

THE STATE OF HAWAII
DATA BOOK

1974

A STATISTICAL ABSTRACT

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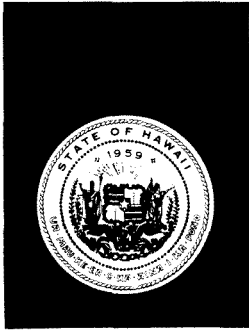
THE STATE OF HAWAII
DATA BOOK
A STATISTICAL ABSTRACT



STATE OF HAWAII
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

HONOLULU, HAWAII

NOVEMBER, 1974



STATE OF
HAWAII

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT

P. O. BOX 2359 • HONOLULU, HAWAII 96804

JOHN A. BURNS
Governor

SHELLEY M. MARK
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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 the summer of 1974, is the eighth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, 1970, 1971, 1972, and 1973. 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

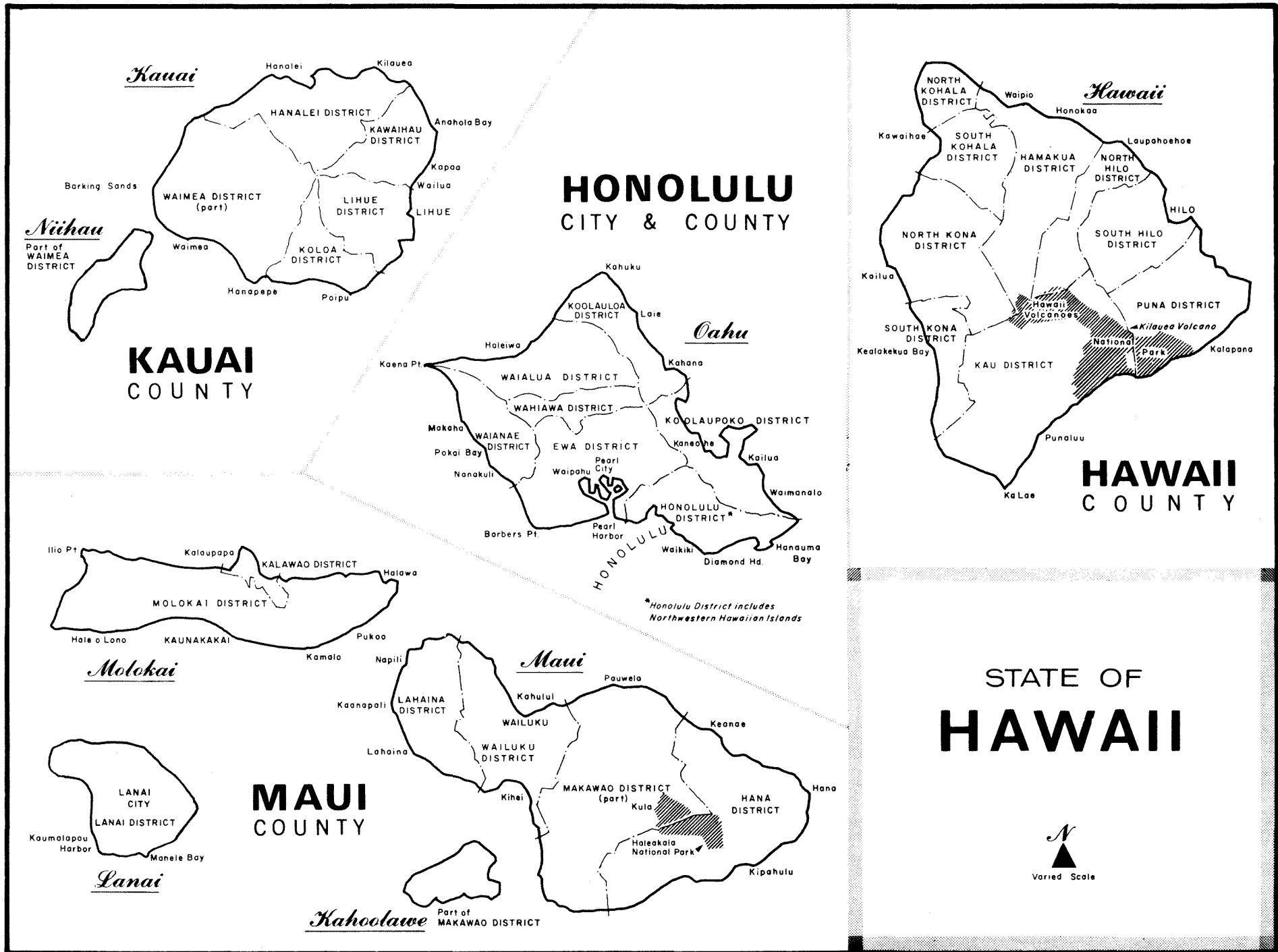
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The State of Hawaii Data Book is an annual publication of the Department of Planning and Economic Development, prepared in the Research and Economic Analysis Division, headed by Dr. Richard Y.P. Joun. The 1974 edition was prepared by Robert C. Schmitt, State Statistician, with the assistance of Lynn Y.S. Zane, Research Statistician.

Copies of this report may be obtained for \$4.00 each from the DPED Information Office on the 7th floor of the Kamamalu Bldg., 250 South King St., Honolulu, or by postpaid air mail by sending \$5.00 per copy to the Information Office, DPED, P.O. Box 2359, Honolulu, Hawaii 96804.



Hawaii

Hanalei Kilauea

HANALEI DISTRICT

KAWAIHAU DISTRICT

Anahola Bay

Barking Sands

WAIMEA DISTRICT (part)

LIHUE DISTRICT

Kapaa

LIHUE

Waimea

KOLOA DISTRICT

Hanapepe

Poipu

Niihau

Part of WAIMEA DISTRICT

KAUAI COUNTY

HONOLULU CITY & COUNTY

Oahu

Kahuku

KOOLAULOA DISTRICT

Lai

Haleiwa

Kaena Pt.

WAIALUA DISTRICT

WAHIAWA DISTRICT

Makeha

Pokai Bay

Nanakuli

EWA DISTRICT

Waipahu

Pearl City

Barbers Pt.

HONOLULU DISTRICT*

HONOLULU

Waikiki

Diamond Hd.

Hanauma Bay

**Honolulu District includes Northwestern Hawaiian Islands*

Hawaii

NORTH KOHALA DISTRICT

Waipio

Honokaa

SOUTH KOHALA DISTRICT

HAMAKUA DISTRICT

Laupahoehoe

NORTH HILO DISTRICT

HILO

Kawaihae

NORTH KONA DISTRICT

SOUTH HILO DISTRICT

Kailua

SOUTH KONA DISTRICT

Hawaii Volcanoes

National Park

PUNA DISTRICT

Kilauea Volcano

Kealahou Bay

KAU DISTRICT

Kalapana

Punaluu

Ka Lae

HAWAII COUNTY

Ilio Pt.

Kalaupapa

KALAWAO DISTRICT

Halea

MOLOKAI DISTRICT

Hale o Lono

KAUNAKAKAI

Pukoo

Molokai

Kamalo

Napili

Maui

Pauwela

Kaanapali

LAHAINA DISTRICT

Kahului

WAILUKU

Keanae

Lahaina

WAILUKU DISTRICT

Kihei

MAKAWAO DISTRICT (part)

HANA DISTRICT

Hana

Kaumalapau Harbor

LANAI CITY

LANAI DISTRICT

Manele Bay

Lanai

MAUI COUNTY

Haleakala National Park

Kipahulu

Kahoolawe

Part of MAKAWAO DISTRICT

STATE OF HAWAII



GUIDE TO TABULAR PRESENTATION

The following symbols, used in the tables throughout this book, are explained in condensed form in footnotes to the tables where they appear:

- Represents zero or rounds to less than half the unit of measurement shown.
- D Figure withheld to avoid disclosure of information pertaining to a specific organization or individual.
- NA Data not enumerated, tabulated, or otherwise available separately.
- ... Same as NA; used in tables in which a large number of cells lack data.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Footnotes below the bottom rule of tables give information relating to specific items or figures within the table.

Unit indicators (“In thousands,” “In millions of dollars,” etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Median: The value which divides the distribution into two equal parts—one-half the cases falling below this value and one-half exceeding it.

Parallel vertical rules are used to the right of a total column to indicate—

- (1) that the components which follow add to the total;
- (2) in the case of derived figures, that the underlying data are additive to their total.

In many tables, details will not add to the totals shown because of rounding.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the title, headnote, boxhead or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

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-1973 indicate a population of 832,000. This total includes approximately 56,000 members of the armed forces and 70,000 of their dependents. It excludes an average of 59,000 visitors who were present in 1973, while including an average of 10,000 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 1973 total lived on Oahu, giving that island a density in excess of 1,200 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.

Comparison of demographic data from different sources is often complicated by the use of differing definitions and coverage. Some series, for example, refer to resident population, while others pertain to de facto population; the latter includes visitors present but excludes residents temporarily absent. Total population includes armed forces stationed in an area, as well as their dependents in the area; civilian population excludes military personnel but includes their dependents. Perhaps the greatest confusion is that resulting from the arbitrary allocation of persons of mixed race in the 1970 U.S. Census. Such groups were shown separately in earlier censuses, and are still reported separately in data issued by State agencies.

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: 1973*.

Table 1.—POPULATION OF THE STATE OF HAWAII, ISLAND OF OAHU, AND CITY OF HONOLULU: 1778 TO 1973

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)	1896: Sept. 27	109,020	40,205	29,920
1823	145,000	34,000	(NA)	1900: June 1	154,001	58,504	39,306
1831-1832	130,313	29,755	13,344	1910: April 15	191,874	81,993	52,183
1835-1836	108,579	27,809	12,994	1920: January 1	255,881	123,496	81,820
1850: January	84,165	25,440	14,484	1930: April 1	368,300	202,887	137,582
1853: Dec. 26	73,138	19,126	11,455	1940: April 1	422,770	257,696	179,358
1860: Dec. 24	69,800	21,275	14,310	1950: April 1	499,794	353,020	248,034
1866: Dec. 7	62,959	19,799	13,521	1960: April 1	632,772	500,409	294,194
1872: Dec. 27	56,897	20,671	14,852	1970: April 1	769,913	630,528	324,871
1878: Dec. 27	57,985	20,236	14,114	1973: July 1	832,147	678,262	(NA)
1884: Dec. 27	80,578	28,068	20,487				
1890: Dec. 28	89,990	31,194	22,907				

NA Not available.

¹Estimates for 1778-1779, 1823, and 1973, partial censuses (as supplemented by estimates) for 1831-1832 and 1835-1836, and official censuses for 1850 to 1970.

²The area from Maunaloa 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; 1973 from Hawaii State Department of Planning and Economic Development, Statistical Report 102 (April 15, 1974), table 2.

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: 1930 TO 1974

Year	Resident population ¹					Residents temporarily absent ²	Visitors present ²	De facto population ³
	Total	Armed forces ⁴	Civilian population					
			Total	Military dependents	Other civilians			
1930	367,880	18,908	348,972	(NA)	(NA)	(NA)	(NA)	(NA)
1935	389,562	22,005	367,557	(NA)	(NA)	(NA)	(NA)	(NA)
1940	427,884	30,041	397,843	(NA)	(NA)	355	1,648	429,177
1944 ⁵	858,945	406,811	452,134	(NA)	(NA)	—	—	858,945
1950	497,980	20,063	477,917	(NA)	(NA)	934	3,027	500,073
1955	539,292	56,807	482,485	(NA)	(NA)	1,218	6,042	544,116
1960	641,520	59,183	582,337	60,261	522,076	2,132	11,797	651,185
1961	658,684	60,812	597,872	62,033	535,839	2,420	11,960	668,224
1962	683,513	78,977	604,536	63,231	541,305	3,004	13,125	693,634
1963	682,241	59,562	622,679	61,495	561,184	3,054	15,316	694,503
1964	699,858	73,174	626,684	69,090	557,594	4,717	16,017	711,158
1965	703,804	53,381	650,423	65,816	584,607	5,694	17,318	715,428
1966	710,325	54,058	656,267	62,622	593,645	6,774	21,030	724,581
1967	722,528	55,981	666,547	61,301	605,246	7,579	27,690	742,639
1968	734,456	57,013	677,443	59,133	618,310	8,113	32,496	758,839
1969	750,228	48,474	701,754	59,697	642,057	8,818	37,438	778,848
1970	774,253	53,039	721,214	57,781	663,433	10,024	36,888	801,117
1971	795,702	50,802	744,900	62,181	682,719	9,430	40,829	827,101
1972	816,149	51,971	764,178	66,222	697,956	8,649	50,344	857,844
1973	841,175	58,134	783,041	70,299	712,742	9,843	59,425	890,757
1974	846,869	54,588	792,281	68,324	723,957	7,284	62,396	901,981

NA Not available.

¹Includes residents temporarily absent and armed forces stationed in Hawaii; excludes visitors present and former residents attending school or serving in the armed forces on the Mainland or abroad. All estimates are as of July 1.

²Annual averages.

³Includes visitors present; excludes residents temporarily absent.

⁴These data differ somewhat from those in other sources; see DPED Statistical Report 104, table 4.

⁵Peak population of World War II era.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," *R&S Report*, No. 5, June 1974, table 3; Hawaii State Department of Planning and Economic Development, Statistical Reports 81 (July 23, 1971), 86 (Nov. 12, 1971), and 102 (April 15, 1974), as revised; Federal-State Cooperative Program for Local Population Estimates.

Table 4.—ESTIMATED POPULATION, 1970 TO 1973, AND DENSITY, 1973, BY ISLAND

Subject	State total	City and County of Honolulu	Total	Hawaii County	Kauai County	Other Counties			
						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	795,702	648,666	147,036	67,867	30,922	48,247	2,217	40,675	5,355
1972: July 1	816,149	665,590	150,559	68,618	31,390	50,551	2,244	43,189	5,118
1973: July 1	832,147	678,262	153,885	70,228	31,223	52,434	2,384	44,968	5,082
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	744,900	598,177	146,723	67,718	30,802	48,203	2,217	40,631	5,355
1972: July 1	764,178	613,948	150,230	68,456	31,247	50,527	2,244	43,170	5,113
1973: July 1	775,754	622,195	153,559	70,057	31,105	52,397	2,384	44,936	5,077
Total de facto population: ⁴									
1970: April 1	796,911	647,778	149,133	67,068	32,816	49,249	2,207	41,709	5,333
July 1	800,076	651,182	148,894	67,017	32,454	49,423	2,199	41,904	5,320
1971: July 1	827,101	669,379	157,722	71,439	34,001	52,282	2,220	44,641	5,421
1972: July 1	857,844	693,155	164,689	73,187	35,291	56,211	2,256	48,705	5,250
1973: July 1	881,729	713,045	168,684	75,056	35,174	58,454	2,394	50,881	5,179
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, 1973	137.2	1,197.0	28.9	18.6	56.8	49.8	17.2	69.9	19.9

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, 1973* (Statistical Report 102, April 15, 1974, as revised.)

✓ **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, 1973* (Report SB-A9, January 7, 1974), 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
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

(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)
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
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

(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)
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
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

(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)
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
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

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

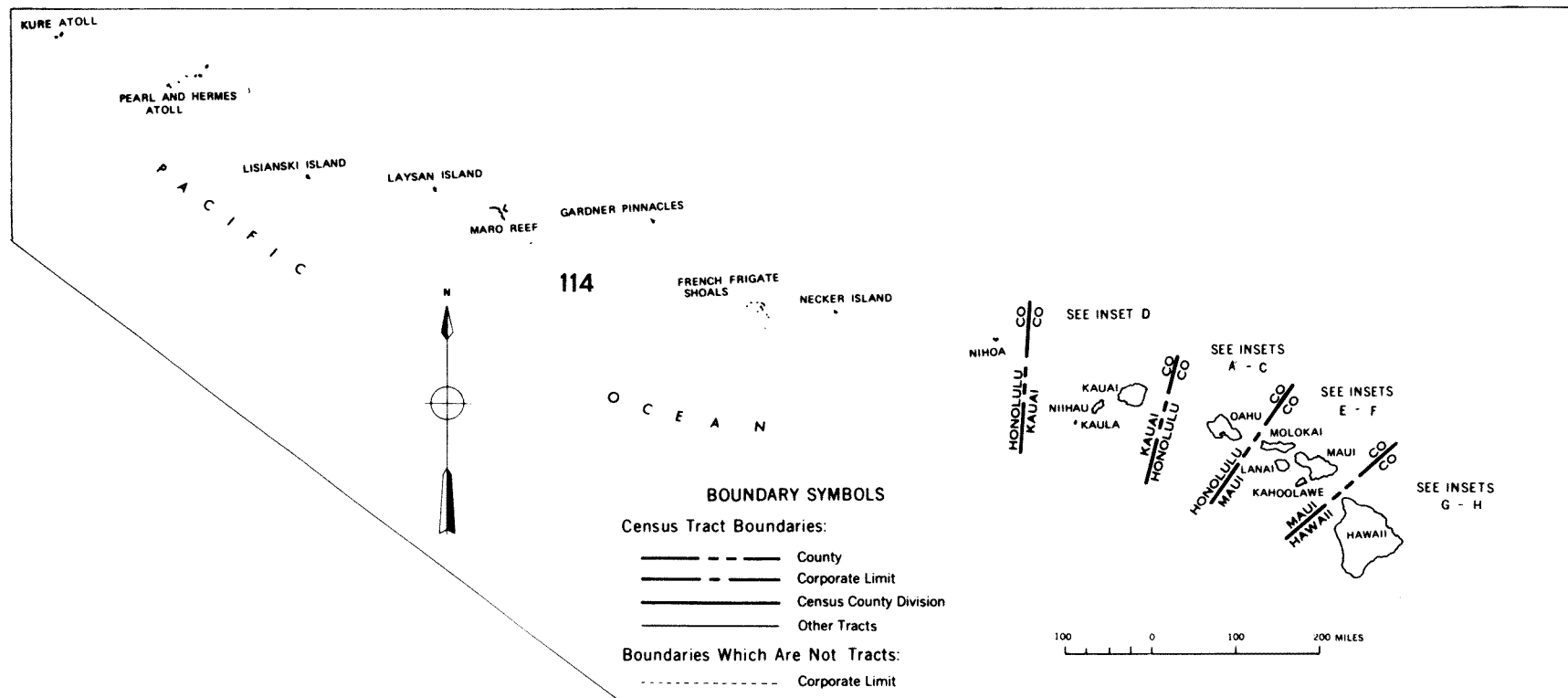
County and census tract	Resident population		Persons per square mile	Households	Persons 25 and over median school years completed	Median 1969 income of families (dollars)	Occupied housing units	
	Total, 1970	Percent change 1960-70					Percent owner occupied	Renter occupied: median rent (dollars)
Hawaii 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			742	11.8	8,663	45.0	84
216	2,243	8.6	11.1	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
Mauai 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
306	781			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

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

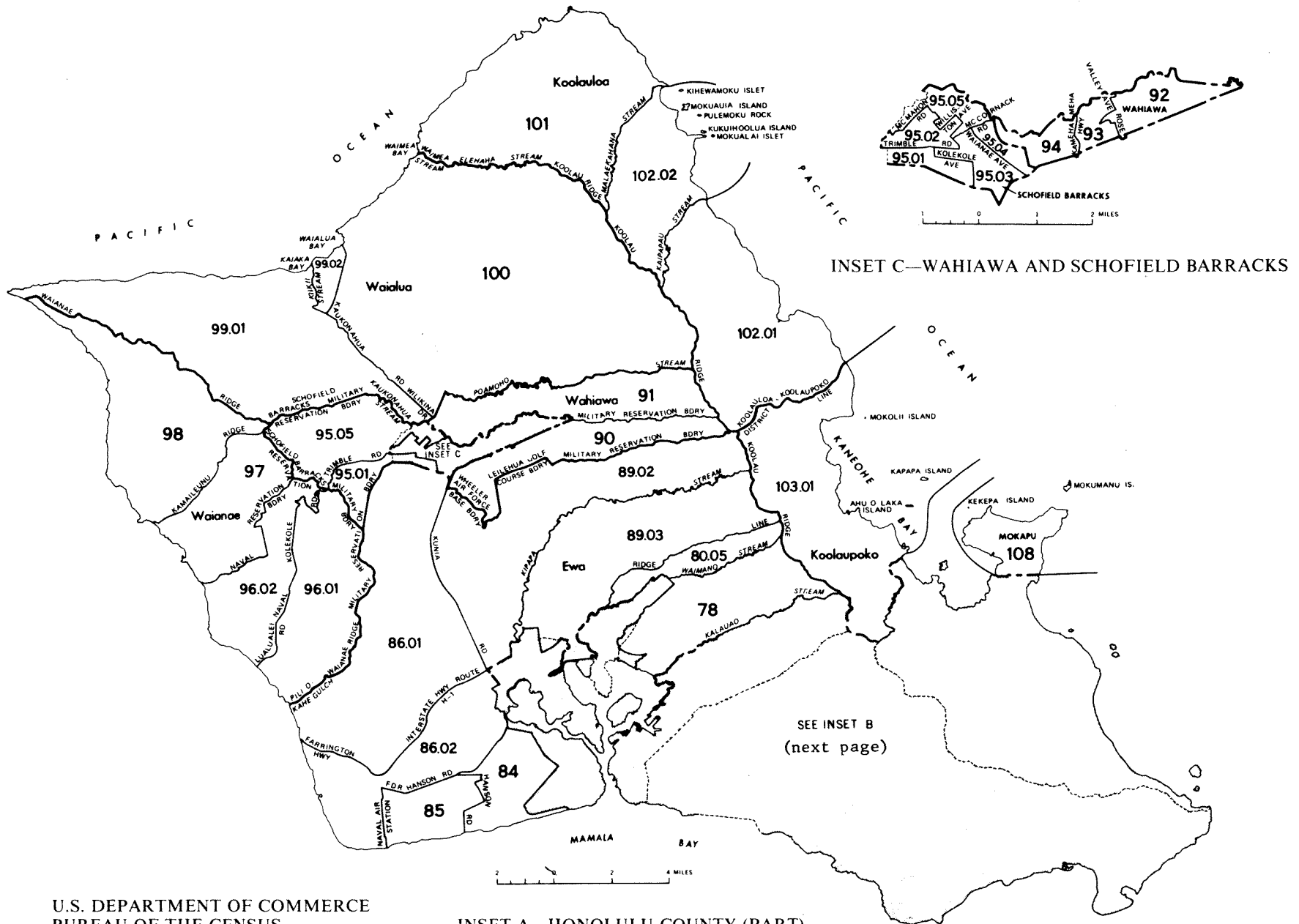
County and census tract	Resident population		Persons per square mile	Households	Persons 25 and over: median school years completed	Median 1969 income of families (dollars)	Occupied housing units	
	Total, 1970	Percent change, 1960-70					Percent owner occupied	Renter occupied: median rent (dollars)
319	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	6,375	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.



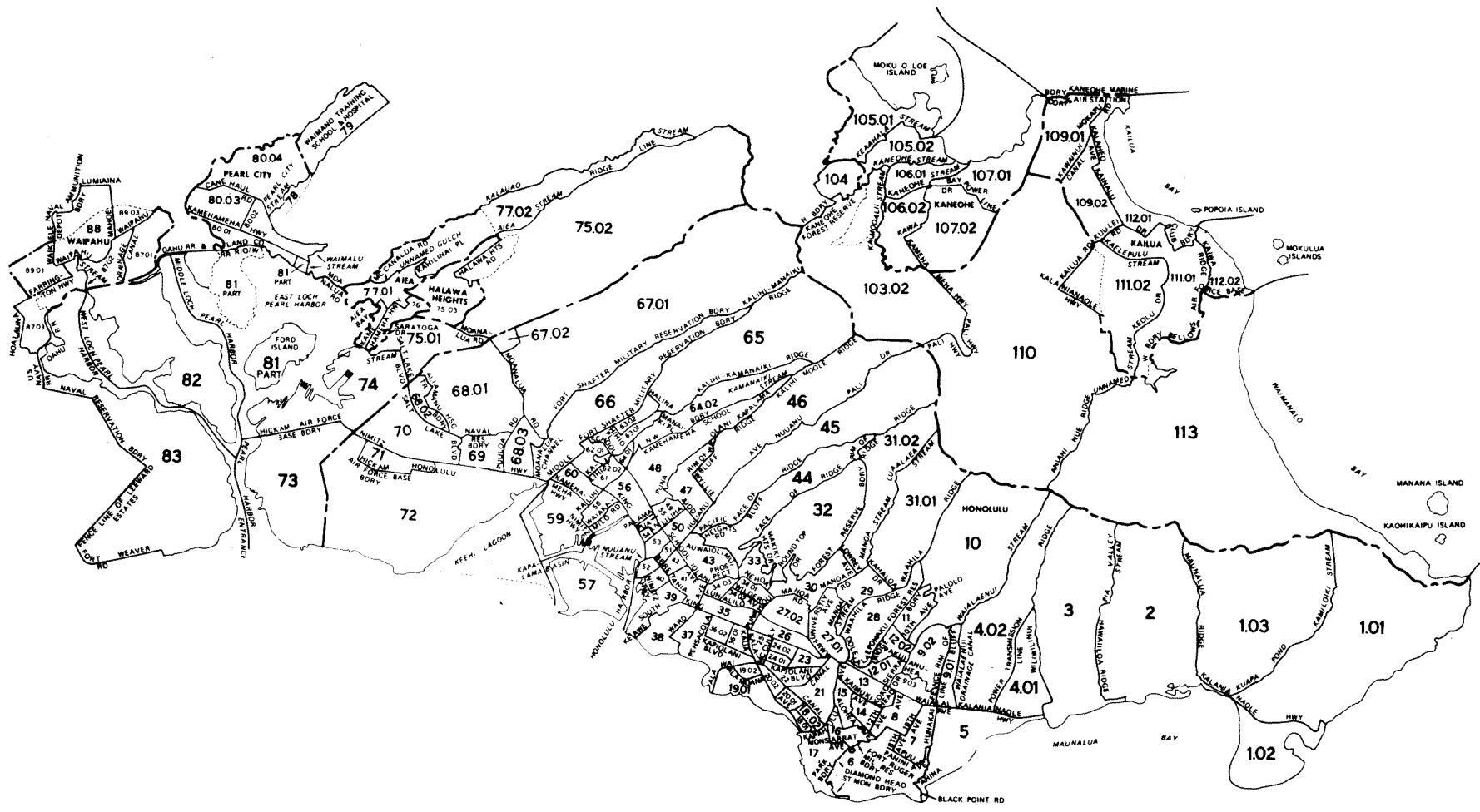
The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll (exclusive of the Midway Islands, a U.S. possession), are legally part of the City and County of Honolulu and Honolulu Census County Division, and are designated tract 114.

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



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

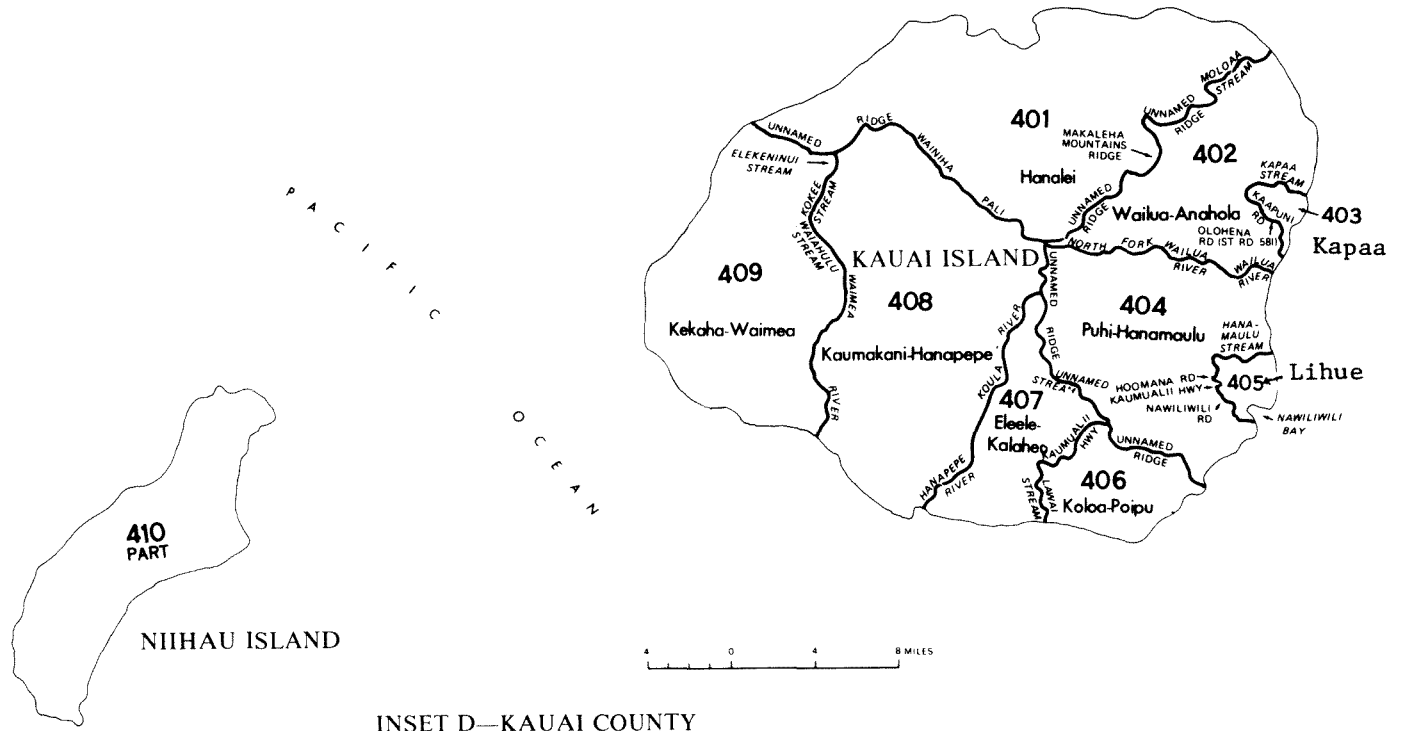
INSET A—HONOLULU COUNTY (PART)



INSET B—HONOLULU COUNTY (PART)

