intersection refer to 1953.

Source: Hawaii State Department of Planning and Economic Development, *Transportation Statistics for Hawaii, 1965* (Statistical Report 35, August 16, 1965), p. 7; Hawaii State Department of Transportation, Highways Division, records; City and County of Honolulu, Department of Traffic, records.

Table 201.—MOTOR VEHICLE DEATHS AND TRAFFIC DEATHS, INJURIES, AND MAJOR ACCIDENTS: 1917 TO 1972

Year	Motor vehicle deaths ¹	Year	Motor vehicle deaths ¹	Traffic deaths	Traffic injuries	Major traffic accidents ²
1917	22	1945	161	107	—	—
1918	24	1946	70	—	—	—
1919	27	1947	58	—	—	—
1920	41	1948	75	—	—	—
1921	46	1949	56	—	—	—
1922	48	1950	65	61	2,112	6,599
1923	51	1951	67	—	—	—
1924	67	1952	58	—	—	—
		1953	56	—	—	—
1925	57	1954	52	—	—	—
1926	62					
1927	52	1955	50	—	—	—
1928	83	1956	61	—	—	—
1929	73	1957	76	—	—	—
1930	86	1958	60	—	—	—
1931	92	1959	96	78	4,176	6,202
1932	86	1960	117	96	4,754	7,254
1933	78	1961	98	81	5,273	7,785
1934	87	1962	95	85	5,525	8,104
		1963	101	86	5,726	7,862
1935	74	1964	109	97	7,023	8,720
1936	81					
1937	76	1965	111	99	7,493	9,495
1938	80	1966	131	116	8,051	10,225
1939	59	1967	149	138	8,707	11,529
1940	63	1968	169	147	10,082	13,989
1941	92	1969	153	133	10,603	16,174
1942	112	1970	165	153	11,743	18,172
1943	109	1971	172	154	10,934	18,048
1944	157	1972	156	146	11,141	18,259

¹Traffic and non-traffic deaths combined. Non-traffic motor vehicle deaths include those occurring on military bases or private property.

²Traffic accidents with damage of \$100 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, *Major Traffic Accidents, Summary and Analysis, State of Hawaii* (annual) and records; Hawaii State Department of Health, records.

Table 202.—BUS, STREET CAR, AND RAILWAY REVENUE PASSENGERS: 1891 TO 1972

Year	Bus or street-car (Honolulu) ¹	Steam railway ²		
		All railroads	Oahu Rwy. & Land Co.	Other railroads
1891	(NA)	(NA)	103,644	(NA)
1895	(NA)	(NA)	70,354	(NA)
1900	(NA)	(NA)	278,872	(NA)
1905	6,494,936	(NA)	424,379	(NA)
1910	8,979,874	(NA)	617,719	(NA)
1915	11,822,269	1,344,905	996,944	347,961
1920 ³	16,926,617	2,760,585	2,033,756	726,829
1925	17,436,122	1,463,053	919,513	543,540
1930	14,505,045	591,069	322,685	268,384
1935	12,712,052	619,488	370,646	248,842
1940	23,390,745	354,159	331,587	22,572
1945	85,245,013	2,039,550	1,937,825	101,725
1950 ³	41,787,045	—	—	—
1955	29,658,374	—	—	—
1960	29,083,700	—	—	—
1961	26,116,687	—	—	—
1962	24,530,398	—	—	—
1963	22,922,296	—	—	—
1964	22,945,470	—	—	—
1965	23,190,704	—	—	—
1966	23,694,206	—	—	—
1967	18,301,341	—	—	—
1968	23,514,205	—	—	—
1969	24,079,233	—	—	—
1970	23,693,547	} 341,882	—	341,882
1971 ³	17,861,774		—	(NA)
1972	22,206,175	(NA)	—	(NA)

NA Not available.

¹Calendar year data for the Honolulu Rapid Transit Co., Ltd., 1905-1970, and for the Mass Transit Lines from March 1, 1971 forward. Street railway service, using mule cars, was initiated in Honolulu in 1888. From 1903 to 1970, HRT (which commenced operations in 1901) provided the only large scale public transit service in Honolulu. This function was assumed by MTL in 1971. Data for 1972 and later years include zone revenue passengers (301,986 in 1972) and school subsidy passengers (81,108) but exclude senior citizens carried without charge (3,614,840 in 1972) and charter passengers (21,935).

²Calendar year data for 1891-1905, years ended June 30 for 1910 and 1915, and calendar years thereafter. The Oahu Railway and Land Company, the only passenger railroad on Oahu, provided passenger service from 1890 to 1947. Other companies operated on the Neighbor Islands, offering passenger service from 1879 to 1946, and from May 10, 1970 to October 10, 1972. Total track mileage in the State was 209 in 1910, 325 in 1920, 374 in 1930, 323 in 1940, 59 in 1950, and 6 in 1970.

³Passenger volumes affected by major strikes.

Source: Hawaii State Department of Planning and Economic Development, *Passenger Statistics of Hawaii* (Statistical Report 75, August 25, 1970); City and County of Honolulu, Mass Transit Services, records; Lahaina, Kaanapali & Pacific Railroad, records.

Table 203.—CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1930 TO 1970

Subject	1930	1935	1940	1945	1950	1955	1960	1965	1970
Total capacity: available ton-miles ¹	(NA)	(NA)	(NA)	(NA)	9,503	16,146	30,659	34,151	85,535
Total traffic: revenue ton-miles ¹	(NA)	(NA)	405	2,786	5,241	8,762	17,685	20,189	39,866
Revenue load factor, schedule service (percent)	(NA)	(NA)	(NA)	(NA)	54.7	53.5	55.6	58.9	46.6
Passenger revenue ton-miles ¹	105	171	391	2,162	(NA)	7,031	14,227	17,363	35,514
Revenue passenger load factor (percent)	(NA)	35.3	65.5	93.7	60.2	58.0	58.7	61.0	46.2
Freight plus express revenue ton-miles ¹	(NA)	(NA)	9	496	622	1,651	2,996	2,432	3,314
Mail revenue ton-miles ¹	(NA)	(NA)	2	25	55	59	431	335	1,038
Revenue passenger originations ²	10	15	29	160	404	591	857	1,286	2,643
Aircraft revenue departures ¹	(NA)	(NA)	(NA)	(NA)	28	41	49	58	72
Aircraft revenue hours ¹	(NA)	(NA)	(NA)	(NA)	24	29	32	34	28
Aircraft revenue miles ¹	(NA)	(NA)	444	1,208	3,720	4,606	5,614	6,661	8,147
Average on-line passenger trip length (miles)	111	120	142	142	128	132	149	152	134
Average available seats per aircraft	(NA)	(NA)	14.1	24.0	24.8	32.5	42.8	52.1	101.4
Average airborne speed (miles per hour)	(NA)	(NA)	(NA)	(NA)	152	161	177	194	287
Total number of employees	(NA)	(NA)	(NA)	244	591	771	1,270	1,452	1,943
Operating revenues (\$1,000)	(NA)	(NA)	500	2,316	4,340	7,115	15,217	20,439	44,391
Operating profit or loss (\$1,000)	(NA)	(NA)	55	715	-108	-221	-251	1,911	469
Operating expense per revenue ton-mile (cents)	(NA)	(NA)	110	57	85	84	87	92	110
Ave. passenger revenue per rev. pass-mile (cents)	(NA)	(NA)	10.52	7.93	6.86	7.28	8.77	8.75	11.26
Ave. freight revenues per revenue ton-mile (cents)	(NA)	(NA)	178	69	52	46	53	57	70

NA Not available.

¹In thousands.

²In thousands. Refers to enplanements rather than originations for 1970.

Source: Civil Aeronautics Board, *1971 Edition Handbook of Airline Statistics* (1972).

Table 204.—AIRLINE AND SHIP REVENUE PASSENGERS: 1860 TO 1972

Year	Ship passengers			Airline passengers			
	Inter-island: arrivals ¹	Transpacific ²		Inter-island: arrivals ³	Transpacific ⁴		
		Arrivals	Departures		Arrivals	Departures	Through
1860	38,000	685	663	—	—	—	—
1866	(NA)	905	681	—	—	—	—
1870	(NA)	1,448	1,047	—	—	—	—
1875	(NA)	850	654	—	—	—	—
1880	(NA)	5,593	1,928	—	—	—	—
1885	(NA)	7,140	3,588	—	—	—	—
1890	(NA)	7,087	3,923	—	—	—	—
1895	(NA)	8,090	4,636	—	—	—	—
1899	(NA)	32,725	9,063	—	—	—	—
1905	(NA)	(NA)	(NA)	—	—	—	—
1910	62,236	15,876	13,302	—	—	—	—
1915	67,787	12,665	13,555	—	—	—	—
1920	95,237	13,766	16,404	—	—	—	—
1925	103,003	31,877	24,672	—	—	—	—
1930	143,806	36,000	34,000	10,356	—	—	—
1935	112,091	37,096	40,328	13,355	—	—	—
1940	158,328	50,401	44,181	28,624	639		
1945	13,217	(NA)	(NA)	170,437	(NA)		
1950	—	17,821	17,822	438,938	44,815	48,188	25,735
1955	—	26,353	23,739	619,486	114,104	117,319	59,128
1960	—	43,862	37,041	955,610	367,513	373,672	44,404
1961	—	35,700	32,402	939,336	422,657	443,686	59,729
1962	—	36,781	30,144	979,756	508,025	501,499	74,552
1963	—	35,136	27,624	1,144,265	595,350	593,917	106,473
1964	—	30,738	25,439	1,340,996	706,821	694,711	114,727
1965	—	29,868	24,122	1,538,392	833,415	828,967	131,873
1966	—	29,612	24,899	1,754,970	1,000,687	973,158	151,634
1967	—	28,830	24,046	2,117,557	1,285,210	1,252,700	162,119
1968	—	26,603	22,496	2,347,949	1,358,335	1,307,447	183,864
1969	—	24,089	21,339	2,724,622	1,766,720	1,769,087	270,340
1970	—	13,267	13,699	2,992,777	2,190,809	2,158,577	893,890
1971	—	8,943	8,024	3,380,031	2,296,119	2,304,570	729,237
1972	—	(NA)	(NA)	4,093,338	2,540,472	2,550,199	733,362

NA Not available.

¹Calendar year 1860, years ended June 30, 1910-1935, and calendar years thereafter. The 1860 figure is an estimate based on 1861 data for Honolulu. Except for limited accommodations aboard freighters, scheduled interisland passenger service was discontinued in January 1949.

²For the Port of Honolulu only. Calendar years 1860 to 1899, years ended June 30, 1911 (for 1910) and 1915 to 1925, calendar year 1930, and years ended June 30, 1935 and thereafter. Data exclude through passengers.

³Calendar years. Includes air taxis. Includes nonrevenue passengers beginning in 1970. Service began in 1929.

⁴Calendar year data for all airports. Includes nonrevenue passengers beginning in 1970. Treatment of through passengers was apparently changed after 1959 and again after 1969. Scheduled service began in Honolulu in 1936 and Hilo in 1967.

Source: Hawaii State Department of Planning and Economic Development, *Passenger Statistics of Hawaii* (Statistical Report 75, August 25, 1970), as corrected; Hawaii State Department of Transportation, records.

Table 205.—AIR FARES AND FLIGHT TIMES FOR SPECIFIED INTER-ISLAND AND TRANSPACIFIC FLIGHTS: 1930 TO 1973

Year (as of Jan. 1)	Honolulu-Hilo by Hawaiian Airlines				Honolulu-San Francisco by Pan American World Airways			
	Aircraft	1-way fare ¹	Round trip fare ¹	Time ²	Aircraft	1-way fare ¹	Round trip fare ¹	Time ²
1930	S-38	30.00	60.00	1:40	—	—	—	—
1935	S-38	30.00	45.00	1:40	—	—	—	—
1940	S-43	23.00	41.40	1:25	B-314	278.00	556.00	17:30
1945	DC-3	20.70	37.26	1:20	B-314	319.70	575.00	17:30
1950	DC-3	15.53	31.05	1:20	B-377	184.00	331.20	9:25
1955	CV-340	16.50	33.00	1:02	B-377	137.50	275.00	9:25
1960	CV-340	19.36	38.72	1:02	B-707	133.08	266.16	4:55
1965	Viscount	20.10	40.19	0:53	B-707	100.03	200.06	4:55
1970	DC-9	25.20	50.40	0:42	B-707	85.03	170.05	4:55
1971	DC-9	26.00	52.00	0:42	B-747	88.28	176.56	4:55
1972	DC-9	26.00	52.00	0:42	B-747	101.32	202.64	5:02
1973	DC-9	26.00	52.00	0:41	B-747	103.04	206.08	5:02

¹Least expensive regular fare, including tax, in dollars.

²Average scheduled flight time eastbound and westbound in hours and minutes.

Source: Hawaii State Department of Planning and Economic Development, *Chronology of Transpacific and Interisland Airline Fares and Flight Times, 1929-1971* (memorandum, February 19, 1971), as revised.

Table 206.—AIR CARGO AND AIR MAIL: 1947 TO 1972
(In thousands of pounds)

Year ¹	Overseas air cargo ²			Overseas air mail ²			Inter-Island ³	
	Outgoing	Incoming	Through	Outgoing	Incoming	Through	Air cargo	Air mail
1947	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	23,883	433
1948 ⁴		3,329			2,110		23,469	513
1949 ⁵	997	1,577	1,775	1,253	1,249	881	20,770	663
1950 ⁵	1,144	1,935	1,389	1,214	1,230	1,121	19,532	863
1951	835	879	2,596	887	981	1,393	24,421	709
1952	778	839	2,121	1,084	1,009	942	24,924	682
1953	821	934	1,834	1,196	1,080	1,105	24,526	719
1954	808	908	1,968	1,243	1,190	1,685	23,262	736
1955	857	1,417	3,178	1,603	1,590	4,143	24,143	748
1956	1,122	1,532	4,666	1,697	1,881	3,879	22,867	788
1957	1,453	2,143	10,081	1,811	2,152	3,394	21,597	850
1958	1,544	2,480	5,453	2,017	2,382	3,258	23,365	857
1959	1,787	4,055	7,710	2,191	2,871	4,563	22,385	936
1960	9,898	12,092	(NA)	7,955	8,702	(NA)	25,333	1,036
1961	10,902	14,028	6,170	12,992	15,767	1,060	26,207	1,279
1962	16,497	20,705	8,099	15,202	16,954	962	29,427	1,429
1963	14,840	17,082	4,996	15,388	17,193	723	32,634	1,698
1964	19,611	22,826	9,218	14,824	16,812	46	40,298	2,062
1965 ⁶	31,732	40,985	11,948	26,208	27,700	230	39,565	4,897
1966	43,490	57,907	13,877	64,356	67,036	128	38,767	11,736
1967	65,156	80,198	11,515	117,969	121,386	78	41,978	12,039
1968	66,960	83,986	21,075	117,929	121,096	2,534	38,215	12,236
1969	42,391	77,760	23,666	80,405	81,051	1,335	44,150	12,534
1970	37,553	54,285	(NA)	21,362	18,109	(NA)	52,139	14,141
1971 ⁷	67,131	116,591	(NA)	17,915	24,883	(NA)	51,389	14,332
1972 ⁸	55,908	108,178	(NA)	16,665	22,739	(NA)	59,900	14,774

NA Not available.

¹Calendar 1947; fiscal years ended June 30, 1948 to 1960; calendar years, 1961 and later.

²For traffic at Honolulu International Airport (all years) and General Lyman Field, Hilo (beginning in 1967). Comparability of these data varies significantly from year to year, as a result of fluctuations in completeness of reporting, inclusion of through traffic in outgoing and incoming totals, and other reasons. Major disruptions in classification procedures or coverage appear to have occurred in 1960 and, for air mail data, after 1968.

³All airports. Cargo totals include air freight and air express.

⁴Overseas cargo and mail data are combined totals for outgoing, incoming, and through traffic.

⁵Data reflect shipping strike of May 1, 1949-October 24, 1949.

⁶Data reflect the airlifting of all interisland third- and fourth-class mail beginning in October 1965.

⁷Data reflect the shipping strike of July 1, 1971-October 6, 1971.

⁸Data reflect the shipping strikes of January 17-February 19 and October 25-December 7, 1972.

Source: Hawaii Aeronautics Commission, *Annual Report* for 1948-1960; Hawaii State Department of Transportation, Airports Division, tabular releases and records.