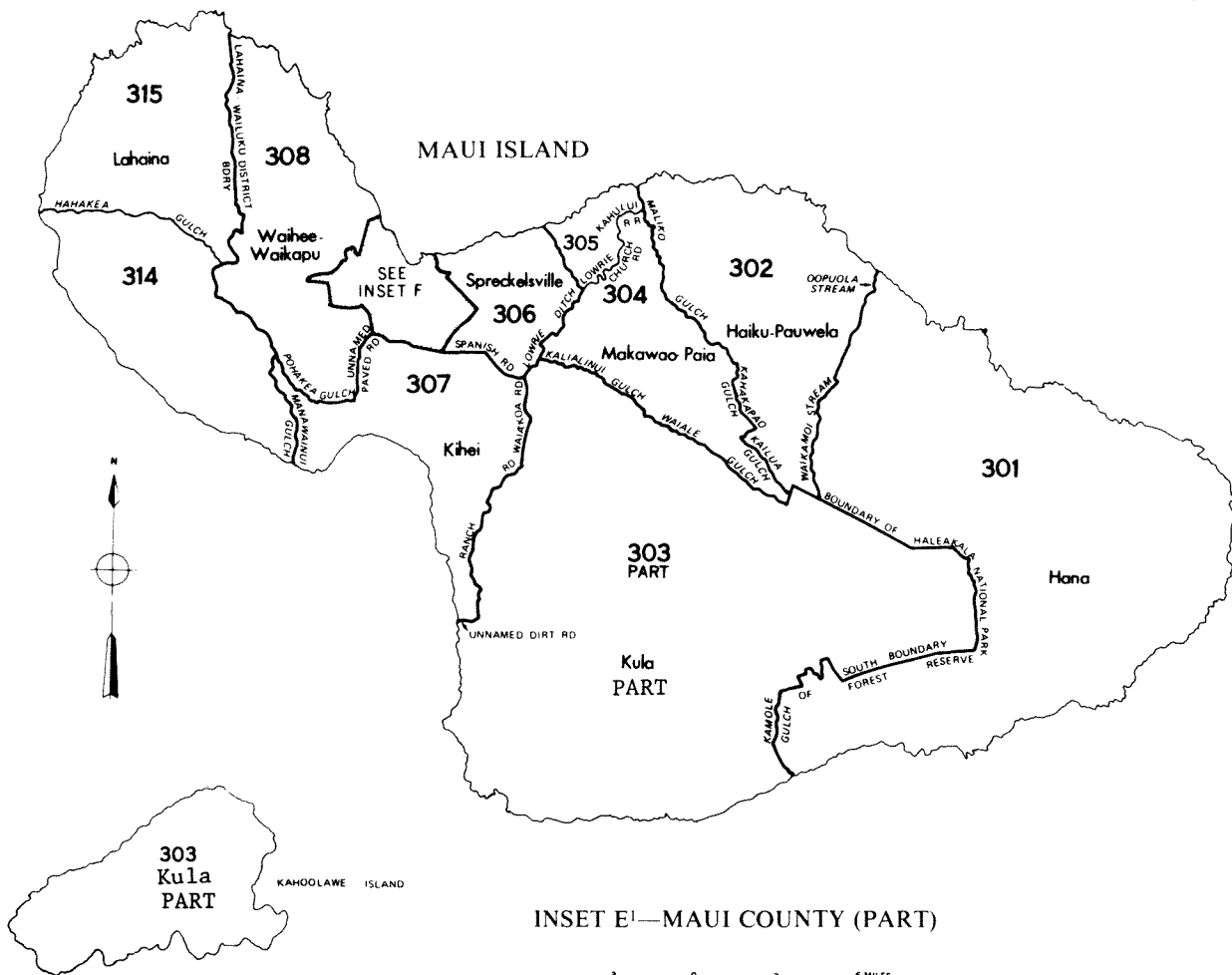


U.S. DEPARTMENT OF COMMERCE
 BUREAU OF THE CENSUS
 1970

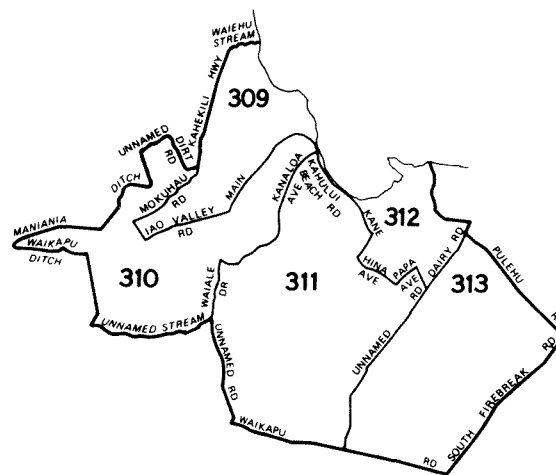


INSET D—KAUAI COUNTY

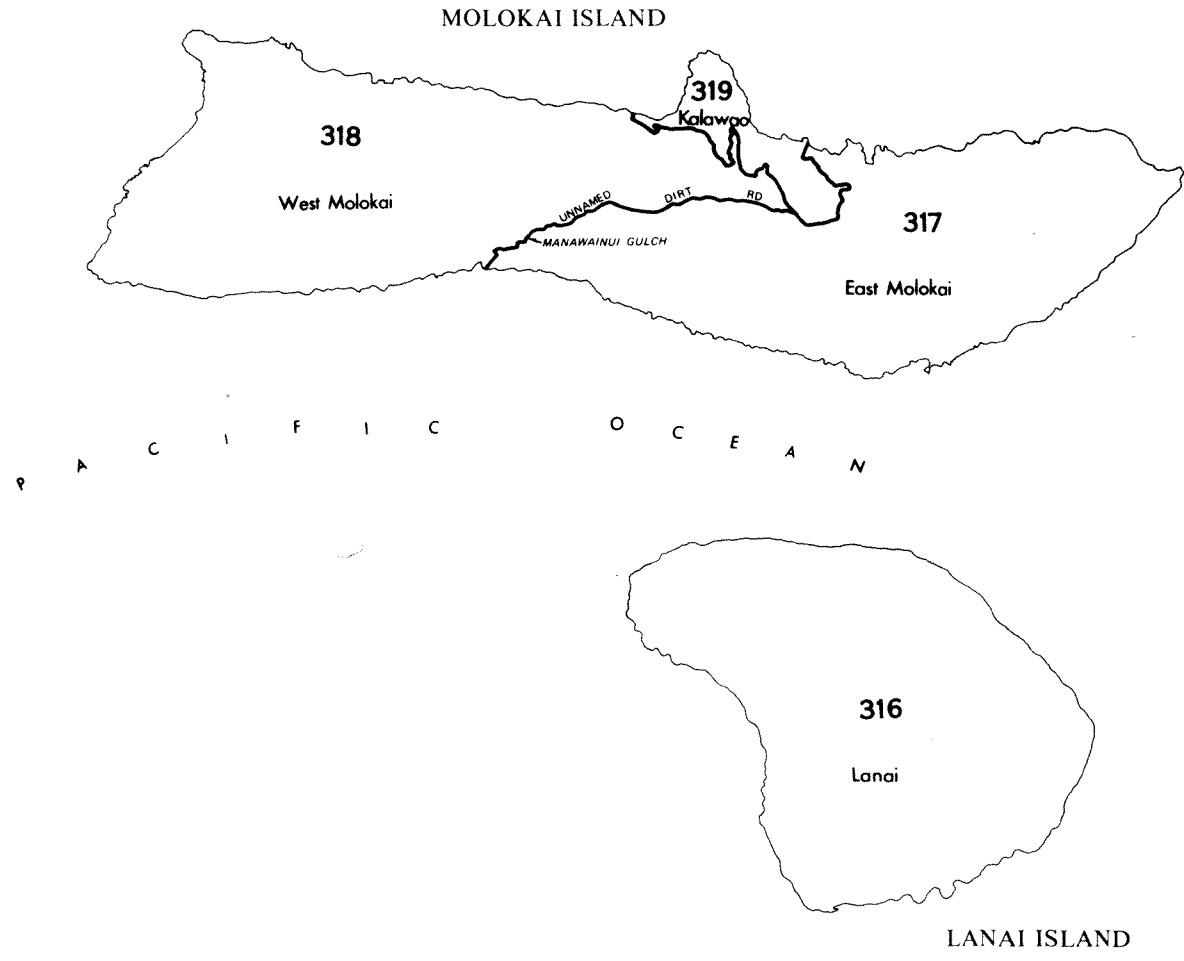
410
PART
ISLAND OF KAULA



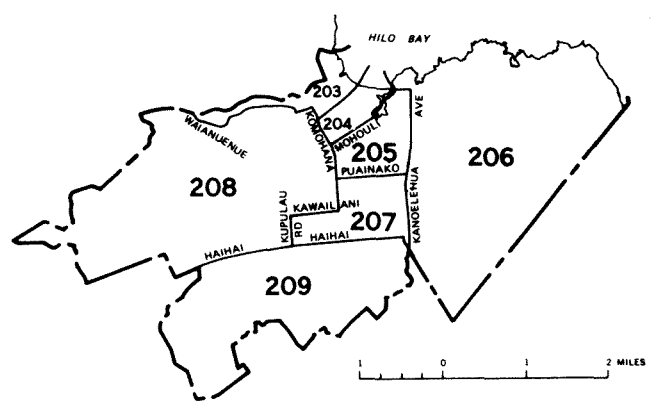
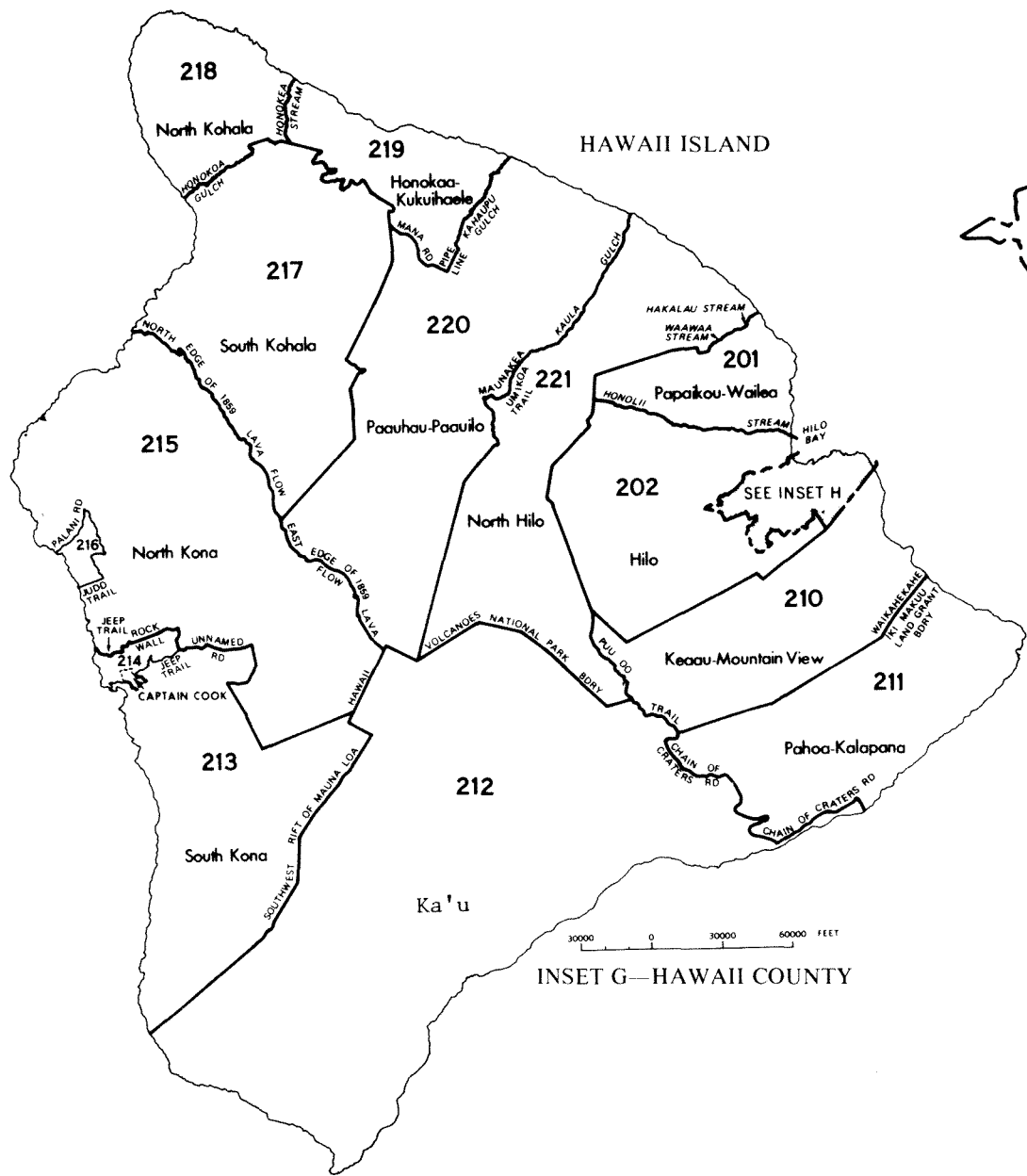
INSET E¹—MAUI COUNTY (PART)



INSET F—KAHULUI AND WAILUKU



INSET E²—MAUI COUNTY (PART)



INSET H—HILO

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

Table 8.—ILLUSTRATIVE PROJECTIONS OF TOTAL RESIDENT POPULATION: 1970 TO 2000
(Data include armed forces stationed in Hawaii but exclude visitors present.)

Series ¹ and age	1970 ²	1975	1980	1985	1990	1995	2000
TOTAL POPULATION							
D-2 ³	768,561	843,482	932,797	1,036,179	1,149,879	1,270,645	1,400,195
E-2 ⁴	768,561	843,237	929,917	1,027,437	1,131,475	1,238,428	1,348,892
E-1 ⁵	768,561	843,237	926,842	1,017,236	1,109,002	1,197,501	1,282,266
F-0 ⁶	768,561	806,611	845,627	882,853	913,713	934,956	946,922
AGE (E-2)⁴							
Under 5	70,811	73,036	85,264	96,890	104,424	107,624	111,473
5-9	79,836	73,345	76,214	89,005	101,344	109,753	113,959
10-14	79,812	81,903	75,980	79,491	92,594	106,025	115,212
15-19	71,843	81,822	84,347	78,869	82,887	96,499	110,472
20-24	81,555	97,487	108,302	111,850	107,526	112,709	127,522
25-29	59,459	69,634	86,094	97,583	101,920	98,465	104,528
30-34	47,633	59,257	69,709	86,453	98,292	103,042	100,081
35-39	46,685	48,097	59,845	70,468	87,348	99,374	104,389
40-44	48,844	43,961	45,574	57,452	68,240	85,203	97,385
45-49	46,199	48,479	43,816	45,586	57,476	68,292	85,142
50-54	38,053	44,346	46,666	42,212	44,041	55,735	66,377
55-59	30,343	36,623	42,742	45,061	40,861	42,684	53,969
60-64	23,372	29,039	34,991	40,738	42,920	38,935	40,586
65-69	17,658	21,991	27,160	32,597	37,756	39,683	35,959
70-74	11,831	15,743	19,402	23,812	28,458	32,743	34,272
75-79	7,138	8,568	11,060	13,273	15,976	18,753	21,111
80-84	4,310	5,057	5,924	7,462	8,748	10,348	11,946
85 and over	3,179	5,349	7,327	9,135	11,164	13,061	15,009
Median age	25.0	26.0	27.0	28.0	28.8	29.4	29.6
Sex ratio	108.1	106.3	104.5	102.8	101.4	100.3	99.6

¹These projections were prepared by the "cohort-component" technique, using three assumptions on future fertility, three on net migration, and one on mortality. The fertility assumptions are indicated by letters comparable to those used in a recent study by the Bureau of the Census, and are based on a completed cohort fertility rate (i.e., the average number of births per 1,000 women upon completion of childbearing) that will move gradually toward the following levels: Series D, 2,500, about the same as the United States and also the civilian population of Hawaii in 1970; Series E, 2,100, or approximately the replacement level; Series F, 1,800. The migration assumptions are indicated by numbers: 0, zero net migration for the civilian population, exclusive of military dependents; 1, a continuation of the 1970-1973 annual rate, in which civilian net in-migration averaged 34.3 per million U.S. population; 2, a gradual doubling, by 2020, of the 1970-1973 annual rate. All series assume a gradual convergence between the 1968-1972 age-sex-specific mortality rates observed for Hawaii and those projected by the Bureau of the Census for the nation as a whole after 2000.

²Census count (later revised to 769,913).

³Based on high fertility and an increasing net in-migration rate.

⁴Based on intermediate fertility and an increasing net in-migration rate. This series is the one most consistent with recent employment projections (as yet unpublished) obtained by the Department of Planning and Economic Development from its input-output model.

⁵Based on intermediate fertility and a constant net in-migration rate, both close to the Hawaii rates of the early 1970's.

⁶Based on low fertility and zero net in-migration, and generally consistent with the recommendations of the Temporary Commission on Population Stabilization as submitted to the 1972 State Legislature.

Source: Hawaii State Department of Planning and Economic Development, unpublished study.

Table 9.—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

Source: U.S. Census of Population: 1970, Final Report PC(1)-B13, table 20.

✓ Table 10.—AGE OF THE POPULATION: 1970 AND 1973

Age	April 1, 1970	July 1, 1973 ¹	Percent distribution		Percent change, 1970-1973
			1970	1973	
All ages	769,913	832,000	100.0	100.0	8.1
Under 5 years	70,951	74,000	9.2	8.9	4.3
5 to 17 years	204,243	209,000	26.5	25.1	2.3
18 to 44 years	312,502	341,000	40.6	41.0	9.1
45 to 64 years	138,234	157,000	18.0	18.9	13.6
65 years and over	43,983	51,000	5.7	6.1	16.0
14 years and over	554,702	616,000	72.0	74.0	11.1
18 years and over	494,719	549,000	64.3	66.0	11.0
21 years and over	450,251	494,000	58.5	59.4	9.7

¹Provisional estimate.

Source: U.S. Bureau of the Census, "Estimates of the Population of States, by Age: July 1, 1973," *Current Population Reports, Population Estimates and Projections*, Series P-25, No. 518, June 1974.

Table 11.—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 12.—ETHNIC STOCK BY MILITARY STATUS: 1972
 (Excludes persons in institutions or military barracks, or on Niihau.
 Based on a sample survey of 21,924 persons.)

Ethnic stock	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	787,051	100.0	33,127	80,403	673,521
Unmixed	586,021	74.5	31,929	72,461	481,632
Caucasian	223,506	28.4	27,032	60,434	136,040
Japanese	215,289	27.4	1,166	2,586	211,537
Chinese	33,536	4.3	115	422	32,998
Filipino	78,939	10.0	1,473	3,761	73,705
Hawaiian	8,173	1.0	70	77	8,027
Korean	5,721	0.7	—	384	5,337
Negro	6,793	0.9	1,612	3,684	1,497
Puerto Rican	5,175	0.7	115	269	4,791
Samoan	5,335	0.7	192	537	4,606
Other unmixed	3,554	0.5	154	307	3,094
Mixed	199,739	25.4	1,160	7,903	190,676
Part Hawaiian	142,164	18.1	915	3,489	137,760
Non Hawaiian	57,575	7.3	245	4,414	52,916
Not reported	1,292	0.2	38	38	1,215

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

Table 13.—PLACE OF BIRTH AND RESIDENCE: 1960 AND 1970

Place of birth and residence	1960	1970
Living in Hawaii	632,772	768,559
Native born	563,875	692,964
Hawaii	421,168	455,060
Mainland United States	128,992	178,531
U.S. territory or possession	2,227	4,014
Born abroad or at sea of native parents	2,738	13,272
State of birth not reported	8,750	42,087
Foreign born	68,897	75,595
China and Taiwan	3,541	4,663
Japan	24,658	19,685
Korea	1,124	2,063
Philippines	28,649	33,175
All other	10,925	16,009
Living in Mainland U.S., born in Hawaii	115,070	179,735

Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13D, tables 98 and 99, and Final Report PC(2)-2A, table 11; *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: 1950 AND 1970

Citizenship	1950	1970
Total	499,769	768,561
Citizen	433,324	725,549
Native	423,153	694,983
Naturalized	10,171	30,566
Alien	65,610	43,012
Citizenship not reported	835	—

Source: *U.S. Census of Population: 1950*; Bulletin P-C52, table 32; *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 1974

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
1974	64,430	32,414	14,981	2,277	3,753	11,005

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

(Based on replies to the question, "What language, other than English, was spoken in this person's home when he was a child?" This tabulation was made from a one-percent sample and the results are hence subject to considerable sampling variation.)

Mother tongue	Persons
Total population ¹	768,300
English	447,200
German	5,700
Portuguese	9,300
Spanish	13,300
Other European languages	10,400
Chinese, Cantonese, or Taiwanese	26,900
Korean	6,200
Japanese	116,900
Ilocano, Tagalog, or other Filipino tongues	50,200
Hawaiian	18,700
Other Polynesian ² , Melanesian, or Micronesian	4,200
Other languages	13,200
Not reported	46,100

¹The final census count for Hawaii was 769,913.

²Includes Samoan, Tahitian, Tongan, and other Polynesian languages, except Hawaiian.

Source: East-West Population Institute, special tabulation of 1970 Census Public Use Sample for Hawaii.

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.—HOUSEHOLDS: 1960 TO 1973

Subject	Number
Total households:	
July 1, 1973 (provisional)	232,000
July 1, 1972	223,000
April 1, 1970 (census)	203,088
April 1, 1960 (census)	153,064
Change, 1970 to 1973	+29,000
Percent	+14.1
Average annual percent of change:	
1970 to 1973	+4.1
1960 to 1970	+2.8
Husband-wife households:	
July 1, 1973 (provisional)	164,000
July 1, 1972	160,000

Source: U.S. Bureau of the Census, "Estimates of the Number of Households by State: July 1, 1973 and 1972," *Current Population Reports, Population Estimates and Projections*, Series P-25, No. 515, March 1974.

Table 19.—MARITAL STATUS, BY SEX: 1960 AND 1970

Marital status	1960		1970	
	Male	Female	Male	Female
Total, 14 years and over	232,805	193,684	289,176	264,612
Single	84,965	44,376	104,625	68,009
Married, except separated	132,868	127,390	167,778	164,190
Separated	1,553	1,138	2,142	2,406
Widowed	7,075	15,099	6,433	19,909
Divorced	6,344	5,681	8,198	10,098
Single, widowed, or divorced	98,384	65,156	119,256	98,016

Source: *U.S. Census of Population: 1960*, Final Report PC(1)-13B, table 18; *U.S. Census of Population: 1970*, Final Report PC(1)-B13, table 22.

Table 20.—CHURCH MEMBERSHIP: 1825 TO 1972
(Membership definitions differ from group to group and from survey to survey.)

Year	Total population	Protestant	Roman Catholic	Mormon	Jewish	Buddhist	Shinto	Rest of population ¹
1825	142,000	10	...	...	...	...	...	142,000
1835	111,000	749	...	...	...	...	...	110,251
1846	95,000	21,058	14,000	...	...	...	...	59,942
1853 ²	71,019	56,840	11,401	2,778	...	...	...	0
1884	80,578	29,685	20,072	3,576	84	...	...	27,161
1896	109,020	23,273	26,363	4,886	...	...	...	54,498
1909	186,600	11,991	35,000	8,162	...	33,900	...	97,547
1926	328,444	...	109,000	...	...	...	...	...
1954-55	522,400	32,700	200,000	17,000	...	62,200	21,800	188,700
1972	816,200	82,843	220,000	31,050	1,072	121,460	43,500	316,075
PERCENT								
1825	100.0	0.0	...	...	...	...	...	100.0
1835	100.0	0.7	...	...	...	...	...	99.3
1846	100.0	22.2	14.7	...	...	...	...	63.1
1853 ²	100.0	80.0	16.1	3.9	...	...	...	0
1884	100.0	36.8	24.9	4.4	0.1	...	...	33.7
1896	100.0	21.3	24.2	4.5	...	...	...	50.0
1909	100.0	6.4	18.8	4.4	...	18.2	...	52.3
1926	100.0	...	33.2	...	...	...	...	...
1954-55	100.0	6.3	38.3	3.3	...	11.9	4.2	36.1
1972	100.0	10.2	27.0	3.8	0.1	14.9	5.3	38.7

¹Includes groups for which membership was not reported.

²Limited to Hawaiians and Part Hawaiians; excludes 2,119 non-Hawaiians.

Source: Robert C. Schmitt, "Religious Statistics of Hawaii; 1825-1972," *The Hawaiian Journal of History*, Vol. 7, 1973, pp. 41-47, and underlying data; Department of Geography, University of Hawaii, *Atlas of Hawaii* (The University Press of Hawaii, 1973), p. 125; Hawaii State Department of Planning and Economic Development, Statistical Report 97 (November 16, 1973), table 1.

Table 21.—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 denominational groups	80+	834+	543,796+
Buddhist	16	99+	121,460
Honpa Hongwanji	1	38	30,000
Nichiren Shoshu	1	(NA)	28,800
Todaiji Mission	1	(NA)	30,000
Other Buddhist groups	13	59+	32,660
Christian	41+	632+	349,644+
Roman Catholic	1	69	220,000
Protestant	20+	378+	82,843
Episcopal	1	41	13,384
Hoomana oke Akua ole	1	(NA)	10,000
Southern Baptist	1	45	9,500
United Church of Christ	1	110	17,997
Other Protestant, 500 members or more	15	159+	30,221
Other Protestant, fewer than 500 members	(NA)	22	1,741
Holiness faiths	10	58+	5,075+
Metaphysical Christian	3	6	834
Church of the Latter Day Saints ²	2	57	31,050
Jehovah's Witnesses	1	41	6,500
Other Christian groups	4	23	3,342+
Jewish	2	2	1,072
Shinto	5	8+	43,500+
Daijingu Temple of Hawaii	1	4	40,000
Other Shinto groups	4	4+	3,500+
New religious movements ³	7	56	16,340
Tensho Kotai Jingu Kyo (Dancing Goddess)	1	15	7,120
Other groups	6	41	9,220
Church of Scientology	1	1	9,000
Other religious faiths ⁴	8	36+	2,780

NA Not available.

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

²Includes Church of the Latter Day Saints Reorganized.

³Primarily of Japanese derivation.

⁴Baha'i, Hare Krishna, Holy Order of Mans, indigenous Hawaiian, International Meditation Society, Ramakrishna Vedanta, Subud, and Unitarian.

Source: Compilation by E. M. and M. E. McCrath, Department of Religion, University of Hawaii, in the Department of Geography, University of Hawaii, *Atlas of Hawaii* (1973), p. 125.

✓ **Table 22.—COMPONENTS OF CHANGE IN THE CIVILIAN POPULATION: 1960 TO 1970
AND 1970 TO 1973**

Subject	April 1, 1960 to March 31, 1970			April 1, 1970 to June 30, 1973		
	Civilian population	Military dependents	Other civilians	Civilian population	Military dependents	Other civilians
Net change	+133,937	+1,801	+132,136	+60,983	+8,441	+52,542
Natural increase	126,161	42,351	83,810	37,877	11,551	26,326
Percent	94.2	—	63.4	62.1	...	50.1
Births	163,762	43,908	119,854	51,087	12,048	39,039
Deaths	37,601	1,557	36,044	13,210	497	12,713
Military separations						
less inductions	-4,120	—	-4,120	+3,000	—	+3,000
Net in-migration	+11,896	-40,550	+52,446	+20,106	-3,110	+23,216
Percent	8.9	—	39.7	33.0	...	44.2
In-migrants ¹	(NA)	(NA)	192,541	(NA)	(NA)	97,152
From U.S.	(NA)	(NA)	156,025	(NA)	(NA)	75,198
Aliens	(NA)	(NA)	36,516	(NA)	(NA)	21,954
Out-migrants ¹	(NA)	(NA)	140,095	(NA)	(NA)	73,936

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, 1973* (Statistical Report 102, April 15, 1974), table 4, p. 8.

Table 23.—INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND OR ABROAD:
1950 TO 1974

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	45,435	39,380	8,891	6,988	23,501	6,055	3,704	2,351
1972	50,437	43,672	9,217	10,582	23,873	6,765	3,764	3,001
1973	48,788	41,907	11,230	9,348	21,329	6,881	3,179	3,702
1974	42,613	37,829	9,598	8,104	20,127	4,784	2,907	1,877

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 1974 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 24.—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 25.—RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1972

(Excludes persons in institutions or military barracks, or on Niihau.)

Based on a sample survey of 21,924 persons.)

Place of residence 1 year earlier	Total	Armed forces	Military dependents	Other civilians
Total	787,051	33,127	80,403	673,521
Same house	614,395	15,555	42,148	556,692
Different house, same island	101,067	7,968	14,469	78,629
Different island	6,415	132	331	5,952
Different state	41,132	7,384	16,977	16,772
Different country	10,852	2,088	2,878	5,886
Under 1 year old	13,190	—	3,599	9,590

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

Table 26.—PERSONS NATURALIZED: 1960 TO 1973

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
1973	2,099

Source: U.S. Immigration and Naturalization Service, *Annual Report* for 1969-1973.

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 crude death rate in 1972 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 17.5 in 1972. Diseases of the heart have accounted for a third of all deaths in recent years; cancer, for one-fifth. The 1972 crude birth rate was 20.2, compared with 29.7 a decade earlier. 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. There were 6,162 fetal deaths in 1972, including 4,547 induced abortions. Marriages numbered 9,750 in 1972, with about a fifth accounted for by nonresidents. Divorces reached a 1972 total of 3,891. The State had 31 hospitals (with 4,252 beds) and 161 nursing and care homes (with 2,031 beds) when most recently surveyed. Average length of stay in the largest of the hospitals was 7.0 days in 1973, compared with 13.0 in 1920 and 59 in the 1870's. State licensing boards listed 2,039 physicians and surgeons, 714 dentists, 4,735 professional nurses, and 379 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: 1973* contains similar data for the nation as a whole.

Table 27.—BIRTHS, DEATHS, AND INFANT DEATHS: 1849 TO 1973
 (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	21.3	5.8	16.0	99.4	88.4
1972	15,413	4,430	20.2	5.8	17.5	99.2	93.0
1973 ⁸	15,356	4,522	19.8	5.8	13.6	(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 28.—BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1972 AND 1973
(Place of residence basis)

Military status	Resident population		Live births		Deaths		Birth rate ¹		Death rate ¹	
	1972	1973 ²	1972	1973 ²	1972	1973 ²	1972	1973 ²	1972	1973 ²
Total population	816,149	832,147	15,364	15,106	4,246	4,308	18.8	18.2	5.2	5.2
Armed forces	51,971	56,393	—	—	27	33	—	—	0.5	0.6
Civilians	764,178	775,754	15,364	15,106	4,219	4,275	20.1	19.5	5.5	5.5
Military dependents	66,222	70,299	3,543	3,624	159	169	53.5	51.6	2.4	2.4
Other civilians	697,956	705,455	11,821	11,482	4,060	4,106	16.9	16.3	5.8	5.8
Armed forces and dependents	118,193	126,692	3,543	3,624	186	202	30.0	28.6	1.6	1.6

¹Per 1,000 resident population.

²Provisional.

Source: Population from the Hawaii State Department of Planning and Economic Development, Statistical Report 102. Births and deaths from Hawaii State Department of Health, records.

Table 29.—CHARACTERISTICS OF BIRTHS AND DEATHS: 1962 TO 1972
(Place of occurrence basis)

Subject	1962	1971	1972
LIVE BIRTHS			
Number	17,932	15,845	15,413
Percent on Oahu	84.7	83.1	81.8
Males per 100 females	104.4	107.6	106.1
Percent attended by physician	99.7	99.7	99.6
Percent with prenatal visit in first 3 months	45.9	62.9	64.7
Percent of mixed race ¹	37.7	41.7	42.0
Median age of mother (years)	25.6	24.9	25.1
Percent first births	26.4	38.4	39.4
Median weight of single births (grams)	3,192	3,242	*3,253
Percent of births plural	1.6	1.5	1.4
Percent premature	8.4	8.4	7.9
Percent with 1 or more congenital malformations	0.9	1.1	1.1
CIVILIAN DEATHS			
Number	3,512	4,304	4,430
Percent on Oahu	73.5	75.2	74.6
Males per 100 females	170.3	156.7	157.1
Median age (years)	63.7	66.0	66.6
Disposition (percent): Burial	57.3	52.0	51.7
Cremation	36.0	37.5	38.1
Removal	} 6.7	} 9.6	9.3
Other			0.9
INFANT DEATHS			
Number	369	254	270
Rate per 1,000 live births, total	20.6	16.0	17.5
Under 1 day	10.8	7.7	9.1
1 to 6 days	4.5	3.2	3.2
7 to 27 days	1.2	1.3	1.6
28 days to 11 months	4.0	3.8	3.7
FETAL DEATHS			
Number	1,223	5,739	6,162
Per 1,000 deliveries	64	266	286
20 weeks or more gestation	234	372	352
Elective abortions	9	4,135	4,547
Per 1,000 live births	0.5	261	295

*7 lb., 3 oz.

NA Not available.

¹Includes part Hawaiian. Excludes births with unknown parentage.

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

✓ Table 30.—CIVILIAN DEATHS, BY CAUSE: 1932 TO 1972

Cause of death ¹	Number, 1972	Percent distribution			Rate per 100,000 population		
		1972	1962	1932 ²	1972	1962	1932 ²
All causes	4,246	100.0	100.0	100.0	525.1	563.9	953.2
Diseases of the heart	1,420	33.5	34.2	10.4	175.6	192.9	98.7
Malignant neoplasms	872	20.5	16.3	7.6	107.9	92.1	72.2
Cerebrovascular diseases	404	9.5	9.0	5.3	50.0	50.5	50.6
All accidents	252	5.9	5.8	7.2	31.2	32.8	68.6
Certain causes in early infancy	166	3.9	7.0	6.7	20.5	39.4	63.6
Influenza and pneumonia	166	3.9	4.3	11.5	20.5	24.2	109.9
Diabetes mellitus	111	2.6	2.5	1.0	13.7	14.2	9.4
Suicides	77	1.8	1.7	1.8	9.5	9.6	17.4
Cirrhosis of liver	68	1.6	1.4	1.1	8.4	7.8	10.4
Bronchitis, asthma, emphysema	58	1.4	1.6	...	7.2	8.9	...
Congenital anomalies	57	1.4	2.7	1.7	7.1	15.2	16.6
Homicide	55	1.3	0.4	0.6	6.8	2.1	6.2
Other diseases of arteries	43	1.0	...	...	5.3	...	...
Arteriosclerosis	34	0.8	1.2	1.1	4.2	6.9	10.1
Other external causes	34	0.8	...	...	4.2	...	...
All other causes	429	10.1	11.9	44.0	53.0	67.3	419.5

NA Not available.

¹The leading causes of death in 1972, listed in order of deaths for that year.

²Includes armed forces.

Source: *Statistical Report, Department of Health, State of Hawaii, 1972*, p. 31.

**Table 31.—ACCIDENTS AND NATURAL DISASTERS CAUSING FIVE OR MORE DEATHS:
1779 TO 1973**

Category or year	All disasters		Worst disaster	
	Number	Deaths	Year or category	Deaths
All categories, 1779-1973	123	5,715	1941	2,500
Natural disasters	11	755	1790	400
Tsunami	5	287	1946	159
Flood, wind, or earth movement	5	68	1868	31
Volcano	1	400	1790	400
Fire or explosion	6	219	1944	163
Transportation ¹	99	2,069	1830	250
Marine	51	1,501	1830	250
Air	41	528	1955	66
Railroad or motor vehicle	7	40	1944, 1969	7
Violence ²	7	2,672	1941	2,500
Pearl Harbor attack	1	2,500	1941	2,500
Assault, murder, or riot	6	172	1790	100+
1779-1789	1	35	Violence	35
1790-1799	4	511	Volcano	400
1800-1809	1	14	Marine	14
1810-1819	—	—	—	—
1820-1829	—	—	—	—
1830-1839	3	271	Marine	250
1840-1849	5	91	Marine	37
1850-1859	3	80	Marine	70
1860-1869	4	303	Marine	210
1870-1879	3	22	Marine	11
1880-1889	7	57	Marine	13
1890-1899	3	26	Marine	14
1900-1909	7	365	Marine	140
1910-1919	6	79	Marine	25
1920-1929	5	118	Marine	48
1930-1939	7	66	Marine	25
1940-1949	30	3,141	Pearl Har.	2,500
1950-1959	16	274	Air	66
1960-1969	10	183	Tsunami	61
1970	1	5	Auto	5
1971	3	35	Air	24
1972	2	28	Marine	20
1973	2	11	Air	6

¹Includes ships or aircraft that sank, crashed or vanished elsewhere, if Hawaii was their next (or last) port of call, or if Hawaii was the first land reached by survivors.

²Includes the Pearl Harbor attack but excludes the wars of the late 18th and early 19th centuries and the Battle of Midway.

Source: Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. 3 (1969), pp. 66-86, as updated to December 31, 1973.

✓ **Table 32.—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	47.80	52.55	43.10	36.28	23.20	11.33
1929-1931	53.09	58.31	47.65	39.29	23.48	11.10
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	47.30	51.32	41.83	35.79	24.73	12.33
1929-1931	56.28	59.93	48.89	40.68	25.47	11.83
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; Robert W. Gardner and Eleanor C. Nordyke, *The Demographic Situation in Hawaii*, Papers of the East-West Population Institute, No. 31 (June 1974), pp. 64-75.

Table 33.—ABORTIONS: MARCH 13, 1970 TO DECEMBER 31, 1971

(Covers the first 21½ months 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	7,148	Average age of woman (years)	24.7
Abortions per 1,000 live births	244	Currently married (percent)	36.6
Performed on Oahu (percent)	93.4	Hawaii resident under 1 year (percent)	17.4
Gestation 13 weeks or over (percent)	12.8	Protestant (percent)	39.7
By dilatation and curettage and/or suction (percent)	89.7	Roman Catholic (percent)	28.9
With complications (percent)	6.9	Income under \$6,000 (percent)	34.0
Deaths	1	Not using birth control (percent)	64.4
In hospital 13 hours or more (percent)	42.6	First abortion (percent)	89.3
Usual cost (dollars)	350		

Source: Roy G. Smith, Patricia G. Steinhoff, James A. Palmore, and Milton Diamond, "Abortion in Hawaii: 1970-1971," *Hawaii Medical Journal*, July-August 1973, pp. 213-220.