Table 207.—UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1970 TO 1972

Characteristic	1970	1971	1972
Certificates outstanding	8,042	8,803	10,250
Length: ¹			
Under 16 feet	4,051	4,352	5,118
16 to less than 26 feet	3,333	3,626	4,191
26 to less than 40 feet	561	654	730
40 feet and over	97	94	132
Hull materials:			
Wood	3,514	3,580	3,866
Steel	23	14	23
Aluminum	162	176	241
Plastic	4,280	4,880	5,918
Other	63	153	202
Type of vessel:			
Cabin motorboat	842	915	1,008
Open motorboat	3,301	3,477	4,201
Runabout	2,433	2,530	2,827
Sail/inboard	199	241	280
Sail/outboard	325	414	405
Sail only	907	970	1,183
Other	35	256	346
Uses:			
Pleasure	7,439	8,108	9,424
Commercial fishing	319	364	430
Other	284	331	396
Place kept:			
Moored on water: Oahu	1,641	1,803	1,823
Rest of State	399	392	452
Stored on land: Oahu	4,408	4,908	5,854
Rest of State	1,594	1,700	2,042
Not reported	—	—	79

¹Excludes boats assigned to dealers or manufacturers (77 in 1971, 79 in 1972).

Source: Hawaii State Department of Transportation, Harbors Division, *Report of Undocumented Vessel Registration* (annual).

Table 208.—SHIP ARRIVALS AND GROSS TONNAGE, 1824 TO 1969 AND CARGO TONS, 1910 TO 1971

Calendar year	Overseas vessel arrivals ¹		Calendar year	Overseas vessel arrivals ¹	
	Number	Tonnage (1,000)		Number	Tonnage (1,000)
1824	105	(NA)	1860 ²	286	39
1830	133	(NA)	1870	239	118
1840	78	(NA)	1880	217	138
1850	467	137	1890	252	213

Year ended June 30	Overseas vessel arrivals ¹		Interisland vessel arrivals ¹		Overseas cargo (1,000 tons) ³		Interisland cargo (1,000 tons) ³	
	Number	Gross tonnage (1,000)	Number	Gross tonnage (1,000)	In	Out	In	Out
1901	559	853	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1910	373	1,239	(NA)	(NA)	(NA)	(NA)	414	414
1920	839	4,530	(NA)	(NA)	(NA)	(NA)	393	393
1930	903	7,607	1,365	1,638	(NA)	(NA)	355	355
1940	872	7,236	2,622	1,917	(NA)	(NA)	235	235
1950	861	7,281	2,210	1,059	2,520	2,046	617	589
1960	1,411	12,305	2,272	1,061	3,773	2,095	974	976
1961	1,518	12,699	2,460	1,143	4,830	2,496	1,170	1,173
1962	1,818	13,094	2,522	1,150	4,988	2,678	1,224	1,232
1963	1,799	12,487	2,550	1,119	4,566	2,603	1,240	1,219
1964	2,064	13,103	2,446	1,275	5,185	2,732	1,334	1,372
1965	1,945	12,992	2,551	1,125	5,840	2,922	1,427	1,354
1966	1,941	14,654	2,877	1,220	6,165	3,031	1,600	1,511
1967	1,684	13,821	2,652	1,422	6,830	3,051	2,424	1,990
1968	1,774	15,277	2,474	1,414	7,818	3,105	1,651	1,505
1969 ⁴	1,903	15,954	2,961	2,458	7,186	2,225	1,970	1,971
1970 ⁴	1,933	(NA)	3,321	(NA)	7,465	2,146	1,861	2,394
1971 ⁴	1,879	(NA)	3,356	(NA)	7,097	2,345	2,091	2,099
1972	1,547	(NA)	3,096	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹Port of Honolulu only. Data before 1901 exclude national vessels; such as warships and government survey vessels.

²Tonnage total excludes 179 whaling vessels, included in the number of arrivals.

³State and private piers on all Islands. Data from 1910-1940 are limited to freight carried by Interisland Steam Navigation Co.

⁴Cargo data are for calendar years.

Source: *The Friend*, May 1, 1844, p. 49; *The Polynesian*, February 1, 1851; Collector General of Customs, *Custom House Statistics* for 1860, 1870, and 1880, and *Report* for 1890; *Report of the Governor of Hawaii* for 1902 and 1910; Territorial Planning Board, *First Progress Report* (1939), Plate 142; Board of Harbor Commissioners, *Annual Report*, 1920-1961; Hawaii State Department of Transportation, Harbors Division, *Shipping Information*, 1962-1968 and records; Anson Chong, *Economic Development of Hawaii and the Growth of Tourism* (1963), p. 74.

Table 209.—FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1910 TO 1971

Year	Passengers ¹			Freight (1,000 short tons) ²			
	Hilo Harbor	Honolulu Harbor ³	Kahului Harbor	Barbers Point Harbor	Hilo Harbor	Honolulu Harbor	Kahului Harbor
1910	—	—	—	—	252.8	1,211.0	—
1915	21,598	100,537	9,844	—	428.4	1,680.3	255.0
1920	41,524	149,862	17,860	—	316.2	2,039.0	228.3
1925	46,302	195,926	24,626	—	344.4	1,981.1	337.5
1930	43,989	207,436	31,183	—	406.7	1,926.5	442.2
1935	35,042	166,196	27,146	—	416.8	2,113.0	396.3
1940	46,604	278,260	37,122	—	528.3	3,353.8	495.7
1945	11,145	48,132	3,966	—	714.8	4,808.1	535.6
1950	525	50,660	26	—	739.9	2,812.0	630.6
1955	281	72,874	81	—	850.7	3,650.5	685.6
1960	4,047	112,298	614	—	807.8	5,041.3	638.0
1961	1,356	116,847	309	686.5	733.4	4,263.3	694.3
1962	1,157	108,750	17	469.3	835.2	4,295.2	714.6
1963	74	90,937	449	1,782.5	728.2	4,421.5	624.5
1964	1,492	213,004	13	2,248.4	874.5	4,755.7	787.3
1965	70	139,031	78	2,416.1	775.0	5,480.0	741.2
1966	4,000	160,565	1,086	2,469.7	835.0	6,180.8	895.4
1967	5,194	363,488	16	2,363.8	882.5	6,640.2	875.5
1968	9,880	535,287	1,930	2,472.5	991.1	6,828.9	957.2
1969	9,288	604,482	125	2,918.8	990.5	7,057.9	868.5
1970	4,457	690,906	—	2,561.6	1,141.2	8,078.1	1,083.4
1971	2,148	518,603	—	2,677.5	1,064.4	7,390.0	1,067.9

¹Total arrivals and departures for transpacific, interisland, and local travel. Not available before 1915.

²Excludes cargo carried by Army and Navy vessels and cargo in transit.

³Most of the increase in passenger traffic after 1963 appears to be a result of excursion travel between Honolulu Harbor or Kewalo Basin and Pearl Harbor. For separate statistics on this category, see table 210.

Source: *Report of the Chief of Engineers, U.S. Army* for 1920-1945; U.S. Army, Corps of Engineers, *Waterborne Commerce of the United States* for 1953-1971.

Table 210.—PASSENGER ARRIVALS AND DEPARTURES FOR HONOLULU HARBOR: 1969 TO 1971

Year	All passengers	To or from foreign countries		To or from other states		Island excursions ¹	
		Arrivals	Departures	Arrivals	Departures	Arrivals	Departures
1969	604,482	23,500	21,258	14,028	13,746	265,204	266,746
1970	690,906	21,189	19,745	4,825	7,046	319,094	319,007
1971	518,603	25,165	20,520	6,749	6,773	229,730	229,666

¹Mostly between Kewalo Basin and Pearl Harbor.

Source: Department of the Army, Lower Mississippi Valley Division, Corps of Engineers, Waterborne Commerce Statistics Center.

Table 211.—VESSELS ARRIVING AT SPECIFIED HARBORS: 1971

Harbor	Total inbound vessels ¹	By type of vessel ¹					By draft ¹	
		Self propelled vessels			Non-self propelled vessels		18 feet and less	19 feet and more
		Pass. and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker		
All spec. harbors	15,787	6,372	475	3,721	5,148	71	(NA)	(NA)
Hilo	833	91	54	230	446	12	725	108
Kawaihae	401	20	17	151	213	—	370	31
Kahului	1,027	198	48	316	453	12	938	89
Barbers Point	127	—	83	20	3	21	45	82
Honolulu	6,812	2,720	188	1,635	2,246	23	5,920	892
Nawiliwili	476	57	20	133	263	3	434	42
Kaunakakai	1,508	—	—	616	892	—	1,508	—
Port Allen	169	13	17	55	84	—	(NA)	(NA)
Kaumalapau	639	—	—	328	311	—	639	—
Pearl Harbor	3,322	3,266	48	7	1	—	(NA)	(NA)
Other Honolulu area	473	7	—	230	236	—	(NA)	(NA)

NA Not available

¹Excludes domestic fishing craft and Army and Navy vessels.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1971*, Part 4 (1972), pp. 97-98.

Table 212.—FREIGHT TRAFFIC FOR SPECIFIED HARBORS: 1971
(Short tons)

Harbor and commodity ¹	Total	Foreign		Domestic			
		Imports	Exports	Coastwise		Internal receipts	Local
				Receipts	Shipments		
Hilo	1,064,384	38,492	5,381	630,368	389,865	278	—
Kawaihae	355,546	—	—	92,821	262,655	70	—
Kahului	1,067,941	27,833	1,634	545,845	492,306	323	—
Barbers Point	2,677,542	1,699,517	—	863,971	114,054	—	—
Crude petroleum	1,837,914	1,644,091	—	106,201	87,622	—	—
Residual fuel oil	769,444	19,749	—	749,695	—	—	—
Honolulu	7,390,015	1,418,786	105,876	3,403,515	2,455,300	38	6,500
Fresh fruits and tree nuts	368,080	1,515	141	337,927	28,497	—	—
Prep. fruit and veg. juice, u.e.c.	716,649	1,372	40,542	122,458	552,277	—	—
Molasses	277,028	—	—	111,992	158,536	—	6,500
Gasoline	491,937	—	11,332	371,467	109,138	—	—
Kerosene	1,222,158	1,003,344	2,434	145,037	71,343	—	—
Residual fuel oil	382,094	—	8,517	273,102	100,475	—	—
Nawiliwili	460,259	11,334	—	199,108	249,795	22	—
Kaunakakai	172,647	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Port Allen	130,504	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kaumalapau	320,213	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Fresh fruits and tree nuts	254,233	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Pearl Harbor	1,013,263	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Jet fuel	276,313	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Distillate fuel oil	354,817	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Residual fuel oil	289,299	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Other Honolulu area ports (net)	296,515	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Sand, gravel, crushed rock	271,154	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)

NA Not available

¹Commodities under 250,000 tons not shown separately.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1971, Part 4* (1972), pp. 32-40.

SECTION 18

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry.

There were 4,300 farms in Hawaii as of 1971, with a total area of 2,340,000 acres. Both figures have declined appreciably during the past decade. The value of crop sales in 1971 was \$176 million, about 39 percent more than in 1961. Livestock sales amounted to \$43 million, or 26 percent more than the 1961 level. Combined crop and livestock sales ranged from \$28 million in Kauai County to \$68 million on the Big Island.

Major crops in 1971 were sugar (\$116 million in sales), pineapple (\$39 million), and vegetables and melons (\$7 million). Important products of livestock farms as of 1971 included cattle (\$15.6 million in sales), milk (\$13.2 million), and eggs (\$7.5 million). Coffee and rice production have declined sharply since the early years of the century, but macadamia nuts have increased rapidly.

Important sources for data on agriculture include the *United States Census of Agriculture* for 1969 and earlier years, the annual report on *Statistics of Hawaiian Agriculture* issued by the Hawaii Crop and Livestock Reporting Service, and publications of the Hawaii Agricultural Experiment Station, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. National statistics appear in Section 23 of the *Statistical Abstract of the United States: 1972*.

Table 213.—AGRICULTURAL SUMMARY: 1900 TO 1969

Year	Number of farms, by size (in acres)					Farm acreage (thousands)				
	All farms	1 to 9	10 to 49	50 to 259	260 and over	Total acreage	In farms of 260 or more acres	Harvested cropland	Irrigated	
1900	2,273	1,209	656	230	178	2,610	2,568	(NA)	724.6	
1910	4,320	3,787		533		2,591	(NA)	(NA)	(NA)	
1920	5,284	2,734	1,959	374	217	2,702	(NA)	(NA)	(NA)	
1930	5,955	3,407	2,051	322	175	2,815	2,727	(NA)	(NA)	
1940	4,995	2,870	1,691	263	171	2,486	2,411	184.6	132.7	
1950	5,750	3,558	1,669	339	184	2,432	2,350	159.5	117.4	
1959	6,242	3,569	1,988	432	253	2,461	2,364	176.4	141.2	
1964	4,864	2,603	1,594	416	251	2,354	2,266	167.5	143.9	
1969	3,896	2,024	1,281	389	202	2,058	1,982	178.7	145.6	
Year	Average age of farm operators (years)	Tenant farmers			Regular hired workers ¹	Average value of land and buildings		Market value of agricultural products sold		
		Percent of all operators	Percent of farm acreage	Per farm (\$1,000)		Per acre (dollars)	Total (\$1,000)	Average per farm (\$1,000)	Percent of farms over \$2,500	
1900	(NA)	58.2	1.5	(NA)	26.4	23	(NA)	(NA)	(NA)	
1910	(NA)	71.9	(NA)	(NA)	19.2	32	(NA)	(NA)	(NA)	
1920	(NA)	70.8	(NA)	(NA)	24.4	48	(NA)	(NA)	(NA)	
1930	(NA)	72.5	21.7	(NA)	18.8	40	(NA)	(NA)	(NA)	
1940	49.9	70.6	4.6	(NA)	22.6	45	(NA)	(NA)	(NA)	
1950	47.8	57.5	1.7	21,597	34.0	80	164,554	28.6	(NA)	
1959	49.5	38.7	1.6	14,403	(NA)	(NA)	152,334	24.4	(NA)	
1964	51.0	41.1	2.6	12,375	98.9	205	187,504	38.5	46.4	
1969	53.1	38.1	18.2	13,200	156.8	297	287,939	73.9	55.6	
Year	Livestock and poultry on farms (thousands)				Quantity of crops harvested					
	Cattle and calves	Hogs and pigs	Sheep and lambs	Chickens 4 mo. old and over	Sugar-cane (1,000 tons)	Pineapples (1,000 tons)	Rice (1,000 lb.)	Coffee (1,000 lb. ²)	Macadamia nuts (1,000 lb. ³)	
1900	103	8	102	32	2,239	(NA)	33,442	(NA)	(NA)	
1910	145	20	77	64	4,240	(NA)	41,828	9,834	(NA)	
1920	137	24	43	65	4,863	150	29,572	19,884	(NA)	
1930	138	31	32	271	7,471	355	7,582	19,950	5	
1940	139	32	26	273	8,535	614	1,902	8,547	181	
1950	156	65	14	472	7,889	655	658	4,648	704	
1959	205	78	12	806	9,391	1,010	287	10,005	2,015	
1964	218	68	12	1,045	10,741	924	—	9,679	7,015	
1969	233	52	(D)	1,072	11,258	946	—	2,755	10,323	

D Data withheld to avoid disclosure of information for individual farms.

NA Not available

¹Working 150 days or more. Data for 1964 and 1969 exclude farms with sales less than \$2,500 (which accounted for 152 hired workers in 1964).

²Parchment.

³Husked, unshelled.

Source: U.S. Bureau of the Census, *U.S. Census of Agriculture: 1959*, Vol. I, Part 50; *U.S. Census of Agriculture: 1964*, Vol. I, Part 50; *U.S. Census of Agriculture: 1969*, Vol. I, Part 50.

Table 214.—AGRICULTURAL SUMMARY, BY COUNTIES: 1969

County	Number of farms, by size (in acres)					Farm acreage (thousands)				
	All farms	1 to 9	10 to 49	50 to 259	260 and over	Total acreage	In farms of 260 or more acres	Harvested cropland	Irrigated	
State total	3,896	2,024	1,281	389	202	2,058	1,982	178.7	145.6	
Hawaii	2,241	1,066	832	227	116	1,203	1,158	64.2	9.1	
Honolulu	768	555	153	32	28	147	138	31.2	41.1	
Kauai	375	185	125	47	18	273	265	28.3	42.5	
Maui	512	218	171	83	40	435	420	55.0	52.8	
County	Average age of farm operators (yrs.)	Tenant farmers		Regular hired workers ¹	Average value of land and buildings		Market value of agricultural products sold			
		Percent of all operators	Percent of farm acreage		Per farm (\$1,000)	Per acre (dollars)	Total (\$1,000)	Average per farm (\$1,000)	Percent of farms over \$2,500	
State total	53.1	38.1	18.2	13,200	156.8	297	287,939	73.9	55.6	
Hawaii	53.6	38.9	16.7	3,752	90.0	168	85,833	38.3	52.9	
Honolulu	52.1	43.6	29.9	2,944	281.7	1,474	87,025	113.3	70.1	
Kauai	52.3	37.6	30.5	2,606	224.7	308	41,596	110.9	49.3	
Maui	52.5	26.5	10.3	3,898	212.1	250	73,485	143.5	50.0	
County	Livestock and poultry on farms (thousands)			Market value of machinery and equipment ² (\$1,000)	Quantity of crops harvested					
	Cattle and calves	Hogs and pigs	Chickens 3 mo. old and over		Coffee (1,000 lb ³)	Macadamia nuts (1,000 lb. ⁴)	Papayas (1,000 lb.)	Pineapples (1,000 tons)	Sugarcane (1,000 tons)	
State total	233	52.3	1,072	90,847	2,755	10,323	20,216	946	11,258	
Hawaii	133	6.3	149	20,634	2,737	10,197	17,174	—	4,599	
Honolulu	35	35.6	773	20,997	} 17	{ 18	910	283	1,910	
Kauai	16	3.5	45	22,921			80	688	35	2,551
Maui	48	6.9	104	26,295			28	1,444	627	2,198

¹Working 150 days or more. Limited to farms with sales of \$2,500 and over.

²Limited to farms with sales of \$2,500 or more.

³Parchment.

⁴Husked unshelled.

Source: U.S. Bureau of the Census, *U.S. Census of Agriculture: 1969*, Vol. I, Part 50.

**Table 215.—NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES
1961 TO 1971**

Area and year	Number of farms	Area in farms ¹ (1,000 acres)	Value of sales (\$1,000)		
			Crops and livestock	Crops	Livestock
The State:					
1961	6,200	2,550	160,330	125,980	34,350
1962	5,700	2,500	167,255	133,001	34,254
1963	5,200	2,450	190,659	156,350	34,309
1964	5,100	2,450	172,854	137,252	35,602
1965	5,000	2,400	183,242	147,549	35,693
1966	4,900	2,400	193,663	156,408	37,255
1967	4,800	2,360	192,456	154,606	37,850
1968	4,700	2,350	200,824	162,518	38,306
1969	4,600	2,350	197,686	157,785	39,901
1970	4,500	2,340	211,545	169,472	42,073
1971	4,300	2,340	218,721	175,576	43,145
Hawaii County:					
1961	3,400	1,491	40,314	32,558	7,756
1971	2,500	1,365	68,374	54,541	13,833
Kauai County:					
1961	550	309	24,967	22,331	2,636
1971	350	284	28,425	26,088	2,337
Maui County:					
1961	1,000	584	44,623	40,593	4,030
1971	600	538	60,082	55,276	4,806
Oahu:					
1961	1,250	166	50,426	30,498	19,928
1971	850	156	61,840	39,671	22,169

¹Includes land not in crop and pasture, such as farm houselots, roads, woodlots, etc.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture* (Hawaii State Department of Agriculture, annual).

Table 216.—ACREAGE IN CROP AND PASTURE, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY COUNTY: 1961 AND 1971

Subject	State total		Counties, 1971			
	1961	1971	Hawaii	Kauai	Maui	Honolulu
Acreeage (1,000 acres):						
Sugarcane	227	237.2	106.8	49.8	45.7	34.9
Pineapples	74	64	—	2.1	44.8	17.4
Vegetables and melons	3.4	2.9	1.1	0.1	0.6	1.1
Fruits (excluding pineapples)	2.7	3.2	2.2	0.2	0.3	0.5
Coffee	5.2	3.4	3.4	—	—	—
Macadamia nuts	3.9	9.1	9.0	(W)	(W)	(W)
Pasture	1,250	1,286	796	127	324	39
Number of crop farms:						
Sugar	959	612	598	7	3	4
Pineapples	129	36	—	14	20	2
Vegetables and melons	762	419	144	32	54	189
Fruits (excluding pineapples)	692	419	208	47	51	113
Coffee	1,028	720	720	—	—	—
Macadamia nuts	216	295	290	3	1	1
Taro	202	128	35	54	37	2
Volume of crop marketings:						
Sugar (unprocessed cane; 1,000 tons)	9,595	10,811	4,493	2,251	2,326	1,741
Pineapples (fresh equivalent; 1,000 tons)	858	901	Not available by county			
Vegetables and melons (1,000 lb.)	48,257	48,615	18,620	2,010	13,525	14,460
Fruits (excluding pineapples; 1,000 lb.)	30,623	28,330	20,605	1,730	845	5,150
Coffee (parchment; 1,000 lb.)	8,432	4,000	4,000	—	—	—
Macadamia nuts (in shell; 1,000 lb.)	3,751	11,400	11,360	30	(W)	(W)
Taro (1,000 lb.)	9,690	8,840	2,230	4,930	1,590	90
Value of crop sales (\$1,000):						
Sugar (unprocessed cane)	78,600	115,800	43,700	24,100	27,400	20,600
Pineapple (fresh equivalent)	34,800	38,500	—	800	24,200	13,500
Vegetables and melons	4,842	6,798	2,329	412	1,507	2,550
Fruits (excluding pineapples)	1,766	3,745	2,548	236	298	663
Coffee (parchment)	1,886	1,348	1,348	—	—	—
Macadamia nuts (in shell)	693	2,451	2,442	(W)	(W)	(W)
Taro	580	787	200	433	143	11
Horticultural specialties	2,300	4,484	1,801	68	524	2,091
Other crops	513	1,663	173	30	1,204	256

W Withheld to avoid disclosure of individual operations.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture* (Hawaii State Department of Agriculture, annual).

Table 217.—VEGETABLES, MELONS, FRUITS, AND TARO: 1971

Crop ¹	Acreage harvested	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales (\$1,000)
Vegetables and melons:					
Snap beans	85	11.1	940	37.2	350
Head cabbage	370	25.4	9,400	7.7	724
Cucumbers	150	24.0	3,600	14.5	522
Chinese cabbage	210	20.8	4,365	7.2	314
Ginger root	23	40.2	925	27.5	254
Green onions	75	13.2	990	30.6	303
Lettuce (head or semi-head)	420	12.1	5,100	15.5	790
Tomatoes	170	25.9	4,400	20.0	880
Watercress	28	78.7	2,203	18.3	403
Watermelons	200	13.0	2,595	11.2	290
Fruits (excluding pineapples):					
Bananas	725	8.1	5,850	11.7	684
Papayas ²	970	21.2	20,540	13.8	2,670

¹List limited to crops with sales of \$250,000 or more.

²Production and value of sales based on fresh weight; farm price based on fresh market fresh weight.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture 1971* (Hawaii State Department of Agriculture, 1972).

**Table 218.—NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY COUNTY: 1961 AND 1971**

Subject	State total		Counties, 1971			
	1961	1971	Hawaii	Kauai	Maui	Honolulu
Number of livestock farms:						
Cattle (include beef and dairy)	1,780	1,320	540	210	360	210
Hogs	1,730	600	150	60	120	270
Milk	250	120	40	10	35	35
Eggs	840	160	60	15	40	45
Broilers	42	22	1	3	1	17
Honey	46	19	(W)	(W)	(W)	9
Volume of livestock:						
Beef (1,000 lb. dressed weight)	25,690	33,604	20,188	2,569	8,252	2,595
Pork (1,000 lb. dressed weight)	8,725	8,982	1,217	373	1,629	5,763
Milk (million pounds)	121	131	(W)	(W)	(W)	111.2
Eggs (million)	150	211	33.5	8.5	11.2	157.5
Broilers and chickens						
(1,000 lb. live weight)	7,098	7,759	(W)	(W)	(W)	6,917
Honey and beeswax (1,000 lb.)	306	282	(W)	(W)	(W)	44.5
Value of livestock sales (\$1,000):						
Cattle ¹	9,827	15,607	9,398	1,203	3,925	1,081
Hogs ¹	3,777	4,742	606	220	881	3,035
Milk	10,560	13,166	(W)	(W)	(W)	10,964
Eggs	7,599	7,473	1,285	(W)	(W)	5,274
Broilers and chickens	2,459	2,051	(W)	(W)	(W)	1,788
Others	128	106	(W)	(W)	(W)	27

W Withheld to avoid disclosure of individual operations.

¹Excludes interfarm sales.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture*, (Hawaii State Department of Agriculture, annual).

Table 219.—FLOWERS AND NURSERY PRODUCTS: 1971

Flower or nursery product	Farms	Quantity sold		Equivalent wholesale value (\$1,000)
		Unit	Amount	
Cut orchids:				
Cattleyas	44	1,000 flowers	63	38
Cymbidiums	25	Do.	284	84
Dendrobiums	38	1,000 dozens	16	48
Other cut orchids	42	—	—	79
Cut flowers and cultivated foliage:				
Anthuriums	207	1,000 dozens	765	1,032
Birds of paradise	33	Do.	23	31
Carnations (cut flowers)	12	Do.	32	35
Chrysanthemums (except pompom)	15	Do.	21	91
Gingers	33	Do.	48	55
Roses	16	Do.	216	162
Woodroses	13	Do.	107	44
Ti leaves	33	1,000 leaves	16,300	186
Other cut cult. foliage	27	Do.	5,500	39
Other cut flowers	36	—	—	62
Chrysanthemums (pompom)	26	1,000 bunches	395	176
Lei flowers:				
Carnation (heads)	24	1,000 flowers	22,400	346
Plumerias	12	Do.	11,700	62
Tuberoses	10	Do.	3,900	40
Orchids (Vanda Miss Joaquim)	62	Do.	58,000	502
Pikake	7	1,000 strands	147	88
Landscape material and finished potted flowering plants:				
Landscape material	93	—	—	744
Potted orchids (all species)	75	1,000's	296	405
Potted chrysanthemums	14	Do.	91	149

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture 1971* (Hawaii State Department of Agriculture, 1972).

Table 220.—MARKET SUPPLY OF SPECIFIED FOODS: 1961 TO 1971
(Eggs in 1,000 dozens; other foods in 1,000 pounds)

Year and source	Fresh market vegetables	Melons	Miscellaneous crops ¹	Fresh market fruits ²	Butter and oleomargarine	Milk ³	Red meat ⁴	Poultry meat ⁵	Eggs, shell
1961, total	90,793	4,957	61,697	44,916	7,858	121,000	71,918	15,114	14,205
Inshipments	45,284	2,402	61,697	22,563	7,858	—	37,456	10,003	1,705
From Hawaii	45,509	2,555	—	22,353	—	121,000	34,462	5,111	12,500
Percent	50.1	51.5	0	49.8	0	100.0	47.9	33.8	88.0
1970, total	113,258	10,227	56,139	52,770	6,743	135,000	92,080	25,361	17,224
Inshipments	66,036	7,397	56,139	31,820	6,743	—	51,178	19,673	824
From Hawaii	47,222	2,830	—	20,950	—	135,000	40,902	5,688	16,400
Percent	41.7	27.7	0	39.7	0	100.0	44.4	22.4	95.2
1971, total	112,673	6,810	75,273	48,221	9,039	131,000	91,403	26,009	18,387
Inshipments	69,510	4,215	75,273	31,329	9,039	—	48,817	20,264	787
From Hawaii	43,163	2,595	—	16,892	—	131,000	42,586	5,745	17,600
Percent	38.3	38.1	0	35.0	0	100.0	46.6	22.1	95.7

¹Chiefly rice (59,628 in 1961, 54,805 in 1970, and 73,289 in 1971).

²Excludes pineapple, fruits not estimated separately, and papaya outshipments to Mainland.

³Amount sold; excludes milk consumed on farms.

⁴Dressed weight

⁵Ready-to-cook.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture* (Hawaii State Department of Agriculture, annual).

Table 221.—LAND USE PRODUCTIVITY RATINGS FOR MAJOR ISLANDS: 1968

Island and land use	Agricultural productivity rating (acres)					
	Total ¹	A (very good)	B (good)	C (moderate)	D (poor)	E (very poor)
Six Islands	4,050,176	68,037	128,833	312,558	783,817	2,668,515
Island:						
Kauai	354,112	10,038	30,276	28,458	30,525	249,276
Oahu	388,928	24,584	32,286	21,986	19,728	228,218
Molokai	167,104	702	—	4,519	40,405	120,309
Lanai	89,280	—	—	4,849	20,219	63,777
Maui	466,432	32,713	20,067	38,467	99,806	268,726
Hawaii	2,584,320	—	46,204	214,279	573,134	1,738,209
Land use:						
Pineapple	69,276	—	16,204	22,131	29,038	1,903
Sugar cane	262,377	65,776	71,354	82,760	40,230	2,257
Diversified agriculture	33,569	2,261	6,497	14,218	6,205	4,388
Grassland grazing	492,905	—	22,905	116,641	175,186	178,173
Wooded grazing	657,629	—	4,313	37,776	175,767	439,773
Idle agricultural land	13,585	—	994	3,139	4,545	4,907
Forest	289,039	—	1,729	7,864	58,877	220,569
Forest reserve	1,190,954	—	1,603	14,596	237,389	937,366
Recreation	17,248	—	798	657	4,630	11,163
Game management	87,585	—	—	2,302	17,565	67,718
National park	229,423	—	—	5,191	26,554	197,678
Military	38,048	—	1,637	3,280	3,624	29,507
Undeveloped subdivision	76,814	—	799	2,003	4,198	69,814
Pali and barren land	503,308	—	—	—	9	503,299
Quarry	1,462	}		Not rated for productivity		
Water	8,063					
Urban: military	17,658					
Urban: civilian	61,233					

¹Includes quarry, water, and urban, which were not rated for productivity.

Source: Arthur Y. Ching and Tamotsu Sahara, *Land Use and Productivity Rating, State of Hawaii, 1968*, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 20-21.

SECTION 19

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.1 million acres of commercial forest in the State, most of it on the Big Island. Over 46,800 acres had been planted in eucalyptus and other species of trees by 1971. The volume of sawtimber reported in 1968 was 789 million board feet. Primary forest products harvested in 1969 had a value of \$331,000.

The commercial fish catch in 1971 exceeded 15 million pounds and had a value of \$4.6 million. *Aku* (Skipjack) accounted for almost half of the total value.

The value of mineral production reached \$28 million in 1971, most of it in cement and stone.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries, and reports of the Hawaii State Department of Land and Natural Resources Fish and Game Division and Forestry Division. Comparable Mainland statistics are reported in the *Statistical Abstract of the United States: 1972*, Sections 24, 25, and 26.

**Table 222.—AREA OF FOREST LAND, 1961, AND PLANTED FOREST, 1971
AND VOLUME OF SAWTIMBER, 1968, BY ISLAND**

Island	Forest land area, 1961 (1,000 acres)		Area of planted forest, to 1971 (acres) ³	Volume of sawtimber, 1968 (1,000 board feet) ⁴
	Total ¹	Commercial ²		
State total	1,981.6	1,088.9	46,849	788,931
Niihau	28.0	—	—	—
Kauai	223.0	136.7	4,849	37,316
Oahu	210.6	97.1	7,145	49,652
Molokai	82.9	23.6	2,781	4,204
Lanai	28.2	2.1	512	2,920
Kahoolawe	11.7	—	—	—
Maui	263.6	120.4	10,351	105,560
Hawaii	1,133.6	709.0	21,211	589,279

¹Includes commercial (1,088.9), unproductive (807.3), and productive-reserved (85.4).

²Includes Federal military (8.6), State (487.3), County (0.4), farmer-owned (365.9), and miscellaneous private (266.7).

³Chiefly Robusta Eucalyptus, other Eucalyptus, other hardwoods, and conifers.

⁴Includes Ohia (377,555), Koa (120,908), Eucalyptus (252,648), other hardwoods (19,778), and conifers (18,042).

Source: Hawaii State Department of Land and Natural Resources, Forestry Division, *Facts About Hawaii's Forests* (1969), and records.