Table 34.—HOSPITAL FACILITIES AND USE: 1931 TO 1972

Subject	Hospitals ¹					Nursing and care homes 1972
	1931	1947	1960	1970	1972	
Number of institutions	36	41	34	31	31	161
Oahu	12	15	19	17	17	136
Other islands	24	26	15	14	14	25
Total beds	2,968	4,687	5,087	5,021	4,252	2,031
Acceptable beds	—	—	4,145	2,698	...	...
Bassinets	107	396	393	326	323	...
Percent occupancy	75	76	71	77	74	93
Average census	2,212	3,541	3,626	3,848	3,148	1,897
Patient days	807,380	1,292,465	1,323,823	1,405,019	1,149,104	692,391
Admissions	31,053	65,198	83,327	88,861	89,797	1,610
Average stay (days)	26.0	19.8	15.9	15.8	12.8	430.1

¹Excludes Waimano Home, Kalaupapa Settlement, and hospitals not registered with the American Medical Association, 1931 and 1947, State Hospital in 1972, 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 1972.

Table 35.—BEDS IN HOSPITALS AND NURSING AND CARE HOMES, BY TYPE AND ISLAND: 1972

Type of facility and bed	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
HOSPITALS¹							
All beds	4,623	502	317	14	296	3,180	314
General or acute	1,950	266	157	14	31	1,349	133
Matern.-gyn.	131	—	—	—	—	131	—
Pediatric	80	—	—	—	—	80	—
Mental ²	1,302	20	50	—	—	1,160	72
Tuberculosis	131	36	19	—	—	64	12
Orthopedic	40	—	—	—	—	40	—
Leprosy	372	—	—	—	265	107	—
Long-term	553	180	91	—	—	185	97
Rehabilitation	64	—	—	—	—	64	—
HOMES							
All types	2,031	28	140	—	—	1,808	55
Nursing homes	951	—	124	—	—	827	—
Care homes	1,080	28	16	—	—	981	55

¹Excludes Tripler General Hospital, a 750-bed armed forces hospital on Oahu.

²Data for State Hospital (Oahu, 371 beds) refer to 1971.

Source: *Statistical Report, Department of Health, State of Hawaii, 1972*, pp. 133-136.

Table 36.—SELECTED LONG-TERM CONDITIONS: 1870 TO 1973

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 active TB register, year end
	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	741	—	3	26	315	7	289
1973	761	367	229	35	717	—	3	19	303	8	307

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 15 active patients as of December 31, 1973.

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.

⁷The 1960 figure is the end-of-the-year (December 31) total.

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 37.—PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII:
1973 AND 1974**

Date, type of license, and place of residence	Physicians (M.D.)	Dentists	Registered nurses	Pharmacists
MARCH 28, 1973				
Total licensed	1,901	662	4,021	321
Permanently licensed	1,711	662	4,021	321
Hawaii	64	33	230	14
Maui	44	18	173	15
Lanai	2	1	7	—
Molokai	5	1	21	2
Oahu	993	428	2,868	211
Kauai	34	16	106	8
Nonresident	569	165	616	71
Limited and temporary licenses	190	—	—	—
APRIL 2, 1974				
Total licensed	2,039	714	4,735	379
Permanently licensed ¹	1,933	714	4,735	379
Limited and temporary licenses	106	—	—	—

¹Not available by place of residence.

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

Table 38.—MARRIAGES AND DIVORCES: 1845 TO 1973
(Place of occurrence basis. Data are for calendar years unless otherwise specified.)

Year	Marriages	Divorces and annulments	Rate per 1,000 pop. ¹		Percent of marriages	
			Marriages	Divorces	Resident groomsmen	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	13.1	5.0	77.3	38.7
1972	9,750	3,891	12.8	5.1	81.3	38.6
1973 ⁸	9,774	4,170	12.6	5.4	(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 1966-1972, and records.

Table 39.—MARRIAGES OCCURRING IN HAWAII, BY RACE OF PARTNERS: 1972

Race of groom	Race of bride													Outmarriage among grooms	
	All races	Caucasian	Haw'n	Part Haw'n	Chinese	Filipino	Japanese	Puerto Rican	Korean	Samoan	Negro	Other races	Unknown	Number	Percent
All races	9,750	3,960	66	1,580	370	1,195	1,879	127	197	143	80	152	1	3,765	38.6
Caucasian	4,355	3,095	19	375	86	251	334	31	74	18	15	56	1	1,260	28.9
Hawaiian	95	29	11	41	2	4	6	1	1	—	—	—	—	84	88.4
Part Hawaiian	1,424	333	17	684	34	139	131	25	18	11	5	27	—	740	52.0
Chinese	342	54	—	21	134	17	94	3	14	3	—	2	—	208	60.8
Filipino	1,138	168	4	191	15	648	78	15	2	6	—	11	—	490	43.1
Japanese	1,659	132	6	103	78	74	1,194	8	48	1	1	14	—	465	28.0
Puerto Rican	143	32	2	48	1	18	6	34	1	—	—	1	—	109	76.2
Korean	106	13	2	10	10	9	25	1	32	3	—	1	—	74	69.8
Samoan	134	13	—	21	5	2	—	—	—	91	—	2	—	43	32.1
Negro	184	36	4	43	3	15	2	5	6	6	58	6	—	126	68.5
Other races	170	55	1	43	2	18	9	4	1	32	1	4	—	166	97.6
Outmarriages	3,765	865	55	896	236	547	685	93	165	52	22	148	1	—	—
Percent	38.6	21.8	83.3	56.7	63.8	45.8	36.5	73.2	83.8	36.4	27.5	97.4	...	—	—

Source: Statistical Report, Department of Health, State of Hawaii, 1972, p. 52.

Section 3

EDUCATION

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

Enrollment in elementary, intermediate and high schools in 1973-1974 totaled 212,012, or almost double the 1940 figure. There were 225 public schools with 7,780 classroom teachers and 178,307 students (about 84 percent of the total). There were also 120 private schools, with 33,700 pupils. Some 44,000 students attended colleges and universities in the State in 1973, 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. A 1972 survey reported 147 libraries with 3,683,000 bound volumes. The Hawaii State Library System had 2.1 million books, film reels, phonorecords, and other collections in 1973, with an annual circulation of 4.0 million; the University of Hawaii libraries in the same year counted 1,516,000 volumes.

Section 4 of the *Statistical Abstract of the United States: 1973* presents comparable data for the nation as a whole.

Table 40.—PUBLIC AND PRIVATE SCHOOLS, TEACHERS, ENROLLMENT, AND GRADUATES: 1820 TO 1974

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	8,113	1,715	215,524	182,957	32,567	11,185	2,119
1972-1973	222	119	8,187	1,797	214,360	181,587	32,773	11,147	2,174
1973-1974	225	120	7,780	...	212,012	178,307	33,705	...	...

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 41.—PUPIL MEMBERSHIP, FACILITIES, AND EXPENDITURES OF PUBLIC AND PRIVATE SCHOOLS:
1973-1974**

Subject	All schools	Public schools	Private schools
Pupil membership, all counties	212,012	178,307	33,705
City and County of Honolulu	171,296	141,268	30,028
County of Hawaii	18,713	17,238	1,475
County of Maui	13,607	12,097	1,510
County of Kauai	8,396	7,704	692
Pupil membership, all grades	212,012	178,307	33,705
Nursery	2,170	—	2,170
Kindergarten	14,204	11,880	2,324
1	14,766	12,470	2,296
2	15,085	12,859	2,226
3	15,676	13,470	2,206
4	16,320	14,104	2,216
5	16,843	14,626	2,217
6	16,802	14,446	2,356
7	16,687	14,006	2,681
8	16,280	13,678	2,602
9	16,615	14,023	2,592
10	16,142	13,674	2,468
11	14,999	12,603	2,396
12	13,868	11,643	2,225
Specials	5,015	4,285	730
Others	540	540	—
Average daily attendance, 1972-1973	(NA)	166,503	(NA)
Average daily membership, 1972-1973	(NA)	181,574	(NA)
Number of schools	345	225	120
Current expenditures, 1972-1973 (\$1,000)	(NA)	222,024	(NA)
Per ADA (dollars)	(NA)	1,296	(NA)
Per ADM (dollars)	(NA)	1,118	(NA)

NA Not available.

Source: Hawaii State Department of Education, records.

Table 42.—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 43.—EXPENDITURES, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1849 TO 1973

Year ¹	Expenditures (dollars) ²		Cost per pupil ³ (dollars)	Ave. ann. salary of teachers ⁴ (dollars)	Number of school days
	Current operations	Capital outlay			
1849	18,829	3,161	1.41	32	164
1863	27,959	2,870	3.90	92	192
1892	74,264		9.64	490	(NA)
1913	663,991		25.91	851	(NA)
1920	1,683,434	31,000	40.71	1,163	180
1930	5,147,296	440,375	68.47	1,773	180
1940	7,033,958	473,699	76.37	1,793	180
1950	15,924,639	659,076	177.62	3,347	180
1960	46,641,819	6,439,864	332.37	5,802	180
1970	146,753,192	37,564,333	818.19	9,591	179
1971	179,070,294	34,539,101	988.54	10,424	177.5
1972	183,830,422	35,269,593	1,007.10	10,459	178.5
1973	184,118,840	31,618,093	1,014.02	10,883	174

NA Not available.

¹Data for 1950 and later years are for fiscal years.

²School repairs and maintenance included with current operations in 1849 and 1863. Figure for 1892 is annual average for biennium.

³Data for 1920 and later years based on average daily membership.

⁴Figure for 1892 is median rather than mean. Partly estimated for 1913 and 1950.

Source: *Report of the Minister of Public Instruction* (1850), p. 21 and unpagged table; *Biennial Report of the President of the Board of Education . . . 1864*, pp. 2-3; George Allen Odgers, *Education in Hawaii, 1820-1893* (Ed.D. dissertation, Stanford Univ., 1933), p. 201; *Biennial Report of the Minister of Finance . . . 1894*, p. 45; *Report of the Superintendent of Public Instruction . . . 1914*, pp. 54, 55 and 61; Hawaii State Department of Education, records.

**Table 44.—DAYTIME ENROLLMENT AND DEGREES AWARDED AT THE UNIVERSITY OF HAWAII:
1908-09 TO 1973-74**

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	1,251	3,205	1,272	98
1973-74	22,272	1,702	16,107	...	...	...	...

¹Regular credit program. Data 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; Management Systems Office, University of Hawaii, *Facts About the University of Hawaii*, December 1973.

✓ Table 45.—ENROLLMENT IN CREDIT COURSES, FALL 1973, AND DEGREES AWARDED, 1973,
FOR COLLEGES AND UNIVERSITIES

Institution	Location	Enrollment in credit courses, Fall 1973 ¹			Degrees awarded, 1973 ²			
		Total	Under-graduate	Graduate	Associate	Bachelor's	Master's	Doctor's
University of Hawaii, total .....	.....	40,081	34,966	5,017	1,251	3,205	1,272	98
Univ. of Hawaii at Manoa	Honolulu	22,272	17,157	5,017	65	3,050	1,272	98
Univ. of Hawaii at Hilo .....	.....	3,007	3,007	—	124	155	—	—
Hilo College	Hilo	1,702	1,702	—	—	155	—	—
Hawaii Community College ³	Hilo	1,305	1,305	—	124	—	—	—
Community Colleges ³ .....	.....	14,802	14,802	—	1,062	—	—	—
Honolulu Community College ³	Honolulu	2,774	2,774	—	...	—	—	—
Kapiolani Community College ³	Honolulu	3,559	3,559	—	...	—	—	—
Kauai Community College ³	Lihue	1,004	1,004	—	...	—	—	—
Leeward Community College ³	Pearl City	5,376	5,376	—	...	—	—	—
Maui Community College ³	Kahului	1,260	1,260	—	...	—	—	—
Windward Community College ³	Kaneohe	829	829	—	...	—	—	—
Private colleges, total .....	.....	3,663	3,663	—	11	475	—	—
Chaminade College of Honolulu	Honolulu	1,888	1,888	—	4	348	—	—
Church College of Hawaii	Laie	1,004	1,004	—	—	79	—	—
Hawaii Loa College	Kaneohe	203	203	—	—	32	—	—
Hawaii Pacific College	Honolulu	426	426	—	—	16	—	—
U.S. International University— Maunaolu Campus ³	Makawao	142	142	—	7	—	—	—

¹Data for University of Hawaii system limited to regular credit program. Manoa total includes 98 not reporting class data.

²Excludes professional diplomas (347 at Manoa) and certificates of achievement (121 from Hawaii Community College and 439 from other community colleges). Data for the UH system refer to the year ended June 30, 1973.

³Two-year program.

Source: University of Hawaii, Management Systems Office, *Facts About the University of Hawaii, December 1973*; data supplied by private colleges.

Table 46.—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
45 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 47.—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 48.—LIBRARIES: 1972

Library system	Number of libraries					Bound volumes (in thousands)				
	State total	Oahu	Hawaii Co.	Kauai Co.	Maui Co.	State total	Oahu	Hawaii Co.	Kauai Co.	Maui Co.
All categories	147	133	6	3	5	3,683	3,235	170	117	161
Hawaii State Library	1	1	—	—	—	264	264	—	—	—
Others in State system	20	17	1	1	1	926	605	98	101	122
State government	10	10	—	—	—	131	131	—	—	—
County government	6	3	1	1	1	35	35	—	—	—
U.S. Armed Forces libraries	24	23	1	—	—	304	300	4	—	—
Other Federal government	9	8	1	—	—	41	38	3	—	—
University of Hawaii system	9	8	1	—	—	1,281	1,221	60	—	—
Community Colleges	7	4	1	1	1	124	78	5	16	25
Private colleges	6	5	—	—	1	191	179	—	—	12
Museums	8	8	—	—	—	92	92	—	—	—
Other organizations ¹	47	46	—	—	1	294	292	—	—	2

¹Business firms, consulates, private agencies, etc.

Source: Hawaii Library Association, "A Directory of Libraries and Information Sources in Hawaii and the Pacific Islands," *HIA Journal*, Vol. XXIX, No. 2, December 1972.

Table 49.—HAWAII STATE LIBRARY SYSTEM: 1965 TO 1973

Year	Books and other collections, June 30								Circulation ⁵
	State total ¹	State Library Branch ²	Library for Handicapped	Other collections ³	Oahu Public Library ⁴	Hawaii Public Library	Kauai Public Library	Maui Public Library	
1965	700,178	212,092	...	...	235,173	111,802	62,059	79,052	3,561,073
1966	1,137,225	212,021	13,480	368,129	283,893	110,489	64,881	84,332	3,725,885
1967	1,330,749	218,599	14,053	490,759	331,704	119,608	66,131	89,895	3,461,652
1968	1,510,300	226,384	15,074	624,871	356,887	128,599	67,423	91,062	3,541,118
1969	1,489,167	234,444	17,396	523,376	397,103	142,996	73,628	100,224	3,479,877
1970	1,656,481	258,185	19,403	589,141	449,451	152,843	80,743	104,632	3,645,950
1971	1,810,467	284,379	27,652	608,030	517,954	168,935	88,883	111,670	3,905,825
1972	1,943,214	292,820	34,399	651,194	568,768	179,525	96,174	117,013	4,130,579
1973	2,079,681	312,491	38,788	691,391	618,629	192,676	101,566	124,140	4,024,186
1974	1,830,325	285,303	39,980	356,972	701,462	205,565	107,217	133,826	3,984,706

¹Totals for 1970-1972 include Educational Information Center: 2,083 in 1970, 2,964 in 1971, and 3,321 in 1972.

²Main Branch, 478 South King St., Honolulu.

³Mostly kept at the State Library Branch. Includes government documents, microcards, film reels, microfilm reels, microfiche, phonorecords, tapes, college catalogs, film loops, film strips, maps, pamphlets, pictures, prints, and slides. Excludes newspapers and periodicals, Japanese language books, and honor system paperbacks.

⁴All branch libraries on Oahu except the State Library Branch.

⁵Statewide totals for years ended June 30. The 1973 total includes 550,559 for the State Library Branch, 2,344,166 for the Oahu Public Library, 522,553 for the Hawaii Public Library, 302,278 for the Kauai Public Library, and 304,630 for the Maui Public Library.

Source: Hawaii State Department of Education, Division of Library Services, *Annual Report* (1966-1973) and 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 1972 numbered 37,091, or twice as many as in 1962. The rate per 100,000 population has increased from 1,333 in 1950 to 4,544 in 1972. More than 85 percent of the 1972 total occurred on Oahu. For the State as a whole, major offenses known to police in 1972 included 52 murders, 60 cases of negligent manslaughter, 170 rapes, 446 robberies, 476 aggravated assaults, 10,717 burglaries, 21,993 cases of larceny, and 3,175 auto thefts. The value of property reported stolen on Oahu alone exceeded \$6.2 million; only 9.1 percent was recovered. For the State as a whole, 31.1 percent of the major offenses and 70.4 percent of the minor offenses were cleared by arrest or otherwise. Fifty-eight percent of the persons arrested for major crimes and one-third of those arrested for lesser offenses were less than eighteen years of age. Over 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 382 during 1973, compared with 1,000 five decades earlier. The State Supreme Court, five circuit courts, and twenty-seven district courts handled 577,000 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: 1973*, Section 5.

Table 50.—ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTY: 1884-86 TO 1973

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate ¹				
1884-1886 ²	579	356	213	135	129	102
1925	...	...	...	72	...	...
1931 ³	...	...	1,664	78	...	...
1935	...	...	3,566	...	117	...
1940	5,266	1,231	4,115	649	68	434
1945	5,261	646	4,192	445	144	480
1950	6,639	1,333	5,467	516	243	413
1955	8,919	1,654	7,636	454	282	547
1960	14,569	2,271	12,986	628	465	490
1965	22,891	3,252	20,723	829	524	815
1966	24,865	3,501	22,689	816	506	854
1967	27,221	3,767	24,847	919	649	806
1968	34,295	4,669	31,044	1,297	730	1,224
1969	36,109	4,813	32,636	1,406	779	1,288
1970	41,201	5,329	36,779	1,626	993	1,803
1971	42,952	5,398	37,459	1,867	1,326	2,300
1972	37,091	4,545	31,594	2,047	1,195	2,255
1973	41,850	5,029	35,275	2,612	1,596	2,367

¹Annual total per 100,000 mid-period population (including armed forces). Population estimate for April 1, 1885 interpolated from estimates in 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 102 (April 15, 1974), table 1.

²Two-year period ended 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."

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 51.—ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1931 TO 1973

Year	Total Part I offenses	Murder; non-neg. mansl.	Man-slaughter (neglig.)	Rape	Robbery	Aggravated assault	Burglary	Larceny ¹		Auto. theft
								Higher value	Lower value	
1931	1,664		28	16	57	101	556	819		87
1935	3,566	16	16	16	20	47	958	116	2,116	261
1940	4,115	8	7	9	18	24	1,224	182	2,335	308
1945	4,192	14	21	25	56	110	1,005	458	1,830	673
1950	5,467	8	19	27	42	103	1,272	572	3,097	327
1955 ²	7,636	23	13	39	52	48	2,135	227	4,697	402
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 ²	37,459	31	46	124	715	341	9,599	9,426	12,923	4,254
1972 ²	31,594	46	31	144	424	343	8,943	3,955	14,751	2,957
1973 ²	35,275	36	50	150	663	287	10,838	8,440	11,323	3,488

¹Classified as "\$50 and over" and "Under \$50" for 1932-1952, 1971 and 1973; "\$100 and over" and "Under \$100" for 1953-1958; "Over \$100" and "Under \$100" for 1959-1970; and "Over \$100" and "\$100 and less" for 1972.

²Data on larceny by value not comparable to previous year (see above, footnote 1).

Source: Seth W. Richardson, *Law Enforcement in the Territory of Hawaii* (1932), p. 228; Honolulu Police Department, *Annual Report* (1934-1956) and *Statistical Report* (1957-1973).

Table 52.—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 1973

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)
1935	1,592	45	1,795	755	44	996
1940	1,765	43	1,802	1,021	44	737
1945	1,757	42	2,031	919	66	1,046
1950	2,255	41	2,096	1,073	81	942
1955	2,513	33	2,684	1,503	130	1,051
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	10,028	32	5,954	2,406	1,035	2,513
1973	8,721	25	6,558	2,623	1,005	2,930

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 and later years).

Table 53.—ACTUAL OFFENSES KNOWN TO POLICE, BY COUNTY, AND OFFENSES
CLEARED BY ARREST OR OTHERWISE: 1972 AND 1973

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, 1972	75,577	62,669	4,090	2,754	6,064	38,597	51.1
Part I offenses	37,091	31,594	2,047	1,195	2,255	11,521	31.1
1A Murder; non-neg. manslaughter	52	44	6	0	2	40	76.9
1B Manslaughter (negligent)	60	31	16	2	11	55	91.7
2 Rape	170	144	6	8	12	122	71.8
3 Robbery	446	424	14	5	3	259	58.1
4 Aggravated assault	476	343	58	14	61	354	74.4
5 Burglary	10,717	8,943	644	368	762	3,562	33.2
6A Larceny, \$50 and over ²	8,763	7,829	520	195	219	1,593	18.2
6B Larceny, under \$50 ³	13,230	10,877	711	556	1,086	4,512	34.1
7 Auto theft	3,175	2,957	72	47	99	1,024	32.3
Part II offenses ⁴	38,486	31,075	2,043	1,559	3,809	27,076	70.4
8 Other assaults	5,384	4,254	375	277	478	4,221	78.4
9 Arson	223	210	13	0	0	30	13.5
10 Forgery; counterfeiting	454	328	74	15	37	285	62.8
11 Fraud	} 951	{ 663	71	} 57	125	706	74.2
12 Embezzlement .....								{ 27	8
13 Stolen property, reg.	56	35	9	0	12	56	100.0
14 Vandalism	4,831	4,402	429	0	0	858	17.8
15 Weapons	504	436	10	1	57	431	85.5
16 Prostitution	54	48	5	1	0	41	75.9
17 Sex offenses	691	636	22	0	33	555	80.3
18 Drug laws	1,604	1,067	189	143	205	1,301	81.1
19 Gambling	456	334	26	42	54	438	96.1
20 Offenses against family	78	54	18	2	4	75	96.2
21 Driving intoxicated	1,072	877	109	33	53	1,053	98.2
22 Liquor laws	313	253	45	0	15	302	96.5
24 Disorderly conduct	881	464	94	208	115	698	79.2
25 Vagrancy	27	8	16	1	2	16	59.3
26 All other offenses ⁵	20,907	16,979	530	779	2,619	16,010	76.6

(Continued on next page)

**Table 53.—ACTUAL OFFENSES KNOWN TO POLICE, BY COUNTY, AND OFFENSES
CLEARED BY ARREST OR OTHERWISE: 1972 AND 1973 (continued)**

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, 1973	86,143	70,303	5,289	3,205	7,346	40,321	46.8
Part I offenses	41,850	35,275	2,612	1,596	2,367	10,560	25.2
1A Murder; non-neg. manslaughter	41	36	5	—	—	29	70.7
1B Manslaughter (negligent)	73	50	9	3	11	39	53.4
2 Rape	179	150	8	8	13	87	48.6
3 Robbery	708	663	23	14	8	263	37.1
4 Aggravated assault	375	287	38	4	46	217	57.9
5 Burglary	13,093	10,838	814	666	775	3,157	24.1
6A Larceny, \$50 and over ²	9,472	8,440	590	275	167	1,508	15.9
6B Larceny, under \$50 ³	14,182	11,323	1,048	545	1,266	4,379	30.9
7 Auto theft	3,727	3,488	77	81	81	889	23.9
Part II offenses ⁴	74,054	35,028	2,677	1,609	4,979	29,761	40.2
8 Other assaults	9,960	4,327	345	436	556	4,296	43.1
9 Arson	349	257	40	—	—	52	14.9
10 Forgery; counterfeiting	799	314	48	34	113	290	36.3
11 Fraud	1,427	605	98	40	91	574	40.2
12 Embezzlement		11	8				
13 Stolen property, reg.	62	12	10	—	9	31	50.0
14 Vandalism	5,713	4,327	495	—	—	891	15.6
15 Weapons	1,013	421	62	5	57	468	46.2
16 Prostitution	774	384	9	1	1	379	49.0
17 Sex offenses	591	284	14	10	64	219	37.1
18 Drug laws	2,520	609	359	169	373	1,010	40.1
19 Gambling	662	258	28	10	32	334	50.5
20 Offenses against family	131	50	17	2	4	58	44.3
21 Driving intoxicated	6,160	2,496	314	86	204	3,060	49.7
22 Liquor laws	491	181	41	—	27	242	49.3
24 Disorderly conduct	1,688	576	127	57	142	786	46.6
25 Vagrancy	10	—	7	—	—	3	30.0
26 All other offenses ⁵	41,704	19,916	655	759	3,306	17,068	40.9

¹Includes previous years' cases cleared.

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

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

⁴Excludes code 23, drunkenness, reclassified a non-criminal offense as of 1969.

⁵Excludes traffic offenses.

⁶Grand larceny for Kauai; larceny over \$200 for Maui.

⁷Petty larceny for Kauai; larceny, \$200 or under for Maui.

Source: County police departments.

Table 54.—JUVENILES AND ADULTS ARRESTED, BY SEX AND DISPOSITION, FOR OAHU: 1973

Age group, sex, and disposition	Part I offenses		Part II offenses	
	Number	Percent	Number	Percent
JUVENILES UNDER 18 YEARS				
Juveniles arrested	3,628	100.0	3,589	100.0
Male	2,623	72.3	2,389	66.6
Female	1,005	27.7	1,200	33.4
Released without charges	499	13.8	143	4.0
Counseled and released	1,079	29.7	877	24.4
Referred to social agency	434	12.0	239	6.7
Referred to Family Court	1,616	44.5	2,330	64.9
Probation or protective supervision	1	0.0	3	0.1
Counseled and released	163	4.5	459	12.8
Hawaii Youth Correctional Facility	21	0.6	25	0.7
Social agency	—	0	—	0
Discharged or other	910	25.1	1,281	35.7
Disposition not reported	521	14.4	562	15.7
ADULTS, 18 YEARS AND OVER				
Adults arrested	2,930	100.0	8,797	100.0
Male	1,977	67.5	7,550	85.8
Female	953	32.5	1,247	14.2
Released	505	17.2	610	6.9
Charged	2,425	82.8	8,187	93.1
Disposition by court	1,822	62.2	6,176	70.2
Convicted	785	26.8	3,853	43.8
Fine	356	12.2	2,968	33.7
Jail	87	3.0	94	1.1
Probation, suspended sentence	340	11.6	744	8.5
Other convictions	2	0.1	47	0.5
Bail forfeitures	48	1.6	281	3.2
Discharged	834	28.5	1,513	17.2
Stricken, nolle prosequi	155	5.3	529	6.0
Disposition not reported	603	20.6	2,011	22.9

Source: Honolulu Police Department, *Statistical Report, 1973*.

**Table 55.—VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED
(EXCLUSIVE OF AUTOMOBILES), FOR OAHU: 1932 TO 1973**

Year	Value of property reported stolen (\$1,000)	Value of stolen property recovered (\$1,000)	Percent recovered	Year	Value of property reported stolen (\$1,000)	Value of stolen property recovered (\$1,000)	Percent recovered
1932	50.6	9.4	18.6	1957	365.3	62.3	17.1
1933	68.6	21.1	30.7	1958	498.5	79.9	16.0
1934	65.4	27.2	41.6	1959	537.4	73.9	13.8
1935	67.4	18.3	27.2	1960	630.1	71.7	11.4
1936	84.2	42.7	50.8	1961	792.2	72.5	9.2
1937	80.5	34.9	43.3				
1938	62.2	19.3	31.0	1962	909.2	100.4	11.0
1939	72.6	18.8	26.0	1963	1,075.2	106.7	9.9
1940	117.5	46.0	38.0	1964	1,418.0	97.2	6.9
1941	115.3	29.6	25.3	1965	1,534.5	85.2	5.4
				1966	2,108.2	103.1	4.9
1942	108.1	22.7	20.8	1967	2,383.9	116.3	4.9
1943	159.3	58.7	36.8	1968	3,676.5	420.1	11.4
1944	242.3	72.4	29.9	1969	4,119.3	204.7	5.0
1945	206.6	46.0	22.3	1970	4,913.4	237.5	4.9
1946	280.9	57.6	20.5	1971	5,509.7	335.9	6.1
1947	274.5	44.8	17.6	1972	6,249.2	566.7	9.1
1948	288.2	35.9	12.4	1973	7,660.5	980.0	12.8
1949	315.6	40.2	12.7				
1950	337.9	41.6	12.3				
1951	292.4	30.7	10.5				
1952	320.9	40.9	12.7				
1953	260.9	51.3	19.6				
1954	265.7	34.9	13.2				
1955	300.9	58.3	18.7				
1956	269.4	33.8	12.5				

Source: *Annual Report, Honolulu Police Department* for 1939-1956; *Statistical Report, Honolulu Police Department* for 1959 and later years.

✓ Table 56.—STATE JUDICIARY CASELOAD: 1959 TO 1973

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
1973	367	347	24,890	27,039	549,586	540,128

NA Not available.

¹Calendar years, 1959-1967; years ended June 30, 1968-1973.

²Calendar years, 1959-1966; January 1-June 30, 1967; years ended June 30, 1968-1973. Includes all circuits. Data for 1960 exclude naturalization cases.

³Calendar years, 1959-1966; January 1-June 30, 1967; years ended June 30, 1968-1973. 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, *Annual Report* (annual) and records.

Table 57.—STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1973
(Year ended June 30)

Court and type of action	Number	Court and type of action	Number
Supreme Court, total	367	District Court, total	549,586
Primary cases	171	Civil	13,585
Appeals	159	Regular	12,592
Original proceedings	12	Small claims	993
Supplemental proceedings	196	Traffic	507,942
Circuit Court Proper, total	8,835	Moving—arrest and citation	141,021
Primary proceedings	8,185	Non-moving	56,285
Civil actions	3,262	Parking	310,636
Probate proceedings	1,564	Other violations	14,820
Guardianship proceedings	589	Criminal actions	13,239
Miscellaneous proceedings	722	Part I offenses	2,629
Criminal actions	2,048	Part II offenses	10,610
Part I offenses	804		
Part II offenses	1,244		
Supplemental proceedings	650		
Family Courts, total	16,055		
Primary proceedings, referrals	13,686		
Marital actions, proceedings	5,353		
Adoption proceedings	885		
Paternity proceedings	57		
Miscellaneous proceedings	218		
Criminal actions	13		
Adults' referrals	713		
Children and minors' referrals	6,447		
Supplemental proceedings	2,369		

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1972 to June 30, 1973.*

Table 58.—STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1973
(Year ended June 30)

Court and type of termination	Number	Court and type of termination	Number
Supreme Court, total	347	District Court, total	540,128
Opinion filed	104	Felonies	1,593
Dismissal motion granted	7	Stricken or discharged	572
Withdrawn or discontinued	32	By commitment to Grand Jury	946
Other disposition	204	By commitment to Circuit Court	75
		Misdemeanors	10,462
Circuit Court Proper, total	9,323	By discharge or dismissal	2,216
No service	812	By nolle prosequi	848
No answer	486	Stricken	948
No statement of readiness	39	By bail forfeiture	701
Dismissal: Notice of	409	By commitment to Circuit Court	448
Stip. for	1,091	By conviction	5,301
By judge	135	Civil cases	13,888
Nonjury: Trial	369	By discontinuance or dismissal	4,574
Trial not completed	58	By default or confession	8,720
Jury: Verdict	228	By trial	594
Trial not completed	54	Traffic and other violations	514,185
Hearings: No trial held	1,246	By discharge or dismissal	7,321
Contested	50	By nolle prosequi	3,305
Uncontested	1,586	Stricken	55,915
Others	2,760	By bail forfeiture	393,578
		By commitment to Circuit Court	14
Family Courts, total	17,716	By conviction	54,052
Nolle prosequi	6		
Dismissal	4		
Nonjury: Trial	6		
Trial not completed	13		
Jury: Verdict	38		
Trial not completed	1		
Hearings: No trial held	90		
Contested	1,500		
Uncontested	9,401		
Counseling service	3,518		
Others	3,139		

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1972 to June 30, 1973.*

Table 59.—INMATES OF CORRECTIONAL INSTITUTIONS: 1878 TO 1973

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	82	53	134
1966	480	80	43	148
1967	437	74	37	148
1968	383	60	25	127
1969	320	51	21	97
1970	281	56	11	111
1971	257	61	12	127
1972	256	49	9	121
1973	300	63	19	111

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 Centers, and the Diagnostic 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 Kawailoa 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 1961-1971 and records; and Hawaii State Department of Social Services and Housing, Corrections Division, records.

Table 60.—INMATE MOVEMENT FOR HAWAII STATE CORRECTIONAL FACILITIES: YEAR ENDED JUNE 30, 1973

Subject	Hawaii State Prison	Diagnostic Center	Kamehameha Conditional Release Center ¹	Laumaka Conditional Release Center ²	Kulani Honor Camp	Olinda Honor Camp ³	Youth Corr. Facility
Committed	1	84	—	—	3	4	195
Returned from parole	46	—	—	—	1	—	56
Transfers in	126	—	52	9	36	20	—
Transfers out	84	90	21	4	23	25	—
Continue on parole	6	—	—	—	—	—	18
Paroled	18	—	36	9	7	2	100
Discharged	8	4	4	—	2	5	122
Died	—	—	—	—	—	—	—
Average number	198	15	11	15	36	25	82
Population, June 30	219	12	8	14	38	20	81
Capacity	448	30	15	15	200	...	200

¹Formerly the Adult Furlough Center.

²Formerly the Conditional Release Center.

³Closed July 25, 1973.

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

Table 61.—LOCAL JAILS: 1970

Jail	Year construction began	Designed capacity	Estimated average population
All local jails .....	...	336	104
Honolulu Jail	1961	227	87
Hawaii County Jail	1905	50	6
Kauai County Jail	1936	14	3
Maui County Jail	1940	45	8

Source: U.S. Department of Justice, Law Enforcement Assistance Administration, National Criminal Justice Information and Statistics Service, *Local Jails. A Report Presenting Data for Individual County and City Jails from the 1970 National Jail Census*, Report SC-1a, January 1973, pp. 37 and 196.

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 41.4 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 President, two U.S. Senators, two U.S. Representatives, 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. 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. Characteristics of individual precincts are described in *1972 Voting Behavior*, compiled by Daniel W. Tuttle, Jr., and published in two volumes by the Center for Government Development, University of Hawaii, in 1973. National statistics appear in the *Statistical Abstract of the United States: 1973*, Section 13.