Table 223.—PRIMARY FOREST PRODUCTS HARVESTED: 1958 TO 1969

Subject	Total	Sawlogs	Craftwood	Veneer logs	Fuelwood	Posts	Treefern
Production¹:							
1958	—	405	510	—	1,300	65.0	100
1960	—	850	100	30	1,500	37.0	115
1963	—		913	—	847	22.0	118
1967 ²	—	3,925	196	—	720	7.1	143
1969	—	1,650	422	1,056	1,720	10.1	55
Average unit value (\$):							
1958	—	100	240	—	14.50	0.83	0.35
1960	—	70	200	300	30.00	0.60	0.38
1963	—		160	—	22.43	1.05	0.33
1967	—	40	300	—	38.89	1.69	0.52
1969	—	52	230	47	31.40	1.58	0.49
Total value (\$1,000):							
1958	269	40	121	—	19	54	35
1960	197	57	20	9	45	22	44
1963	230		149	—	19	23	39
1967	334	161	58	—	28	12	75
1969	331	86	98	50	54	16	27

¹Sawlogs, craftwood, and veneer logs in 1,000 board feet, fuelwood in cords, posts in 1,000 pieces, and treefern in 1,000 cubic feet.
 Source: U.S. Department of Agriculture, Pacific Southwest Forest and Range Experiment Station, *Forest Products Harvested in Hawaii—1969*, Research Note PSW-239 (1971), p.2.

Table 224.—COMMERCIAL FISHING: 1928 TO 1972

Year ¹	Fishing boats	Fishermen	Commercial fish landings	
			Pounds	Value (dollars)
1928	949	1,530	11,727,803	1,410,089
1930	923	1,557	9,252,926	1,076,452
1935	881	2,078	10,898,617	901,630
1940 ¹	857	2,573	19,403,249	1,468,688
1945	561	2,431	3,591,965	994,836
1950	800	3,110	14,904,681	3,547,608
1955	572	1,858	19,245,366	3,575,254
1960	437	1,022	14,266,795	2,994,033
1961	443	941	13,730,912	2,898,380
1962	423	940	13,931,171	2,873,274
1963	366	808	10,879,389	2,566,045
1964	373	805	12,099,123	2,738,323
1965	387	717	17,192,431	3,355,553
1966	365	715	15,987,978	3,319,917
1967	397	801	12,354,658	3,147,566
1968	387	760	12,829,326	3,253,622
1969	509	1,028	11,096,116	3,378,553
1970	670	1,264	9,786,726	3,584,936
1971	738	1,373	15,176,525	4,633,877
1972	(NA)	1,544	15,577,302	5,536,385

NA Not available.

¹Years ended June 30, 1928 to 1935 and 1945 to 1972; calendar year 1940.

Source: Hawaii State Department of Land and Natural Resources, *Report to the Governor, 1971-1972*, pp. 43-44, and records.

**Table 225.—COMMERCIAL FISH LANDINGS, BY SPECIES AND ISLAND:
JULY 1, 1971 TO JUNE 30, 1972**

Island and species	Pounds caught	Value (dollars)	Value per pound (cents)
Total landings	15,577,302	5,536,385	35.5
ISLAND			
Hawaii	1,328,624	603,476	45.4
Maui	1,344,565	304,529	22.6
Lanai	8,530	4,161	48.8
Molokai	18,643	11,263	60.4
Oahu	12,561,985	4,483,349	35.7
Kauai	314,955	129,607	41.2
SPECIES¹			
Sea catch, total	15,563,349	5,528,467	35.5
Aku (Skipjack)	11,490,729	2,735,187	23.8
Ahi (Yellowfin)	884,043	564,694	63.9
Ahi (Bigeye)	566,513	672,456	118.7
Akule	455,555	209,577	46.0
Hahalalu	354,243	164,499	46.4
Stripe Marlin	236,518	148,111	62.6
Opelu	220,528	136,474	61.9
Mahimahi	192,757	114,232	59.3
Opakapaka	121,772	100,839	82.8
Pacific Blue Marlin ²	80,645	854	1.1
Crab (Kona)	69,331	93,609	135.0
Kahala	63,307	26,973	42.6
Ulaula Koae (Onaga)	59,124	91,189	154.2
Ulua	57,478	32,136	55.9
Uku	54,697	35,257	64.5
Other species	656,109	402,380	61.3
Pond catch, total	13,953	7,918	56.7

¹Shown separately for all species over 50,000 pounds or \$50,000.

²Because of widely publicized danger from mercury contamination, only a small part of the total catch was sold.

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, *Commercial Fish Landings, for Fiscal Year—July, 1971 through June, 1972* (September 1972).

Table 226.—MINERAL OPERATIONS: 1909 TO 1972

Kind of operation and year	Establishments	Employees	Payroll (\$1,000)	Value added in mining (\$1,000)	Value of shipments and receipts (\$1,000)	Capital expenditures (\$1,000)
Mineral industries only:						
1958	20	421	1,724	4,550	5,847	704
1963	44	315	1,658	4,909	6,525	520
1967	12	200	1,600	5,000	5,500	1,800
Including operations in mfrs:						
1909	6	43	14	16	21	(NA)
1919	5	151	95	202	251	(NA)
1954	13	171	598	1,266	1,778	193
1958	24	445	1,820	4,887	6,207	704
1963	49	339	1,758	5,677	7,462	520
1967	18	(D)	(D)	(D)	(D)	(D)
	Value of mineral production (\$1,000)				Quantity produced (1,000 short tons)	
Year	Total	Cement	Stone	Other	Cement	Stone
1968	23,225	9,254	11,273	2,649	346	5,211
1969	29,539	10,544	16,059	2,936	390	6,534
1970	28,965	10,334	15,538	3,093	407	6,332
1971	28,108	10,627	14,441	3,040	386	6,059
1972 (prel.)	28,834	11,233	14,506	3,095	393	6,270

D Withheld to avoid disclosing figures for individual companies.

NA Not available.

Source: U.S. Bureau of the Census, *Census of Mineral Industries, 1963*, MIC63(2)-10, table 1, and *Census of Mineral Industries, 1967*, MIC67(2)-10, table 1; U.S. Bureau of Mines, "The Mineral Industry of Hawaii," *Mineral Industry Surveys*, (annual preliminary and advance summary reports).

SECTION 20

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing, and residential financing.

Building permits for \$226 million in new residential construction and \$100 million in hotels, commercial buildings, and industrial structures were issued in 1971. The estimated value of construction put in place, as indicated by the contracting tax base, was \$693 million. The value of land transfers reached an all-time peak of \$1,044 million, and mortgage loans outstanding approached \$1.8 billion.

The number of occupied housing units in the State increased from 30,000 in 1900 to 87,000 in 1940 and 203,000 in 1970. Owner occupied units numbered 32,000 in 1950 and 94,000 in 1971; the latter total included 72,000 on land owned in fee and almost 22,000 on leased land. Military and public housing accounted for 21,400 units as of 1971. Housing was in short supply throughout most of the past decade: on Oahu, the 1970 vacancy rate was only 3.1 percent, although 29 percent of all units turned over at least once during the previous year. Median monthly rent for the State rose from \$64 in 1960 to \$120 in 1970, and the Oahu rent-income ratio increased from 16.9 percent in 1958 to 23.8 in 1969. The average property value of homes insured by the Federal Housing Administration in Hawaii was \$21,600 in 1960 and \$33,400 in 1969—both figures well over national averages.

The principal sources for these data are the United States Census of Housing, an annual report on *FHA Homes, Data for States and Selected Areas*, the Honolulu Redevelopment Agency's *Redevelopment and Housing Research*, reports of county building departments, and the Bank of Hawaii's *Construction in Hawaii*. Mainland statistics appear in Section 27 of *Statistical Abstract of the United States: 1972*.

Table 227.—ESTIMATED VALUE OF BUILDING PERMITS, FOR THE CITY AND COUNTY OF HONOLULU: 1912 TO 1972

Calendar year	Estimated value (\$1,000)	Calendar year	Estimated value (\$1,000)	
			All permits	New housing ¹
1912	2,400	1940	10,845	6,510
1913	1,675	1941	11,874	6,911
1914	1,275	1942	2,684	235
1915	1,450	1943	3,374	827
1916	2,350	1944	9,491	4,283
1917	2,090	1945	11,818	6,068
1918	1,500	1946	23,021	9,592
1919	4,400	1947	35,026	19,767
1920	3,403	1948	46,047	24,595
1921	5,081	1949	30,003	12,305
1922	6,222	1950	46,692	25,664
1923	5,866	1951	42,633	29,119
1924	5,643	1952	42,164	31,089
1925	8,611	1953	45,768	28,453
1926	5,733	1954	49,373	27,227
1927	6,398	1955	62,245	35,780
1928	6,750	1956	65,623	33,450
1929	7,254	1957	78,303	42,434
1930	5,921	1958	99,144	48,444
1931	3,622	1959	129,020	80,585
1932	2,423	1960	164,098	78,463
1933	1,408	1961	135,900	59,815
1934	1,717	1962	179,229	94,424
1935	3,064	1963	137,888	71,169
1936	4,940	1964	145,873	77,156
1937	7,266	1965	219,294	122,603
1938	9,584	1966	255,176	138,183
1939	10,142	1967	210,408	92,325
		1968	345,600	164,941
		1969	412,594	195,963
		1970	386,687	170,983
		1971	298,630	159,059
		1972	364,835	217,513

¹New one-family, two-family, or multi-family dwellings. Excludes hotels.

Source: City and County of Honolulu, Department of Buildings, *Report of Building Activities* for 1931 and 1935, *Summary of Building Permits* (annual report, 1951-1971), and records; Chamber of Commerce of Honolulu, *Business Statistics... 1922-1936* and *General Information About Honolulu, Hawaii, U.S.A.* for 1928-1938 (p. 31) and 1938-1942 (p. 39).

Table 228.—VALUE OF BUILDING PERMITS, BY COUNTY: 1965 TO 1972
(In thousands of dollars)

Category and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
New residential buildings:					
1965	138,625	122,603	6,334	2,840	6,848
1966	154,298	138,183	6,915	2,981	6,219
1967	108,865	92,325	6,217	2,355	7,968
1968	193,430	164,941	11,683	5,077	11,729
1969	237,834	195,963	16,876	5,273	19,722
1970	217,532	170,983	21,139	8,007	17,403
1971	226,270	159,059	33,300	9,220	24,691
1972	(NA)	207,513	38,178	19,061	(NA)
Industrial and commercial buildings:¹					
1965	69,168	53,891	7,309	4,215	3,753
1966	89,740	75,181	6,501	1,377	6,681
1967	82,774	70,980	2,857	5,391	3,546
1968	146,048	124,771	8,638	6,615	6,024
1969	203,970	160,457	26,857	8,347	8,309
1970	175,351	133,056	23,626	1,672	16,997
1971	100,190	72,318	16,981	1,727	9,164
1972	(NA)	53,705	11,670	2,362	(NA)

NA Not available.

¹Both new construction and additions, alterations, and repairs. Includes hotels.

Source: First Hawaiian Bank, *Economic Indicators Source Book* (August 1971), Series 43, 46, 47, 50, 51, 54, 55, and 58, and records.

**Table 229.—PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMIT,
BY COUNTY: 1965 TO 1972**

Category and year authorized	State total	City and County of Honolulu	Other Counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1965	5,480	4,512	968	431	202	335
1966	3,953	2,943	1,010	453	212	345
1967	3,930	3,005	925	393	160	372
1968	4,814	3,683	1,131	493	214	424
1969	4,886	3,569	1,317	652	264	401
1970	5,399	3,809	1,590	796	320	474
1971	5,802	3,771	2,031	1,014	348	669
1972	5,852	3,353	2,499	1,152	515	832
Units in new 2-family structures:						
1965	178	132	46	4	14	28
1966	80	52	28	12	12	4
1967	54	46	8	4	—	4
1968	338	330	8	6	—	2
1969	316	286	30	16	—	14
1970	228	212	16	6	6	4
1971	100	70	30	28	—	2
1972	124	112	12	4	6	2
New apartments:						
1965	5,795	5,551	244	90	6	148
1966	6,495	6,320	175	61	12	102
1967	3,341	3,159	182	18	4	160
1968	6,982	6,043	939	354	100	485
1969	8,546	7,285	1,261	390	18	853
1970	5,122	3,957	1,165	389	67	709
1971	5,623	4,017	1,606	830	29	747
1972	9,023	6,952	2,071	850	365	856
Units demolished:						
1965	1,016	794	222	64	136	22
1966	982	788	194	57	96	41
1967	1,123	722	401	82	276	43
1968	1,189	927	262	119	92	51
1969	1,000	694	306	120	128	58
1970 ¹	930	642	288	100	112	76
1971	857	596	261	80	87	94
1972	956	669	287	70	82	135

¹Hawaii and Maui Counties estimated.

Source: Compiled from County building departments by Hawaii State Department of Planning and Economic Development.

Table 230.—GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1936 TO 1972
(In thousands of dollars)

Year reported ¹	Contracting	Rentals ²	Year reported ¹	Contracting	Rentals ²
1936	8,717	13,807	1960	268,530	153,134
1937	10,754	15,187	1961	267,340	171,162
1938	13,323	16,426	1962	256,952	195,053
1939	16,122	17,637	1963	265,223	208,073
1940	18,343	20,458	1964	302,913	235,907
1941	24,733	24,499	1965	338,557	275,906
1942	132,334	28,541	1966	392,408	303,615
1943	85,524	32,745	1967	346,778	362,320
1944	43,778	34,080	1968	451,697	417,247
1945	34,363	36,216	1969	624,957	490,856
1946	47,339	36,471	1970	782,972	531,668
1947	72,325	43,838	1971	692,938	573,606
1948	73,408	51,319	1972	695,939	649,954
1949	60,831	53,470			
1950	67,710	56,174			
1951	94,788	63,787			
1952	97,867	66,221			
1953	96,905	71,516			
1954	94,673	75,224			
1955	94,227	81,894			
1956	110,457	87,713			
1957	133,609	100,041			
1958	174,449	111,152			
1959	206,822	134,060			

¹Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

²Includes hotel, office, and equipment rentals for all years.

Source: *Report of the Tax Commissioner* for 1940, 1941-1947, and 1954; Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release) for 1955-1971.

Table 231.—HONOLULU CONSTRUCTION COST INDEX: 1965 TO 1973

Year ¹	Index (1967 = 100)	
	Single-family residence	High-rise building
1965	91.0	91.6
1966	95.5	96.3
1967	100.0	100.0
1968	105.6	104.0
1969	112.9	108.0
1970	114.5	113.6
1971	120.2	118.6
1972 (prel.)	128.7	126.0
1973, April	145.2	133.9

¹Annual averages, 1965-1972;

Source: First Hawaiian Bank, *Economic Indicators Source Book—Revisions* (1971), p. 4, *Hawaii in 1972 . . . and Beyond* (1972), p. 58, and *Economic Indicators* (monthly).

Table 232.—CHARACTERISTICS OF CONSTRUCTION INDUSTRIES: 1967

Payroll and activity classification	Number of establishments	Number of proprietors and working partners	All employees (average)	Total receipts (\$1,000)
Construction industries, total	1,927	1,392	17,171	558,526
With payroll	1,220	718	17,171	543,304
Without payroll	707	674	—	15,222
General building contractors	543	351	6,802	286,422
Heavy construction contractors	92	30	2,606	65,697
Special trade contractors	1,123	922	7,036	156,727
Subdividers and developers and operative builders	169	89	727	49,680

Source: U.S. Bureau of the Census, *Census of Construction Industries, 1967. Area Statistics. Hawaii*, CC67-A-13, table 1.

Table 233.—TALLEST STRUCTURES ON OAHU: JANUARY 1973

Category and rank	Structure	Address	Year built	Stories	Height Feet
Apartment houses:					
Tallest	Yacht Harbor Towers	1600 Ala Moana Blvd.	1972	40	350
Second tallest	Contessa	2825 So. King St.	1971	37	348
Hotels:					
Tallest	Ala Moana Hotel	410 Atkinson Drive	1970	38	390
Second tallest	Waipuna Hotel	469 Ena Road	1970	38	343
Older hotels ¹	Royal Hawaiian Hotel	2259 Kalakaua Ave.	1927	6	150
	Alexander Young Hotel	Bishop St. at So. Hotel St.	1903	6	95
	Moana Hotel	2365 Kalakaua Ave.	1901	6	80
Office buildings:					
Tallest	Pacific Trade Center	1058 Alakea St.	1972	30	350
Second tallest	Ala Moana Bldg.	1441 Kapiolani Blvd.	1960	25	300
Older buildings ¹	Aloha Tower	Pier 9, foot of Fort St.	1925-26	10	184
	Stangenwald Bldg.	119 Merchant St.	1901	6	(NA)
Towers:					
Tallest military	VLF Antenna ²	Lualualei	1972	—	1,503
Tallest private	KGMB-TV	1534 Kapiolani Blvd.	c.1966	—	436
Older towers ¹	American Marconi Co. Towers ..	Kahuku	1914	—	608
	Federal Telegraph Co. Towers ..	Heeia	1912	—	438
	Dole Water Tower	650 Iwilei Rd.	1927	—	199
Other structures:					
Older structures ¹	Tripler Army Hospital	Moanalua	1948	14	189
	Central Union Church	1660 So. Beretania St.	1924	—	160
	Central Union Church	So. Beretania St. at Richards St.	1892	—	160
	Kawaiahao Church ³	957 Punchbowl St.	1835-42	—	80

NA Not available.

¹Older structures, no longer the tallest on Oahu, which were the tallest in their category at the time of completion.

²VLF Antenna of the Radio Transmitting Facility, Lualualei, of the Naval Communications Station, Honolulu. Consists of two towers, each 1,503 feet, completed in August 1972.

³Present height; it was somewhat higher before removal of the steeple in 1885.

Source: Honolulu Redevelopment Agency, "High-Rise Housing, 1971," *Redevelopment and Housing Research*, No. 21 (July 1971), pp. 18-19 and 30, and "High-Rise Construction in Hawaii, 1842-1967," *Redevelopment and Housing Research*, Supplemental Research Notes for April 1967, pp. 1-4; Building Department, City and County of Honolulu, records; Naval Communications Station, Honolulu, records.

Table 234.—NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1858 TO 1972

Year ¹	Deeds filed and recorded ²	Approx. value of land conveyed (dollars) ³	Year ¹	Deeds filed and recorded	Approx. value of land conveyed (dollars) ³
1858-1862 ⁴	102	4,883	1961	9,481	119,661,400
1888-1892 ⁴	1,044	924,349	1962	9,045	109,942,500
1903	1,810	(NA)	1963	11,061	101,987,000
1910	2,150	(NA)	1964	11,680	102,232,000
1915	2,310	(NA)	1965	12,175	101,482,100
1920	3,397	(NA)	1966	12,799	133,301,000
1925	3,614	(NA)	1967	11,643	218,966,000
1930	3,664	(NA)	1968	13,615	528,972,370
1935	3,194	6,217,540	1969	14,683	809,639,656
1940	5,753	14,017,700	1970	14,876	822,665,446
1945	6,392	40,729,000	1971	16,036	969,486,762
1950	8,215	45,125,000	1972	20,354	1,211,269,225
1955	8,553	55,332,500			
1960	10,077	121,464,000			

NA Not available.

¹Four-year periods ended March 31, 1862 and 1892, calendar year 1903, years ended June 30, 1910 to 1930, calendar years 1935 to 1950, and years ended June 30, 1955 and thereafter.

²Data for 1858-1862 refer to "patents on sales of real estate" and "patents for commuted freehold awards."

³Data limited to deeds before January 1967; data for 1967 and later years include leases, agreement of sales assignments, sub-leases, etc., as well as deeds.

⁴Annual average.

Source: *Report of the Minister of the Interior* for 1860, 1862, and 1892; *Report of the Treasurer* for 1907-1947; *Department of Land and Natural Resources Annual Report to the Governor* for 1962-1972.

Table 235.—REAL ESTATE MORTGAGE LOANS OUTSTANDING: JANUARY 1, 1940 TO 1972

Year	Amount (\$1,000)	Year	Amount (\$1,000)	Year	Amount (\$1,000)
1940 ¹	26,485	1964	770,011	1972	2,093,033
1950	106,076	1965	905,955		
1959	364,377	1966	1,022,725		
		1967	1,138,569		
1960	443,365	1968	1,228,091		
1961	508,095	1969	1,386,863		
1962	582,025	1970	1,579,560		
1963	664,864	1971	1,790,220		

¹Excludes insurance companies (1.6 percent of total in 1950).

Source: Hawaii State Department of Regulatory Agencies, Bank Examination Division and Insurance Division.

Table 236.—OCCUPIED HOUSING UNITS AND POPULATION PER UNIT: 1890 TO 1970

Year	Occupied housing units ¹				Population		Population per occupied unit ²
	Total	Owner occupied		Renter occupied	In housing units	In group quarters	
		Number	Percent				
1890	12,023	(NA)	(NA)	(NA)	60,703	29,287	5.05
1896	14,026	5,966	42.5	8,060	71,809	37,211	5.12
1900	29,763	6,321	23.1	21,086	110,306	43,695	3.71
1910	52,219	6,776	13.1	44,900	191,909		(NA)
1920	65,670	8,695	13.4	56,386	255,912		(NA)
1930	77,070	14,624	19.1	61,807	368,336		(NA)
1940	86,855	22,030	25.4	64,825	423,330		(NA)
1950	112,290	37,025	33.0	75,265	463,230	36,564	4.14
1960	153,064	62,937	41.1	90,127	592,807	39,965	3.87
1970	203,088	95,271	46.9	107,817	730,095	38,466	3.59

NA Not available.

¹Termed "private residences" in 1890 and 1896, "families" in 1900-1930, "occupied dwelling units" in 1940 and 1950, and "occupied housing units" in 1960 and 1970. Data for 1890 and 1896 exclude plantation quarters. Data for 1910-1930 include group quarters as separate units. Units with tenure unreported numbered 2,356 in 1900, 543 in 1910, 589 in 1920, and 639 in 1930.

²Based on population in housing units. Total population per occupied unit was 7.48 in 1890, 7.77 in 1896, 4.17 in 1900, 3.68 in 1910, 3.90 in 1920, 4.78 in 1930, 4.87 in 1940, 4.47 in 1950, 4.13 in 1960, and 3.78 in 1970.

Source: Robert C. Schmitt, *Demographic Statistics of Hawaii: 1778-1965* (University of Hawaii Press, 1968), pp. 78, 124, 129; *U.S. Census of Housing: 1970*, Final Report HC(1)-A13, table 2.

Table 237.—HOUSING CHARACTERISTICS: 1940 TO 1970

Year and county	All housing units	Population per occupied unit	Percent vacant ¹		Median number of rooms ¹	Percent in one-unit structures
			For rent or sale	Other vacant		
1940	90,830	(NA)	4.4		4.2	78.9
1950	120,606	4.1	2.4	4.2	4.3	71.9
1960	165,506	3.9	2.7	4.8	4.5	74.2
1970	216,568	3.6	2.9	3.0	4.6	65.0
COUNTIES: 1970						
City & Co. of Honolulu	174,653	3.6	3.1	2.3	4.5	59.0
Hawaii County	18,972	3.6	2.5	6.3	4.8	88.4
Kauai County	9,021	3.5	2.3	5.5	4.8	91.0
Maui County	13,922	3.5	1.7	6.1	4.8	91.6
Year and county	Percent lacking some or all plumbing ¹	Occupied housing units			Owner occupied: median value ²	Renter occupied: median rent ³
		Number	Percent owner occupied	Percent 1.01 or more persons per room		
1940	(NA)	86,855	25.4	38.4	2,540	17
1950	38.8	112,290	33.0	30.8	12,283	32
1960	(NA)	153,064	41.1	25.7	20,900	64
1970	5.6	203,088	46.9	19.9	35,100	120
COUNTIES: 1970						
City & Co. of Honolulu	3.3	164,763	45.0	19.9	38,100	130
Hawaii County	16.3	17,260	56.9	20.4	25,000	56
Kauai County	15.2	8,282	45.7	20.1	26,300	< 40
Maui County	13.1	12,783	58.5	19.1	23,500	46

NA Not available.

¹Data for 1970 limited to year-round housing units (215,897 for the State).

²In dollars. Value of land and building combined. Except for 1940, excludes units in multi-unit structures. Data for 1950 exclude units on leased land.

³In dollars. Contract monthly rent, excluding rent free units.

Source: *U.S. Census of Housing: 1940, General Characteristics, Hawaii*; *U.S. Census of Housing: 1950, Bulletin H-A52*; *U.S. Census of Housing: 1960, Final Report HC(1)-13*; *U.S. Census of Housing: 1970, Final Report HC(1)-A13*.

Table 238.—HOUSING CHARACTERISTICS: 1960 AND 1970

Subject	1960: percent	1970: percent		
		State total	City & Co. of Honolulu	Other counties
Year-round housing units:¹				
With more than one bathroom	21.5	39.6	40.9	34.4
In structures built previous 10 years	36.0	39.8	42.8	27.3
With air conditioning ²	1.5	11.3	13.2	2.9
With 3 or more bedrooms	46.3	52.8	50.9	60.7
Occupied housing units:				
Moved into unit previous 15 months	30.8	29.7	32.4	17.8
With 2 or more automobiles available	25.4	42.9	41.3	49.5
With clothes washing machine	80.1	74.7	73.7	79.0
With clothes dryer	7.6	28.4	31.5	15.4
With dish washer	(NA)	17.1	19.3	7.5
With home, food freezer	18.8	21.0	18.4	31.9
With television	77.9	93.4	94.4	88.9
Owned second home	(NA)	4.2	4.0	5.0

NA Not available.

¹Data for 1960 include a few vacant seasonal or migratory housing units.

²Data for 1960 limited to occupied housing units.

Source: *U.S. Census of Housing: 1960*, Final Report HC(1)-13, and *U.S. Census of Housing: 1970*, Final Report HC(1)-B13.

Table 239.—VALUE-INCOME AND RENT-INCOME RATIOS, FOR OAHU: 1960 AND 1970

Subject	1960	1970
VALUE-INCOME RATIO¹		
All owner-occupied units	43,079	65,046
Less than 1.5	6,439	8,541
1.5 to 1.9	5,744	10,646
2.0 to 2.9	12,808	20,830
3.0 to 3.9	7,604	10,745
4.0 or more	10,033	13,751
Not computed	451	533
GROSS RENT AS PERCENTAGE OF INCOME²		
All renter occupied units	69,910	90,190
Less than 10 percent	10,071	8,467
10 to 14 percent	13,540	12,966
15 to 19 percent	11,779	13,153
20 to 24 percent	8,325	10,024
25 to 34 percent	8,619	11,712
35 percent or more	10,456	20,398
Not computed	7,120	13,470
Median percentage	17.2	21.4

¹Limited to one-family homes on less than 10 acres and no business on property.

²Excludes one-family homes on 10 acres or more.

Source: *U.S. Census of Housing: 1960*, Final Report HC(2)-80, table A-4, and *U.S. Census of Housing: 1970*, Final Report HC(2)-90, table A-4.

Table 240.—TENURE AND CONTROL OF HOUSING: 1930 TO 1972

Year	All housing units ¹	Owner occupied ²		Renter occupied and vacant ³						
		Land owned	Land leased	Private	Federal				State	
					Air Force	Army	Navy	Other	Public	Other
1930	77,070	14,257	(NA)	(NA)	329	(NA)	(NA)	(NA)	—	22
1940	90,830	19,693	(NA)	(NA)	1,164	(NA)	(NA)	(NA)	171	29
1950	120,606	30,373	1,502	77,024	1,501	1,289	4,441	—	4,438	38
1960	165,506	49,798	6,247	92,805	2,085	2,922	7,089	19	4,385	156
1970	216,685	68,422	20,802	106,732	2,723	3,563	7,952	201	5,372	918
1971	228,393	72,086	21,732	113,175	3,085	3,577	8,226	201	5,372	939
1972	238,595	75,939	24,565	116,936	3,121	3,649	7,983	206	5,399	797
City & Co. of Honolulu	190,726	53,320	24,090	93,468	3,121	3,634	7,927	174	4,700	292
Hawaii County	21,641	10,679	264	10,125	—	15	—	8	360	190
Kauai County	9,652	3,888	92	5,386	—	—	56	9	128	93
Maui County	16,576	8,052	119	7,957	—	—	—	15	211	222

NA Not available.

¹Data refer to “families” for 1930 and “dwelling units” for 1940 and 1950, and are only approximately comparable to housing unit totals for 1960 and later years. All data refer to April 1.

²As of January 1, 1930 to 1960, and July 1, 1970 to 1972. Based on the number of taxpayers granted home exemptions. Owner occupants of apartments in cooperative and condominium apartment houses were not eligible before 1961. Totals based on this source are somewhat lower than corresponding U.S. Census figures, in part because of eligibility restrictions. The 1970 U.S. Census reported 95,271 owner occupied housing units, including 4,727 cooperative or condominium owner occupied units.

³Data for government agencies include housing leased by these agencies from private owners. Housing owned by the Navy but controlled by the Hawaii Housing Authority is included with the State public housing total. Housing for teachers and school custodians, formerly operated by the counties and now by the State, is included with private housing totals through 1964 and thereafter with the State non-public totals.

Source: Honolulu Redevelopment Agency, *Redevelopment and Housing Research*, No. 2 (October 1955), pp. 52-53, No. 15 (May 1959), p. 51, No. 18 (October 1960), p. 7, No. 25 (July 1965), pp. 21-22, No. 30 (July 1970), p. 6, No. 31 (July 1971), p. 5, and No. 32 (July 1972), pp. 5 and 7, and Supplemental Research Notes for January 1970 (p. 8) and January 1972 (p. 10); *Report of the Treasurer ... 1931*, p. 9.

Table 241.—POSTAL VACANCY SURVEYS OF OAHU: 1955 TO 1973

Survey date	All possible deliveries ¹	Vacant units				Under construction
		Used and new		Used ²	New ²	
		Number	Percent			
1955: Feb. 16	100,600	1,334	1.3	(NA)	(NA)	1,054
1956: Mar. 5-9	104,333	1,734	1.7	(NA)	(NA)	1,522
1959: May 12-14	119,800	1,982	1.7	(NA)	(NA)	6,927
1960: October	118,992	3,264	2.7	959	894	6,377
1961: Oct. 16-20	121,750	3,615	3.0	1,847	885	2,825
1963: Sept. 18	131,214	3,368	2.6	2,365	487	4,836
1965: Sept. 14-30	130,234	3,106	2.4	2,044	1,062	4,902
1967: Feb. 27-Mar. 2	145,032	2,713	1.9	1,915	798	3,631
1969: Feb. 12-16	156,175	1,812	1.2	1,188	624	5,873
1970: Feb. 9-18	162,835	2,715	1.7	1,700	1,015	6,704
1971: Apr. 23-May 4	175,359	3,956	2.3	2,038	1,918	3,727
1972: Feb. 24-28	192,848	3,289	1.7	1,490	1,799	6,361
1973: Feb. 15-22	189,209	2,805	1.5	1,163	1,642	9,217

NA Not available.

¹Data before 1965 refer to "dwelling units" or "housing units" rather than "deliveries" and are not exactly comparable to data for 1965 and later years.

²Limited to privately owned housing before 1965.

Source: U.S. Department of Housing and Urban Development, Federal Housing Administration, releases.

Table 242.—POSTAL VACANCY SURVEYS OF THE NEIGHBOR ISLANDS: 1967 TO 1973

Place and date	All possible deliveries	Vacant units				Under construction
		Used and new		Used	New	
		Number	Percent			
Hilo:						
1967: Feb. 27-Mar. 1	7,937	195	2.5	138	57	98
1970: Feb. 12	7,303	51	0.7	31	20	131
1971: May 11	7,957	121	1.5	73	48	294
1972: Feb. 28	8,174	139	1.7	50	89	500
1973: Feb. 22	9,055	296	3.3	130	166	475
Kauai:¹						
1967: Feb. 27-Mar. 1	1,896	64	3.4	37	27	48
1969: June 18-24	2,518	24	1.0	22	2	104
1970: Feb. 10	2,263	42	1.9	33	9	44
1971: July 31	2,212	12	0.5	6	6	54
1973: Feb. 20-21	2,722	13	0.5	12	1	56
Maui:						
1967: Feb. 27-Mar. 1 ²	4,774	39	0.8	27	12	80
1970: Feb. 10-12 ³	6,531	36	0.6	29	7	325
1971: July 31 ²	6,225	34	0.5	30	4	126

¹Kapaa and Lihue only.

²Kahului and Wailuku only.

³Kahului, Lahaina, and Wailuku only.

Source: U.S. Department of Housing and Urban Development, Federal Housing Administration, releases.