Table 62.—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	816,149	337,837	41.4	286,691	35.1	84.9
COUNTIES: 1972 ⁴						
Honolulu	665,590	262,597	39.5	220,689	33.2	84.0
Hawaii	68,618	34,958	50.9	30,802	44.9	88.1
Maui	50,551	24,581	48.6	20,981	41.5	85.4
Kauai	31,390	15,701	50.0	14,219	45.3	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 102, tables 1 and 2. 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 63.—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 ...	534,000	280,000	254,000	337,837	169,896	167,941	63.3	60.7	66.1

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 64.—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 65.—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 66.—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 Kaukonahua 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: 32 out of 35 major Oahu beaches were rated "A" in 1972 (coliform not exceeding 50 per 100 ml.), only three were rated "B" (51-500), and none was rated "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. Water withdrawn for use in 1970 averaged 2.7 billion gallons per day, compared with 1.5 billion in 1960 and 1.3 billion in 1950.

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 *Hawai'i, the Natural Environment*, published by the Department of Planning and Economic Development in 1974. National data are reported in *Statistical Abstract of the United States: 1973*, Section 6.

Table 67.—GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Statute miles from Honolulu	Place	Statute miles from Honolulu
Hawaiian Islands:		Other Pacific locations, con.:	
Cape Kumukahi, Hawaii ¹	236	Johnston Island	820
Hilo, Hawaii ²	214	Kingman Reef	1,073
Ka Lae (South Cape), Hawaii	221	Manila, Philippines	5,293
Kailua, Kona, Hawaii	168	Pago Pago, Amer. Samoa	2,606
Kahului, Maui	98	Palmyra Island	1,101
Lanai Airport	72	Papeete, Tahiti	2,741
Molokai Airport	54	Suva, Fiji	3,159
Lihue, Kauai	103	Sydney (Port Jackson), Australia	5,070
Puuwai, Niihau	152	Tokyo, Japan	3,847
Nihoa	283	Wake Island	2,294
Necker Island	520	North and South America:	
French Frigate Shoals	556	Anchorage, Alaska	2,781
Gardner Pinnacles	688	Cape Horn, Chile	7,457
Maro Reef	851	Chicago, Illinois	4,179
Laysan Island	936	Cristobal, Canal Zone	5,214
Lisianski Island	1,065	Los Angeles, California ²	2,557
Pearl and Hermes Atoll	1,208	Miami, Florida	4,856
Midway Islands	1,309	New York, New York	4,959
Kure Atoll ¹	1,367	Portland, Oregon	2,595
Trust Territory of the Pacific Isl.:		San Diego, California	2,610
Majuro, Marshall Islands	2,271	San Francisco, California ²	2,397
Kwajalein, Marshall Islands	2,443	Seattle, Washington	2,679
Kolonia, Ponape, E.C.I.	3,087	Vancouver, B.C.	2,709
Saipan, Mariana Islands	3,704	Victoria, B.C.	2,668
Koror, Palau, W.C.I.	4,593	Tijuana, Mexico	2,616
Other Pacific locations:		Washington, D.C.	4,829
Apra Harbor, Guam	3,806	London, England	7,226
Auckland, New Zealand	4,393	Bombay, India	8,010
Hong Kong	5,541	Ghanzi, Botswana ³	12,417

¹The great circle distance from Cape Kumukahi to Kure Atoll—the points farthest apart in the Hawaiian Archipelago and State of Hawaii—is 1,523 statute miles. The distance from Kure Atoll to other extreme points in the United States is: West Quoddy Head, Maine, 5,788 miles; Log Point, Elliot Key, Florida, 5,852 (Kure and Log Point are the points farthest apart in the fifty States). Kure is 2,486 miles from Tokyo, Japan.

²Hilo is 2,315 statute miles from San Francisco and 2,447 from Los Angeles.

³Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

Source: U.S. Department of the Interior, Geological Survey, *Elevations and Distances in the United States* (1970), and distance computations prepared for the Department of Planning and Economic Development.

✓ Table 68.—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	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 Hawaiian Islands	3.2	3.0	0.2	25	25
Cities:					
Hilo ²	298.9	298.9	—	—	—
Honolulu ³	88.7	86.6	2.1	—	—
On Oahu	85.5	83.6	1.9	—	—
On Northwestern Hawaiian Islands	3.2	3.0	0.2	25	25

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

²As defined in Sec. 70-1, Hawaii Revised Statutes. As defined for census purposes, under provisions of Sec. 26-18, HRS, Hilo has a land area of 56.1 square miles (see DPED Report SB-2a).

³As defined for statistical purposes (see DPED Report SB-1).

Source: Data from Geography Division, U.S. Bureau of the Census, and U.S. Coast and Geodetic Survey, cited in the Hawaii State Department of Planning and Economic Development, *Hawai'i, the Natural Environment* (1974), pp. 9 and 13.

Table 69.—MAJOR SUMMITS
(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
		Necker Island	277
Lanai:		La Perouse Pinnacle	135
Lanaihale	3,370	Gardner Pinnacles	190
		Maro Reef	Awash
Molokai:		Laysan Island	35
Kamakou	4,970	Lisianski Island	20
Puu Nana	1,381	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 70.—MAJOR STREAMS, LAKES, AND WATERFALLS

Subject	Name	Island	Magnitude
Streams:			
Longest water feature (miles)	Kaukonahua Stream	Oahu	33.0
Second longest water feature (miles)	Wailuku River	Hawaii	32.0
Greatest average discharge (million gal. per day)	Wailuku River	Hawaii	184.0
Lakes:			
Greatest area (acres)—			
Natural, intermittent	Halalii Lake	Niihau	841
Natural, perennial	Halulu Lake	Niihau	182
Man-made	Waita Reservoir	Kauai	422
Longest shoreline (miles)	Wahiawa Reservoir	Oahu	11
Deepest (feet)	Wahiawa Reservoir	Oahu	85
Highest (feet above sea level)	Lake Waiau	Hawaii	13,020
Named waterfalls:			
Greatest sheer drop (feet)	Akaka Falls	Hawaii	442
Greatest cascade (feet)	Kahiwa Falls	Molokai	1,750

Source: Hawaii State Department of Planning and Economic Development, *Hawai'i, the Natural Environment* (1974), pp. 15, 16 and 18.

Table 71.—VOLCANIC ERUPTIONS: 1790 TO 1974

(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	22,000,000
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	645	13.8	178,000,000
1973: May 5	< 1	0.07	1,200,000
Nov. 10	30	0.42	4,000,000
Dec. 10 ¹	In progress	0.60	15,000,000

NA Not available.

¹Still in progress, March 1974; area and volume are as of that time.

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; unpublished data from the U.S. Geological Survey, Hawaiian Volcano Observatory.

✓ **Table 72.—EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1838 TO 1973** ✓
 (Except for the earthquake of April 2, 1868, magnitudes of earthquakes prior to 1929
 are conjectural.)

Date	Location	Estimated Richter magnitude
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
1948: June 28	Oahu (?)	Unknown
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
October 9	Kilauea, Hawaii	4.8-5

Source: Information supplied by Wm. Mansfield Adams and Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii. Correct to December 31, 1973.

Table 73.—TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1819 TO 1974

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 July 22, 1974.

Table 74.—WATER PRODUCTION: 1920 TO 1972
(In billions of gallons)

Year and nature of occurrence or distributor	State total	Kauai	Oahu	Molokai	Maui	Lanai	Hawaii
1920, total	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Wells	130.0	8.0	87.7	—	33.6	—	0.5
Other sources	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1937, total	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Wells	152.0	5.1	101.0	—	43.7	—	1.9
Ground water from tunnels	28.0	0.3	14.3	—	7.5	0.1	5.8
Other sources	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1953, total ¹	654.4	170.0	200.0	1.0	191.1	0.5	91.8
Surface	348.9	152.2	26.2	0.4	86.4	—	83.7
Ground: basal	287.1	17.0	158.2	0.6	103.5	—	7.8
Ground: all others	18.3	0.7	15.6	—	1.1	0.5	0.3
Unidentified	0.2	0.2	—	—	—	—	—
1957, total ¹	701.1	183.9	195.8	1.1	225.9	0.7	93.9
Surface	410.6	168.5	28.6	0.4	129.3	—	83.7
Ground: basal	268.9	14.5	149.1	0.6	96.1	—	8.5
Ground: all others	21.5	0.7	18.1	—	0.5	0.7	1.6
Unidentified	0.1	0.1	—	—	—	—	—
City and County	22.9	1.0	19.0	0.1	1.6	—	1.2
Federal	9.1	—	9.0	—	—	—	—
Territory of Hawaii	1.3	—	1.1	0.2	—	—	—
Private	667.9	182.9	166.6	0.7	224.3	0.7	92.7
1972, total ²	(NA)	2.3	170.0	(NA)	(NA)	(NA)	(NA)
City and County	52.6	1.6	44.1	3.6	—	—	3.3
Military systems	(NA)	0.1	12.3	(NA)	(NA)	(NA)	(NA)
Plantations	(NA)	0.5	100.4	(NA)	(NA)	(NA)	(NA)
Industrial	(NA)	—	7.1	(NA)	(NA)	(NA)	(NA)
All others	(NA)	0.1	6.1	(NA)	(NA)	(NA)	(NA)

NA Not available.

¹Water consumption.

²Water production for Oahu and water consumption for other islands. The Oahu total includes 148.0 billion gallons of ground water, 12.2 billion in surface water, and 9.8 billion from shallow wells.

Source: Territorial Planning Board, *First Progress Report. An Historic Inventory of the Physical, Social and Economic and Industrial Resources of the Territory of Hawaii* (2nd ed., 1939), pp. 145 and 147; Hawaii Water Authority, *Water Resources in Hawaii* (1959), pp. 132-134; Honolulu Board of Water Supply, estimates supplied December 26, 1973; Hawaii County Department of Water Supply, records; Maui County Department of Water Supply, records; Kauai County Department of Water, estimates supplied December 14, 1973.

Table 75.—WATER USE: 1950 TO 1970
(In millions of gallons per day, unless otherwise specified.)

Subject	1950	1960	1965	1970
Water withdrawn ¹	1,270	1,500	2,000	2,700
Ground water	610	600	820	920
Fresh	(NA)	580	780	910
Saline	(NA)	21	37	13
Surface water	660	860	1,200	1,700
Fresh	(NA)	600	670	850
Saline	(NA)	260	500	860
Reclaimed sewage	(NA)	—	—	66
Withdrawn for irrigation	1,120	920	1,160	1,280
Conveyance losses	(NA)	100	200	220
Used for hydroelectric power	580	(NA)	360	330
Fresh water consumed	(NA)	410	580	810
Per capita use (gallons per day)	2,500	2,500	2,800	3,500

NA Not available.

¹Excludes water used for hydroelectric power. Irrigation conveyance losses included in 1965 and 1970, excluded in 1960, and not specified in 1950.

Source: U.S. Geological Survey, *Estimated Use of Water in the United States* for 1950 (Circular 115, May 1951), 1960 (Circular 456, 1961), 1965 (Circular 556, 1968), and 1970 (Circular 676, 1972).

✓ **Table 76.—AVERAGE DAILY WATER CONSUMPTION FROM COUNTY WATERWORKS: 1905 TO 1973**
(In millions of gallons)

Year	Total	City of Honolulu ¹	Rest of Oahu ²	Hawaii County ³	Kauai County ⁴	Maui County ⁵
1905	...	10.25	...	...	...	...
1910	...	11.82	...	...	...	...
1915	...	16.25	...	...	...	...
1920	...	22.10	...	...	...	...
1925	...	25.2	...	...	...	...
1930	...	22.1	0.62	...	...	...
1935	...	19.0	0.99	...	...	...
1940	...	23.4	1.53	...	...	...
1945	...	39.4	6.14	...	...	...
1950	...	34.8	4.40	...	...	...
1955	...	37.0	8.52	3.41	...	4.65
1960	69.5	41.9	15.97	3.40	2.78	5.49
1961	70.5	41.4	17.4	3.51	2.60	5.61
1962	72.8	41.7	19.4	3.77	2.49	5.45
1963	75.6	43.0	21.4	3.79	2.51	4.90
1964	81.3	44.3	24.0	4.15	2.72	6.15
1965	82.6	45.5	24.0	4.59	2.97	5.57
1966	89.1	48.4	26.1	5.03	3.15	6.42
1967	...	51.0	28.0	...	3.05	6.22
1968	95.3	51.5	29.1	5.38	3.28	6.06
1969	106.2	56.3	33.5	5.94	3.44	7.06
1970	115.5	59.8	37.0	6.67	4.11	7.94
1971	117.9	60.4	37.7	7.16	4.06	8.55
1972	125.1	62.4	40.7	8.02	4.34	9.63
1973	135.6	67.2	44.4	8.99	4.66	10.45

¹Average daily delivery, 1905-1920; amount supplied, 1925-1955; consumption, 1960 and later years. Data refer to years ended June 30, 1905 and 1910, calendar years 1915 to 1960, the six-month period ended June 30, 1961, and years ended June 30, 1962 and thereafter.

²Water consumption, 1930 to 1945; water sales, 1940 to 1955; consumption, 1960 and later years. Data refer to calendar years 1930 to 1960, the six-month period ended June 30, 1961, and years ended June 30, 1962 and thereafter.

³Total water consumption for all years. Data refer to calendar years through 1966 and years ended June 30 thereafter.

⁴Water sales for all years. Data refer to years ended June 30.

⁵Total consumption for all years. Data refer to calendar years through 1965, the six-month period ended June 30, 1966, and years ended June 30, 1967 and thereafter.

Source: Honolulu Department of Public Works, *Annual Report* for 1927 and 1941-1954 and *2nd Special Report on the Growth of SWS* (1957); Honolulu Board of Water Supply, *Report on the Rural Water Works* (1937 and 1939), *Biennial Report* for 1945-1946 and 1955-1956, *Supplement to the Annual Report* for 1963-1972, and records; Hawaii County Department of Water Supply, records; Kauai County Department of Water, records; Maui County Department of Water Supply, records.

Table 77.—WATER QUALITY DATA FOR OAHU BEACHES: 1950 TO 1972

Beach	Coliform per 100 milliliters (logarithmic average)					
	1950	1960	1969	1970	1971	1972
Ala Moana Park	177.0	11	5	3	7	6
Fort De Russy	19.2	7	13	11	15	17
Kuhio Beach	4.0	6	15	25	43	14
Hanauma Bay	3.9	2	13	16	7	3
Kailua Beach	6.4	6	13	15	14	6
Punaluu Park	6.3	157	7	8	74	19
Haleiwa Park	12.6	81	7	7	11	12
Waianae Park	1.7	3	9	13	32	9
Ewa Beach	2.4	9	6	4	6	13

Source: *Annual Report, Department of Health, State of Hawaii, Statistical Supplement, 1950-1972.*

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 1973

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)
1973	34	(NA)	(NA)

NA Not available.

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, 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	51,000	506,000	119,000	74,000
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 field burning	(N)	4,860	57,200	11,440	1,140
County:					
City and County of Honolulu	50,500	23,800	368,000	86,100	57,800
Hawaii County	3,000	15,000	61,000	14,500	7,400
Kauai County	1,200	6,600	30,400	7,200	3,400
Maui County	3,400	5,600	46,600	10,900	5,400

N Negligible.

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, records (revised May 1973.)

Table 81.—AEROMETRIC SURVEY DATA FOR SPECIFIED LOCATIONS: 1973

Subject	DOH Bldg. ¹	Kalihi Kai	Pearl City	Barbers Point	Waimanalo	Ala Moana	Kahului, Maui	Kihei, Maui	Hilo, Hawaii ²	Lihue, Kauai
Minimum:										
Particulate matter ³	18	26	16	14	10	33	23	13	15	16
Sulfur dioxide ³	< 5	< 5	< 5	< 5	...	< 5	< 5	...	< 5	< 5
Nitrogen dioxide ³	<20	<20	<20	<20	...	<20	<20	...	<20	<20
Carbon monoxide, 1 hr. ⁴	1.2	...	...	...	...	...	...	...	...	...
Carbon monoxide, 8 hrs. ⁴	0.1	...	...	...	...	...	...	...	...	...
Photochemical oxidants ³	11	...	...	...	...	...	...	...	...	...
Maximum:										
Particulate matter ³	120	225	104	129	67	98	329	168	51	173
Sulfur dioxide ³	22	< 5	< 5	< 5	...	< 5	49	...	< 5	8
Nitrogen dioxide ³	95	77	41	33	...	105	59	...	87	49
Carbon monoxide, 1 hr. ⁴	41.2	...	...	...	...	...	...	...	...	...
Carbon monoxide, 8 hrs. ⁴	13.4	...	...	...	...	...	...	...	...	...
Photochemical oxidants ³	59	...	...	...	...	...	...	...	...	...
Annual average:										
Particulate matter ³	34	61	47	50	34	60	90	77	30	39
Sulfur dioxide ³	7	< 5	< 5	< 5	...	< 5	7	...	< 5	< 5
Nitrogen dioxide ³	46	30	22	<20	...	55	23	...	29	<20

¹South Beretania and Punchbowl Streets, Honolulu. Carbon monoxide sampled for only 8 months.

²Sampled for periods ranging from 4 to 11 months.

³Concentration in micrograms per cubic meter.

⁴Concentration in milligrams per cubic meter.

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, records.

Table 82.—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 83.—CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
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, Hawaii	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 84.—TEMPERATURE AND RAINFALL, FOR SPECIFIED LOCATIONS: 1960 TO 1973

Year	Average temperature (°F.): Honolulu Federal Bldg.			Extreme temps. (°F.): Honolulu Fed. Bldg.		Annual rainfall (inches)				
	Annual	February	August	Lowest	Highest	Honolulu Fed. Bldg.	Hilo Airport	Holualoa Beach	Lahaina	Koloa
1960	75.6	71.9	79.2	60	86	16.23	146.80	18.08	6.62	72.05
1961	76.1	73.7	79.3	61	87	18.40	119.70	31.05	24.00	67.49
1962	75.6	71.7	78.2	58	85	15.47	71.45	20.60	14.90	70.99
1963	75.5	72.6	78.9	61	86	45.51	124.75	35.42	22.56	70.95
1964	75.8	73.5	78.3	62	85	19.96	166.44	28.42	14.57	94.83
1965	75.2	69.3	78.6	60	87	43.85	127.29	39.79	23.85	89.31
1966	75.7	70.9	78.8	58	86	25.54	124.01	23.14	13.01	58.67
1967	76.0	73.5	79.6	60	87	37.63	154.00	31.10	28.48	86.23
1968	77.0	73.0	80.9	63	88	36.24	134.14	48.86	25.87	84.00
1969	74.8	71.9	78.7	59	86	26.71	173.23	32.89	10.09	72.42
1970	75.5	71.7	78.9	59	85	18.35	153.98	20.78	11.95	64.45
1971	75.4	73.5	78.5	59	85	28.61	140.69	37.61	15.93	75.33
1972	75.0	71.2	78.8	61	88	26.72	98.85	33.22	20.21	66.72
1973	74.8	70.8	78.1	62	85	18.66	107.97	14.85	10.13	66.78

Source: U.S. Department of Commerce, National Weather Service, Pacific Region, records.

Table 85.—TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1960 TO 1974

Date	City and County streets and highways ¹		Trees in City and County parks
	Length in miles	Trees	
1960: Apr.-June	784.00	19,472	(NA)
1965: June 30	815.54	22,475	(NA)
1970: June 30	933.58	46,290	63,500
1971: June 30	958.13	54,146	64,500
1972: June 30	974.30	61,023	65,000
1973: June 30	987.00	70,497	65,500
1974: June 30	999.80	82,635	65,800

NA Not available.

¹Excludes Federal, State, and private thoroughfares.

Source: Harland Bartholomew and Associates, *1960 Survey of Oahu Street Trees, City and Co. of Honolulu, State of Hawaii* (Department of Parks and Recreation, 1960), p. 6; Honolulu Department of Recreation, Conservation and Beautification Division, records.

Table 86.—HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA: 1945 TO 1973
(Counts made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali.)

Years	Annual average		Species	Birds, 1973
	Species	Individual birds		
1945-49	30	3,190	Common Mynah	2,295
1950-54	26	3,561	Red-footed Booby	1,475
1955-59	35	5,383	Barred Dove	1,438
1960-64	36	5,936	Cattle Egret	868
1965-69	50	14,256	House Sparrow	778
			Spotted Dove	578
1970	51	10,454	Japanese White-eye	419
1971	50	13,218	Pacific Golden Plover	407
1972	52	14,559	Great Frigate bird	297
1973	48	9,574	House Finch	184

Source: Hawaii Audubon Society, *The Elepaio*, for Feb. 1949, Feb. 1958, Feb. 1962, Feb. 1972, Feb. 1973, and Feb. 1974.

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 147,500 acres as "urban," 1,986,400 as "conservation," 1,968,700 as "agricultural," and 8,900 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 355,800 acres to 396,500. 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, Department of Transportation, and Land Use Commission, the Land Study Bureau of the University of Hawaii, and the Congressional Committee on Government Operations provided the data for this section. Greater detail appears in DPED Statistical Report 98, *Land Use and Ownership Trends in Hawaii*, issued December 28, 1973. Statistics for the nation as a whole are available in Sections 7 and 23 of the *Statistical Abstract of the United States: 1973*.

Table 87.—LAND USE, FOR THE STATE AND OAHU: 1930, 1960, AND 1968
(In acres)

Year and land use	State total ¹	Oahu ²	Year and land use	State total ¹	Oahu ²
1930, all uses	4,118,400	386,560	1968, all uses	4,050,176	388,928
Sugar cane	252,128	43,366	Sugar cane	262,377	40,852
Pineapple	78,750	35,500	Pineapple	69,276	18,987
Coffee	5,498	—	Nonplantation agric.	1,197,688	51,741
Other cult. land ³	15,353	4,773	Vegetable	6,708	2,102
Pasture	2,076,347	106,889	Orchard	24,294	1,670
Forest reserve ³	1,021,814	119,483	Grazing	1,150,534	38,608
Roads and urban	42,144	17,813	Other agric. ³	16,152	9,361
Military	24,556	23,924	Forest	289,039	30,033
Waste land and unaccounted for	601,810	34,812	Forest reserve	1,190,954	118,766
1960, all uses	4,044,200	386,600	Recreation	17,248	5,184
Sugar cane	287,400	40,100	Game management	87,585	—
Pineapple	96,500	35,900	National park	229,423	—
Grazing	2,100,300	55,600	Military	38,048	35,055
Timber trees	61,400	—	Urban	155,705	56,850
Other agriculture ³	40,700	8,100	Undev. subdiv.	76,814	2,385
Urban	62,600	31,100	Military	17,658	17,508
Military	55,500	51,700	Civilian	61,233	36,957
Miscell. public uses	229,500	7,400	Pali and barren	503,308	23,799
Forest reserve	928,000	112,400	Quarry ³	1,462	1,077
Game management	65,600	—	Water	8,063	6,584
Unused; steep slopes	114,900	43,100			
Lakes	1,800	1,200			

¹Data for 1960 and 1968 exclude Kahoolawe (28,800 acres in 1930, all in pasture or waste land) and Niihau (46,080 acres in 1930, almost all in pasture and waste land). For data by island, see source.

²For 1956, 1964 and 1969, see the following table.

³Shown in greater detail in source.

Source: John Wesley Coulter, *Land Utilization in the Hawaiian Islands* (University of Hawaii, Research Publications, No. 8, c. 1933), pp. 50-52; University of Hawaii, Land Study Bureau, *Land Use on the Six Major Islands of Hawaii, 1960* (L.S.B. Report No. 3, November 1960), p. 3; and A. Y. Ching and T. Sahara, *Land Use and Productivity Rating, State of Hawaii, 1968* (University of Hawaii, Land Study Bureau, L.S.B. Circular No. 15, July 1969), pp. 18-19; Hawaii State Department of Planning and Economic Development, *Land Use and Ownership Trends in Hawaii* (Statistical Report 98, December 28, 1973), p. 15.

Table 88.—LAND USE, FOR OAHU: 1956, 1964 AND 1969
(In acres. For 1930, 1960 and 1968, see table 87.)

Land use ¹	1956	Land use	1964	1969
All uses ²	372,028	All uses ²	381,310	381,935
Cities and villages	35,891	Residential ³	22,157	22,676
Federal, incl. military	54,571	Industrial	6,352	6,305
Public, semi-public	6,496	Commercial	1,450	1,645
Sugar cane	35,125	Hotel	73	98
Pineapple	23,833	Public buildings	4,741	5,226
Grazing	42,879	Public open spaces	7,861	7,795
Other agriculture	13,243	Highways and streets	7,405	8,495
Forest reserve	116,999	Agriculture	94,474	88,740
Unimproved	29,919	Military	48,633	47,650
Waste land	14,328	Unused open space ³	188,164	193,304

¹For greater detail, see first source, Appendix B, p. 99.

²Totals differ somewhat from figures in other tables.

³In 1969 (but not 1964), large parcels containing both residential and vacant areas were divided and reported separately.

Source: Harland Bartholomew and Associates, *An Inventory of Available Information on Land Use in Hawaii*, Vol. 1, *Evaluation and Recommendations* (Hawaii Economic Planning and Coordination Authority, January 1957), p. 64; State of Hawaii and City and County of Honolulu, *Oahu Transportation Study, 1967*, Vol. 1, *Economic, Population, and Land Use* (c. 1967), p. IV-A-1; Hawaii State Department of Transportation, Advance Transportation Planning Office, 1969 land use files; Hawaii State Department of Planning and Economic Development, *Land Use and Ownership Trends in Hawaii* (Statistical Report 98, December 28, 1973), p. 16.

Table 89.—LAND USE FOR THE NEIGHBOR ISLANDS: 1971-1972
(In acres)

Land use	All Neighbor Islands	Hawaii County (Dec. 1971)	Maui County (Spring 1972)			Kauai County (May 1972)	
			Maui and Kahoolawe	Lanai	Molokai	Kauai	Niihau
All uses ¹	3,653,759	2,501,132	490,234	89,071	168,256	357,978	47,088
Residential	40,814	14,326	17,292	256	2,963	5,968	9
Manufacturing	2,246	538	774	—	754	177	3
Mfg. services and warehousing ²	7,799	1,147	657	54	54	5,880	7
Commercial ³	784	387	233	13	38	113	—
Services ⁴	64,559	29,962	30,986	80	810	2,336	385
Social and cultural ⁵	2,711	935	1,302	15	93	361	5
Recreation ⁶	89,003	64,878	18,778	89	34	5,224	—
Agriculture	1,144,195	683,045	197,900	15,020	37,199	167,650	43,381
Transportation ⁷	14,570	12,332	776	165	24	1,273	—
Unused open spaces ⁸	2,287,079	1,693,582	221,534	73,380	126,289	168,996	3,298

¹Data differ somewhat from corresponding figures in table 68. Totals independently rounded.

²Includes construction services and public utilities.

³Retail and wholesale trade.

⁴Includes commercial amusement and recreation, hotels, military installations, government offices, parking, cemeteries, personal services, business and repair services, professional services, and finance, insurance, and real estate.

⁵Educational, cultural, and religious.

⁶Excludes commercial amusement and recreation services.

⁷Includes airports, docks, and land transportation facilities.

⁸Includes vacant land, forest reserve, lakes, steep land, beaches, and streets.

Source: County of Hawaii, Planning Department, *Land Use Report*, Vol. II (December 1971), p. 86, and Hawaii Urban Planning Information Center, special tabulations of data from Kauai and Maui County land use surveys, November 1973, as cited in the Hawaii State Department of Planning and Economic Development, *Land Use and Ownership Trends in Hawaii* (Statistical Report 98, December 28, 1973), p. 17.

Table 90.—LAND USE, FOR THE CITY OF HONOLULU: 1939 TO 1969

Year and use category	Acres	Year and use category	Acres
1939, all uses	52,600	1960, zone area ¹	28,490
Urban	15,600	Single-family	6,544
Forest	15,600	Hotel and apartment	880
Pastoral	10,000	Commercial	770
Forest-pastoral	6,000	Heavy industrial	784
Agriculture	2,900	Light industrial	81
Waste	2,500	Farming	1,600
1953, all uses	52,990	Public and semi-public	3,028
Single-family residence	6,140	Public parks and playgrounds	1,895
Hotel and apartment	600	Public schools	772
Business	440	Military reservations	6,460
Semi-industrial	60	Streets and alleys	2,767
General industrial	660	Vacant	2,339
Noxious industrial	80	Golf course	570
Public and semi-public	3,200	1969, all uses	54,738
Public parks and playgrounds	1,800	Residential	8,309
Public schools	490	Industrial	2,623
Military reservations	6,460	Commercial	1,025
Farming	1,760	Hotel	91
Streets and alleys	2,330	Public buildings	2,373
Vacant: usable (water avail.)	4,470	Public open spaces	2,660
Vacant: unusable (steep hillsides)	6,740	Highways and streets	3,718
Forest reserve	17,760	Agriculture	1,005
Usable area ¹	28,490	Military	5,395
		Unused open space	27,540

¹“Zone area” in 1960 was apparently the same as “usable area” in 1953. The latter consisted of all uses except vacant steep hillsides and forest reserve.

Source: Territorial Planning Board, *Supplement to the First Progress Report. Existing Urban Resources and Facilities of the Territory of Hawaii* (1939), p. 344; Honolulu City Planning Commission, *Land Use and Zoning, City of Honolulu, 1953* (undated), p. 14; Honolulu Planning Department, *General Plan for Urban and Urbanizing Areas* (1960), p. 21; Hawaii State Department of Transportation, Advance Transportation Planning Office, records; Hawaii State Department of Planning and Economic Development, Statistical Report 98 (Dec. 28, 1973), p. 18.

Table 91.—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 92.—ZONED LAND USE: OCTOBER 1, 1973
(In square miles)

County and district	All uses ¹	Residential	Hotel-apartment	Commercial	Industrial	Agricultural	Conservation	Unimproved residential
State total	6,359.442	125.567	11.370	6.857	21.900	3,049.029	3,089.438	55.281
City & Co. of Honolulu	579.249	94.447	4.084	4.100	12.293	226.016	222.060	16.249
Honolulu (ewa side)	31.304	10.815	0.529	0.404	7.276	—	11.750	0.530
Honolulu (central)	16.308	4.217	1.799	1.819	0.574	—	7.610	0.289
Honolulu (waikiki)	31.351	9.423	0.108	0.290	—	0.342	17.441	3.747
Koolaupoko	63.862	19.174	0.216	0.633	0.333	11.702	28.328	3.476
Koolauloa	67.371	2.576	0.280	0.062	—	29.904	33.983	0.566
Waialua	110.166	1.158	0.028	0.048	0.026	62.215	46.145	0.546
Wahiawa	39.066	17.158	0.077	0.141	0.059	7.641	13.918	0.072
Waianae	58.385	2.988	0.105	0.133	0.448	35.710	16.569	2.432
Ewa	161.436	26.938	0.942	0.570	3.577	78.502	46.316	4.591
Maui	1,171.667	8.650	3.454	0.703	1.968	637.669	503.689	15.534
Hawaii	3,985.203	17.689	2.688	1.589	6.231	1,876.181	2,063.310	17.515
Kauai	623.323	4.781	1.144	0.465	1.408	309.163	300.379	5.983

¹For gross area based on other sources, see the Hawaii State Department of Planning and Economic Development, *Hawai'i, the Natural Environment* (1974), pp. 9 and 11.

Source: Hawaii State Department of Taxation, Systems and Procedures Office, records.

✓ ✓ **Table 93.—ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1974**
 (Total acreage, including inland water, as classified by the Hawaii State Land Use Commission
 under the provisions of Chapter 205, Hawaii Revised States.)

Year and island	Total area ¹	Classification by State Land Use Commission			
		Urban ²	Conservation ³	Agricultural ⁴	Rural ⁵
STATE TOTALS					
1964: August	4,111,500.0	117,800.0	1,862,600.0	2,124,400.0	6,700.0
1969: August	4,111,500.0	140,163.3	2,009,086.7	1,955,875.0	6,375.0
1974: March	4,111,500.0	147,472.0	1,986,428.9	1,968,727.2	8,871.9
ISLANDS: 1974					
Hawaii	2,573,400.0	32,249.6	1,322,528.6	1,218,009.8	612.0
Maui	465,800.0	14,725.5	193,336.7	254,225.7	3,512.1
Kaho●lawe	28,800.0	—	28,800.0	—	—
Lanai	90,500.0	2,134.0	35,110.0	50,536.0	2,720.0
Molokai	165,800.0	5,154.0	49,751.0	110,004.1	890.9
Oahu	385,300.0	84,093.4	156,920.9	144,285.7	—
Kauai	353,900.0	9,115.5	197,681.7	145,965.9	1,136.9
Niihau	45,700.0	—	—	45,700.0	—
Kaula and Lehua	400.0	—	400.0	—	—
Northwestern Haw'n Isl.	1,900.0	—	1,900.0	—	—

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 94.—LAND OWNERSHIP: 1938 TO 1968
(In acres)

Year	Total area	Federal government ¹	State government ²	Major private owners ³	Other owners ⁴
1938	4,118,400	199,709	1,588,430	2,330,261	
1942	4,118,423	214,933	1,505,526	2,397,964	
1948	4,118,827	226,743	1,529,476	2,362,608	
1956	4,117,227	317,012	1,426,493	1,906,236	467,486
1964 ⁵	4,105,600	401,482	1,590,532	1,923,183	224,193
1968	4,128,263	355,769	1,584,715	1,917,560	270,219

¹Includes fee simple and ceded land.

²"Public lands" for 1938. Data for all years include State land managed by the County governments and various State agencies, and Hawaiian Homes Commission lands.

³Total for 1956 refers to land owned by private owners with 5,000 acres or more in fee simple; data for 1964 and 1968 refer to land owned by private owners with 1,000 acres or more in fee simple.

⁴Land owned by private owners with less than 5,000 acres (in 1956) or 1,000 acres (in 1964 and 1968) in fee simple. Also includes County land acquired by purchase or gift in the name of the Counties.

⁵Land claimed by both Federal and State governments is included in both categories; data thus fail to add to the indicated total.