**Table 243.—AVERAGE VALUES FOR HOMES INSURED UNDER F.H.A.
SECTION 203: 1939 TO 1972**

Type of home and year	Property value (dollars)	Market price of site		Improved floor area (square feet)	Lot size (square feet)	Dollars per square foot		
		Amount (dollars)	Pct. of property value			Sale price	Site price	Const. cost
New homes:								
1939 ¹	5,176	1,094	21.1	(NA)	9,200	(NA)	0.12	(NA)
1954	14,451	4,670	32.3	944	(NA)	(NA)	(NA)	(NA)
1960	21,622	6,502	30.1	1,063	(NA)	17.50	(NA)	(NA)
1966	27,533	11,259	40.9	1,091	7,363	23.08	1.68	16.13
1970	38,713	16,577	42.8	1,152	6,834	31.81	2.45	19.68
1972, 2d qtr.	46,622	18,180	39.0	1,254	7,123	36.87	2.66	22.65
Existing homes:								
1939:	5,324	1,813	34.1	(NA)	(NA)	(NA)	(NA)	—
1954	16,215	5,382	33.2	1,064	(NA)	(NA)	(NA)	—
1960	20,093	6,396	31.8	1,022	(NA)	18.34	(NA)	—
1966	27,595	12,437	45.1	1,046	7,350	22.30	1.92	—
1970	34,319	13,118	38.2	1,079	7,522	30.03	1.89	—
1972, 2d qtr.	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	—

NA Not available.

¹1937 data for lot size and site price per square foot.

Source: *Annual Report of the Federal Housing Administration* (annual, 1937-1954); U.S. Department of Housing and Urban Development, *FHA Homes. Data for States and Selected Areas* (annual, 1960-1970) and *FHA Trends: State Trends* (quarterly).

SECTION 21

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy.

The number of manufacturing establishments in Hawaii increased from 222 in 1899 to 474 in 1939 and 697 in 1967, and the value added by manufacture rose from \$11 million to \$58 million to \$326 million during the same period. Over 77 percent of all manufacturing activity in the State was on Oahu in 1967. Food processing—mostly sugar and pineapple—accounted for 57 percent of the value added by manufacture in that year. Growth has been most rapid, however, in manufacturing outside of the sugar and pineapple industries. Between 1961 and 1971, the general excise and use tax base increased 61 percent for sugar processing, 33 percent for pineapple canning, and 69 percent for all other manufacturing.

Sources for data on this subject include the United States Census of Manufactures, most recently taken as of 1967, the Annual Survey of Manufactures, and publications of the Hawaii State Department of Labor and Industrial Relations and Department of Taxation, Hawaiian Sugar Planters' Association, and Pineapple Growers Association of Hawaii. Statistics for the nation as a whole appear in Section 28 of the *Statistical Abstract of the United States: 1972*.

Table 244.—MANUFACTURING: 1899 TO 1971

Year ¹	Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)
	Total	With 20' employees or more	Number	Payroll (million dollars)	Number	Man-hours (millions)	Wages (million dollars)				
1899	222	(NA)	4,418	2.0	3,655	(NA)	1.5	11.1	(NA)	(NA)	(NA)
1909	500	(NA)	7,572	2.8	5,904	(NA)	2.1	21.6	(NA)	(NA)	(NA)
1919	496	(NA)	11,744	8.7	9,969	(NA)	6.6	51.9	(NA)	(NA)	(NA)
1939	474	(NA)	19,518	15.3	17,002	(NA)	11.5	58.4	(NA)	(NA)	(NA)
1954	520	137	24,381	77.1	19,524	36.1	50.8	140.3	(NA)	(NA)	11.7
1958	618	179	23,896	82.2	17,823	31.9	51.8	164.9	(NA)	(NA)	17.2
1959	(NA)	(NA)	25,962	93.1	19,397	35.9	61.8	197.1	(NA)	(NA)	(NA)
1960	(NA)	(NA)	23,456	89.4	17,358	32.7	56.6	183.2	(NA)	(NA)	60.6
1961	(NA)	(NA)	23,238	93.4	16,840	31.2	57.4	204.5	(NA)	(NA)	31.5
1962	(NA)	(NA)	22,645	94.0	16,159	29.9	57.5	199.0	(NA)	(NA)	14.2
1963	672	203	25,144	109.0	18,722	33.2	67.5	261.1	(NA)	(NA)	15.4
1964	(NA)	(NA)	25,000	113.7	18,300	33.1	69.4	268.8	372.0	638.4	17.7
1965	(NA)	(NA)	25,400	118.1	18,700	34.0	73.5	292.1	365.9	655.5	17.2
1966	(NA)	(NA)	24,800	123.8	18,700	34.3	78.2	310.8	371.5	680.9	24.1
1967	697	215	25,400	139.6	19,000	35.9	86.9	326.2	399.6	723.4	26.0
1968	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1969	(NA)	(NA)	23,900	145.3	17,900	33.2	90.8	351.0	408.3	758.1	19.8
1970	(NA)	(NA)	24,800	168.7	18,100	35.3	102.8	408.6	451.1	856.9	40.5
1971	(NA)	(NA)	24,400	176.6	17,500	34.3	105.7	435.0	465.9	899.9	28.0

NA Not available.

¹Data for 1899-1958, 1963, and 1967 are from the Census of Manufactures for those years. Data for other years are from the Annual Survey of Manufactures and are subject to considerable sampling variation. Because of changes in definitions over time, data are not entirely comparable from year to year; see sources for discussion.

Source: U.S. Bureau of the Census, *Census of Manufactures, 1963*, MC63(3)-12, table 2; *Census of Manufactures, 1967*, MC67(3)-12, table 2; and *Annual Survey of Manufactures, 1971* M71(AS)-6.9, p. 5.

Table 245.—MANUFACTURING, BY INDUSTRY GROUP AND ISLAND: 1971

Island and industry group	All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials (million dollars)	Value of industry shipments (million dollars)	Capital expenditures, new (million dollars)	End-of year-inventories (million dollars)
	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (millions)	Wages (million dollars)					
State total	24.4	176.6	17.5	34.3	105.7	435.0	465.9	899.9	28.0	92.2
Island:										
Oahu	20.2	143.8	14.4	27.8	82.7	321.7	369.5	691.2	16.7	71.3
Other Islands	4.2	32.8	3.1	6.5	23.0	113.3	96.4	208.7	11.3	20.9
Industry group:										
Food and kindred products	11.7	83.8	8.5	17.2	52.9	254.0	276.9	529.4	18.7	41.1
Canned fruits, vegetables	4.9	27.9	4.4	8.3	21.0	67.1	83.3	150.5	2.9	20.8
Raw cane sugar	3.5	28.0	2.4	5.3	18.4	118.1	75.3	193.4	9.7	6.5
Other food products	3.3	27.9	1.7	3.6	13.5	68.8	118.3	185.5	6.1	13.8
Apparel, other textile products	3.1	13.6	2.7	5.3	9.6	24.3	14.4	38.9	(D)	5.3
Lumber and wood products	0.4	2.8	0.4	0.6	1.9	2.1	7.5	9.7	0.1	1.4
Printing and publishing	2.6	21.4	1.4	2.5	10.3	49.0	12.6	61.9	1.4	2.5
Stone, clay, glass products	1.2	10.9	0.9	1.5	7.1	26.8	23.5	50.1	2.3	6.1
Fabricated metal products	0.6	4.2	0.5	1.0	2.4	12.8	27.5	40.9	0.2	13.0
Machinery, except electrical	0.4	3.2	0.3	0.6	2.4	4.7	3.0	7.3	0.2	2.0
Misc. mfg. industries	0.6	2.5	0.5	0.9	1.7	4.6	3.4	7.9	0.2	0.9
Administrative, auxiliary	0.7	8.5	—	—	—	—	—	—	—	—

D Withheld to avoid disclosing figures for individual companies.

Source: U.S. Bureau of the Census, *Annual Survey of Manufactures, 1971*, M71(AS)-6.9, pp. 10 and 15.

Table 246.—GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1936 TO 1972
(In thousands of dollars.)

Year reported ¹	Sugar processing	Pineapple canning ²	Manu- facturing ³	Year reported ¹	Sugar processing	Pineapple canning ²	Manu- facturing ³
1936	62,333	36,836	(NA)	1960	99,079	96,939	145,739
1937	54,186	49,254	(NA)	1961	118,398	93,777	168,514
1938	48,667	26,181	(NA)	1962	135,328	99,143	158,157
1939	46,126	37,331	18,060	1963	146,761	99,353	170,501
1940	46,141	35,972	14,115	1964	148,103	109,808	178,830
1941	52,687	53,156	26,812	1965	152,701	123,761	188,741
1942	51,757	42,520	29,077	1966	178,909	105,747	205,463
1943	64,881	44,421	28,542	1967	171,155	131,695	218,272
1944	62,418	47,876	25,063	1968	184,663	114,554	234,071
1945	62,107	41,460	28,745	1969	196,744	116,466	279,482
1946	62,875	49,034	27,651	1970	175,337	114,634	285,251
1947	83,540	61,083	38,303	1971	190,209	124,548	284,929
1948	76,494	68,744	74,470	1972	205,962	124,265	307,833
1949	77,465	64,824	70,948				
1950	109,484	94,742	73,479				
1951	109,644	75,244	86,627				
1952	107,964	92,729	88,925				
1953	119,823	87,166	104,598				
1954	111,520	90,412	93,839				
1955	120,516	105,936	103,767				
1956	103,948	97,913	104,715				
1957	121,119	97,465	101,956				
1958	67,358	107,300	103,867				
1959	113,865	98,957	129,123				

NA Not available.

¹Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income-year" ended November 30.

²Includes canning of products other than pineapple through 1957.

³Excludes sugar processing and pineapple canning. Includes printing and publishing, shown separately before 1955. Canning of products other than pineapple excluded through 1957, and included beginning in 1958.

Source: *Report of the Tax Commissioner* for 1940, 1941-1947, and 1954; Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release) for 1955-1972.

Table 247.—HAWAIIAN PINEAPPLE PRODUCTION: 1903 TO 1972

Year ¹	Single-strength canned pineapple (actual cases)			Concentrated pineapple juice (equivalent 6/10 cases)
	Total fruit and juice	Fruit	Juice	
1903	1,893	1,893	—	—
1905	45,041	45,041	—	—
1910	464,968	464,968	—	—
1915	2,669,916	2,669,916	—	—
1920	5,986,982	5,986,982	—	—
1925	8,728,580	8,728,580	—	—
1930	12,672,296	12,672,296	—	—
1935-36	15,515,176	11,428,246	4,086,930	—
1940-41	21,755,716	10,947,414	10,808,302	—
1945-46	17,722,102	9,050,898	8,671,204	—
1950-51	27,451,562	15,097,960	12,353,602	—
1955-56	30,836,161	18,612,561	12,223,600	—
1960-61	30,035,864	18,461,912	11,573,952	723,619
1961-62	29,880,482	18,121,674	11,758,808	449,715
1962-63	30,395,233	18,457,107	11,938,126	728,075
1963-64	28,794,589	17,644,797	11,149,792	1,184,964
1964-65	26,728,812	16,301,014	10,427,798	1,041,084
1965-66	29,714,443	17,833,405	11,881,038	1,019,422
1966-67	30,327,598	19,004,793	11,322,805	1,062,423
1967-68	27,796,082	17,001,665	10,794,417	642,662
1968-69	28,658,408	17,728,421	10,929,987	691,617
1969-70	28,784,396	16,970,762	11,813,634	731,294
1970-71	28,307,910	17,717,851	10,590,059	1,015,664
1971-72	28,836,851	17,832,714	11,004,137	918,131

¹Calendar years, 1903-1930; pack years ended May 31, 1936 and thereafter.

Source: Pineapple Growers Association of Hawaii, *Pineapple Fact Book Hawaii 1973* (January 1973), p. 18, and records.

Table 248.—SUGAR PRODUCTION: 1837 TO 1972

Year	Sugar produced (short tons)	Year	Sugar produced (short tons)	Year	Sugar produced (short tons)	
1837	2	1860	572	1885	85,695	
1840	180	1865	7,659	1890	129,899	
1845	151	1870	9,392	1895	149,627	
1850	375	1875	12,540	1900	289,544	
1855	145	1880	31,792	1905 ¹	426,248	
Year	Total cane land (acres)	Sugar produced (96° raw value, short tons)	Average yield per acre (short tons)	Ave. N.Y. raw sugar price cwt. (dollars)	Ave. daily cash wage, non-superv. employees ² (dollars)	Man-hours per ton of sugar, raw value
1910 ¹	209,469	529,940	37.4	—	—	—
1915 ¹	239,800	650,970	45.8	—	—	—
1920 ¹	247,838	560,379	39.2	—	—	—
1925 ¹	240,597	781,000	52.2	—	—	—
1930 ¹	242,761	939,287	58.7	—	—	—
1935	246,491	986,849	67.8	3.23	1.70	—
1940	235,110	976,677	62.7	2.78	2.18	—
1945 ³	211,331	821,216	71.4	3.75	5.10	33.24
1950	220,383	960,961	74.7	5.93	8.30	25.86
1955	218,819	1,140,112	92.94	5.95	10.62	17.42
1960	224,617	935,744	83.15	6.31	13.18	16.72
1961	227,027	1,092,481	88.58	6.30	14.11	13.90
1962	228,926	1,120,011	90.36	6.45	14.96	13.76
1963	231,321	1,100,768	93.39	8.20	16.68	13.56
1964	233,145	1,178,770	94.76	6.90	17.60	11.76
1965	235,576	1,217,667	97.97	6.75	18.40	10.82
1966	237,499	1,234,121	98.82	6.99	19.76	10.50
1967	239,813	1,191,042	98.74	7.28	21.35	10.64
1968	242,476	1,232,182	99.36	7.52	21.62	9.98
1969	242,216	1,182,414	95.73	7.75	23.26	9.44
1970	238,997	1,162,071	91.88	8.08	24.24	9.50
1971	232,278	1,229,976	92.26	8.52	26.08	9.04
1972	229,610	1,118,883	91.55	9.10	29.09	—

¹Production year ended September 30.

²Cash wage only. Excludes value of housing, medical care, and other perquisites provided without charge to employees until elimination of the perquisite system in December 1946. Also excludes value of "employee benefits", estimated at \$10.00 in 1971.

³Value for man-hours per ton refers to 1946.

Source: U.S. Bureau of Labor Statistics, *Labor Conditions in the Territory of Hawaii, 1929-1930* (1932), pp. 12-13; Hawaiian Sugar Planters' Association, *HSPA Sugar Manual 1972* (1972), pp. 6-9, and records.

SECTION 22

DISTRIBUTION AND SERVICES

This section presents statistics relating to retail trade, wholesale trade, and selected services.

These activities have undergone rapid growth in recent decades. Retail sales increased from \$121 million in 1939 to \$522 million in 1958 and \$1.1 billion in 1967. Wholesale sales rose from \$97 million to \$1.0 billion in the same 28-year period. Hotels, amusements, and other services reported receipts of \$295 million in 1967, compared with \$101 million in 1958 and only \$15 million in 1939. General excise and use tax base data for more recent years indicate continued increases; between 1967 and 1972, the retailing tax base rose 74 percent, the wholesaling base by 76 percent, and the base for services by 89 percent.

Growth has been especially rapid for hotels. The number of units in the State rose from 1,572 late in 1946 to 9,522 in 1960 and 36,608 in February 1973. Occupancy rates averaged 70 percent in Waikiki and 66 percent on the Neighbor Islands during 1972. The average daily room rate was \$24.28 in 1971. The hotel payroll in 1971 totalled \$78 million, compared with \$14 million ten years earlier.

The major source for these data is the United States Census of Business, most recently conducted in 1967. Statistics on the retailing, wholesaling, and services tax base are available from the Hawaii State Department of Taxation. Data on hotel room counts and occupancy are published by the Hawaii Visitors Bureau. The *Statistical Abstract of the United States: 1972*, Sections 29 and 30, presents similar data for the nation as a whole.

**Table 249.—RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES,
FOR HAWAII: 1939 TO 1967**

(Coverage varies somewhat from year to year)

Year	Retail trade		Wholesale trade		Selected services ¹	
	Establishments	Sales (\$1,000)	Establishments	Sales (\$1,000)	Establishments	Receipts (\$1,000)
1939	4,256	120,681	704	97,045	2,186	15,340
1948	4,881	382,680	702	480,734	2,337	44,617
1954	4,807	426,115	594	581,940	2,595	64,726
1958	4,760	521,877	793	618,155	3,070	101,142
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	294,828

¹Includes hotels; personal services; miscellaneous business services; automobile repair, services, and garages; miscellaneous repair services; and motion pictures and other amusement and recreation services.

Source: U.S. Bureau of the Census, *U.S. Census of Business: 1948*, Bulletin No. 1-RWS-51; *U.S. Census of Business: 1958*, Bulletins BC58-RA52, BC58-SA52, and BC58-WA52; *U.S. Census of Business: 1967*, Bulletins BC67-RA13, BC67-SA13, and BC67-WA13.