Source: Territorial Planning Board, *First Progress Report. An Historic Inventory of the Physical, Social and Economic and Industrial Resources of the Territory of Hawaii*, 2nd ed. (August 1939), p. 49; *Report of the Commissioner of Public Lands for 1942* (p. 11) and 1948 (pp. 4-10); Economic Planning and Coordination Authority, *Major Landholdings in Hawaii*, EPCA Staff Report No. 14 (1957), p. 6; Robert H. Horwitz and Judith B. Finn, *Public Land Policy in Hawaii: Major Landowners*, University of Hawaii, Legislative Reference Bureau, Report No. 3, 1967, p. 99; Hawaii State Department of Land and Natural Resources, *Report to the Governor, 1971-1972*, p. 50; Hawaii State Department of Planning and Economic Development, *Land Use and Ownership Trends in Hawaii* (Statistical Report 98, December 28, 1973), p. 25.

Table 95.—LAND OWNERSHIP OR TENURE, BY ISLAND: JUNE 30, 1968

Island	Ownership or tenure (in acres)				
	Total 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 96.—FEDERALLY OWNED PROPERTY IN HAWAII: 1960 TO 1972

Subject	June 30, 1960	June 30, 1970	June 30, 1972			
			All agencies	Defense ¹	Civil agencies ¹	
					National Park Service	Others
Number of installations	167	160	159	3	3	153
Land, total (acres)	234,074.1	396,900.7	396,493.8	174,945.7	218,318.0	3,230.1
Urban	23,530.2	57,202.3	10,511.0	(NA)	(NA)	(NA)
Rural	210,543.9	339,698.4	385,982.8	(NA)	(NA)	(NA)
Buildings:						
Number	11,506	11,479	11,305	10,661	171	473
Floor area (1,000 sq. ft.)	(NA)	(NA)	59,781	58,120	234	1,427
Cost, total (\$1,000)	877,162	1,115,240	1,178,743	1,118,546	8,690	51,507
Land	21,910	40,083	46,078	36,543	1,453	8,082
Buildings	407,478	545,140	584,752	562,419	1,457	20,876
Structures and facilities	447,774	530,017	547,913	519,584	5,780	22,549

NA Not available.

¹Corps of Engineers included with civil agencies.

Source: Committee on Governmental Operations, U.S. House of Representatives, *Federal Real and Personal Property Inventory Report* (biennial).

Table 97.—ESTIMATED PRESENT-DAY VALUE OF FEDERAL REAL PROPERTY DONATED OR ACQUIRED AT NO COST TO THE FEDERAL GOVERNMENT, FOR HAWAII: 1972

Agency	Number of installations	Acreage	Est. present-day land value (\$1,000)
Total	51	3,811	3,795
Defense	12		
Army	(NA)	41	614
Navy	(NA)	9	45
Air Force	(NA)	3,040	1,482
Corps of Engineers	(NA)	5	583
National Park Service	1	181	217
Coast Guard	38	595	854

Source follows next table.

Table 98.—REAL PROPERTY LEASED TO THE FEDERAL GOVERNMENT IN HAWAII: 1972

Subject	Amount
Number of leases	253
Land in acres, total	48,601.8
Urban	35.9
Rural	48,565.9
Number of locations	175
Floor area in square feet	521,196
Annual rental	\$2,571,257

NA Not available.

Source of tables 97 and 98: Committee on Government Operations, U.S. House of Representatives, Ninety-third Congress, First Session, *Federal Real and Personal Property Inventory Report as of June 30, 1972* (GPO, August 1973).

—LAND UNDER THE JURISDICTION OF THE DEPARTMENT OF HAWAIIAN HOME LANDS: 1972

(The Hawaii State Department of Hawaiian Home Lands administers the provisions of the federal Hawaiian Homes Commission Act, 1920, as amended, which provides for the leasing of designated lands under specified terms to qualified descendants "of not less than one-half part of the blood of the races inhabiting the Hawaiian Islands previous to 1778.")

Land use	Parcels ¹		Acres	
	State total	Oahu	State total	Oahu
All uses ²	2,812	1,283	189,878.33	5,069.68
Homesteader use	2,680	1,273	40,780.26	362.38
Houselots	2,242	1,273	1,149.35	358.03
Farm lots	365	—	9,869.33	4.11
Pasture lots	69	—	16,809.74	—
Community pasture	4	—	12,951.60	—
Commercial or industrial	—	—	0.24	0.24
Leases and licenses	132	10	142,843.80	3,821.82
Farming or ranching	35	10	108,488.60	2,026.70
Commercial or industrial	97	—	235.73	51.23
Public service facilities	—	—	2,827.21	8.41
Parks	—	—	81.71	0.87
Water, forest reserve, or conservation	—	—	30,035.19	1,646.32
Lot remnant	—	—	17.54	1.47
U.S. Government	—	—	366.44	—
Roads and rights-of-way	—	—	791.38	86.82
Not in use or unusable	—	—	6,254.27	885.48

¹By principal use.

²The State totals include 1,283 parcels and 5,069.68 acres on Oahu, 367 parcels and 26,794.75 acres on Molokai, 95 parcels and 29,075.85 acres on Maui, 841 parcels and 110,970.71 acres on Hawaii, and 226 parcels and 17,967.34 acres on Kauai.

Source: Arthur Y. Akinaka, Ltd., and James M. Dunn, *A Land Inventory and Land Use Study for the Department of Hawaiian Home Lands* (December 18, 1972), tables A, C, and 2.

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.

Gross State product in 1972 exceeded \$4,700,000,000, or about twice the 1964 total. The major sources of income to Hawaii in 1972 were defense expenditures (\$744 million), pineapple production (\$145 million), sugar production (\$185 million), and visitor expenditures (\$755 million). Personal income in 1973 was \$4.4 billion, compared with \$1.8 billion only ten years earlier, and per capita personal income was \$5,309, about twice the 1963 level. The median annual income of families in 1969 ranged from \$9,643 in Maui County to \$12,035 on Oahu. Top wealthholders in Hawaii—those with gross assets of \$60,000 or more—numbered 11,323 in 1962 and 36,470 in 1969. Total assets of this group in the latter year amounted to \$6.3 billion, 38 percent of which was in real estate. 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: 1973*, Section 11.

✓ **Table 100.—DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1875 TO 1973**
(In millions of dollars)

Year	Value of sales		Defense expenditures ³	Visitor expenditures ⁴
	Raw sugar and molasses ¹	Fresh and processed pineapple ²		
1875	1.2	...	...	...
1880	4.4	...	...	...
1885	8.4	...	...	...
1890	12.2	...	...	...
1895	8.0	...	...	...
1899	21.9	...	...	...
1905	36.5	...	...	...
1910	43.4	...	...	...
1915	60.0	6.0	...	...
1920	146.1	29.2	...	...
1925	67.2	33.6	...	7
1930	62.4	37.7	...	9
1935	63.6	33.9	...	8
1940	55.5	45.7	40.3	12
1945	65.3	26.9	607.8	...
1950	117.4	102.0	146.4	24
1955	141.5	115.9	262.4	55
1960	118.4	119.4	351.4	131
1961	136.5	117.5	379.9	137
1962	149.3	115.0	348.0	154
1963	181.7	123.7	347.5	186
1964	154.6	126.9	392.6	205
1965	165.7	126.7	430.2	225
1966	179.5	127.7	488.4	280
1967	180.4	133.3	561.4	380
1968	189.1	127.5	574.6	440
1969	179.0	125.4	625.9	525
1970	187.7	138.6	639.4	550
1971	202.9	141.4	708.8	645
1972	184.6	145.4	744.2	755
1973	222.2	...	840.9	890

¹Calendar years, 1875-1899 and 1935 forward; years ended September 30, 1905-1930. Excludes molasses, 1905-1935, and molasses sold locally, 1940 and 1945. Data for 1875-1899 refer to value of exports.

²Year ended June 30, 1915; calendar years 1920 forward. Data for 1915-1945 refer to value of shipments of processed pineapple to the Mainland United States. Not available before 1915.

³Calendar years. Data for 1940, 1945 and 1950 limited to civilian defense payrolls, military payrolls, and transfer payments. Not available for 1935 and earlier years.

⁴Calendar years. Data limited to direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews. Not available for 1920 and earlier years.

Source: *Hawaiian Almanac and Annual for 1904*, p. 31; U.S. Bureau of Foreign and Domestic Commerce, *Monthly Summary of Foreign Commerce* for 1915 and 1920; *Statistical Abstract of the United States* for 1928-1949; U.S. Department of Commerce, *Income of Hawaii* (1953), pp. 19 and 23; Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture, 1972*, and records; First Hawaiian Bank, Research and Planning Division, records; Hawaii Visitors Bureau, *1973 Annual Research Report*, p. 1.

✓ **Table 101.—GROSS STATE PRODUCT: 1901 TO 1972**
(Estimates for 1969 and later years are provisional
and subject to revision.)

Year	Millions of dollars
1901	38.1
1939	270.0
1952	1,050.0
1958	1,403.2
1959	1,584.9
1960	1,814.4
1961	1,903.8
1962	1,990.1
1963	2,075.4
1964	2,274.0
1965	2,423.9
1966	2,691.9
1967	2,922.1
1968	3,269.6
1969	3,655.9
1970	4,093.5
1971	4,331.1
1972	4,731.8

Source: Harry T. Oshima and Mitsuo Ono, *Hawaii's Income and Expenditures, 1958, 1959, and 1960* (University of Hawaii, Economic Research Center, January 1965), Vol. I, p. 1-32; U.S. Department of Commerce, Office of Business Economics, *Income of Hawaii* (1953), pp. 8, 9 and 13; Yung C. Shang, William H. Albrecht, and Glenn Ifuku, *Hawaii's Income and Expenditure Accounts, 1958-1968* (University of Hawaii, Economic Research Center, July 1970), p. 9; estimates for 1969 and later years by the Research and Economic Analysis Division, Hawaii State Department of Planning and Economic Development.

✓ **Table 102.—PERSONAL INCOME: 1939 TO 1973**

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	2,219	3,183
1943	778	1,186	1955	972	1,838	1967	2,414	3,410
1944	1,028	1,239	1956	1,041	1,899	1968	2,700	3,756
1945	1,009	1,328	1957	1,114	1,944	1969	3,045	4,098
1946	719	1,312	1958	1,178	1,981	1970	3,476	4,562
1947	721	1,384	1959	1,315	2,156	1971	3,772	4,836
1948	723	1,407	1960	1,476	2,366	1972	4,132	5,153
1949	685	1,353	1961	1,595	2,481	1973	4,582	5,541
1950	692	1,386	1962	1,676	2,567			

Source: U.S. Department of Commerce, *Personal Income by States Since 1929* (1956), pp. 140-143, and *Survey of Current Business*, August 1971 (pp. 30-31), August 1972 (pp. 24-25), and August 1973 (pp. 42-43); U.S. Department of Commerce, Bureau of Economic Analysis, "State Per Capita and Total Personal Income, 1973" (release, Sept. 11, 1974) and records.

Table 103.—PERSONAL INCOME BY MAJOR SOURCES: 1970 TO 1972
(In millions of dollars)

Item	1970	1971	1972
Personal income	3,476	3,705	4,020
Wage and salary disbursements	2,594	2,726	2,964
Farms	76	70	74
Mining	(¹)	(¹)	(¹)
Coal mining	—	—	—
Crude petroleum and natural gas	—	—	—
Mining and quarrying except fuel	(¹)	(¹)	(¹)
Contract construction	281	258	280
Manufacturing	182	193	201
Durables	43	42	45
Nondurables	139	151	156
Wholesale and retail trade	384	408	450
Finance, insurance and real estate	138	148	160
Banking	29	32	34
Other finance, insurance and real estate	109	116	126
Transportation, communications and public utilities	217	231	249
Railroad transportation	(¹)	(¹)	(¹)
Highway freight and warehousing	22	22	24
Other transportation	102	107	119
Communications and public utilities	92	101	106
Services	345	380	426
Hotels and other lodging places	76	88	105
Personal services and private households	35	36	36
Business and repair services	63	65	70
Amusement and recreation	18	20	24
Professional, social and related services	153	172	191
Government	964	1,031	1,117
Federal, civilian	313	336	345
Federal, military	310	319	376
State and local	341	375	395
Other industries	6	6	7
Other labor income	99	116	126
Proprietors' income	201	224	227
Farm	21	33	32
Nonfarm	180	191	196
Property income	473	494	513
Transfer payments	236	296	357
Less: Personal contributions for social insurance	127	151	168

¹Less than \$500,000.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, *Survey of Current Business*, August 1973, p. 48.

Table 104.—PERSONAL INCOME, BY COUNTY: 1950 TO 1972

Subject	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
Total personal income (\$1,000,000):				
1950	532	69	34	54
1959	1,080	102	49	83
1965	1,699	164	68	106
1969	2,621	190	98	149
1972	3,449	265	124	199
Per capita income (dollars):				
1950	1,534	1,031	1,142	1,131
1972	5,359	3,685	3,834	3,839
Sources, 1972 (\$1,000,000):				
Farm earnings	47.1	20.6	16.0	23.4
Government labor earnings	1,069.4	32.5	21.0	31.9
Federal civilian	362.0	5.3	3.2	1.9
Military	378.3	3.8	2.1	2.3
State and local	329.1	23.4	15.7	27.7
Private nonfarm labor and proprietary earnings	1,764.1	151.2	60.0	98.4
Manufacturing	164.1	29.1	11.9	18.5
Contract construction	278.0	24.6	4.9	15.2
Transportation, communications, public utilities	247.5	16.1	9.0	11.8
Wholesale and retail trade	436.2	36.8	12.2	21.1
Finance, insurance, and real estate	170.3	6.7	2.3	4.5
Services	460.5	34.6	18.8	25.4
Mining and other	7.5	3.3	0.9	1.9
Total earnings by place of work	2,880.5	204.3	97.0	153.7
Less personal contributions	144.8	10.6	4.9	8.2
Plus residence adjustment	6.3	-6.4	0.2	-0.1
Net earnings by place of residence	2,742.0	187.3	92.3	145.4
Plus property income	425.3	43.7	16.6	27.1
Plus transfer payments	281.8	33.8	15.3	26.3
Total personal income by place of residence	3,449.2	264.9	124.2	198.9

Source: U.S. Bureau of Economic Analysis, *Survey of Current Business*, May 1974, Part II, pp. 74-75.

Table 105.—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 106.—ANNUAL INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1972
(Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 5,233 families and 1,278 unrelated individuals.)

Annual income before taxes	Families and unrelated indiv.	Families			Unrelated individuals
		Total	Military	Civilian	
All levels	233,880	187,737	28,381	159,356	46,143
Less than \$5,000	34,021	17,239	1,904	15,335	16,782
\$5,000 to \$9,999	66,443	53,224	15,606	37,618	13,219
\$10,000 to \$14,999	48,380	42,956	5,535	37,421	5,424
\$15,000 to \$24,999	44,563	42,205	3,540	38,665	2,358
\$25,000 or more	14,618	13,646	307	13,339	972
Income not reported	25,853	18,466	1,488	16,978	7,387
Median income (dollars)	10,367	11,650	8,698	12,437	5,982

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

Table 107.—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 108.—TOP WEALTHHOLDERS: 1962 AND 1969
 (Top wealthholders are defined as persons with a gross estate of \$60,000 or more. All figures are estimates based on estate tax returns. Money amounts are in millions of dollars.)

Subject	1962	1969
Number of top wealthholders	11,323	36,470
Total assets	1,908	6,327
Debts and mortgages ¹	9,909	29,301
Number		
Amount	231	1,090
Net worth	1,677	5,236
Real estate	10,104	30,133
Number		
Amount	802	2,440
Bonds	4,611	13,477
Number		
Amount	66	120
Corporate stock	9,164	25,452
Number		
Amount	697	1,204
Cash	10,994	31,062
Number		
Amount	137	695
Notes and mortgages	2,190	11,572
Number		
Amount	30	331
Life insurance equity	8,296	24,123
Number		
Amount	36	86
Noncorporate business assets .....	...	5,599
Number		
Amount .....	...	57
Other assets	139	...
Number		
Amount		

¹"Debts" in 1962.

Source: U.S. Internal Revenue Service, *Statistics of Income—1962, Personal Wealth* (1967), pp. 55-56, and *Statistics of Income—1969, Personal Wealth* (1973), pp. 57-58.

Table 109.—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.

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 1973, the Honolulu all-items consumer price index stood at 132.8, with the 1967 level equal to 100. The index had increased 6.8 percent in the preceding 12 months, 9.7 percent since December 1971, and 43.1 percent since December 1963. Prices rose most rapidly during 1973 for food (up 15.2 percent) and least for gas and electricity (up 1.5 percent). A "moderate" or "intermediate" budget for a four-person family living on Oahu was estimated at \$14,937 as of the autumn of 1973. This family budget was 18 percent higher than the corresponding urban United States average, and was second only to Anchorage among major American metropolitan areas. Hawaii–Mainland differentials were greatest for rents and personal income taxes and least for clothing, medical care, and food away from home.

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 1973. 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, and annually since 1969.

In addition to these data, the Bureau of Labor Statistics publishes monthly and annual data on average prices for a wide variety of foods, and periodic data on a number of non-food items (most recently in *Average Retail Prices of Selected Commodities and Services, Fall 1971*, issued in 1973.) Still another useful source is *Prices Paid by Farmers: Family Living and Farm Production, 1970-71*, issued by the Hawaii State Department of Agriculture in January 1973.

Data on prices and living costs are summarized in *Statistical Abstract of the United States: 1973*, Section 12.

Table 110.—CONSUMER PRICE INDEX, FOR HONOLULU: 1940 TO 1974
 (All items combined. 1967 average = 100.)

Year	Annual average	Year	Annual average	Year	Annual average	Year	Annual average
1940	40.5	1945	54.4	1950	66.9	1955	75.4
1941	42.9	1946	58.3	1951	71.0	1956	76.4
1942	48.5	1947	67.3	1952	73.1	1957	79.0
1943	52.2	1948	70.9	1953	73.7	1958	82.8
1944	53.2	1949	69.7	1954	74.4	1959	84.2

Year	Annual average	March	June	September	December
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	128.3	126.0	127.5	129.6	132.8
1974	141.8	137.7	141.4 141.2	145.5 145.3	148.2

Source: Computed from data in the Hawaii Employers Council, *Cost of Living in Honolulu, 1940-1948* (April 1948), pp. 5 and 7, and the Hawaii Territorial Department of Labor and Industrial Relations, unpublished revised indexes for 1943-1963; U.S. Bureau of Labor Statistics, *The Consumer Price Index* (monthly) and records.

111.—CONSUMER PRICE INDEX, FOR HONOLULU: 1943 TO 1973
(1967 average = 100)

Group	March 1943	Dec. 1953	Dec. 1963	Dec. 1972	Dec. 1973	Percent change, 1972 to 1973
All items	52.0	73.9	92.8	124.4	132.8	6.8
Food .....	...	...	92.3	126.8	146.1	15.2
Food at home	49.6	74.4	92.5	124.4	145.3	16.8
Cereals and bakery products .....	...	...	91.5	109.1	143.5	31.5
Meats, poultry, and fish .....	...	...	90.1	128.1	157.7	23.1
Dairy products .....	...	...	92.9	120.7	137.0	13.5
Fruits and vegetables .....	...	...	93.7	139.5	138.7	-0.6
Other foods at home .....	...	...	96.8	119.2	135.7	13.8
Food away from home .....	...	...	91.5	133.5	148.2	11.0
Housing .....	...	...	89.9	126.0	131.4	4.3
Shelter ¹ .....	...	...	86.2	132.0	138.0	4.5
Rent .....	...	...	93.5	129.3	136.6	5.6
Homeownership ² .....	...	...	81.8	133.8	139.0	3.9
Fuel and utilities ³	71.3	89.9	99.7	110.8	113.5	2.4
Gas and electricity .....	...	...	100.6	106.2	108.9	2.5
Household furnishings and operation .....	...	...	96.3	114.7	119.9	4.5
Apparel and upkeep ⁴	71.2	84.3	94.5	120.7	127.5	5.6
Men's and boys' .....	...	...	98.6	114.5	121.2	5.9
Women's and girls' .....	...	...	90.8	123.8	128.9	4.1
Footwear .....	...	...	93.6	115.5	124.5	7.8
Transportation	43.1	74.1	99.3	123.1	125.8	2.2
Private .....	...	...	97.6	125.0	127.3	1.8
Public .....	...	...	108.3	113.0	117.4	3.9
Health and recreation .....	...	...	92.3	122.2	126.3	3.4
Medical care	43.0	68.3	87.4	129.9	137.1	5.5
Personal care	46.3	61.9	96.1	121.1	124.5	2.8
Reading and recreation	46.6	68.8	96.6	121.6	124.3	2.2
Other goods and services ⁵ .....	...	...	89.9	114.8	117.9	2.7

¹Also includes hotel and motel rates not shown separately.

²Includes home purchase, mortgage interest, taxes, insurance and maintenance and repairs.

³Also includes telephone, water, and sewage not shown separately.

⁴Also includes infants' wear, sewing materials, jewelry, and apparel upkeep services not shown separately.

⁵Includes tobacco, alcoholic beverages, and funeral, legal, and bank service charges.

Source: Hawaii State Department of Labor and Industrial Relations, records; U.S. Bureau of Labor Statistics, *The Consumer Price Index* (monthly) and records.

Table 112.—AVERAGE RETAIL PRICES OF FOOD, FOR HONOLULU: 1890 TO 1973
(Annual averages unless otherwise specified. Prices in cents.)

Food and unit	1890	1900	1910 ¹	1930 ²	1943	1950	1960	1970	1973
Cereals and bakery products:									
Flour lb. ³	3.0	2.5	3.5	5.7	6.6	11.8	15.2	15.0	18.1
Rice lb. ⁴	5.2	7.0	5.0	6.1	9.0	9.8	12.8	14.5	17.7
Bread, white lb.	...	...	...	10.6	10.0	16.3	19.7	29.7	33.8
Meat, poultry, fish:									
Steak, round lb.	10.0	14.9	15.0	32.7	56.2	86.7	95.5	128.5	171.0
Rib roast lb.	12.5	16.5	20.0	32.8	46.4	74.2	94.6	143.6	171.7
Chuck roast lb.	10.0	14.8	15.0	25.0	40.1	66.4	70.4	79.8	110.4
Hamburger lb.	...	...	...	...	31.7	59.6	76.6	86.5	108.5
Beef liver lb.	...	...	...	...	47.9	77.5	82.8	86.9	101.2
Veal cutlets lb.	12.5	20.0	25.0	...	69.8	94.3	98.1	...	208.5
Pork chops lb.	25.0	20.0	25.0	43.4	49.0	73.3	88.5	152.9	173.7
Ham, whole lb.	20.0	17.4	23.0	...	50.6	71.3	72.8	85.4	105.8
Bacon lb.	20.0	18.5	27.0	54.4	57.6	75.7	85.8	108.9	135.9
Chicken ⁵ lb.	...	...	...	51.9	70.0	79.8	85.9	68.4	90.4
Fish, fresh ⁶ lb.	...	...	...	...	40.0	66.4	74.5	89.4	138.8
Dairy products:									
Milk, fresh, delivered qt. ⁷	...	12.0	...	20.3	20.0	28.0	32.1	37.4	44.4
Milk, evaporated 14½ oz. ⁸	...	...	...	10.1	11.8	14.2	18.3	21.9	25.4
Butter lb.	38.8	32.1	43.3	53.4	61.6	81.0	86.1	95.5	97.5
Fruits and vegetables:									
Apples lb.	...	...	...	...	15.8	17.2	25.2	37.6	40.1
Bananas lb.	...	...	...	4.4	7.6	11.5	16.3	26.3	29.8
Papayas lb.	...	...	...	...	6.0	8.1	13.8	21.8	33.4
Potatoes lb. ⁴	2.5	2.5	4.0	4.5	6.7	6.8	13.1	19.3	21.5
Onions lb.	5.0	5.0	...	4.0	9.6	8.1	11.4	19.4	26.8
Cabbage lb.	...	...	...	6.3	8.2	7.8	10.9	12.0	18.4
Tomatoes lb.	...	...	...	...	20.2	26.7	35.4	47.3	56.9
Peas, green #303 can ⁹	...	...	15.0	18.8	18.2	23.3	26.0	32.9	37.2
Tomatoes #2½ can ¹⁰	...	...	12.5	14.7	22.3	27.4	31.8	40.1	42.6
Dried beans lb.	5.0	5.0	6.1	14.1	...	...	...	26.4	42.4
Other foods at home:									
Eggs, grade A, large doz.	50.0	42.9	55.0	49.3	84.6	87.7	74.3	76.2	94.1
Margarine lb.	...	...	...	...	32.7	34.1	33.1	38.1	43.9
Sugar lb. ¹¹	6.0	6.9	7.0	6.2	7.0	9.5	11.8	13.7	16.4
Coffee lb. ¹²	35.0	30.0	25.0	40.9	38.0	90.5	93.0	103.7	121.1

¹January to June, except dried beans (September 1911).

²April.

³For 1943 and later years, price per pound for 5-lb. quantities.

⁴For 1970 and later years, price per pound for 10-lb. quantities.

⁵For 1930, "hens"; for 1943-1960, "roasting chicken"; for 1970 and later years, "frying chicken, whole or cut-up."

⁶For 1943-1960, average for fresh aku and fresh akule; for 1970 and later years, fresh or frozen mahimahi.

⁷Quality unspecified for 1900 and 1930; grade A for 1943-1960; price per quart for ½-gallon cartons, Vit. D, 1970 and later years.

⁸Price for 1930 refers to 16 oz. can.

⁹Size unspecified for 1910; #2 can, 1930-1950; #303 can, 1960 and later years.

¹⁰Size unspecified for 1910; #2 can, 1930; #2½ can, 1943 and later years.

¹¹For 1970 and later years, price per pound for 5-lb. quantities.

¹²Island coffee, roasted and ground, 1890-1910; not specified, 1930; 53 percent Mainland and 47 percent Island coffee, 1943; Mainland coffee, 1950-1960; unspecified 1-lb. can, 1970 and later years.

Source: *Report of the Commissioner of Labor on Hawaii* for 1905 (pp. 309-317) and 1910 (pp. 135-141); *Labor Conditions in Hawaii: Report of the Commissioner of Labor Statistics, 1915*, pp. 176-181; *Labor Conditions in the Territory of Hawaii, 1929-1930* (U.S. Bureau of Labor Statistics Bulletin No. 534), pp. 128-129; Hawaii State Department of Labor and Industrial Relations, records; U.S. Bureau of Labor Statistics, *Estimated Retail Food Prices by Cities* for 1970 and 1973.

Table 113.—COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1966 TO 1973

Type of family and date	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
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
1973: Autumn	9,924	14,937	21,901	121	118	120
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
1972: Autumn	3,927	5,633	8,717	114	113	113
1973: Autumn	4,221	6,038	8,844	112	112	110

Source: U.S. Bureau of Labor Statistics, *City Worker's Family Budget, Autumn 1966* (Bull. No. 1570-1); *Retired Couple's Budget, Autumn 1966* (Bull. No. 1570-4); *Three standards of living for an Urban Family of Four Persons, Spring 1967* (Bull. No. 1570-5); *Three Budgets for a Retired Couple, 1967-68* (Bull. No. 1570-6); *Three Budgets for an Urban Family of Four Persons, 1969-70* (Supplement to Bull. 1570-5); *Three Budgets for a Retired Couple . . . 1969-70* (Supplement to Bull. 1570-6); *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); *Three Budgets for a Retired Couple, Autumn 1972* (release, August 10, 1973); *Autumn 1973 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, June 16, 1974); *Three Budgets for a Retired Couple, Autumn 1973* (release, August 27, 1974).

Table 114.—ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1973

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	9,924	14,937	21,901	121	118	120
Total consumption	7,801	11,212	15,463	119	115	115
Food	2,826	3,586	4,614	116	113	115
At home	2,516	3,087	3,729	119	114	115
Away from home	310	499	885	96	103	113
Housing ²	2,298	3,709	5,460	141	128	125
Shelter ³	1,871	3,008	4,347	148	132	142
Renter costs ⁴	1,871	2,355	3,445	148	144	134
Homeowner costs ⁵ .....	...	3,225	4,506	...	129	143
Housefurnishings & operations	427	701	1,256	117	112	106
Transportation ⁶	623	1,164	1,549	111	115	118
Automobile owners	879	1,164	1,549	118	110	118
Clothing	721	1,000	1,417	104	100	97
Personal care	227	299	423	111	109	109
Medical care ⁷	694	698	727	105	105	105
Other family consumption ⁸	412	756	1,273	106	105	107
Other items ⁹	422	661	1,125	110	108	110
Social security & disability payments	579	632	632	118	98	98
Personal income taxes	1,122	2,432	4,681	155	151	152

¹Among the 40 metropolitan areas for which separate indexes were reported, Honolulu ranked second at the lower and intermediate levels, behind Anchorage, and fourth at the higher level, behind Anchorage, New York and Boston.

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

³The average cost 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 non-contributory 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 1973 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release, June 16, 1974).

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 (including armed forces) 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. Civilian employment stood at 286,000 in April 1970 and 314,000 three years later, an increase of 10 percent. The unemployment rate averaged 7.0 percent in 1973, with county levels ranging from 6.7 to 9.2 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, a proportion higher than that of any other State and second only to the District of Columbia. 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 \$7,380 in 1972 (twice the 1958 average), and in some categories exceeded \$11,000. Average weekly hours ranged from 28.8 (for hotels) to 41.1 (for communications and utilities). Labor union membership was estimated at 131,000 in 1973. Work stoppages in 1972 numbered 21, and involved 9,300 workers.

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: 1973*.

Table 115.—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 116.—EMPLOYMENT STATUS: ANNUAL AVERAGES, 1958 TO 1974

Definition and year	Civilian labor force	Civilian employment	Workers in labor disputes	Unemployment	
				Number	Percent
OLD DEFINITION¹					
1958	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	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
NEW DEFINITION²					
1970	312,000	297,900	(³)	14,100	4.7
1971	326,000	305,400	(³)	20,600	6.3
1972	336,500	311,800	(³)	24,700	7.3
1973	341,700	317,800	(³)	23,900	7.0
1974, March	341,900	315,800	(³)	26,100	7.6

¹Based on jobs rather than persons. A person holding two jobs was accordingly counted twice.

²Based on persons rather than jobs.

³Included in number of employed persons.

Source: Hawaii State of Labor and Industrial Relations, unpublished preliminary estimates.

**Table 117.—EMPLOYMENT STATUS, BY COUNTY: ANNUAL AVERAGES,
1970 TO 1973**

County and year	Civilian labor force	Civilian employment	Unemployment	
			Number	Percent
State total:				
1970	312,000	297,900	14,100	4.7
1971	326,000	305,400	20,600	6.3
1972	336,500	311,800	24,700	7.3
1973	341,700	317,800	23,900	7.0
City & Co. of Honolulu:				
1970	250,500	239,600	11,000	4.4
1971	261,600	245,300	16,300	6.2
1972	270,000	250,500	19,300	7.2
1973	272,600	254,300	18,300	6.7
County of Hawaii:				
1970	27,400	26,300	1,100	4.0
1971	29,200	27,400	1,800	6.3
1972	30,000	27,900	2,100	6.9
1973	31,800	29,400	2,400	7.6
County of Kauai:				
1970	13,200	12,600	600	5.0
1971	13,700	12,900	800	5.7
1972	14,100	13,100	1,000	7.3
1973	14,200	13,200	1,000	7.3
County of Maui:				
1970	20,800	19,500	1,300	6.2
1971	21,400	19,800	1,600	8.3
1972	22,500	20,300	2,200	9.9
1973	23,000	20,900	2,100	9.0

Source: Hawaii State Department of Labor and Industrial Relations, unpublished preliminary estimates.

Table 118.—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 119.—LABOR FORCE CHARACTERISTICS, BY COUNTY: 1970

Counties	Nonwork- er-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 unem- ployed	Percent in manu- fac- turing indus- tries	Percent in white- collar occupa- tions	Percent govern- ment 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 120.—WAGE AND SALARY WORKERS, BY INDUSTRY: ANNUAL AVERAGES, 1972 AND 1973

(Preliminary estimates. Persons holding more than one job are counted more than once.)

Industry	State totals		Counties: 1973			
	1972	1973	Honolulu	Hawaii	Kauai	Maui
Total ¹	320,600	327,400	269,100	26,400	12,100	19,800
Agriculture	11,000	11,100	2,600	3,400	1,700	3,400
Sugar plantations	5,400	5,900	800	2,100	1,500	1,400
Pineapple plantations	2,900	2,600	900	—	< 50	1,600
Other agriculture	2,700	2,600	900	1,300	100	400
Construction	23,100	25,000	21,400	1,900	500	1,300
Manufacturing	24,800	24,400	17,500	3,300	1,500	2,100
Sugar mills	4,700	4,800	800	2,000	1,100	900
Pineapple canneries	4,300	3,300	2,600	—	100	600
Other food processing	3,400	3,300	2,300	700	100	200
Mfg., except food process.	12,400	13,000	11,800	600	200	400
Transp., commun., utilities	24,300	24,800	20,900	1,500	1,100	1,300
Trade	73,500	76,100	64,100	5,800	2,100	4,000
Wholesale	15,800	16,100	14,100	1,300	200	400
Retail	57,700	60,000	50,000	4,500	1,900	3,600
Finance, insur., real estate	19,800	20,200	18,300	900	300	700
Hotels	17,800	18,900	12,900	2,600	1,300	2,100
Services, except hotels	46,900	48,900	43,400	2,300	1,400	1,800
Government	79,400	78,000	68,000	4,700	2,200	3,100
Federal	32,700	31,600	30,700	400	300	200
Air Force	3,400	3,300	3,200	—	100	—
Army	6,000	6,000	6,000	< 50	—	< 50
Navy	11,800	11,200	11,200	—	< 50	—
Other federal	11,500	11,100	10,300	400	200	200
State	35,300	35,300	28,900	3,000	1,300	2,100
County	11,400	11,100	8,400	1,300	600	800
Agric. and food processing	23,400	22,500	8,300	6,100	3,000	5,100
Sugar	10,100	10,700	1,600	4,100	2,600	2,300
Pineapple	7,200	5,900	3,500	—	100	2,200
Other agric. and food proc.	6,100	5,900	3,200	2,000	200	600
Labor disputes	200	700	500	< 50	< 50	< 50

¹Excludes self-employed, unpaid family workers, domestics, and persons idled by labor disputes.

Source: Hawaii State Department of Labor and Industrial Relations, unpublished preliminary estimates.

**Table 121.—NON-GOVERNMENTAL EMPLOYMENT AND PAYROLLS COVERED BY
THE HAWAII EMPLOYMENT SECURITY LAW: 1940 TO 1972**
(Excludes governmental, self-employed, and unpaid family workers, agricultural workers insured under the self-financed program, and certain other groups.)

Year	Total covered private employment			Non-agricultural private employment		
	Total covered employment	Total wages (\$1,000)	Average annual wages (\$)	Covered employment	Total wages (\$1,000)	Average annual wages (\$)
1940	60,856	68,629	1,128	60,768	68,578	1,129
1945	77,149	173,112	2,244	77,092	173,026	2,244
1950	90,698	244,152	2,692	90,314	243,092	2,692
1955	102,787	320,476	3,118	102,324	319,316	3,121
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	221,457	1,518,727	6,858	217,422	1,495,653	6,879
1971	225,562	1,588,451	7,042	221,646	1,565,091	7,061
1972	231,338	1,707,659	7,380	227,444	1,683,588	7,402

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

Table 122.—EMPLOYMENT AND PAYROLLS COVERED BY HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY AND COUNTY: 1972

County and industry	Number of employers, December	Average employment	Total wages (dollars)	Average annual wage (dollars)
All counties (excluding government)	14,557	242,291	1,788,819,497	7,383
City and County of Honolulu	11,600	198,896	1,496,052,314	7,522
Hawaii County	1,417	19,126	135,744,150	7,097
Kauai County	577	9,446	59,206,376	6,268
Maui County	1,063	14,957	97,816,657	6,540
All industries (including government)	14,563	321,685	2,569,893,121	7,989
Agriculture, forestry, fisheries ¹	232	9,745	69,377,484	7,119
Sugar	21	5,331	41,409,155	7,768
Pineapple	5	2,352	13,848,436	5,888
Other	206	2,062	14,119,893	6,848
Mining and contract construction	1,410	23,681	280,355,335	11,839
Manufacturing	700	26,180	199,941,158	7,637
Pineapple canning	4	4,812	27,436,865	5,702
Sugar mill	22	4,619	40,281,070	8,721
Other food processing	174	4,402	31,631,735	7,185
Other manufacturing	500	12,347	100,591,488	8,147
Transportation	499	14,741	141,497,314	9,599
Communications	49	7,064	73,650,855	10,428
Utilities	20	2,525	31,551,867	12,501
Wholesale trade	1,286	16,410	146,368,339	8,919
Retail trade	3,503	59,316	296,184,893	4,993
Finances, insurance, real estate	1,799	18,921	157,480,319	8,323
Services	5,039	63,633	391,923,089	6,159
Nonclassifiable establishments	20	76	488,844	6,432
Government	6	79,394	781,073,624	9,838
Federal	1	32,658	366,402,957	11,219
State	1	35,309	312,164,804	8,841
County	4	11,427	102,505,863	8,970

¹Includes workers insured under the self-financed program.

Source: Hawaii State Department of Labor and Industrial Relations, *Employment and Payrolls in Hawaii, 1972* (October 1973).

Table 123.—MEDIAN EARNINGS OF PERSONS IN THE EXPERIENCED CIVILIAN LABOR FORCE, BY SELECTED OCCUPATION GROUPS AND SEX: 1960 AND 1970

Sex and occupation	1960 ¹	1970 ²		
		State total	Oahu	Other islands
Male, with earnings ³	4,353	8,055	8,518	6,638
Professional, managerial, and kindred	6,691	11,624	11,866	10,145
Craftsmen, foremen, and kindred	5,060	8,996	9,370	7,542
Operatives, including transport	3,569	6,445	6,694	6,029
Laborers, except farm	3,074	5,122	5,332	4,627
Farmers and farm managers	3,192	6,838	8,269	5,865
Farm laborers and farm foremen	2,949	5,247	5,452	5,182
Female, with earnings ³	2,407	4,208	4,307	3,789
Clerical and kindred workers	3,164	4,776	4,799	4,641
Operatives, including transport	1,840	3,338	3,404	2,969

¹Earnings in 1959, in dollars, of persons 14 years old and over in 1960.

²Earnings in 1969, in dollars, of persons 16 years old and over in 1970.

³Includes persons in other occupation groups, not shown separately.

Source: *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 79.

Table 124.—HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1963 TO 1973

Industry	Ave. weekly earnings (dollars)			Average weekly hours			Ave. hourly earnings (dollars)		
	1963	1972	1973	1963	1972	1973	1963	1972	1973
Contract construction	125.51	243.54	257.04	36.7	37.7	37.8	3.42	6.46	6.80
Manufacturing	77.52	140.26	158.00	38.0	39.4	40.0	2.04	3.56	3.95
Food and kindred products	72.95	127.83	142.21	37.8	39.7	40.4	1.93	3.22	3.52
Communication and utilities	119.48	192.29	211.25	41.2	41.0	41.1	2.90	4.69	5.14
Trade ¹	73.44	105.91	113.91	36.0	33.2	33.7	2.04	3.19	3.38
Wholesale trade	89.27	143.26	152.80	39.5	38.0	38.2	2.26	3.77	4.00
Retail trade ¹	61.90	91.08	99.21	34.2	31.3	31.9	1.81	2.91	3.11
Finance	87.12	118.88	118.40	—	—	—	—	—	—
Hotels	58.22	80.35	88.13	31.3	27.9	28.8	1.86	2.88	3.06
Laundries	49.41	77.85	83.77	40.5	34.6	35.8	1.22	2.25	2.34

¹Excludes eating and drinking establishments.

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

Table 125.—AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1951 TO 1973

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	—	—	—	—
1955	191	234	328	466	1.75	1.78	1.74
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
1973	453	548	639	878	4.51	4.86	4.78

Source: Hawaii Employers Council, *Pay Rates in Hawaii* (annual).

Table 126.—LABOR TURNOVER RATES FOR MANUFACTURING (EXCEPT PINEAPPLE CANNING): 1961 TO 1973

Year	Annual accession rates ¹		Annual separation rates ²		
	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
1973	2.6	2.2	2.5	1.4	0.3

¹Number of additions per 100 employees.

²Number of terminations per 100 employees.

Source: Hawaii State Department of Labor and Industrial Relations, *Hawaii-Honolulu Area Manpower Review 1973-1974* (October 1973), p. 15, and records.

Table 127.—CHILD LABOR CERTIFICATES ISSUED: 1973

Age	Both sexes	Male	Female
18 years old and under	15,742	8,804	6,938
13 years old and under	724	330	394
14 and 15 years old	2,765	1,866	899
16 to 18 years old	12,253	6,608	5,645

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

Table 128.—INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1919 TO 1973

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	2.6	16,665
1972	34,901	60.60	45	5.5	18,773
1973	36,277	61.35	61	7.3	19,548

¹Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

²Accidental deaths per 100,000 total resident population.

³Annual averages.

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

Table 129.—MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1964 TO 1972

Year	Total unions and associations	Labor unions				Professional and state employee associations
		Total	Affiliated with AFL-CIO	Unaffiliated		
				National	Local unions	
1964	(NA)	49,000	(NA)	(NA)	(NA)	(NA)
1966	(NA)	62,000	(NA)	(NA)	(NA)	(NA)
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
1972	123,000	115,000	78,000	30,000	7,000	9,000

NA Not available.

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), and records; *Statistical Abstract of the United States* (annual).

Table 130.—MEMBERSHIP IN LABOR UNIONS, BY COUNTY: 1973

County	All workers ¹	Organized					Not organized
		Total	AFL-CIO	Teamsters	ILWU	Others	
TOTAL EMPLOYMENT							
State total	325,100	130,700	89,100	5,900	23,600	12,100	194,400
City & Co. of Honolulu	267,000	97,200	73,500	5,700	8,500	9,500	169,800
Hawaii County	26,700	14,000	6,900	100	5,800	1,200	12,700
Maui County	19,400	12,550	5,400	50	6,200	900	6,800
Kauai County	12,000	6,940	3,300	40	3,100	500	5,100
PRIVATE EMPLOYMENT							
State total	249,100	90,400	60,100	5,900	23,600	800	158,700
City & Co. of Honolulu	201,000	65,500	50,600	5,700	8,500	700	135,500
Hawaii County	22,000	10,020	4,100	100	5,800	20	12,000
Maui County	16,300	9,780	3,500	50	6,200	30	6,500
Kauai County	9,800	5,060	1,900	40	3,100	20	4,700

¹As of October 1973. Excludes self-employed, domestics, and unpaid family workers.

Source: Hawaii Employers Council, *Estimated Union Membership in Hawaii* (Research Report No. 1211, January 1974).

Table 131.—WORK STOPPAGES: 1960 TO 1972

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
1972	21	9,300	73,700	0.12

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), and records.

SECTION 11

/ RECREATION AND TOURISM

Statistics on tourism, 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 2,631,000 in 1973. During the same time, visitor expenditures rose from \$16.4 million to \$890 million. Average length of stay, excluding eastbound and layover visitors, was 10.7 days in 1973, and expenditure per visitor day when last surveyed averaged \$37.23. The State has four national parks, 46 State parks, 490 county parks, 45 golf courses, 210 tennis courts, 1,871 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than 250,000 annual visitors include sixteen National or State parks, the U.S.S. Arizona Memorial, Honolulu Zoo, Sea Life Park, 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. Oahu theatrical groups reported over 700 performances of more than 70 productions, with a combined audience of 178,000, for the 1972-1973 season. During the same period, the Honolulu Symphony Orchestra gave 109 concerts, with a total attendance of 201,000.

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, county park and recreation departments, 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: 1973*.

Table 132.—MODE OF TRAVEL AND VISITOR STATUS OF PASSENGERS ARRIVING IN HAWAII: 1951 TO 1973

Year	All arriving passengers	Mode of travel		Direction of travel		Visitor status of westbound arriving passengers ¹				
		Air	Surface	Westbound	East-bound or north-bound	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
1955	232,060	176,653	55,407	175,369	56,691	89,772	8,316	31,312	21,996	8,332
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 ²	909,436	832,075	77,361	681,391	228,045	316,550	88,685	36,445	73,060	24,040
1964 ³	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	1,127,950	198,185	193,798	173,252	40,015
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
1973	3,624,667	3,598,312	26,355	2,696,415	928,252	1,815,443	252,418	396,508	194,974	36,886

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 1951-1963 estimates. 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."

²Unadjusted for survey nonresponse, and hence comparable to earlier years.

³Adjusted for survey nonresponse, and hence comparable to later years.

Source: Hawaii Visitors Bureau, *Annual Research Report, 1952-1973, Revised Visitor Statistics, 1964-1970* (July 1971), as corrected, and records.

Table 133.—VISITOR ARRIVALS, AVERAGE VISITOR CENSUS, AND VISITOR EXPENDITURES: 1886 TO 1973

Year	Visitors staying overnight or longer ¹			Average number present	Visitor expenditures ²
	Total	Westbound	Eastbound and northbound		
1886	2,040	(NA)	(NA)	(NA)	0.3
1922	9,676	8,493	1,183	(NA)	4.4
1925	15,193	13,689	1,504	(NA)	7.2
1930	18,651	16,995	1,656	(NA)	8.7
1935	19,933	18,030	1,903	(NA)	7.9
1940	25,373	23,369	2,004	(NA)	12.0
1946	15,000	(NA)	(NA)	975	6.3
1950	46,593	(NA)	(NA)	3,027	24.2
1955	109,798	98,105	11,693	6,042	55.0
1960	296,517	250,795	45,722	11,797	131
1961	319,807	248,540	71,267	11,960	137
1962	362,145	279,625	82,520	13,125	154
1963	429,140	332,680	96,460	15,316	186
1964 ³	508,870	405,235	103,635	16,739	225
1964 ⁴	563,925	460,290	103,635	16,017	205
1965	686,928	567,218	119,710	17,318	225
1966	835,456	686,886	148,570	21,030	280
1967	1,124,818	893,103	231,715	27,690	380
1968	1,314,571	1,015,844	298,727	32,496	440
1969	1,527,012	1,181,029	345,983	37,438	525
1970	1,746,970	1,326,135	420,835	36,888	550
1971	1,818,944	1,430,325	388,619	40,829	645
1972	2,244,377	1,782,737	461,640	50,344	755
1973	2,630,952	2,067,861	563,091	59,425	890

NA Not available.

¹Data for 1955-1963 are not adjusted for survey nonresponse. Data for 1964 and later years are adjusted for survey nonresponse, and hence are not directly comparable to the 1955-1963 estimates.

²In millions of dollars. Excludes expenditures for trans-Pacific transportation.

³Unadjusted for survey nonresponse, and comparable to 1955-1963 estimates.

⁴Adjusted for survey nonresponse, and comparable to later years.

Source: Anson Chong, *Economic Development of Hawaii and the Growth of Tourism Before 1945* (May 1963), p. 112; Hawaii Visitors Bureau, *Annual Research Report for 1952-1973, 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 Hawaii Visitors Bureau data.

Table 134.—VISITOR ARRIVALS AND VISITOR DAYS, BY MILITARY STATUS AND DIRECTION OF TRAVEL: 1965 TO 1973

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	1,746,970	110,815	121,866	1,204,269	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
1973	2,630,952	801	484	2,067,377	562,290
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	13,464,143	554,075	731,196	10,938,792	1,240,080
1971	14,902,528	230,145	264,972	13,037,051	1,370,360
1972 ⁵	18,426,014	...	...	16,579,454	1,846,560
1973 ⁵	21,690,257	...	...	19,437,893	2,252,364

¹All eastbound. Flights began in August 1966.

²All westbound.

³Overnight and longer only.

⁴Includes one-day visitors.

⁵Not available by military status. Rest and Recuperation visitor days included with non-Rest and Recuperation visitor days.

Source: Hawaii Visitors Bureau, *1973 Annual Research Report*, p. 9, and records.

✓ Table 135.—RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1960 TO 1972

Year	Total	United States	Canada	Japan	Australia and New Zealand ¹	Other Pacific and Asia ¹	All others ²
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 ³	1,514,500	1,120,000	80,000	131,500	69,100	52,500	61,400
1971 ³	1,730,000	1,253,000	100,000	180,000	82,000	66,000	49,000
1972	2,244,000	1,662,000	125,000	235,000	100,000	65,000	57,000

¹South Pacific islands included with Australia and New Zealand in 1971 and 1972.

²Includes Europe (40,000 in 1972), Latin America and the Caribbean (15,000), and Africa (2,000).

³Excludes Rest and Recuperation personnel and dependents.

Source: Hawaii Visitors Bureau, Research Department, records.

✓ Table 136.—CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1951 TO 1973

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
1955	43.8	668	46.9	48.3	1.50	32.0	23.3	25.6	75.6	79.7	22.0	66.2
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
1973	25.5	762	44.0	56.4	1.69	30.2	0.3	34.3	78.3	89.3	10.7	58.8

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 surveyed passengers who did not answer this question.

Source: Hawaii Visitors Bureau, *Annual Research Report, 1952-1973, Revised Visitor Statistics, 1964-1970* (July 1971), and records.

Table 137.—FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF VISITORS TO HAWAII: 1970 TO 1973

Subject	1970	1971	1972	1973
Number of respondents in sample	5,153	5,384	5,393	6,042
Family income before taxes (percent)	100.0	100.0	100.0	100.0
Under \$5,000	} 7.5	4.5	{ 2.6	2.5
\$5,000 to \$7,499				5.4
\$7,500 to \$9,999	14.1	9.9	8.1	8.5
\$10,000 to \$14,999	18.5	16.9	23.0	21.8
\$15,000 to \$24,999	30.3	32.5	33.9	33.3
\$25,000 and over	29.6	36.2	26.7	28.5
Median income (dollars)	18,300	20,800	18,100	18,600
Using travel agent (percent)	58.4	61.6	68.6	73.0
Use of prepaid package tour (percent)	100.0	100.0	100.0	100.0
Yes	18.4	19.7	37.4	43.0
Partly	19.4	21.4	16.4	17.8
No	62.2	58.9	46.2	39.2
Islands visited (percent):				
Oahu only	43.7	37.8	33.7	34.7
Hawaii	35.6	41.1	43.8	44.7
Maui	37.0	43.0	48.4	46.8
Kauai	36.7	41.5	43.9	42.9
Hawaii compared with other vacation areas				
visited (percent)	100.0	100.0	100.0	100.0
Far superior	38.1	39.2	36.6	38.6
Above average	50.0	50.4	51.8	50.4
Average	10.7	9.3	10.4	9.8
Below average	1.0	0.8	1.1	1.0
Quite inferior	0.2	0.2	0.1	0.2

Source: Hawaii Visitors Bureau, *Visitor Reaction Survey* (annual summaries).

Table 138.—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 139.—PASSPORTS ISSUED AND RENEWED BY THE HONOLULU PASSPORT AGENCY: 1960 TO 1973

Calendar year	Number
Issued and renewed:	
1960	8,608
1961	9,229
1962	11,103
1963	11,990
1964	10,442
1965	14,815
1966	15,097
1967	17,345
1968	16,703
Issued: ¹	
1969	18,080
1970	23,269
1971	24,814
1972	26,078
1973	27,134

¹Legislation effective August 26, 1968 eliminated passport renewals.
Source: U.S. Department of State, Passport Office, Administrative Division, records.

Table 140.—CHARACTERISTICS OF HAWAII RESIDENTS RETURNING FROM THE MAINLAND UNITED STATES: 1961 TO 1973

Subject	1960-1961	1967	1972	1973
Number returning	41,450	130,995	171,772	194,974
Oahu residents (percent) ¹	86.0	88.0	87.2	(NA)
Median age (years)	32.9	(NA)	(NA)	(NA)
Males per 100 females	125.9	(NA)	(NA)	(NA)
Persons per party	1.35	1.24	1.36	1.33
Armed forces (percent)	6.2	11.7	2.6	(NA)
Average number absent ²	5,200	14,800	11,900	(NA)
Days absent, median ²	23.7	18.4	13.8	(NA)
Days absent, average ²	49.6	45.9	25.3	(NA)
Returning from California (percent)	52.8	(NA)	(NA)	(NA)
Traveling by air (percent)	97.4	99.4	99.9	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; Hawaii Visitors Bureau, *1973 Annual Research Report* and records.

Table 141.—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 142.—ATTENDANCE AT MUSEUMS, STATE MONUMENTS, AND SIMILAR ATTRACTIONS: 1972-1973

Island and attraction	Year ended—	Attendance	Island and attraction	Year ended—	Attendance
OAHU			HAWAII		
Bernice P. Bishop Museum:			Hikiau Heiau State Mon.	June 30, 1971	16,000
Exhibition halls	June 30, 1973	123,930	Hulihee Palace	Dec. 31, 1973	32,192
Planetarium	June 30, 1973	57,985	Kamuela Museum	Dec. 31, 1973	18,377
Falls of Clyde Maritime Mus. ...	June 30, 1973	35,037	Lava Tree State Mon.	June 30, 1973	35,000
Heritage Theater	June 30, 1973	14,421	Lyman House Mem. Museum ...	Dec. 31, 1973	13,618
Diamond Head State Mon.	June 30, 1971	5,000			
Foster Botanical Gardens	Dec. 31, 1973	107,790	MAUI		
Hawaiian Wax Museum	Dec. 31, 1973	88,240	Baldwin Home Miss. Mus.	Dec. 31, 1973	29,832
Honolulu Academy of Arts	Dec. 31, 1973	135,110	Hale Hoikeike	Dec. 31, 1973	3,992
Honolulu Zoo	Dec. 31, 1973	1,329,000	Hale Kii-Pihana State Mon.	June 30, 1973	12,000
Iolani Palace State Mon.	June 30, 1973	745,000	Hale Pa'i Printing Museum	Dec. 31, 1973	1,633
Mission Museum	Dec. 31, 1973	21,902			
Mormon Temple Grounds, Laie ..	Aug. 31, 1973	421,659	KAUAI		
Pacific Submarine Museum	Dec. 31, 1973	45,891	Hanalei Museum	Dec. 31, 1971	7,000
Paradise Park	Dec. 31, 1970	247,389	Hui O Laka Kokee Museum	Dec. 31, 1973	68,391
Polynesian Cultural Center	June 30, 1973	600,000	Kauai Museum	June 30, 1973	17,947
Post Museum, Schofield Bks.	Dec. 31, 1973	40,629	Russian Fort State Mon. ....	...	(NA)
Puu O Mahuka State Mon.	June 30, 1971	8,000	Waioli Mission ¹	Dec. 31, 1973	321
Queen Emma's Summer Pal.	Dec. 31, 1973	16,217			
Royal Mausoleum State Mon.	June 30, 1973	28,000			
Sea Life Park	Dec. 31, 1972	426,758			
Ulu Mau Village	Dec. 31, 1971	55,000			
Ulu Po Heiau State Mon.	June 30, 1971	4,000			
U.S.S. Arizona Memorial	Dec. 31, 1973	1,041,921			
Waikiki Aquarium	Dec. 31, 1973	207,260			
Washington Place State Mon. ....	...	(NA)			

NA Not available.

¹Closed May 15 to November 25, 1973.

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

Table 143.—PARKS: 1920 TO 1974

Year	National parks ¹			State parks ²			County parks ³	
	Areas	Acres	Visits (1,000)	Areas	Acres	Visits (1,000)	Areas	Acres
1920	1	120,985	...	...	...	...	...	...
1925	1	164,385	64	...	...	...	...	...
1930	1	159,031	125	...	...	...	...	...
1935	1	159,031	186	...	...	...	...	...
1940	1	207,651	286	...	...	...	140	3,865
1945	1	207,651	381	...	...	...	...	...
1950	1	214,101	348	...	...	...	174	4,048
1955	2	256,201	422	14	5,829	148	...	...
1960 ⁴	3	256,201	771	18	6,166	267	236	4,867
1965	3	256,201	832	22	7,514	1,893	...	...
1970	3	257,181	1,233	41	15,584	9,520	411	5,884
1971	3	257,181	1,479	44	15,983	13,007	...	...
1972	4	257,281	2,046	46	16,000	9,798	376	6,334
1973	4	257,219	2,026	46	16,108	13,271	479	6,662
1974 .....	...	...	...	...	...	...	490	7,160

¹Includes Hawaii National Park (established with sections at Kilauea and Haleakala in 1916), Hawaii Volcanoes National Park and Haleakala National Park (created from the two sections of Hawaii National Park in 1961), City of Refuge National Historical Park (established in 1961), and Puukohola National Historic Site (authorized in 1972). Data on areas and acreage refer to the number authorized (but not necessarily acquired or established) as of December 31. Totals for visits exclude the Haleakala Section for 1935 and earlier years.

²For years ended June 30. The first Territorial parks, Kokee and Waimea Canyon, were established in 1952, although both areas had been used as parks for a number of years.

³As of July 1, 1940-1958 and January 1, 1970 and later years. Data for 1940 and 1950 exclude Maui County (20 parks and 117 acres in 1957). The first local public park in the Islands, Thomas Square in Honolulu, was established in 1850.

⁴County park data refer to 1958.

Source: U.S. Department of the Interior, National Park Service, Hawaii Group, records; Hawaii State Department of Land and Natural Resources, *Report to the Governor* (annual), and records; Honolulu Department of Parks and Recreation, records; Hawaii County Department of Parks and Recreation, records; Kauai Department of Public Works, records; Maui Department of Parks and Recreation, records.

Table 144.—NATIONAL, STATE, AND COUNTY PARKS: 1972-1973

National park		Acreage (Dec. 31, 1973)		Total visits	
		Federal	Non-Federal	1972	1973
Hawaii Volcanoes National Park		217,030	12,625	1,389,144	1,260,508
Haleakala National Park		21,190	6,093	305,489	373,361
City of Refuge National Historical Park		181	—	351,448	391,724
Puukohola Heiau National Historical Park		34	66	—	—

County	State parks					County parks: Dec. 31, 1973	
	Number of areas: June 30, 1973	Acreage: June 30, 1973		Visits, years ended June 30 (in thousands)		Number of areas	Acreage
		Total	Developed	1972	1973		
Total	46	16,108.3	523.7	9,798	13,271	490	7,160
Hawaii	12	1,762.6	219.8	2,151	2,353	106	1,547
Maui	11	420.8	47.0	1,144	1,803	66	621
Honolulu	15	6,034.3	94.7	3,578	3,833	267	4,499
Kauai	8	7,890.6	162.2	2,925	5,282	51	493

Source: U.S. Department of the Interior, National Park Service, records; Hawaii State Department of Land and Natural Resources, records; County parks department, records.

Table 145.—SELECTED RECREATIONAL ACTIVITIES: 1930 TO 1973

Year	Beach park acreage (Oahu) ¹	Camping permits (Oahu) ²	Licenses issued ³		Visitors to Mauna Kea ⁴	Public golf courses (Oahu) ⁵		Honolulu Zoo ⁶	
			Freshwater game fishing	Hunting		Holes	Attendance	Animal inventory	Attendance
1930	297.82	...	...	...	...	...	...	...	...
1940	318.55	...	...	...	...	...	...	1,090	...
1950	395.70	...	...	...	...	27	...	1,110	590,591
1960	541.73	...	1,682	5,290	...	45	...	742	519,186
1961	557.16	...	3,014	6,214	...	45	...	758	489,225
1962	558.35	...	4,209	6,924	...	45	...	759	481,389
1963	566.78	...	4,264	7,095	...	45	181,476	...	593,814
1964	622.60	...	5,269	7,766	...	45	203,784	...	692,706
1965	622.60	...	4,357	7,613	...	45	215,648	...	761,246
1966	655.99	...	3,743	6,903	...	45	214,447	1,110	736,049
1967	655.99	...	3,424	7,142	...	45	226,762	1,297	898,178
1968	656.37	6,330	3,867	8,510	...	45	222,790	1,679	890,284
1969	746.03	6,225	3,798	8,629	685	45	228,479	1,879	1,108,823
1970	772.22	...	5,070	9,773	2,386	45	223,434	3,116	1,016,809
1971	961.84	...	5,551	10,302	3,809	63	272,352	1,955	1,107,193
1972	975.87	11,389	7,759	11,178	1,211	63	313,049	3,651	1,094,718
1973	975.95	11,551	6,804	12,359	2,046	63	343,534	1,711	1,329,000

¹Beach park acreage under the jurisdiction of the City and County of Honolulu Department of Recreation. As of the end of the year.

²Camping permits issued by the City and County of Honolulu Department of Recreation. Permits for 1968 and 1969 estimated, based on 50,643 campers in 1968, 49,797 campers in 1969, and an average of 8 campers per permit. Data not available for 1970, 1971 or before 1968.

³By the Division of Fish and Game, Hawaii State Department of Land and Natural Resources. Data are Statewide totals for years ended June 30. Not available before 1952.

⁴Skiers, hikers, and other visitors (including children) issued entry permits to the Hale Pohaku and summit areas of Mauna Kea by the Hawaii State Department of Land and Natural Resources. Calendar year data. Not available before 1969.

⁵Public golf courses operated by the City and County of Honolulu Department of Recreation or (for Ala Wai before 1960) the Territorial Fair Commission. Includes Ala Wai (18 holes, transferred to the Department in 1960), Pali (18 holes, developed in 1954-1955), Kahuku (9 holes, leased by the Department since 1950), and Ted Makalena (18 holes, developed in 1970-1971). Data not available for holes before 1950 or attendance before July 1962. Includes estimate for Kahuku, July-December 1962. Data refer to years ended June 30, 1963 to 1968, and calendar years thereafter.

⁶Calendar years. Data not available for inventory before 1940 (or on a comparable basis for 1963-1965) or for attendance before 1950.

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

✓ **Table 146.—ATTENDANCE AT BASEBALL, BASKETBALL, AND FOOTBALL
HOME GAMES: 1961 TO 1973**

Season	Baseball: Hawaii Islanders ¹		Univ. of Hawaii basketball team ²		Univ. of Hawaii football team ³	
	Home games	Paid attendance	Home games	Total attendance	Home games	Total attendance
1961	77	165,786	...	...	...	...
1962	76	149,737	...	...	1	9,774
1963	79	236,848	...	...	2	8,645
1964	79	154,827	...	...	4	12,791
1965	73	174,699	...	...	3	4,533
1966	73	191,367	...	...	6	26,205
1967	73	219,005	11	24,874	7	68,018
1968	73	257,913	16	44,862	7	89,858
1969	73	280,477	20	63,806	7	113,776
1970	73	467,217	24	95,063	8	120,498
1971	73	375,000	22	150,949	9	145,437
1972	73	307,000	24	197,671	9	150,448
1973	72	238,390	22	161,753	9	184,694

¹The Hawaii Islanders were organized and admitted to the Pacific Coast League in 1961.

²Data refer to the school year beginning in the fall of the year indicated and continuing until the following spring. Totals include the Rainbow Classic. The University of Hawaii (called the College of Hawaii until 1920) played its first basketball game in 1913, but many of its earlier opponents were non-collegiate, and systematic attendance records were not compiled until the 1967-1968 season.

³Data refer to the school year beginning in the fall of the year indicated. Totals exclude home games played on fields other than Honolulu Stadium. The University of Hawaii (then called the College of Hawaii) played its first football game in 1909, but many of its earlier opponents were non-collegiate, and systematic attendance records were not compiled until the 1962-1963 season.

Source: Hawaii Islanders, Inc., records; Office of Intercollegiate Athletics, University of Hawaii, records.

Table 147.—OUTDOOR RECREATION FACILITIES AND RESOURCES, BY ISLAND: 1971-1973

Facility	Six islands	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Golf courses: ¹							
9-hole	10	2	2	1	2	2	1
18-hole	26	7	4	—	—	13	2
27-hole	1	—	—	—	—	—	1
Tennis: ²							
Locations	54	6	7	1	3	30	7
Courts	156	13	20	2	6	97	18
Small-craft moorage: ³							
Catwalks and piers	1,094	15	43	23	2	968	43
Other facilities	777	204	110	—	41	379	43
Sandy shoreline: ⁴							
Total mileage	184.9	19.4	32.6	18.2	23.2	50.3	41.2
Primary mileage ⁵	24.4	1.2	7.9	—	—	12.5	2.8
Surfing sites ⁶	1,600	185	212	99	180	594	330

¹As of December 1973. Excludes the 8 Air Force, Army and Navy courses.

²As of December 1973. Includes all public courts, and private and hotel courts open to the public. Excludes 9 hotel locations (26 courts) open only to guests.

³Capacity as of November 1973.

⁴Surveyed 1962.

⁵Safe, clean, accessible, and generally suitable for swimming.

⁶Surveyed 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

Source: Hawaii Visitors Bureau, *Golf & Tennis in Hawaii* (leaflet, 1973); Hawaii State Department of Transportation; Harbors Division, records; Hawaii State Department of Planning and Economic Development, *Hawaii's Shoreline* (1965), p. 1; Surfing Education Association, *The 1971 Statewide Surfing Site Survey*, Vol. 1, p. 93.

Table 148.—PERFORMING ARTS: 1972-1973 SEASON

Theater group	No. of productions	No. of performances	Total attendance
Theater groups reporting	72	735	178,179
Chaminade College of Honolulu	3	18	900+
Commedia Repertory Company ¹	11	193	5,611
Hawaii Loa College	2	6	350
Hawaii Performing Arts Company	14	170	19,643
Honolulu Community Theatre	7	64	21,942
Honolulu Theatre for Youth	6	114	77,401
U.S. Army Recreation Services Theater Guild	12	64	13,342
University Theatre, University of Hawaii ²	13	71	33,590
Windward Theatre Guild ³	4	35	5,400

Music group	Ave. number of orchestra personnel	No. of performances ⁴	Total attendance ⁴	Operating expenses (dollars)
Honolulu Symphony Orchestra	80	109	200,931	1,042,262
Honolulu Chamber Music Series .....	...	5	1,755	...

¹Data refer to calendar 1973, and exclude special performances of seven plays at Honolulu Hale, Kennedy Theatre, and Ala Moana.

²Excludes Summer Theatre season.

³Data are for 1971-1972.

⁴Excludes demonstration concerts by small symphony ensembles in schools.

Source: Data provided to DPED by individual organizations.

Table 149.—PET OWNERSHIP, 1970, AND LICENSED DOGS, 1973

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, 1973	
State total	52,049
City and County of Honolulu	37,438
County of Hawaii	4,579
County of Kauai	2,664
County of Maui	7,368

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.

SECTION 12

ARMED FORCES

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

There were approximately 58,000 officers and enlisted men (including 15,000 aboard ships homeported in Hawaii) and over 70,000 military dependents in the Islands as of July 1, 1973. 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 (\$872,200,000), civilian employment (more than 20,000), veterans in civil life (92,000), military personnel receiving retired or retainer pay (5,891 men, receiving \$28.6 million), federally-connected pupils in public schools (45,000), military housing (15,000 units), and land controlled by the armed forces (223,000 acres). Almost 1,300 Island servicemen have died in battle in the past four conflicts.

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 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: 1973* presents data on national defense and veterans affairs for other States and the entire nation.

Table 150.—ARMED FORCES AND DEPENDENTS: 1900 TO 1973

Year	Active-duty military personnel in Hawaii, June 30				Dependents located in Hawaii, March 31 ³
	Total ¹	Shore-based	Afloat and mobile ¹		
			Temporarily shore-based	Other ²	
1900 .....	...	293	...	...	...
1905 .....	...	328	...	...	...
1910 .....	...	1,925	...	...	...
1915 .....	...	9,820	...	...	...
1920 .....	...	6,652	...	...	...
1925 .....	...	17,874	...	...	...
1930 .....	...	18,908	...	...	...
1935 .....	...	22,005	...	...	...
1940 .....	...	27,665	...	...	...
1944 ⁴ .....	...	442,160	...	...	...
1950 .....	...	19,408	...	...	...
1955 ⁵	55,308	39,611	6,623	9,074	36,199
1960	55,702	35,970	7,155	12,577	62,608
1961	57,589	37,681	6,384	13,524	63,172
1962	75,436	41,615	5,737	28,084	63,889
1963	57,433	41,018	5,966	10,449	66,425
1964	70,660	45,714	6,462	18,484	68,138
1965	53,216	40,184	4,170	8,862	72,981
1966	49,633	28,695	5,014	15,924	69,048
1967	52,862	34,370	5,374	13,118	57,253
1968	52,916	33,987	8,573	10,356	61,940
1969	46,514	33,739	5,400	7,375	65,925
1970	50,524	33,337	7,102	10,085	57,382
1971	41,877	28,352	3,848	9,677	57,816
1972	47,799	36,494	1,724	9,581	61,713
1973	54,184	43,315	2,188	8,681	60,206

¹Not available for 1950 and earlier years.