Table 250.—RETAIL TRADE, BY GEOGRAPHIC AREA AND KIND OF BUSINESS: 1967

Subject	Number of establishments	Sales (\$1,000)	Proprietors	Payroll, entire year (\$1,000)	Paid employees, March 12
Total ¹	5,212	1,083,458	4,408	147,608	41,347
GEOGRAPHIC AREA					
City and County of Honolulu ²	3,837	899,741	3,245	126,411	35,135
City of Honolulu ²	2,965	734,546	2,459	107,532	29,566
Kailua	153	33,780	119	4,150	1,141
Remainder of county	719	131,415	667	14,729	4,428
County of Hawaii	642	83,635	547	9,523	2,911
Hilo	362	58,975	279	7,251	2,201
Remainder of county	280	24,660	268	2,272	710
County of Kauai	320	42,487	265	5,098	1,388
County of Maui	413	57,595	349	6,576	1,913
Lanai	11	1,803	10	(W)	(W)
Maui	375	52,921	313	6,131	1,779
Molokai	27	2,871	26	(W)	(W)
KIND OF BUSINESS					
Building materials, hardware, farm equipment dealers	68	26,016	50	4,087	691
General merchandise stores	279	187,258	225	26,155	7,540
Food stores	852	254,536	793	20,388	5,756
Automotive dealers	159	153,597	93	16,300	2,688
Gasoline service stations	457	72,987	437	8,437	3,225
Apparel and accessory stores	403	67,321	230	10,433	2,930
Furniture, home furnishings, equipment stores	274	40,650	197	5,581	1,170
Eating and drinking places	1,255	143,860	1,104	39,613	13,396
Drug stores, proprietary stores	101	40,717	53	4,511	1,133
Miscellaneous retail stores	1,065	78,943	925	9,699	2,258
Nonstore retailers	299	17,573	301	2,404	560

W Withheld to avoid disclosure.

¹Excludes commissaries, exchanges, and eating and drinking places operated for military personnel by the U.S. Department of Defense. Total sales for these groups amounted to \$109,467,000 in 1967.

²Revised since publication of the census bulletin.

Source: U.S. Bureau of the Census, *Census of Business, 1967. Retail Trade: Hawaii*, BC67-RA13, and special tabulation for the County of Maui.

Table 251.—RETAIL TRADE FOR MAJOR RETAIL CENTERS ON OAHU: 1948 TO 1967

Retail center	Sales (\$1,000)			Percent distribution		
	1948	1958	1967	1948	1958	1967
Oahu	285,710	415,471	884,069	100.0	100.0	100.0
Honolulu ¹	249,850	346,094	720,371	87.4	83.3	81.5
Central business district	71,648	64,059	55,138	25.1	15.4	6.2
Waikiki	14,824	31,881	84,005	5.2	7.7	9.5
Ala Moana Center	—	—	122,051	—	—	13.8
Waialae-Kahala	—	4,152	15,984	—	1.0	1.8
Kapalama	(NA)	(NA)	23,896	(NA)	(NA)	2.7
Remainder of Oahu ¹	35,860	69,377	163,698	12.6	16.7	18.5
Kailua Shopping Center ...	(NA)	8,835	22,769	(NA)	2.1	2.6
Wahiawa Shopping Center .	(NA)	(NA)	18,883	(NA)	(NA)	2.1

NA Not available.

¹Includes areas not shown separately.

Source: Honolulu Redevelopment Agency, *Redevelopment and Housing Research*, No. 7, January 1957, pp. 25-26; U.S. Bureau of the Census, *U.S. Census of Business, 1958*, BC58-CBD36, and *U.S. Census of Business, 1967*, BC67-MRC-12.

Table 252.—MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS: 1967

Merchandise line	The State		Oahu	
	Establishments	Sales (\$1,000)	Establishments	Sales (\$1,000)
All lines	3,537	1,041,540	2,644	869,784
Groceries, other foods	807	217,420	540	166,248
Meals, snacks	1,047	107,012	815	96,349
Alcoholic drinks	454	35,627	350	32,782
Packaged alcoholic beverages	392	22,913	244	18,700
Cigars, cigarettes, tobacco	613	14,601	406	11,862
Cosmetics, drugs, cleaners	501	42,223	317	37,655
Men's, boys' clothing, exc. footwear	382	39,779	227	34,507
Women's, girls' clothing, exc. footwear	493	75,472	317	67,150
All footwear	286	17,719	187	15,746
Curtains, draperies, dry goods	252	23,298	133	19,878
Major appl., radio, TV, musical inst.	264	35,400	172	30,177
Furniture, sleep equip., floor cov.	164	19,978	105	17,323
Kitchenware, home furnishings	306	15,728	196	14,090
Jewelry, optical goods	323	17,195	221	15,241
Sporting, recreation equipment	176	9,577	112	8,587
Hardware, gardening equipment	251	11,890	132	9,365
Lumber, building materials	129	15,515	72	8,175
Automobiles, trucks	100	128,359	72	106,807
Auto fuels, lubricants	477	57,175	337	47,018
Auto tires, batteries, access.	479	28,426	354	21,789
Farm equipment machinery	16	1,766	6	1,462
Hay, grain, feed, farm supplies	103	7,278	36	4,952
All other merchandise	764	57,334	519	49,484
Nonmerchandise receipts	1,074	39,479	828	34,188
Miscellaneous merchandise	—	376	—	248

Source: U.S. Bureau of the Census, *Census of Business, 1967. Retail Trade. Merchandise Line Sales. Hawaii*, BC67-MLS-13, pp. 3 and 12.

**Table 253.—WHOLESALE TRADE, BY GEOGRAPHIC AREA, TYPE OF OPERATION,
AND KIND OF BUSINESS: 1967**

Subject	Establishments	Sales (\$1,000)	Payroll, entire year (\$1,000)	Paid employees, March 12	Proprietors
Total	1,030	1,013,813	76,054	12,442	311
GEOGRAPHIC AREA					
City and Co. of Honolulu	849	912,333	67,698	10,742	267
City of Honolulu	802	891,432	66,673	10,545	243
Remainder of county	47	20,901	1,025	197	24
County of Hawaii	99	61,709	4,960	1,035	17
County of Kauai	29	14,821	1,504	284	11
County of Maui	53	24,950	1,892	381	16
Maui	49	23,461	1,757	357	16
Molokai	4	1,489	135	24	—
TYPE OF OPERATION					
Merchant wholesalers	754	537,555	—	—	—
Manufacturers' sales branches	118	201,273	—	—	—
Mdse. agents, brokers	82	144,500	—	—	—
Other operating types	76	130,485	—	—	—
KIND OF BUSINESS					
Motor vehicles, automotive equipment	70	62,804	5,381	914	19
Groceries, related products	232	244,888	11,876	2,283	88
Electrical goods	62	84,760	6,494	1,031	12
Machinery, equip., supplies	159	86,835	13,439	2,004	41
Petroleum bulk terminals	43	118,063	2,374	335	3
Lumber and construction materials	34	57,366	4,841	839	9
Other products	430	359,097	31,649	5,036	139

Source: U.S. Bureau of the Census, *Census of Business, 1967. Wholesale Trade: Hawaii*, BC67-WA13, and special tabulation for Maui County.

Table 254.—SELECTED SERVICES, BY GEOGRAPHIC AREA AND KIND OF BUSINESS: 1967

Subject	Establishments	Receipts (\$1,000)	Proprietors	Payroll, entire year (\$1,000)	Paid employees, March 12
Total	4,057	294,828	2,784	88,024	22,004
GEOGRAPHIC AREA					
City and Co. of Honolulu	3,208	236,858	2,141	71,587	17,362
City of Honolulu	2,454	218,623	1,530	67,124	16,125
Remainder of County	754	18,235	611	4,463	1,237
County of Hawaii	387	26,503	302	7,723	2,134
County of Kauai	184	13,850	130	3,822	1,039
County of Maui	278	17,617	211	4,892	1,469
Lanai	7	(W)	(W)	(W)	(W)
Maui	245	16,655	179	4,675	1,382
Molokai	26	(W)	(W)	(W)	(W)
KIND OF BUSINESS					
Hotels, motels, camps	212	113,216	105	32,744	8,509
Personal services	1,541	40,512	1,119	14,975	4,032
Miscellaneous business services	895	60,520	593	21,331	4,515
Automobile repair, services, garages	487	39,283	375	7,823	1,791
Miscellaneous repair services	384	9,731	298	2,380	440
Motion pictures	68	9,531	24	1,662	701
Amusement and recreation, except motion pictures	470	22,035	270	7,109	2,016

W Withheld to avoid disclosure

Source: U.S. Bureau of Census, *Census of Business, 1967. Selected Services: Hawaii*, BC67-SA13, and special tabulation for Maui County.

Table 255.—HOTEL UNITS, OCCUPANCY RATES, EMPLOYMENT, AND PAYROLL: 1939 TO 1972

Year	Number of hotel units ¹			Percent occupied ²		Hotel employment ²	Payroll (\$1,000)
	State total	Oahu	Neighbor islands	Waikiki	Neighbor islands		
1939	(NA)	(NA)	(NA)	(NA)	(NA)	1,579	1,623
1940	2,634	2,101	533	(NA)	(NA)	1,735	1,742
1941	(NA)	(NA)	(NA)	(NA)	(NA)	1,881	2,136
1942	(NA)	(NA)	(NA)	(NA)	(NA)	1,488	2,099
1943	(NA)	(NA)	(NA)	(NA)	(NA)	1,115	1,802
1944	(NA)	(NA)	(NA)	(NA)	(NA)	1,192	2,147
1945	(NA)	(NA)	(NA)	(NA)	(NA)	1,206	2,416
1946	1,572	1,006	566	(NA)	(NA)	1,313	2,675
1947	1,958	1,392	566	(NA)	(NA)	1,898	4,294
1948	1,958	1,392	566	(NA)	(NA)	1,929	4,448
1949	1,980	1,392	588	(NA)	(NA)	1,821	3,954
1950	2,003	1,415	588	(NA)	(NA)	1,830	4,219
1951	2,197	1,597	600	(NA)	(NA)	2,109	5,173
1952	2,412	1,788	624	(NA)	(NA)	2,283	5,501
1953	2,925	2,212	713	(NA)	(NA)	2,362	6,151
1954	3,101	2,372	729	84.3	(NA)	2,535	6,663
1955	4,115	3,300	815	81.5	(NA)	2,913	7,784
1956	4,327	3,500	827	80.5	(NA)	3,175	8,480
1957	4,754	3,877	877	84.6	(NA)	3,464	9,398
1958	5,494	4,454	1,040	78.9	(NA)	3,654	9,835
1959	6,802	5,657	1,145	88.3	(NA)	3,677	10,946
1960	9,522	8,118	1,404	75.3	(NA)	4,235	13,364
1961	10,193	8,720	1,473	70.1	(NA)	4,666	14,227
1962	10,915	9,098	1,817	74.2	65.5	4,629	15,158
1963	11,403	9,203	2,200	77.4	66.0	5,621	19,070
1964	12,903	10,031	2,872	74.5	68.0	5,834	21,080
1965	14,827	11,083	3,744	82.1	68.2	6,308	23,438
1966	17,217	12,598	4,619	83.7	67.1	7,316	28,173
1967	18,235	13,004	5,231	90.0	72.8	8,944	34,927
1968	21,243	15,138	6,105	89.2	75.2	10,783	46,730
1969	25,822	18,209	7,613	81.3	69.3	12,546	58,212
1970	30,323	21,217	9,106	74.1	64.8	13,613	66,924
1971	35,349	24,612	10,737	58.9	63.5	15,550	78,222
1972	35,653	24,441	11,212	70.0	66.4	(NA)	(NA)

NA Not available.

¹Month unspecified, 1940 to 1959; December, 1960 to 1967; November, 1968; October, 1969 and later years.

²Annual averages.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii* (annual), and records; Hawaii State Department of Planning and Economic Development, *Hawaii Tourism Data Book 1969*, pp. 25 and 28; Hawaii Visitors Bureau, *Annual Research Report* (annual), *Visitor Plant Inventory* (periodic), and records; U.S. Office of Business Economics, *Income of Hawaii* (1953), pp. 19-20.

Table 256.—HOTEL UNITS, 1972 AND 1973, AND OCCUPANCY RATES, 1971 AND 1972, BY GEOGRAPHIC AREA

Geographic area	Number of units			Percent occupied ¹	
	Feb. 1972 (existing)	February 1973		1971	1972
		Existing	Planned ²		
State total	35,797	36,608	13,124	(NA)	(NA)
Oahu	24,742	25,108	2,262	(NA)	(NA)
Waikiki and Kahala ³	21,612	21,540	1,621	} 58.9	70.0
Ala Moana	1,629	1,629	—		
Central Honolulu	127	127	—		
Airport	501	496	210		
Leeward Oahu	746	703	181		
Windward Oahu	127	613	250		
Hawaii	4,241	4,796	4,404	62.9	61.9
Hilo and Honokaa	1,547	1,817	290	63.6	65.1
Volcano	37	37	—	} 69.8	72.4
Ka'u	13	21	200		
North and South Kohala	338	339	54		
North and South Kona	2,306	2,582	3,860		
Maui	3,979	3,976	4,206	66.9	70.6
Wailuku and Kahului	398	384	83	77.1	78.5
Lahaina to Napili	3,026	2,954	1,027	66.9	71.4
Kihei and Maalaea	444	526	3,096	} 61.5	59.4
Kula, Makawao, and Paia	24	25	—		
Hana	87	87	—		
Kauai	2,719	2,629	1,282	60.1	67.7
Kapaa and Wailua	1,348	1,333	901	} 58.7	67.8
Lihue	660	661	4		
Poipu and Kukuila	521	422	29	66.8	73.1
Kalaheo	23	23	—	} 54.6	53.7
Kokee	12	12	—		
Hanalei	155	178	348		
Molokai	105	88	970	(NA)	(NA)
Lanai	11	11	—	(NA)	(NA)

NA Not available.

¹Annual averages.

²Under construction or announced for future construction. Includes 1,935 to be completed in 1973, 2,804 in 1974, 1,202 in 1975, and 7,183 indefinite.

³Occupancy data limited to Waikiki and Diamond Head.

Source: Hawaii Visitors Bureau, 1971 Annual Research Report, pp. 25-28; Visitor Plant Inventory, February 1973; and records.

Table 257.—OPERATIONS OF SELECTED RESORT HOTELS: 1967 TO 1971

Year	Average number of rooms	Percentage of occupancy	Guests per occupied room	Average daily rate: (dollars)		Total sales and income per guest day (dollars)	Gross operating profit (percent)
				Per room	Per guest		
1967	281	87.0	1.81	22.38	12.37	23.12	28.4
1968	269	84.6	1.87	23.85	12.72	23.08	28.7
1969	298	75.6	1.87	23.98	12.84	22.65	30.4
1970	356	72.6	1.88	25.74	13.71	24.61	27.9
1971	409	67.1	1.88	24.28	12.93	23.44	25.1

Source: Harris, Kerr, Forster & Company, *Trends in the Hotel-Motel Business* (annual).

**Table 258.—FOREIGN, INTERSTATE, AND LOCAL TRADE, AND AREA
IN SHOPPING CENTERS: 1948 TO 1971**

Year	Direct foreign trade (millions of dollars)		Interstate trade (millions of dollars)		Local trade (millions of dollars)		Shopping center area ¹ (1,000 square feet)
	Imports	Exports	Imports	Exports	Retail	Wholesale	
1948	12.7	6.7	(NA)	(NA)	512.6	263.5	6
1949	16.0	3.5	(NA)	(NA)	(NA)	(NA)	(NA)
1950	13.6	2.2	349.4	227.4	481.0	255.6	(NA)
1951	19.2	3.5	355.6	234.9	569.8	291.9	(NA)
1952	20.1	4.1	318.1	235.3	562.3	279.3	(NA)
1953	19.7	6.3	383.0	260.3	593.0	284.1	(NA)
1954	19.6	8.2	350.2	250.4	589.1	269.4	(NA)
1955	19.8	8.6	399.6	261.7	636.7	284.9	(NA)
1956	22.8	18.2	406.8	268.1	680.9	292.6	(NA)
1957	26.9	19.8	461.7	258.6	733.7	303.9	(NA)
1958	33.6	17.0	426.1	236.2	739.0	307.8	614
1959	34.1	18.0	486.7	258.1	844.6	350.4	1,430
1960	47.0	20.3	519.1	243.5	948.2	383.6	1,666
1961	58.0	22.4	515.5	258.9	949.0	394.1	1,746
1962	68.3	28.1	480.1	265.5	1,027.6	418.0	1,861
1963	74.0	26.7	497.9	307.8	1,026.8	430.0	2,104
1964	85.8	38.2	567.1	283.4	1,101.8	468.9	2,259
1965	95.9	34.7	615.1	296.7	1,200.7	517.2	2,509
1966	107.2	40.6	688.8	310.6	1,297.2	790.0	3,565
1967	125.1	47.4	822.4	325.3	1,394.3	861.1	3,771
1968	142.5	48.6	886.7	329.1	1,559.2	1,014.2	4,014
1969	171.0	46.4	1,029.1	321.7	1,763.1	1,235.1	4,043
1970	174.7	51.2	1,194.1	339.8	2,024.7	1,498.9	4,742
1971	223.6	46.3	1,201.4	365.7	2,227.3	1,503.8	4,987

NA Not available.