²Navy personnel afloat, identified with the nearest port.

³Data include dependents of Hawaii residents stationed out of State if those dependents remain in Hawaii.

⁴Peak year for World War II.

⁵Total for dependents refers to December 31, 1954.

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; 1940 and later years from the Office of the Assistant Secretary of Defense, records.

✓ **Table 151.—MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1937 TO 1974**
(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
1973	128,082	57,783	43,064	14,719	70,299	25,264
1974	126,882	58,558	45,369	13,189	68,324	29,082
ISLAND: 1974						
Oahu	126,047	58,180	45,020	13,160	67,867	28,909
French Frigate Shoals	26	26	26	—	—	—
Kure Atoll	29	29	29	—	—	—
Hawaii	375	165	149	16	210	76
Kauai	350	138	138	—	212	87
Maui	52	17	4	13	35	10
Molokai	3	3	3	—	—	—
SERVICE: 1974						
Air Force	22,934	7,947	7,947	—	14,987	7,706
Army	38,471	17,600	17,600	—	20,871	8,192
Coast Guard	2,933	1,289	806	483	1,644	564
Marine Corps	14,807	7,782	7,782	—	7,025	3,138
Navy	47,737	23,940	11,234	12,706	23,797	9,482

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 152.—WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES: 1917 TO 1973

(Data refer to U.S. military personnel who reported Hawaii as their home of record or pre-service residence.)

War	Battle deaths	Other deaths	Wounds not mortal
World War I	6	(NA)	7
World War II	658	138	(NA)
Korean conflict	403	(NA)	923
Vietnam conflict ¹	219	51	(NA)

NA Not available.

¹An estimated 12,970 military personnel from Hawaii served in Vietnam. Comparable data are not available for earlier wars.

Source: Office of the Assistant Secretary of Defense, Comptroller (Systems Policy & Information), data supplied November 2, 1973.

✓ **Table 153.—FEDERAL MILITARY EXPENDITURES: 1972 AND 1973**

Subject	Millions of dollars	
	1972	1973
Total expenditures ¹	765.5	872.2
By service:		
Air Force	111.5	103.5
Army	225.9	307.7
Coast Guard	16.7	16.3
National Guard	14.6	15.1
Navy	396.8	429.6
By expenditure category:		
Military payroll	271.2	298.1
Civilian payroll	260.8	268.5
Dependents and retired personnel	44.3	45.9
Supplies and services	189.2	251.8
Transients	—	8.0

¹Totals differ somewhat from those in Table 100 because of minor differences in definitions and coverage.

Source: Bank of Hawaii, *Hawaii '73, Annual Economic Review* (August 1973), p. 47, and records.

**Table 154.—MILITARY AND CIVIL FUNCTION PRIME
CONTRACT AWARDS: 1962 TO 1974**
(In thousands of dollars)

Fiscal year	Military prime contract awards	Civil function prime contract awards
1962	31,875	(NA)
1963	45,206	466
1964	52,112	1,916
1965	72,213	1,608
1966	64,170	1,439
1967	65,445	244
1968	95,623	711
1969	114,608	4,338
1970	109,034	1,540
1971	122,161	883
1972	95,847	1,922
1973	155,393	738
1974	183,447	2,558

NA Not available.

Source: *Selected DOD Data Related to State of Hawaii Survey of Economic Impact of Military Activities Within Its Boundaries* (unpublished compilation by Rep. Spark Matsunaga, 1974); U.S. Department of Defense, Directorate for Information Operations, *Prime Contract Awards by State, Fiscal Year 1974*.

Table 155.—MILITARY REAL PROPERTY CONTROLLED IN HAWAII: 1960 TO 1972

Subject	June 30, 1960: total	June 30, 1970: total	June 30, 1972			
			Total	Army	Navy	Air Force
Cost to U.S. gov't. ¹	855,122	1,047,218	1,101,877	248,070	680,842	172,965
Acreage controlled	252,647	226,539	222,900	152,591	63,652	6,657
Owned ²	34,968	175,225	174,931	106,591	62,427	5,913
Public land ²	166,880	—	—	—	—	—
Temporary use	30,037	12,721	11,888	11,450	88	350
Easements	675	1,639	1,444	573	675	196
Leased	20,087	36,954	34,637	33,977	462	198

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, Ninety-Third Congress, First Session, *Federal Real and Personal Property Inventory Report* (biennial report).

Table 156.—MISCELLANEOUS STATISTICS ON THE ARMED FORCES: 1970 TO 1973

Subject	1970	1971	1972	1973
Hawaii residents on active duty, June 30	15,331	13,600	11,600	10,200
National Guard strength, June 30	3,929	4,510	4,803	4,822
Hawaii Air National Guard	1,604	1,569	1,574	1,539
Hawaii Army National Guard	2,325	2,941	3,229	3,283
Veterans in civil life, June 30 ¹	68,000	70,000	72,000	92,000
War veterans	57,000	59,000	61,000	79,000
Vietnam era	15,000	18,000	21,000	29,000
Korean conflict	16,000	16,000	16,000	21,000
World War II	29,000	28,000	27,000	33,000
World I	2,000	2,000	2,000	2,000
Service Feb. 1955—Aug. 1964 only	11,000	11,000	11,000	13,000
Military personnel receiving retired or retainer pay				
as of June 30, all services	3,399	3,819	5,891	6,403
Annual rate (\$1,000)	14,634	18,270	28,644	34,285
Civilian employment, annual average	22,080	21,520	21,200	20,500
Air Force	3,680	3,430	3,400	3,300
Army	6,100	6,020	6,000	6,000
Navy	12,300	12,070	11,800	11,200
Federally-connected pupils in public schools, Fall	51,181	51,236	47,852	44,826
Housing units operated by the armed forces, July 1 ²	14,425	14,872	14,875	15,344
Owned by the armed forces	13,627	14,085	14,031	14,507
Leased from private owners	798	787	844	837

¹Data for 1973 are not directly comparable with estimates for earlier years

²The 1970 data refer to April 1.

Source: Office of the Assistant Secretary of Defense, records; Hawaii State Department of Defense, *Annual Report* (annual); Administrator of Veterans Affairs, *Annual Report* (annual); Hawaii State Department of Labor and Industrial Relations, releases; 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 of 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 1973 reached \$1,327 million, almost triple the level reported ten years earlier. The 1973 total included \$735 million in U.S. taxes, \$572 million in State taxes, and \$20 million in County licenses and fees. Individual income taxes accounted for 84 percent of Federal collections and 24 percent of State collections in Hawaii in 1973. State revenue receipts totaled \$781 million, chiefly from the General Excise and Use Tax (\$210 million) and Federal grants-in-aid (\$201 million). The largest expenditure item in the State accounts for 1973 was education, with \$277 million (out of \$783 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. The estimated tax burden for a four-person family with per capita personal income equal to the State average in 1972 was \$6,636, including both direct taxes (\$5,192) and employment taxes paid by employers (\$1,444). Assessed valuation of the State doubled between 1966 and 1973. Public bonded debt outstanding at the end of 1973 exceeded \$1.2 billion. Average government employment reported for 1972 was 79,420, about 55 percent over the 1962 average. The 1972 total included 32,700 Federal workers, 35,290 persons employed by the State, and 11,430 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: 1973*, Sections 14 and 15.

✓ **Table 157.—FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1852 TO 1973**
(In thousands of dollars)

Year	Total	U.S. govt. ¹	Hawaiian govt. ²	County govts. 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
1973	1,327,151	735,359	571,689	20,104

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 158.—FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCE: 1963 TO 1973**
 (Years ended June 30. In thousands of dollars.)

Source	1963	1968	1972	1973
Total, all levels	454,641	778,291	1,162,700	1,327,151
Federal collections	271,153	440,237	632,583	735,359
Indiv. income and employment	213,348	366,171	532,391	615,636
Corp. income and excess profits	39,544	53,611	65,715	86,199
Other sources	18,261	20,455	34,477	33,524
State collections	175,260	324,323	512,047	571,689
General excise and use	67,786	114,460	186,556	210,926
Fuel	15,241	21,911	28,347	29,787
Liquor	3,644	6,291	9,426	10,229
Public service companies	5,708	10,545	15,661	18,335
Corporate income	5,712	11,196	11,766	12,888
Indiv. income, net income	31,961	70,312	120,061	134,931
Real property	30,958	63,705	98,265	105,845
Unemployment compensation	6,044	11,461	18,294	24,008
Other sources	8,206	14,442	23,671	24,740
County collections	8,228	13,731	18,070	20,104
Motor vehicle weight	5,226	8,777	10,970	11,698
Other sources	3,002	4,954	7,100	8,406

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1974* (forthcoming).

✓ **Table 159.—ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY: 1970 TO 1972**
 (Based on a gross family income equivalent to four times the per capita personal
 income estimated for Hawaii. All data are in dollars.)

Tax category ¹	1970	1971	1972
Total tax burden	5,559	6,178	6,636
Direct taxes	4,410	4,881	5,192
Real property	366	365	421
Automobile	225	228	287
General excise	304	327	329
Specific excises	67	103	103
State income	693	802	837
Federal income	2,130	2,360	2,441
Social Security	624	696	774
Employment taxes paid by employer	1,149	1,297	1,444
Social Security	624	696	774
Unemployment compensation	163	192	273
Workmen's compensation	256	294	305
Temporary disability insurance	106	115	92
Assumed gross family income	16,408	18,108	18,952
Index (1971 = 100)	90.6	100.0	104.7
Net income	10,849	11,930	12,316
Index (1971 = 100)	90.9	100.0	103.2
Consumer price index (1971 ave. = 100)	96.0	100.0	103.3

¹For underlying assumptions, see source.

Source: Tax Foundation of Hawaii, *Arnie Aloha's 1971 Family Tax Burden* (July 1972) and *The Tax Burden of the Arnie Aloha Family* (November 1973); U.S. Bureau of Labor Statistics, *The Consumer Price Index* (monthly).

✓ **Table 160.—STATE REVENUE RECEIPTS: 1972 AND 1973**
(Years ended June 30. In thousands of dollars.)

Source of revenues	1972: all funds	1973		
		All funds	General fund	Special fund
Total	689,958	781,430	592,005	189,425
Tax revenues	404,513	455,734	411,934	43,800
General excise	186,573	210,192	210,192	—
Specific excises	59,471	65,148	45,384	19,764
Individual income	120,063	134,930	134,930	—
Corporate income	11,764	12,889	12,889	—
Unemployment compensation	18,234	23,938	—	23,938
Other taxes, licenses, permits	8,408	7,916	7,818	98
Fines, forfeits, and escheats	3,030	3,287	3,194	93
Federal grants-in-aid	178,639	200,660	143,170	57,490
Revenues from other agencies	1,506	732	663	69
Rents, royalties, land income	5,437	5,700	3,717	1,983
Sales of real property	657	1,202	—	1,202
Earnings: general departments	39,595	40,397	16,007	24,391
Earnings: public service enterp.	26,622	31,983	—	31,983
Repayment advances to other civil div.	3,568	7,749	—	7,749
Repayment debt costs: counties	2,795	2,124	2,124	—
Interest earned	9,802	13,945	5,447	8,498
Miscellaneous	13,795	17,918	5,750	12,168

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1974* (forthcoming).

✓ **Table 161.—STATE OPERATING EXPENDITURES, BY FUNCTION: 1963 TO 1973**
 (Years ended June 30. In thousands of dollars.)

Functions	1963	1968	1972	1973
Total	233,979	416,453	762,413	783,166
General government: Control	4,339	6,735	12,414	12,072
General government: Staff	9,751	16,584	24,980	26,828
Public safety: Police and fire	205	81	242	365
Other protection	22,279	20,273	26,050	29,206
Highways	15,369	36,223	9,840	15,673
Natural resources	10,191	13,963	15,344	15,801
Health and sanitation	4,278	6,899	12,464	11,518
Hospitals and institutions	13,960	18,628	40,348	43,326
Public welfare	13,083	31,436	91,343	106,856
Education: Higher	28,105	63,007	107,178	109,146
Public schools	55,196	104,684	165,072	160,410
Libraries and other	2,442	3,945	7,442	7,338
Recreation	2,124	2,084	1,581	3,573
Utilities and other enterprises	9,248	15,627	24,580	35,590
Debt service	11,366	21,397	42,541	48,674
Retirement and pension	8,724	18,887	34,428	34,772
Employees' health insurance	1,760	3,566	7,610	6,362
Salary adjustments	1,713	—	5	—
Unemployment compensation	13,807	13,761	48,970	42,651
Grants-in-aid to counties	—	11,427	19,448	15,767
Miscellaneous	6,039	7,246	12,185	9,688
Cash capital improvements	—	—	58,348	47,551

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1974*.

✓ **Table 162.—OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES,
BY OBJECT, FOR COUNTIES: 1973**

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

Subject	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
OPERATING REVENUES				
Total	156,124	24,704	9,726	14,976
Real property taxes	84,481	11,578	3,492	6,291
Other taxes	19,378	2,256	1,047	1,818
Licenses, fees, and permits	6,070	667	218	486
Departmental earnings	7,749	1,144	636	1,055
State grants	7,494	4,267	2,975	3,459
Federal grants	28,185	4,640	1,342	1,795
Other sources	2,767	152	16	71
OPERATING EXPENDITURES				
Total	141,166	21,063	9,053	13,396
General government	14,776	2,443	1,379	1,972
Police and fire	33,141	5,659	2,429	3,649
Other protection	6,545	1,477	377	379
Highways	8,564	2,098	1,375	1,605
Health and sanitation	12,748	603	238	377
Recreation	10,828	1,778	537	1,003
Interest	8,201	1,291	512	1,099
Bond redemption	10,941	718	221	646
Employee retirement	8,525	1,779	641	1,353
Urban redevelopment	10,238	—	—	—
Miscellaneous	6,736	874	1,156	992
Cash cap. improvement	9,921	2,342	188	321

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1974*.

Table 163.—GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1963, 1972 AND 1973

Source of revenue	Tax base (\$1,000)			Tax collections (\$1,000)		
	1963 ¹	1972	1973	1963 ¹	1972	1973
Total	2,730,357	6,964,568	8,248,289	68,207	193,439	230,228
Retailing	928,895	2,213,704	2,560,799	31,779	88,523	102,422
Services	231,777	578,260	697,419	8,019	23,129	27,894
Contracting	265,223	695,939	904,629	9,252	27,835	36,185
Theater, amuse., etc.	22,919	53,108	60,079	798	2,124	2,402
Interest	22,838	41,559	52,734	794	1,662	2,109
Commissions	42,945	120,218	151,882	1,493	4,808	6,075
Hotel rentals	208,073	227,058	264,519	7,166	9,075	10,581
Other rentals		422,895	496,928		16,916	19,877
Consumption	32,713	—	—	1,144	—	—
Use (4%)	—	74,993	87,248	—	3,000	3,490
All others	29,184	70,751	86,949	959	2,830	3,478
Public utility airlines	17,804	—	—	623	—	—
Insurance solicitors	8,555	27,068	22,056	128	541	441
Sugar processing	146,761	205,962	213,095	1,621	1,030	1,065
Pineapple canning	99,353	124,265	123,597	1,282	621	618
Producing	57,840	79,944	95,912	288	400	480
Manufacturing	170,501	307,833	356,023	846	1,539	1,780
Blind vendors	348	1,372	1,681	2	7	8
Wholesaling	396,462	1,002,214	1,220,818	1,933	5,011	6,105
Services (intermediary)	14,662	33,096	35,097	75	165	175
Compensating	33,502	—	—	170	—	—
Use (½%)	—	684,328	816,823	—	3,422	4,084
Payment of est. tax less credit	—	—	—	—	3	-4
Disaster refunds	—	—	—	-465	—	—
Penalties and interest	—	—	—	300	797	961

¹General excise, consumption, and compensating tax.

Source: Hawaii State Department of Taxation, *General Excise and Use Tax Base and General Excise and Use Tax Collections* (annual).

Table 164.—REAL PROPERTY TAX VALUATIONS AND TAX RATES: 1965 AND 1973
(In thousands of dollars)

Subject	Jan. 1, 1965: State total	July 1, 1973, by county				
		State total	Honolulu	Maui	Hawaii	Kauai
Number of parcels	208,339	290,512	141,651	26,633	109,809	12,419
Assessor's gross valuation	4,574,005	10,762,052	8,685,121	692,585	1,036,272	348,074
Land	2,752,196	5,884,121	4,633,607	381,640	656,109	212,765
Improvement	1,821,809	4,877,931	4,051,514	310,945	380,163	135,309
Exemptions	1,795,749	3,903,616	3,341,877	174,972	301,922	84,845
Federal	631,701	936,845	922,566	1,971	8,098	4,210
State	411,965	1,065,431	870,636	35,741	138,903	20,151
County	232,250	341,196	297,893	22,701	12,658	7,944
Hawaiian Homes Commission	4,909	12,178	3,022	1,966	6,446	744
Homes, fee	225,920	780,732	557,643	78,303	103,604	41,182
Homes, leasehold	48,843	248,535	242,900	1,492	3,396	747
Public utilities	56,214	74,801	64,596	4,464	4,604	1,137
All other ¹	183,947	443,898	382,621	28,334	24,213	8,730
Assessor's net taxable valuation	2,778,256	6,858,436	5,343,244	517,613	734,350	263,229
Net taxable valuation ²	2,749,162	6,807,565	5,304,286	510,004	734,214	259,061
Amounts to be raised	48,233	120,389	94,842	7,926	13,492	4,129

¹Religious, charitable, educational, hospital, etc.

²After allowance for appeals (1,612 in 1965 and 1,089 in 1973).

Source: Hawaii State Department of Taxation, annual releases and records.

Table 165.—INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1919 TO 1971
(By year in which income was earned. Not precisely comparable among all years, due to changes in law, return forms, and other factors.)

Income classes ¹	1919	1929	1933	1939	1949	1959	1969	1971
All returns	8,136	8,210	10,835	22,699	182,803	225,050	290,251	308,814
No adjusted gross income	—	—	—	—	—	(NS)	(NS)	—
Under \$1,000	—	614	1,335	1,092	26,170	26,210	40,027	31,778
\$1,000, under \$2,000	2,529	1,944	3,995	8,679	40,598	34,335	25,687	24,397
\$2,000, under \$3,000	2,530	1,595	2,387	5,327	54,707	34,047	27,398	12,655
\$3,000, under \$4,000	1,418	1,208	1,443	3,328	30,620	31,262	19,036	19,351
\$4,000, under \$5,000	721	936	496	1,824	11,607	22,094	17,030	19,173
\$5,000, under \$6,000	209	461	320	793	} 15,333	19,025	10,998	15,968
\$6,000, under \$7,000	154	292	193	447		14,059	18,094	(NS)
\$7,000, under \$8,000	90	217	130	262		12,466	10,887	24,220
\$8,000, under \$9,000	66	140	109	186	} 15,333	8,059	10,431	14,900
\$9,000, under \$10,000	59	119	69	125		6,110	12,793	22,016
\$10,000, under \$15,000	136	289	140	305	2,326	11,803	52,871	56,769
\$15,000, under \$20,000	59	117	68	116	579	2,253	26,806	32,635
\$20,000, under \$25,000	40	79	33	78	348	941	10,239	16,697
\$25,000, under \$30,000	16	34	32	39	199	} 1,444	3,953	6,747
\$30,000, under \$50,000	51	86	43	55	196		2,380	4,654
\$50,000, under \$100,000	47	51	35	38	95	323	1,317	1,691
\$100,000 and over	11	28	7	5	25	83	295	353
Median income (dollars)	2,608	2,970	2,037	2,296	2,450	3,556	6,273	8,138

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).

**166.—STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1971, BY
ADJUSTED GROSS INCOME CLASS**

Adjusted gross income class	Number of returns ¹	Adjusted gross income ² (\$1,000)	Net taxable income (\$1,000)	Tax liability (\$1,000)
All returns	306,959	2,825,713	1,839,574	115,931
Taxable returns	246,691	2,708,686	1,804,963	114,120
\$500, under \$1,000	7,899	6,859	1,034	23
\$1,000, under \$2,000	21,692	32,070	13,733	351
\$2,000, under \$3,000	15,266	37,895	20,832	690
\$3,000, under \$4,000	13,410	47,001	27,077	1,094
\$4,000, under \$5,000	13,300	60,028	35,700	1,593
\$5,000, under \$6,000	14,066	77,538	48,186	2,330
\$6,000, under \$8,000	26,310	184,267	115,603	5,997
\$8,000, under \$10,000	24,373	219,141	136,389	7,385
\$10,000, under \$15,000	50,745	627,544	409,993	23,622
\$15,000, under \$20,000	30,208	520,870	349,722	22,002
\$20,000, under \$25,000	14,830	328,496	229,352	15,628
\$25,000, under \$30,000	6,678	181,621	130,620	9,390
\$30,000, under \$50,000	5,914	216,803	159,515	12,449
\$50,000, under \$75,000	1,278	76,232	56,863	4,913
\$75,000, under \$100,000	371	31,648	24,547	2,266
\$100,000, under \$150,000	221	26,112	19,563	1,849
\$150,000 and over	130	34,561	26,233	2,538
Nontaxable returns	40,908	49,356	—	—
Loss	832	-4,664	—	—
Under \$500	17,157	4,250	—	—
\$500, under \$1,000	11,668	7,767	—	—
\$1,000, under \$2,000	4,430	6,552	—	—
\$2,000, under \$3,000	3,133	7,799	—	—
\$3,000, under \$4,000	1,064	3,646	—	—
\$4,000, under \$5,000	925	4,107	—	—
\$5,000 and over	1,699	15,245	—	—
Nonresident returns	19,360	67,671	34,611	1,810

¹The median adjusted gross income for taxable returns was \$8,936 (\$4,263 for single returns and \$13,497 for joint returns); for taxable and non-taxable returns combined, it was \$7,366 (\$2,962 for single returns and \$12,685 for joint returns).

²Totals and subtotals exclude losses.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns 1971, Individuals* (April 1974), pp. 5 and 16.

**Table 167.—ESTATE TAX RETURNS FILED WITH
THE INTERNAL REVENUE SERVICE: 1970**

(Returns must be filed for decedents with assets in their estates at death over \$60,000, whether or not any estate tax is due. For the nation as a whole, 66.5 percent of the decedents for whom returns were filed in 1970 died during 1969. The total number of Hawaii residents who died in 1969 was 4,089.)

Subject	Amount
Number of returns filed	319
Total estate (\$1,000)	63,608
Economic estate (\$1,000)	57,558
Total deductions (\$1,000)	43,509
Funeral expenses	405
Executors' commissions	696
Attorneys' fees	941
Other expenses and losses	738
Taxable estate:	
Number of returns	209
Amount (\$1,000)	32,205
Estate tax after credits:	
Number of returns	201
Amount (\$1,000)	8,043

Source: U.S. Department of the Treasury, Internal Revenue Service, *Statistics of Income—1969, Estate Tax Returns* (Publication 764, 7-72), p. 26.

✓ **Table 168.—FEDERAL OUTLAYS IN HAWAII, BY AGENCY: FISCAL 1973**

Agency	Outlay (dollars)
State total	1,435,340,839
Department of Agriculture	31,139,318
Department of Commerce	6,865,953
Department of Defense	806,565,000
Department of Health, Education and Welfare	247,895,643
Department of Housing and Urban Development	14,103,906
Department of the Interior	10,091,434
Department of Justice	5,901,036
Department of Labor	22,534,883
Department of State	4,294,181
Department of Transportation	94,370,343
Treasury Department	59,210,634
Action	1,228,748
Agency for International Development	2,697,041
Atomic Energy Commission	1,224,144
Civil Service Commission	43,087,836
Environmental Protection Agency	1,173,049
Federal Communications Commission	146,707
General Services Administration	4,283,213
National Aeronautics and Space Administration	2,098,676
National Foundation on Arts and Humanities	540,792
Office of Economic Opportunity	2,109,355
Postal Service	26,347,338
Railroad Retirement Board	976,713
Small Business Administration	718,660
U.S. Information Agency	7,183
Veterans Administration	40,925,810
Water Resources Council	52,600
American Battle Monuments Commission	8,581
Federal Mediation and Conciliation Service	60,565
Federal Trade Commission	34,862
National Labor Relations Board	114,067
National Science Foundation	4,169,426
Selective Service System	359,016
Tennessee Valley Authority	4,126

Source: Office of Economic Opportunity, *Federal Outlays in Hawaii, Fiscal Year 1973* (FIXS-73-12).

✓ **Table 169.—FEDERAL OUTLAYS IN HAWAII, BY FUNCTION:
FISCAL 1973**

Function	Outlay (dollars)
State total	1,435,340,839
Department of Defense-Military	806,565,000
Atomic Energy	1,224,144
Defense-Related Activities	359,016
Conduct of Foreign Affairs	4,253
Economic and Financial Assistance	3,925,789
Foreign Information and Exchange Activities	4,297,111
Space Research and Technology	2,098,676
Farm Income Stabilization	10,230,197
Rural Housing and Public Facilities	254,131
Agricultural Land and Water Resources	1,033,767
Research and Other Agricultural Services	3,443,922
Water Resources and Power	692,495
Land Management	271,118
Pollution Control and Abatement	1,173,049
Recreational Resources	8,815,199
Other Natural Resources Programs	971,630
Air Transportation	30,460,313
Water Transportation	15,377,076
Ground Transportation	48,520,468
Postal Service	26,347,338
Advancement of Business	7,179,099
Area and Regional Development	418,000
Regulation of Business	181,569
Community Planning, Management, & Development	11,628,507
Low and Moderate Income Housing Aids	4,551,754
Elementary and Secondary Education	19,760,098
Higher Education	5,490,033
Vocational Education	2,443,897
Education Revenue Sharing	890,800
Other Education Aids	6,455,890
Manpower Training and Employment Services	10,444,197
Other Manpower Aids	614,170
Health	4,137,415
Development of Health Resources	10,268,076
Providing or Financing Medical Services	36,907,115
Prevention and Control of Health Problems	292,028
Retirement and Social Insurance	166,410,099
Public Assistance	61,195,505
Social and Individual Services	8,178,631
Income Security for Veterans	18,470,707
Veterans Education, Trng., and Rehabilitation	18,828,365

(Continued on next page)

**Table 169.—FEDERAL OUTLAYS IN HAWAII, BY FUNCTION:
FISCAL 1973 (continued)**

Function	Outlay (dollars)
Hospital and Medical Care for Veterans	2,557,427
Other Veterans Benefits and Services	1,077,892
Interest on the Public Debt	21,903,565
Interest on Refunds of Receipts	741,772
Central Fiscal Operations	6,594,019
General Property and Records Management	4,283,213
Central Personnel Management	1,499,990
Law Enforcement and Justice	6,164,892
Other General Government	112,818
General Revenue Sharing	29,594,604

Source: Office of Economic Opportunity, *Federal Outlays in Hawaii, Fiscal Year 1973* (FIXS-73-12).

✓ **Table 170.—PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1949 TO 1973**
(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	1,219.4	951.8	267.5
1950	63.9				
1951	69.2	State	944.1	944.1	—
1952	84.0	General Fund	517.4	517.4	—
1953	96.8	Highway Fund	93.7	93.7	—
1954	102.2	Airport Fund	26.4	26.4	—
1955	106.7	Harbor Fund	15.3	15.3	—
1956	143.2	Dwell. Unit Revolv. Fund	35.0	35.0	—
1957	184.8	Airport revenues ¹	207.4	207.4	—
1958	214.4	Harbor revenues ¹	27.4	27.4	—
1959	273.8	All others ²	21.5	21.5	—
1960	285.6	City and County of Honolulu	212.1	5.2	206.8
1961	306.8	General Fund	131.2	5.2	125.9
1962	312.7	Highway Fund	23.0	—	23.0
1963	386.5	Water Fund	21.7	—	21.7
1964	423.6	Water revenues ¹	23.1	—	23.1
1965	454.1	Others	13.1	—	13.1
1966	412.3	County of Maui	23.9	0.2	23.7
1967	472.9	General Fund	20.4	0.2	20.2
1968	533.8	Others ²	3.5	—	3.5
1969	631.3	County of Hawaii	25.0	2.0	23.0
1970	742.0	General Fund	24.3	1.9	22.4
1971	925.5	Others ²	0.7	0.1	0.6
1972	1,080.4	County of Kauai	14.3	0.3	14.0
1973	1,219.4	General Fund	13.4	0.2	13.1
		Others	0.9	0.0	0.9

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), 1973 (p. 59), and 1974 (forthcoming).

Table 171.—FEDERAL, STATE, AND COUNTY EMPLOYMENT: 1889 AND 1939 TO 1974

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	38,000
1972	79,400	22.6	32,700	35,300	11,400	36,000
1973	78,000	(NA)	31,600	35,300	11,100	51,000
1974: March	78,200	(NA)	30,700	36,900	10,600	(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 (jobs).

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 records, and data on Armed Forces supplied by the U.S. Bureau of Economic Analysis.

WELFARE SERVICES

This section presents data related to governmental programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment and temporary disability insurance; aid to the needy; and maternal, child, and other welfare services. Also included here are selected statistics on vocational rehabilitation, child labor, and the Aloha United Fund.

Total public welfare costs reached \$107 million in fiscal 1973, compared with \$46.6 million in 1970, \$9.3 million in 1960, \$8.1 million in 1950, and \$1.1 million in 1940. Per capita welfare costs, based on the estimated civilian population, rose from \$2.86 in 1940 to \$16.50 in 1960 and \$140 in 1973. About 60 percent of the 1973 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1973 was 66,535, or 8.2 percent of the population of the State at the beginning of the year. The average monthly payment per recipient for public assistance was \$224. Among workers receiving unemployment compensation in 1972, weekly benefits averaged \$65.80. More than 76,000 Hawaii residents were receiving Social Security benefits as of the end of 1972, and over 48,000 were enrolled for Medicare. There were also 6,667 State and County government pensioners in 1972. The Aloha United Fund spent \$4.7 million during that year.

Major data sources include reports and records 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 Employees' Retirement System, and the Aloha United Fund. Section 10 of the *Statistical Abstract of the United States: 1973* presents comparable Mainland data.

Table 172.—SOCIAL WELFARE COSTS: 1939 TO 1973

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
1945	2,058	4.55	368	1,690	392	540	1,126
1950	8,076	16.81	2,276	5,800	880	555	6,641
1955	7,638	16.33	3,518	4,120	974	—	6,664
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	126.48	38,143	56,069	6,324	34,278	53,610
1973	107,237	140.33	43,107	64,130	6,757	35,542	64,938

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 102 (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 173.—PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1940 TO 1973, 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
1945	3,227	5,205	1,764	...	...	...	18.04
1950	9,933	22,577	1,880	...	...	...	25.02
1955	9,087	19,526	985	...	...	...	28.68
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
1973	24,400	66,535	5,341	3,040	4,612	227.11	82.30

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 174.—PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1972 AND 1973
(Years ended June 30)

Program	Total payments (\$1,000)		Number of recipients (monthly average)		Average monthly pay- ment (dollars)	
	1972	1973	1972	1973	1972	1973
All programs	54,651	65,714	20,627	24,400	221	224
Old age assistance	3,281	3,828	2,691	2,984	102	107
Aid to the blind	127	1,399	80	88	133	133
Aid to disabled	3,603	4,165	2,083	2,358	144	147
Aid to families with de- pendent children ¹	35,983	42,994	10,639	15,760	282	281
Child welfare foster care	967	10,684	577	587	140	152
General assistance	10,690	13,518	4,557	5,622	195	200

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

Table 175.—SOCIAL SECURITY RECIPIENTS AND BENEFITS: 1940 TO 1972

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
1972	76,413	10,141	107,125

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 176.—MEDICARE ENROLLMENT AND REIMBURSEMENTS: 1966 TO 1972

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
1972 ³	48,589	20,005,000	47,904	12,277,000	47,052	7,728,000

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.

³Enrollment data as of January 1.

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

Table 177.—UNEMPLOYMENT COMPENSATION: 1960 TO 1974

Calendar year	Total covered workers	Total covered workers as percent of total employed	Total covered wages (\$1,000)	Average weekly benefits (dollars)	Maximum benefit amount ¹ (dollars)
1960	199,571	88	858,903	29.54	45
1961	199,352	86	900,830	33.49	55
1962	206,203	88	967,353	36.94	55
1963	210,150	88	1,023,866	37.45	55
1964	217,216	88	1,109,450	38.10	55
1965	228,913	88	1,217,321	39.07	55
1966	241,752	89	1,373,801	43.23	62
1967	251,618	89	1,490,156	48.63	66
1968	264,602	89	1,677,945	48.02	68
1969	284,704	90	1,958,177	51.46	72
1970	302,388	90	2,243,904	58.59	79
1971	309,901	90	2,377,785	63.55	86
1972	321,751	91	2,569,928	65.80	90
1973	(NA)	(NA)	(NA)	67.78	93
1974	(NA)	(NA)	(NA)	(NA)	98

NA Not available.

¹Effective in calendar year 1966, the maximum weekly benefit amount became two-thirds of the Statewide average weekly wages in the preceding fiscal year.

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

Table 178.—HAWAII STATE EMPLOYEES RETIREMENT SYSTEM: 1926 TO 1973

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
1973	44,471	7,343	545,465	37,602	426

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 *48th Annual Report, June 30, 1973* (Publication No. 45), p. 17.

Table 179.—ALOHA UNITED FUND REVENUE AND EXPENDITURES: 1967 TO 1973

Year	Support and revenue (\$)		Expenditures (\$)	
	Total	Campaign contributions ¹	Total	Allocations to agencies
1967 ²	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
1972	4,749,399	5,007,611	4,682,606	4,308,488
1973	4,829,529	5,076,425	4,805,589	4,412,466

¹Before adjustment for uncollective allowance.

²Earliest full year available. The Aloha United Fund was granted status as a non-profit corporation on March 10, 1966, as the successor to the Honolulu Community Chest.

Source: Aloha United Fund, *Annual Report, 1967-1973*.

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

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

There were eight banks with 162 branches, 12 savings and loan associations with 72 branches, and 93 trust companies, industrial loan companies, and small loan companies with 158 branches in Hawaii as of June 30, 1973. Deposits in Island banks reached \$2.4 billion in 1973, compared with \$673 million in 1960, \$123 million in 1940, and \$4.7 million in 1901. Assets of savings and loan associations stood at \$1.3 billion in 1973, more than six times their 1960 level and 173 times as great as in 1940. Eighty-four percent of the households on Oahu had savings accounts in 1972 and 78 percent had checking accounts.