¹Gross leaseable area. Data before 1960 limited to Oahu (1,430 in 1960).

Source: Bank of Hawaii, *Hawaii '68* (August 1968), p. 45, *Hawaii '69* (August 1969), p. 43; *Hawaii '72* (August 1972), p. 45; and records.

Table 259.—GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1936 TO 1972
(In thousands of dollars.)

Year reported ¹	Retailing	Services ²	Theater, amusement, broadcasting, etc.	Wholesaling
1936	105,714	15,310	3,115	(NA)
1937	122,696	18,407	3,514	(NA)
1938	125,203	16,797	4,110	(NA)
1939	128,556	16,674	4,327	75,113
1940	144,795	20,566	5,038	91,707
1941	190,256	25,630	7,106	127,854
1942	255,482	33,488	7,394	144,371
1943	333,567	41,411	12,310	178,119
1944	386,426	50,595	17,184	219,780
1945	427,387	56,425	15,425	219,110
1946	416,313	61,140	14,033	226,290
1947	472,242	72,351	14,389	277,462
1948	495,048	72,812	13,278	242,359
1949	499,044	68,361	12,857	209,846
1950	480,472	69,271	13,293	219,924
1951	539,005	75,635	13,275	251,417
1952	521,189	80,622	14,308	242,511
1953	541,294	83,323	13,452	251,119
1954	540,742	93,235	13,235	249,472
1955	588,987	108,527	16,686	264,297
1956	612,109	108,380	18,786	268,478
1957	666,468	128,548	24,159	277,651
1958	664,973	135,730	19,305	282,734
1959	756,003	165,402	21,174	320,194
1960	846,729	188,752	21,940	354,598
1961	859,563	203,354	21,911	359,725
1962	920,956	228,420	22,654	386,135
1963	928,895	231,777	22,919	396,462
1964	998,510	240,909	25,095	435,707
1965	1,097,826	260,693	27,681	482,563
1966	1,184,736	276,833	29,425	547,031
1967	1,271,932	305,691	30,924	570,678
1968	1,423,835	358,852	36,203	651,512
1969	1,670,288	451,814	39,220	747,204
1970	1,895,089	504,191	43,588	854,660
1971	2,030,170	523,824	48,503	918,425
1972	2,213,704	578,260	53,108	1,002,214

NA Not available.

¹Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

²Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

Source: *Report of the Tax Commissioner* for 1940, 1941-1947, and 1954; Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release) for 1955-1972.

**Table 260.—OPERATIONS OF FOREIGN-TRADE ZONE NO. 9, HONOLULU:
JULY 1, 1971 TO JUNE 30, 1972**

Subject	Amount
Area of primary zone in square feet, June 30	218,276
Firms using zone during year	132
Continuously	17
Merchandise received: Value (dollars)	10,550,539
Weight (short tons)	5,190
Merchandise forwarded: Value (dollars)	10,097,861
Weight (short tons)	5,251
Occupancy (annual average percent)	81
Total income (dollars)	296,605
Total expenses (dollars)	236,683
Net income (dollars)	59,922
Assets, June 30 (dollars)	1,034,571

Source: *Annual Report, Foreign-Trade Zone No. 9, Honolulu, Hawaii, July 1, 1971-June 30, 1972.*

Table 261.—TRADE WITH NATIONS IN ASIA AND THE PACIFIC: 1961 TO 1971
(In thousands of dollars. Includes commodities transhipped through Hawaii.)

Year	Imports	Exports	Year	Imports	Exports	Year	Imports	Exports
1961	33,174	9,843	1965	48,102	18,425	1969	94,601	33,899
1962	34,612	8,585	1966	50,394	23,932	1970	106,774	38,288
1963	37,397	9,481	1967	64,931	33,964	1971	141,982	32,778
1964	45,807	19,577	1968	70,996	37,490			

Country of origin or destination	Imports, 1971	Exports, 1971	Commodity	1971
Specified nations	141,982	32,778	All imports to Hawaii	141,983
Hong Kong	6,509	1,870	Animal and vegetable products	25,432
Japan	92,391	8,827	Wood and paper; printed matter	4,172
Nansei & Nanpo Islands	32	163	Textile fibers and products	12,571
People's Republic of China	54	—	Chemicals and related products	21,500
Republic of China	3,268	1,239	Non-metallic products and minerals	2,792
Republic of Korea	585	813	Metals and metal products	61,121
			Miscellaneous	13,390
Australia	6,631	8,436	Special classification provisions	697
British Pacific Islands	3,082	70	Special statist. rptg. numbers	307
Fiji, Nauru, & Tonga	333	946		
French Pacific Islands	34	1,873	All exports from Hawaii	32,764
New Guinea	15	1,683		
New Zealand	8,162	1,039	Food and live animals	1,548
Trust Territory	57	1,001	Crude materials, inedible	2,879
			Mineral fuels, lubricants	1,727
Afghanistan	5	—	Animal and vegetable oils and fats	439
Burma	—	4	Chemicals	1,082
Cambodia	5	—	Manufactured goods class by material	801
Ceylon	3	1	Machinery and transport. equipment	19,702
India	57	85	Miscellaneous manufactured articles	4,452
Indonesia	7,947	1,266	Commodities not classified by kind	134
Laos	—	—		
Macao	773	—		
Malaysia	8,975	61		
Nepal	—	3		
Pakistan	5	264		
Philippines	2,489	2,499		
Singapore	200	463		
South Vietnam	64	34		
Thailand	305	138		

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, *Hawaii's Foreign Trade, 1961-1971*, tables 1 to 4.

WEIGHTS AND MEASURES
AVOIRDUPOIS AND TROY WEIGHTS

U.S. equivalents			Metric equivalent
Avoirdupois weight:¹			
1 grain			64.799 milligrams
437.5 grains	1 ounce, avoirdupois	0.911 ounce, troy	28.35 grams
16 ounces, avoirdupois	1 pound, avoirdupois	1.215 pounds, troy	453.59237 grams
100 pounds, avoirdupois	1 short hundredweight		45.3592 kilograms
2,000 pounds	} 1 short ton		0.907 metric ton
20 short hundredweights			
112 pounds, avoirdupois	1 long hundredweight		50.802 kilograms
2,240 pounds	} 1 long ton		1.016 metric tons
20 long hundredweights			
Troy weight:²			
1 grain			64.799 milligrams
24 grains	1 pennyweight		1.555 grams
20 pennyweights	1 ounce, troy	1.097 ounces, avoirdupois	31.103 grams
12 ounces, troy	1 pound, troy	0.823 pound, avoirdupois	373.242 grams

¹The system used in weighing all commodities except precious stones, precious metals, and drugs.

²The system used in weighing precious stones and precious metals such as silver and gold.

APPROXIMATE WEIGHTS PER BUSHEL FOR SPECIFIED COMMODITIES

Item	Pounds	Kilograms
Wheat, dry beans, dry peas, potatoes (Irish or white), soybeans	60	27.22
Rye, shelled corn (maize), linseed (flaxseed), sorghum grain	56	25.40
Barley, buckwheat	48	21.77
Castor beans	46	20.87
Rough rice	45	20.41
Malt	34	15.42
Oats, cottonseed	32	14.51
Peanuts, green, in shell	22	9.98

APPROXIMATE WEIGHTS PER BARREL OF NONLIQUID PRODUCTS

Item	Pounds	Kilograms
Wheat flour, barley flour, rye flour, and corn meal (net)	196	88.90
Rosin, tar and pitch (gross)	500	226.80
Fish, pickled (net)	200	90.72
Lime (net)	200	90.72
Cement (4 bags counted as 1 barrel) (net) ¹	376	170.55

¹Except as noted in the tables.

CAPACITIES OR VOLUMES

U.S. equivalents

1 barrel (liquid) ¹	31 to 42 gallons		
1 barrel (dry) ²	7,056 cubic inches	105 dry quarts	3,281 bushels (struck measure) ³

¹There are various "barrels" established by law or usage. Federal law recognizes a 31- and a 40-gallon barrel, depending on the type of liquor. In addition, the number of gallons recognized as making up a barrel differs among various States.

²Standard for fruits and vegetables and other dry commodities, except cranberries, recognized by the Dept. of Agriculture.

³Standard bushel as measured by U.S. Government.

APPROXIMATE WEIGHT OF PETROLEUM AND PRODUCTS

(In the United States, petroleum and its products are measured by bulk, not weight. Quantities are customarily reduced to the equivalent of barrels of 42 U.S. gallons (158.984 liters). In many foreign countries these commodities are measured by weight. The specific gravity of the different grades of crude petroleum and of the finished products varies materially. On the basis of approximate averages, the Dept. of Commerce uses the following factors for converting foreign weight statistics to gallons or to barrels of 42 gallons.)

Item	U.S. gallon		Barrel of 42 gallons	
	U.S. equivalent	Metric equivalent	U.S. equivalent	Metric equivalent
Crude petroleum	7.3 pounds	3.311 kilograms	306.6 pounds	139.07 kilograms
Lubricating oils	7.0 pounds	3.175 kilograms	294.0 pounds	133.36 kilograms
Illuminating oils (kerosene)	6.6 pounds	2.994 kilograms	277.2 pounds	125.74 kilograms
Gasoline and related products (motor spirit, benzene, etc.)	6.1 pounds	2.767 kilograms	256.2 pounds	116.21 kilograms
Fuel and gas oils	7.7 pounds	3.493 kilograms	323.4 pounds	146.69 kilograms

LIQUID MEASURES

U.S. equivalents		Metric equivalent
1 fluid dram		3.697 milliliters
8 fluid drams	1 fluid ounce	29.573 milliliters
4 fluid ounces	1 gill	0.118 liter
4 gills	1 pint	0.473 liter
2 pints	1 quart	0.9464 liter
4 quarts	1 gallon	3.785 liters

DRY MEASURES

U.S. equivalents		Metric equivalent
1 pint		33.600 cubic inches
2 pints	1 quart	67.2006 cubic inches
8 quarts	1 peck	537.605 cubic inches
4 pecks	1 bushel (struck measure) ¹ ..	2,150.42 cubic inches

¹Standard bushel as measured by U.S. Government.

LENGTH MEASURES

U.S. equivalents		Metric equivalent
1 inch		2.540 centimeters
12 inches	1 foot	0.3048 meter
3 feet	1 yard	0.9144 meter
5½ yards	1 rod	5.029 meters
5,280 feet	1 statute (land) mile	1.609 kilometers
6076.11549 feet	1 international nautical mile	1.852 kilometers

AREA MEASURES

U.S. equivalents		Metric equivalent
1 square inch		6.452 square centimeters
144 square inches	1 square foot	929.030 square centimeters
9 square feet	1 square yard	0.8361 square meter
30¼ square yards	1 square rod	25.293 square meters
160 square rods	} 1 acre	0.4047 hectare
4,840 square yards		
640 acres	1 square mile	258,999 hectares

CUBIC MEASURES

U.S. equivalents		Metric equivalent
1 cubic inch		16.387 cubic centimeters
1,728 cubic inches	1 cubic foot	28,317 cubic decimeters
27 cubic feet	1 cubic yard	0.7646 cubic meter

BIBLIOGRAPHY

This volume is the eighth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first were *Statistical Abstract of Hawaii, 1962* and *Historical Statistics of Hawaii, 1778 to 1962*, both prepared by Robert C. Schmitt and issued by the Department of Planning and Research in 1962. Retitled *The State of Hawaii Data Book*, updated versions were published by DPED in 1967, 1968, 1970, 1971 and 1972. The 1967 and 1968 editions were the work of the DPED Information and Public Services Office, chiefly Nancy C. Fowler. The 1970 and later editions were prepared by Robert C. Schmitt and Lynn Y.S. Zane of the Statistics Branch. All volumes issued prior to 1971 are now out of print, but copies can be seen in the DPED Library, Hawaii State Library, University of Hawaii Library, and in other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in other DPED publications. Three of these DPED reports cover statistical sources in considerable detail: *Statistics in Hawaii: 34 Papers Prepared for the Hawaii Statistical Reporting System Workshop, February 18-20, 1970, at Waikiki* (1970), *Proceedings of the Conference on Socio-Environmental Indicators, March 15-17, 1971, Honolulu, Hawaii* (1971), and *Planners Manual and Inventory of Planning Information* (1971). The first two are the reports of statistical symposia organized by Dr. Young P. Joun. The third is a 124-page reference work prepared for the Hawaii Urban Planning Information Center by Nancy Fowler under the direction of Dr. Joun, containing detailed geographic and subject-matter indexes and source listings. These reports were given only limited distribution, but copies can be consulted in most Hawaii libraries.

Privately published works of general statistical reference include *Hawaii Facts and Figures* and *All About Hawaii, Combined with Thrum's Hawaiian Almanac and Standard Guide*. Both have been issued at annual or irregular intervals for many years.

Hawaii Facts and Figures is a publication of the Chamber of Commerce of Hawaii. The 1942-1945 edition, issued in May 1946, was the first to appear under its present name, but similar volumes with different titles had been available since the mid-1930's (for example, *Business Statistics* in 1935, 1937 and 1938 and *General Information About Honolulu, Hawaii, U.S.A.* in 1940, 1941 and 1943). Updated editions of *Hawaii Facts and Figures* appeared in 1947, 1948, and throughout the 1950's and 1960's. The most recent version is the 1973 edition, with statistics through 1972; copies are available from the Chamber for \$1.00.

The current edition of *All About Hawaii* is the 90th, published in 1968 by the Honolulu Star-Bulletin Printing Company at \$1.95. This series began with the *Hawaiian Almanac and Annual for 1875*, compiled and published by Thos. G. Thrum. After its founder's death in 1932, the *Hawaiian Annual* was published, through 1940, by the Printshop Co., Ltd. The *Honolulu Star-Bulletin* absorbed *Thrum's* later that year and combined it with *All About Hawaii* (largely a non-statistical publication initiated in 1928 and revised several times during the 1930's) for 1940-1941 and succeeding years.

Two other privately published reports containing useful statistics are the annual economic reviews of the two largest banks in the State. The current volumes are *Hawaii '72*, published by the Bank of Hawaii in August 1972, and *Hawaii in 1972 . . . and Beyond*, issued by the First Hawaiian Bank in November 1972.

The County of Hawaii, Department of Research and Development, has published its own *Data Book 1972*, presenting 39 pages of statistics for the Big Island.

The major official source for general statistical information during the Territorial period was the *Report of the Governor of Hawaii to the Secretary of the Interior*, issued annually (sometimes with variant titles) from 1900 to 1959. No comparable work was published by either the Kingdom or Republic of Hawaii, although Thrum's *Hawaiian Almanac and Annual*

was sometimes accorded quasi-official status. The earliest general statistical compilation for Hawaii was the work of Robert C. Wyllie, Minister of Public Affairs, who however published it in a private periodical, *The Friend*. Wyllie's extensive report, initially issued in installments, was titled "NOTES on the Shipping, Trade, Agriculture, Climate, Diseases, Religious Institutions, Civil and Social Condition, Mercantile and Financial Policy of the Sandwich or Hawaiian Islands, Viewed in Relation to Other Groups of Islands, and to the Natural and Acquired Advantages of the Sandwich or Hawaiian Islands. Published in Monthly Numbers of the Friend, from May to December [1844], and Dedicated to His Majesty by Robert Crichton Wyllie, Esq., of Hazelbank, Ayrshire, Scotland. Honolulu, Oahu, S.I. Printed at the Am. Mission Press. 1845."

Further information on the historical development of statistics in Hawaii is given in two articles by Robert C. Schmitt, "Hawaii's Statistical Reporting and Data Processing System," *State Government*, Vol. 38, No. 2, Spring 1965, pp. 100-103, and "From Umi to UNIVAC: Data Processing in Hawaii, 1500-1965," *Seventy-Fourth Annual Report of the Hawaiian Historical Society for the Year 1965* (1966), pp. 17-28.

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