The market value of stocks and bonds traded on the Honolulu Stock Exchange in 1973 amounted to \$1.9 million, the lowest total since 1914. The all-time high was \$25.4 million in 1961.

Life insurance in force in Hawaii at the end of 1972 amounted to \$8.8 billion, triple the figure reported eleven years earlier and forty-two times the 1940 coverage. For all insurance companies doing business in the Islands, Hawaii premiums amounted to \$304 million in 1972 and losses, claims, and benefits paid came to only \$125 million. Oahu fire losses reached an all-time high of \$13 million in fiscal 1972. 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-1973, almost 20,000 corporations and partnerships were registered to do business in Hawaii: 13,288 local (“domestic”) corporations, 2,384 out-of-State (“foreign”) corporations, and 4,263 partnerships. Business units with one or more employees as of the first quarter of 1972 numbered 12,959, including 780 with fifty or more employees. During fiscal 1973, 1,989 new local corporations were formed and 259 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), the Honolulu Fire Department, 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: 1973*.

Table 180.—NUMBER OF FINANCIAL INSTITUTIONS, BY TYPE: 1901 TO 1973

Year	Banks ¹		Savings and loan associations ²		Trust companies ²		Industrial loan companies ²		Small loan companies ²		Insurance companies ³
	Main offices	Branches	Main offices	Branches	Main offices	Branches	Main offices	Branches	Main offices	Branches	
1901 ⁴	8		(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	81
1910	11		(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	93
1920	14	14	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	123
1930	29		(NA)	(NA)	12	(NA)	(NA)	(NA)	(NA)	(NA)	151
1940	7	30	9	—	5	—	32	—	3	—	166
1950	4	44	9	1	5	—	39	—	—	—	203
1960	6	80	10	11	5	3	68	56	7	15	313
1970	7	143	13	51	3	1	79	134	11	35	463
1971	7	149	13	55	4	2	79	141	13	35	479
1972	7	155	12	62	3	3	79	140	10	31	496
1973	8	162	12	72	4	2	80	141	9	15	(NA)

NA Not available.

¹As of December 31, 1920 and June 30 for all other years.

²As of June 30.

³Insurers licensed to do business in Hawaii, as of December 31.

⁴Total for insurance companies refers to 1903, the earliest year available.

Source: *Report of the Treasurer* for 1920 (p.9), 1930 (p. 97), and 1936 (p. 41); Hawaii State Department of Regulatory Agencies, Bank Examination Division and Insurance Division, records.

Table 181.—BANKING: 1901 TO 1973
(In thousands of dollars)

Year	Banks			Savings and loan associations	
	Assets, June 30	Deposits, June 30	Clearings, cal. year	Assets, June 30	Deposits, June 30
1901 .....	...	4,662	...	...	...
1905 .....	...	5,688	...	...	...
1910 .....	...	13,324	...	...	...
1915 .....	...	20,115	...	...	...
1920 .....	...	52,783	...	...	...
1925 .....	...	60,810	...	...	...
1930 .....	...	80,175	...	4,233	...
1936	111,251	94,908	...	4,785	3,910
1940 ¹	137,489	123,296	680,446	7,663	6,452
1945	512,149	493,296	1,710,172	20,733	19,022
1950	400,031	376,456	1,815,958	43,336	36,826
1955	418,498	386,749	2,838,904	99,028	87,245
1960	735,652	672,866	4,959,892	202,200	165,653
1961	843,084	769,200	5,656,596	228,476	188,179
1962	934,438	842,596	6,425,844	263,781	220,120
1963	934,223	838,080	6,842,960	322,674	273,288
1964	991,432	887,057	6,710,284	395,586	322,355
1965	1,081,588	940,834	7,155,161	460,454	365,211
1966	1,201,515	1,001,426	7,585,786	490,130	387,152
1967	1,263,917	1,110,733	7,700,654	514,407	424,005
1968	1,440,891	1,287,166	9,281,829	569,325	480,137
1969	1,669,606	1,499,459	11,190,757	650,398	528,570
1970	1,762,811	1,558,671	13,286,842	730,712	584,017
1971	2,062,194	1,804,545	15,091,524	869,323	716,674
1972	2,252,841	2,000,685	16,839,868	1,085,455	878,334
1973	2,625,855	2,367,682	19,253,017	1,325,331	1,032,679

¹Bank clearings data refer to 1941.

Source: *Report of the Treasurer, 1929-1959*; Department of Regulatory Agencies, Bank Examination Division, records.

✓ **Table 182.—ASSETS AND LIABILITIES OF BANKS AND SAVINGS AND LOAN ASSOCIATIONS:
DECEMBER 31, 1960 TO 1973**
(In thousands of dollars)

Subject	1960	1965	1970	1972	1973
BANKS					
Total assets	813,618	1,155,117	1,917,915	2,429,329	2,743,189
Loans and discounts	400,109	667,133	1,163,467	1,495,600	1,724,736
U.S. govt. and other securities	248,905	282,558	449,642	578,743	606,868
Cash and due from banks	143,400	144,138	215,527	258,012	312,117
Fixed assets	12,105	27,476	43,846	46,223	48,664
Other assets	9,099	33,812	45,433	50,751	50,804
Total liabilities and capital	813,618	1,155,117	1,917,915	2,429,329	2,743,189
Demand deposits	275,452	373,402	608,810	809,912	865,425
Time and other deposits	467,844	632,113	1,088,352	1,384,515	1,584,471
Other liabilities	12,275	62,838	84,695	201,845	260,328
Capital	58,047	86,734	136,057	33,057	32,965
SAVINGS AND LOAN ASSOCIATIONS					
Total assets	210,993	482,067	778,909	1,217,632	1,404,652
Mortgage loans	185,034	423,603	678,688	1,061,068	1,231,323
Other loans	4,713	8,750	14,212	20,341	28,085
U.S. govt. and other securities	10,082	17,418	46,471	74,670	88,946
Fixed assets	2,693	8,361	16,282	20,999	21,638
Cash on hand and in banks	7,940	19,687	12,134	20,409	14,147
Other assets	531	4,248	11,122	20,145	20,513
Total liabilities	210,993	482,067	778,909	1,217,632	1,404,652
Withdrawal shares	175,040	364,036	576,044	886,063	1,040,026
Withdrawable deposits & invest. certificates ...	277	14,034	49,868	71,515	40,003
Reserves	15,728	27,898	37,346	38,784	43,089
Surplus and undivided profits	977	5,718	22,061	41,343	47,747
Other liabilities	18,971	70,381	93,590	179,927	233,787

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

Table 183.—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	84.0	77.9	53.3	—

Source: Hawaii Newspaper Agency, Inc., *Continuing Home Audit, 1972*, as revised.

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Table 184.—INSURANCE PREMIUMS, LIFE INSURANCE IN FORCE, AND STOCKS AND BONDS TRADED: 1903 TO 1973
(In thousands of dollars)

Year	Insurance premiums ¹		Life insurance in force, Dec. 31 ²	Market value of stocks and bonds traded on Honolulu Stock Exchange
	Total	Life ²		
1903	914	452	(NA)	1,038
1910	1,391	528	14,857	10,128
1915	1,872	785	21,924	6,629
1920	5,071	1,872	45,164	21,890
1925	6,073	3,108	79,073	11,526
1930	7,939	4,675	123,978	7,852
1935	8,488	5,218	145,132	8,008
1940	9,861	6,797	211,284	3,677
1945	18,951	11,060	341,010	8,870
1950	35,521	19,247	707,063	5,349
1955	56,319	31,281	1,446,976	8,737
1960	91,387	45,607	2,555,929	11,412
1961	97,782	50,003	2,873,220	25,378
1962	105,597	54,166	3,265,933	20,422
1963	116,263	59,230	3,593,592	20,141
1964	124,287	63,318	3,760,033	15,163
1965	137,331	69,315	4,212,206	14,988
1966	149,321	74,127	4,697,954	11,329
1967	162,102	80,217	5,102,132	16,716
1968	179,236	85,713	5,874,280	13,449
1969	207,184	91,402	6,632,539	11,679
1970	246,986	98,360	7,441,077	8,590
1971	276,707	106,524	8,127,837	5,533
1972	303,954	115,491	8,788,361	3,986
1973	(NA)	(NA)	(NA)	1,896

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.

²Data for 1962 and later years include fraternal.

Source: *Report of the Insurance Commissioner, 1903-1973*; Honolulu Stock Exchange, records.

Table 185.—INSURANCE: 1972

Class of insurance	Premiums (\$1,000)	Losses, claims, and bene- fits paid (\$1,000)	Subject	Amount (\$1,000)
Total	303,954	124,502	Life insurance	
Life, excluding annuities	115,269	44,642	Written or transferred	1,484,039
Fraternal	222	19	In force, Dec. 31	8,788,361
Fire, marine, casualty & misc.	186,721	79,650	Premiums received	115,491
Accident and health	29,097	14,718	Claims and benefits paid	44,661
Fire	9,620	3,276		
Allied lines	4,532	605	Insurance other than	
Homeowners multiple peril	11,375	3,042	life	
Priv. pass. auto liability	44,532	20,826	Direct premiums written	186,721
Comm. auto liability	12,099	7,481	Direct premiums earned	173,890
Priv. pass. auto phys. damage	18,895	7,136	Direct losses paid	79,650
Comm. auto phys. damage	2,839	1,197	Direct losses incurred	87,305
Workmen's compensation	22,471	12,197		
Liability other than auto	13,906	4,460		
Glass	286	94		
Burglary and theft	993	280		
Boiler and machinery	527	113		
Fidelity and surety	4,902	1,512		
Ocean marine	2,925	1,447		
Inland marine	4,129	991		
All other	3,595	275		
Surplus lines	1,742	190		

Subject	Insurance companies authorized in Hawaii (\$1,000) ¹			
	All companies	Domestic	Foreign	Alien
Assets	263,083,610	159,049	258,820,000	4,104,561
Liabilities exc. capital and surplus	230,154,308	104,987	226,586,683	3,462,637
Policyholder's surplus inc. capital	32,929,302	54,061	32,233,317	641,924
Capital	1,889,179	11,520	1,860,204	17,455
Investments in Hawaii, total	1,282,566	54,683	1,191,496	36,388
Mortgage loans (principal indebtedness)	699,641	25,371	654,136	20,135
Collateral loans (amount loaned)	856	856	—	—
State and county bonds ²	142,027	4,307	137,175	545
Utilities, stocks and bonds ²	129,876	6,528	108,458	14,890
Industrials, etc., stocks and bonds ²	295,560	14,187	280,555	818
Real estate ³	14,606	3,433	11,173	—
Balances in Hawaii banks	11,387	8,762	2,477	148

¹Data as of December 31. "Domestic" companies are those based in Hawaii; "foreign," on the Mainland; and "alien," in foreign countries.

²Market value of stocks and bonds.

³Market value less encumbrances.

Source: *Report of the Insurance Commissioner of Hawaii 1973* pp. 7, 8, 16, 20, 34 and 36.

Table 186.—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 187.—FIRE LOSSES RECORDED BY THE HONOLULU FIRE DEPARTMENT: 1867 TO 1973

(Records appear to be incomplete prior to 1920. Excludes most fires on military bases and some fires in rural areas. Data refer to calendar years through 1960 and years ended June 30 thereafter. Losses in thousands of dollars.)

Year	Loss	Year	Loss	Year	Loss
1867 ¹	1	1914	36	1950	712
1877 ²	65	1915	82	1951	396
1878	33	1916	47	1952	831
1882	1	1917	33	1953	464
1883	10	1918	50	1954	1,278
1884	36	1919	242	1955	555
1885	70	1920	88	1956	505
1886 ³	272	1921	169	1957	1,130
1887	16	1922	96	1958	1,043
1888	44	1923	131	1959	1,875
1889	12	1924	277	1960	773
1890	44	1925	100	1961	...
1891	109	1926	198	1962	1,343
1892	11	1927 ⁵	75	1963	1,252
1893	1	1928	69	1964	1,442
1894	8	1929	381	1965	1,631
1895	28	1930 ⁶	143	1966	1,809
1896	49	1931	47	1967	4,016
1897	6	1932	60	1968	3,771
1898	31	1933	85	1969	3,677
1899	10	1934	52	1970	4,531
1900 ⁴	27	1935	59	1971	5,032
1901	260	1936	62	1972	3,527
1902	212	1937	68	1973	12,962
1903	134	1938	75		
1904	91	1939	55		
1905	35	1940	116		
1906	32	1941 ⁷	392		
1907	38	1942	102		
1908	24	1943	196		
1909	15	1944 ⁸	339		
1910	45	1945	468		
1911	83	1946	307		
1912	31	1947	341		
1913	86	1948	545		
		1949	961		

¹Earliest year available. The Honolulu Fire Department was established by an ordinance which became effective January 11, 1851.

²Recorded figure for Esplanade fire, December 18, 1877. According to the *Pacific Commercial Advertiser* of December 22, 1877, however, the total loss amounted to \$258,700, of which \$63,100 was insured.

³Includes estimated loss of \$214,000 in the Chinatown fire of April 18, 1886. According to H.A. Smith, "The Honolulu Fire Department," *Hawaiian Annual for 1932*, pp. 49-55, however, the loss from this fire exceeded \$1,455,000.

⁴Apparently excludes the Chinatown fire of January 20, 1900. This fire resulted in claims for losses amounting to \$3,175,132.90, of which \$1,473,173 was awarded (H.A. Smith, *op. cit.*).

⁵Excludes \$200,000 barracks fire at Luke Field, February 1927 (*Honolulu Advertiser*, February 15, 1927).

⁶Excludes loss resulting from burning of S.S. *City of Honolulu* at its berth in Honolulu Harbor, May 25, 1930.

⁷Excludes fire losses on military reservations resulting from the Pearl Harbor attack, December 7, 1941.

⁸Excludes fire losses from West Loch explosions, May 21, 1944.

⁹Preliminary.

Source: Honolulu Fire Department, *Annual Report*, 1930-1972, and records.



Table 188.—REGISTERED CORPORATIONS AND PARTNERSHIPS: 1860 TO 1974
(Excludes eleemosynary corporations)

Year ¹	Domestic (Hawaii) corporations ²			Foreign (non-Hawaii) corporations			Partnerships		
	Formed	Dissolved or merged	On record, end of period	Qualified	Withdrew, merged, or cancelled	On record, end of period	Registered	Dissolved or cancelled	On record, end of period
1860	—	—	1	—	—	—	—	—	—
1865	—	—	2	—	—	—	—	—	—
1870	—	—	2	(NA)	(NA)	(NA)	—	—	—
1875	2	—	4	(NA)	(NA)	(NA)	—	—	—
1880	9	—	24	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1885	12	—	69	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1890	12	—	94	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1895	10	—	143	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1900 ³	(NA)	(NA)	363	(NA)	(NA)	24	(NA)	(NA)	(NA)
1906	30	(NA)	496	(NA)	(NA)	125	(NA)	(NA)	(NA)
1910	53	6	628	(NA)	(NA)	124	(NA)	(NA)	(NA)
1915 ⁴	32	10	787	(NA)	(NA)	152	(NA)	(NA)	(NA)
1920	80	36	719	(NA)	(NA)	155	(NA)	(NA)	(NA)
1925	56	14	851	(NA)	(NA)	180	(NA)	(NA)	(NA)
1930	92	49	870	(NA)	(NA)	214	(NA)	(NA)	(NA)
1934 ⁵	66	70	944	(NA)	(NA)	67	(NA)	(NA)	355
1940	(NA)	(NA)	929	3	2	68	166	123	584
1945	(NA)	(NA)	767	(NA)	(NA)	84	(NA)	(NA)	1,951
1950	(NA)	(NA)	1,491	(NA)	(NA)	167	(NA)	(NA)	2,637
1955	(NA)	(NA)	1,979	(NA)	(NA)	311	(NA)	(NA)	2,145
1960	977	183	4,139	131	20	640	464	314	2,153
1961	839	184	4,794	159	27	772	425	312	2,276
1962	726	220	5,300	130	58	844	377	298	2,355
1963	689	200	5,789	103	80	867	371	395	2,331
1964	854	234	6,409	143	114	896	355	500	2,186
1965	965	294	7,080	132	30	998	328	276	2,238
1966	957	471	7,566	142	88	1,052	343	278	2,303
1967	813	383	7,996	178	99	1,131	376	547	2,132
1968	984	624	8,356	199	82	1,248	389	325	2,196
1969	1,177	498	9,035	297	53	1,492	524	512	2,492
1970	1,392	672	9,755	303	61	1,734	228	254	2,750
1971	1,411	563	10,603	266	61	1,939	717	307	3,160
1972	1,602	647	11,558	283	68	2,154	881	305	3,736
1973	1,989	259	13,288	300	70	2,384	879	352	4,263
1974	2,016	259	14,666	276	56	2,604	1,072	344	5,679

NA Not available.

¹Calendar years before 1900; years ended June 30, 1900 and thereafter. The first eleemosynary corporation was registered in 1849; the first non-eleemosynary corporation, in 1859; the first foreign corporation, in 1868; and the first partnership, in 1880.

²Data for 1860-1885 refer to corporations still in existence in 1886; data for 1890, to those still in existence in 1894.

³Data for foreign corporations refer to 1902.

⁴Data for 1915 and earlier years include many defunct corporations, which were deleted from later totals under the provisions of Act 57, Laws of 1915.

⁵The figure for partnerships refers to 1935, the earliest year available.

Source: *Report of the Minister of the Interior* for 1886, 1894 and 1895; *Report of the Governor* for 1900-1910; *Report of the Treasurer* for 1911-1959; *Report of the Department of Treasury and Regulation* for 1960-1962; *Report of the Department of Regulatory Agencies* for 1963-1968, and records.

Table 189.—CHARACTERISTICS OF BUSINESS UNITS: 1946 TO 1972

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
1972	222,207	383,974	12,959	5,332	2,778	2,725	1,344	434	245	69	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 190.—CHARACTERISTICS OF BUSINESS UNITS: 1972

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	222,207	383,974	12,959	5,332	2,778	2,725	1,344	434	245	69	32
Counties:											
Hawaii	16,751	26,326	1,322	537	333	286	106	37	16	7	—
Honolulu	184,342	327,842	9,801	3,931	2,022	2,086	1,103	366	208	55	30
Kalawao	36	39	1	—	—	—	1	—	—	—	—
Kauai	7,553	10,635	506	226	118	98	40	8	12	4	—
Maui	11,288	15,515	834	325	202	194	76	23	9	3	2
Statewide	2,237	3,617	495	313	103	61	18	—	—	—	—
Major industry group:											
Agric. services, forestry, fisheries	1,045	1,367	142	57	43	32	9	1	—	—	—
Mining	509	1,168	10	2	2	1	—	3	2	—	—
Contract construction	22,068	61,075	1,194	419	270	260	146	60	34	4	1
Manufacturing: food & kindred products	12,364	20,916	192	25	39	53	30	16	18	6	5
Manufacturing, except food	13,129	26,028	476	114	91	109	96	43	15	7	1
Transportation & other public utilities	22,937	55,063	492	136	91	103	90	34	24	8	6
Wholesale trade	14,956	31,562	1,107	397	251	278	131	32	14	4	—
Retail trade	55,785	63,216	3,232	996	703	901	445	115	56	9	7
Finance, insurance, and real estate	19,815	37,139	1,622	968	288	196	94	43	22	9	2
Services: hotels and other lodging places	14,520	18,127	195	47	28	32	39	19	15	9	6
Services, except hotels	42,624	65,445	3,822	1,907	864	675	246	68	45	13	4
Unclassified establishments	2,455	2,868	475	264	108	85	18	—	—	—	—

Source: U.S. Bureau of the Census, *County Business Patterns, 1972. Hawaii*. CBP-72-13.

Table 191.—CORPORATIONS AND PROPRIETORSHIPS: 1971

Subject	Amount
CORPORATIONS	
Number of active corporations	8,071
Taxable	4,390
Nontaxable	3,681
Business receipts (\$1,000)	5,685,632
Taxable corporations	3,904,508
Nontaxable corporations	1,781,124
Taxable income, excluding net losses (\$1,000)	216,164
PROPRIETORSHIPS	
Number of businesses	29,598
With net profit	21,886
With net loss	7,712
Business receipts (\$1,000)	612,538
Businesses with net profit	561,367
Businesses with net loss	51,172
Net profit (\$1,000)	138,539
Net loss (\$1,000)	13,913

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns 1971, Corporations* (1974), pp. 3, 8 and 16, and *Proprietorships* (1974), pp. 3, 6, 7 and 16.

✓ COMMUNICATIONS, POWER, AND SCIENCE

This section presents statistics relating to postal services, telephones, telegraphs, radio, television, and newspapers; electrical, gas and petroleum power and energy; and scientific resources.

Hawaii is served by all communications media. The most recent statistics indicate 77 post offices, 524,000 telephones, 33 radio stations, 12 television stations, and seven daily newspapers.

Electricity sales exceeded 4.5 billion kilowatt-hours in 1972, or 7,400 per residential customer. Manufactured gas sales totaled 33.3 million therms.

The liquid fuel tax base for 1973 was approximately 883 million gallons, compared with 828 million in 1972 and 250 million in 1960. The 1973 total included 281 million gallons of gasoline, 512 million of aviation fuel, and 86,000 of diesel oil.

The State is 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 Communication Commission, Federal Power Commission, Hawaii State Public Utilities Commission, individual utility companies, and Audit Bureau of Circulations. Detailed statistics on energy consumption, with special emphasis on petroleum products, appear in *Energy Use in Hawaii*, published by the Department of Planning and Economic Development in 1974. Data for the nation as a whole can be found in the *Statistical Abstract of the United States: 1973*, Sections 18, 19, and 20.

Table 192.—POSTAL SERVICE: 1851 TO 1973

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	80	21,976	201,000
1972	89	23,434	215,102
1973	77	27,100	226,416

NA Not available.

¹Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations. Total for 1858-1860 refers to 1859; 1874-1876, to 1875; 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; *Hawaiian Annual for 1924*, p. 44.

✓ **Table 193.—TELEPHONES IN SERVICE, TELEPHONE CALLS, AND TELEGRAPH MESSAGES: 1880 TO 1973**

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	419,188	...
1972	498,593	412,443	702,346	3,072,319	5,427,667	392,596	...
1973 ⁶	523,699	430,612	1,016,950	3,754,413	6,813,550	385,823	...

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, and including transit messages. In 1972, a total of 189,214 messages were sent from Hawaii to the U.S. Mainland (122,792 originating in Hawaii), and 203,382 from the U.S. Mainland to Hawaii: (141,682 originating on the U.S. Mainland). 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.

⁴Telegraph data refer to 1936, the earliest year available.

⁵Data on local telephone calls refer to 1941, the earliest year available.

⁶Sharp increase in completed local calls attributable in part to a change in the method of estimation.

Source: Hawaiian Telephone Co., records; Federal Communications Commission, records.

Table 194.—TELEPHONE SERVICE, BY ISLAND: 1973

Island	Telephones in service	Telephone main stations			Inter- island calls completed	Trans- pacific paid calls ¹
		Residence	Business	Centrex		
State total	523,699	231,146	63,294	12,248	3,804,616	3,794,848
Hawaii	44,407	20,182	4,849	460	} 1,888,914	195,484
Maui	27,444	13,061	3,154	273		193,529
Lanai	785	565	101	—		
Molokai	1,991	1,264	277	—		
Oahu ²	430,612	187,403	52,766	11,215		
Kauai ³	18,460	8,671	2,147	300	358,066	87,522

¹Hawaii originating only.

²Includes Defense Agency Telephone Service (32,430 telephones in service, 16,907 business main stations).

³December Direct Distance Dialing messages included with Oahu.

Source: Hawaiian Telephone Co., records.

✓ Table 195.—COMMERCIAL AND EDUCATIONAL RADIO AND TELEVISION BROADCAST STATIONS ON THE AIR AND DAILY NEWSPAPER CIRCULATION: 1912 TO 1974

d 195 A

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	74,799	129,561	14,952
1974	25	7	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 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 daily (but not Sunday) editions of the three English-language dailies. Data prior to 1935 are October 1 figures supplied by the publishers to the U.S. Post Office; Tribune-Herald data for 1940-1972 are October-December averages compiled by the Audit Bureau of Circulations; data for the Advertiser and Star-Bulletin beginning in 1935 and the Tribune-Herald beginning in 1973 are April-September Audit Bureau of Circulations averages. 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 196.—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 197.—CABLE TELEVISION SUBSCRIBERS: DECEMBER 31, 1970 TO 1973**

Year (Dec. 31)	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1970 ¹	12,091	11,066	—	—	1,025
1971	13,718	12,581	—	37	1,100
1972	16,887	14,732	—	478	1,677
1973	21,826	18,315	501	950	2,060

¹Earliest year available. The first CATV company in Hawaii began operation on Oahu in April 1961. State regulation of CATV was provided for by Act 112, S.L.H. 1970, effective June 19, 1970.

Source: Hawaii State Department of Regulatory Agencies, CATV Division, records.

Table 198.—POSTAGE, TELEPHONE, AND TELEGRAPH RATES AND NEWSPAPER PRICES: 1860 TO 1974
(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
1973	0.08	0.08	0.11	0.10	0.97	4.25	10.63	...	0.21	0.15	0.35
1974	0.10	0.10	0.13	0.10	0.97	3.40	10.53	...	0.21	0.20	0.45

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 operator-handled daytime calls, first three minutes, including tax. Data for 1930 refer to rates at initiation of service, late in 1931. With direct dialing, the 1974 rate to San Francisco was \$2.59.

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 mastheads.

Table 199.—ELECTRIC UTILITIES: 1901 TO 1972

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
1972	201,903	34,406	4,562,568	1,493,840	3,068,728	7,399	89,192	.02849	.02172	1,135,055

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 200.—ELECTRIC UTILITIES, BY ISLAND: 1972

Island	Customers, Dec. 31		1,000 KWH sold			Ave. ann. use (KWH)		Ave. rate (dollars/KWH)		Installed capacity (KW)
	Residential	Other	Total	Residential	Other	Residential	Other	Residential	Other	
State total	201,903	34,406	4,562,568	1,493,840	3,068,728	7,399	89,192	.02849	.02172	1,135,055
Oahu	156,249	24,545	3,942,679	1,241,998	2,700,680	7,949	110,030	.02584	.01903	963,000
Hawaii	20,065	4,674	279,080	111,621	167,459	5,563	35,828	.04276	.03972	93,179
Maui	14,980	3,063	202,288	86,431	115,858	5,770	37,825	.03775	.04146	44,279
Kauai	9,223	1,698	121,226	44,830	76,396	4,861	44,991	.04655	.04321	26,875
Molokai	1,386	426	17,296	8,960	8,336	6,465	19,567	.03792	.06189	7,722

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Commission, records.

Table 201.—GAS UTILITIES: 1910 TO 1972

(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
1972	31,806	4,277	33,322	9,321	24,000	293	5,612	.36843	.22681	2,400

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 202.—GAS UTILITIES, BY ISLAND: 1972
(Excludes bottled gas)

Island	Customers		Gas sold (1,000 therms)			Ave. ann. use (therms)		Average rate (dollars per therm)		Installed capacity ¹
	Residential	Other	Total	Residential	Other	Residential	Other	Residential	Other	
State total	31,806	4,277	33,322	9,321	24,000	293	5,612	0.36843	0.22681	...
Oahu	29,256	4,223	31,643	8,258	23,385	282	5,531	0.36404	0.22555	2,400
Hawaii	2,157	19	1,460	977	483	453	25,447	0.39746	0.24783	42,500
Mauai	363	35	210	78	132	215	3,768	0.45504	0.41205	6,000
Kauai	30	—	9	9	—	289	—	0.49798	—	4,000

¹Oahu in 1,000 therms, other islands in gallons liquid.

Source: Hawaii State Department of Regulatory Agencies, Public Utilities Commission, records.

✓ **Table 203.—TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLAND: JANUARY 1974**

Utility and usage	Oahu	Hawaii ¹	Kauai	Maui	Molokai	Lanai
Water:²						
¼ inch meter, 5,000 gal. . . .	4.25	3.75	4.25	4.05	4.05	3.55
¼ inch meter, 10,000 gal. . .	6.10	5.75	6.25	6.10	6.10	5.25
¼ 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	5.55	9.05	8.69	8.22	8.56	7.95
250 kilowatt-hours	9.91	15.76	17.38	15.91	14.26	14.29
500 kilowatt-hours	15.57	24.15	30.05	26.52	22.76	22.67
Gas:						
10 therms	4.84	5.01	6.35	5.44	...	...
25 therms	8.99	10.96	13.06	11.25	...	...
50 therms	15.84	20.04	23.99	20.68	...	...
100 therms	29.84	37.20	46.03	39.72	...	...
Telephone:³						
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 North and South Hilo, North and South Kohala, and Ka'u.

²Oahu rates exclude added sewer system user charges, based on monthly metered water consumption, effective January 1, 1975, as follows:

	Single-family dwelling	Multi-unit bldg., first unit	Multi-unit bldg., each add'l unit
5,000 gallons	6.35	6.35	4.25
10,000 gallons	7.45	7.45	4.47
20,000 gallons or more	7.67	7.67	4.47

³Plus 9 percent Federal excise tax.

Source: Hawaii State Public Utilities Commission; Honolulu Board of Water Supply; Hawaii County Department of Water Supply; Kauai County Department of Water; Maui County Department of Water Supply; Lanai Company.

Table 204.—LIQUID FUEL TAX BASE: 1935 TO 1973
(In thousands of gallons)

Year reported ¹	All types	Gasoline	Diesel oil ²		Liq. pet. gas ²		Aviation fuel	Small boats	
			Non-hwy.	Hwy. use	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1935	38,008	32,772	5,236		...	...	...	...	...
1940	59,369	50,923	8,062		...	...	383	...	...
1945	56,583	44,517	10,849	508	...	...	708	...	...
1950	134,891	87,286	26,710	1,310	...	...	19,586	...	...
1955 ³	163,784	110,213	20,000	2,010	...	...	27,018	4,544	
1960	250,499	138,219	28,134	3,898	...	...	78,890	1,358	
1961	278,428	143,621	31,894	3,783	...	...	97,500	1,629	
1962	299,317	148,934	31,681	4,020	328	108	112,752	233	1,261
1963	317,948	152,347	34,527	4,141	361	101	124,880	248	1,344
1964	357,859	160,786	38,562	4,578	383	115	151,911	278	1,247
1965	395,595	169,670	38,587	5,193	367	119	180,052	251	1,356
1966	481,361	177,627	40,039	5,506	414	122	256,175	238	1,241
1967	572,354	188,717	39,569	5,511	457	139	336,359	250	1,351
1968	619,803	197,663	41,213	6,566	781	253	371,686	227	1,415
1969	743,255	223,088	49,147	7,703	674	242	460,753	226	1,424
1970	754,632	235,178	58,129	8,029	814	274	450,474	214	1,519
1971	809,628	250,191	57,405	8,852	1,044	579	489,767	231	1,559
1972	827,825	261,452	65,163	9,523	1,231	702	487,743	264	1,747
1973	882,932	281,122	74,608	11,159	1,909	453	511,502	280	1,899

¹Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold in a 12-month period ended November 30.

²Liquefied petroleum gas was reported with diesel oil before 1962.

³Because of an accounting error, one large supplier misreported large quantities of non-highway diesel oil as fuel for small boats in 1955.

Source: *Report of the Treasurer* for 1936 (p. 26) and 1942 (p. 32); *Annual Report of the Tax Commissioner . . . 1954*, p. 39; Hawaii State Department of Taxation, "Tax Base for Certain Taxes" and "Comparison of Liquid Fuel Tax Collections & Distribution for Two Years" (annual report).

Table 205.—DOMESTIC DEMAND FOR PETROLEUM PRODUCTS: 1971 AND 1972
(Barrels daily)

Item	Total		Military ¹		All other	
	1971	1972	1971	1972	1971	1972
Total petroleum	85,592	90,480	1,051	2,671	84,541	87,809
Liquefied gases	411	1,249	—	—	411	1,249
Gasoline	16,187	17,440	376	707	15,811	16,733
Motor	15,924	17,161	362	699	15,562	16,462
Aviation	159	172	14	8	145	164
Spec. naphthas, solvents	104	107	—	—	104	107
Jet fuel	32,332	32,688	466	1,612	31,866	31,076
Naphtha-type	1,004	1,825	463	1,601	541	224
Kerosene-type	31,328	30,863	3	11	31,325	30,852
Kerosene	98	82	8	5	90	77
Distillate fuel oil	4,797	5,415	196	347	4,601	5,068
Lubricating oils, greases	290	284	5	—	285	284
Residual fuel oil	30,156	31,735	—	—	30,156	31,735
Asphalt and road oil	798	940	—	—	798	940
All other oils	5	16	—	—	5	16
Still gas	518	631	—	—	518	631

¹Excludes imports and direct shipments.

Source: U.S. Bureau of Mines, "Crude Petroleum, Petroleum Products, and Natural Gas Liquids in P.A.D. District V, Year 1972," *Mineral Industry Surveys*, January 22, 1974, pp. 3-4.

Table 206.—OIL SHIPMENTS TO HAWAII: 1972
(Millions of barrels)

Kind of fuel	All shipments	Domestic	Foreign
All types	44.9	20.2	24.7
Crude petroleum	14.0	0.2	13.8
Jet fuel	8.5	1.3	7.2
Fuel oil	12.7	10.2	2.6
Gasoline	2.6	2.6	—
Kerosene	0.1	0.1	—
Liq. pet. and naphthas	6.9	5.8	1.1

Source: First Hawaiian Bank, *Economic Indicators*, January 1974.

Table 207.—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.

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 474,000 in 1973. Vehicle miles rose during the same period from 716 million to 4.1 billion. Hawaii residents purchased 37,500 new passenger cars in 1972 and scrapped or shipped out approximately 20,500. By the end of 1973, 495,000 licensed drivers had access to more than 3,600 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 25.8 million in 1973.

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 1973, two scheduled airlines and a number of air taxis reported 4.8 million interisland passengers, eleven times their 1950 total.

Similar growth is evident in transpacific travel. Although surface passengers dropped from 95,000 in 1940 to 17,000 in 1973, air passengers increased during the same 33-year span from 639 to 6.6 million. Between 1936 and 1974, sharp declines occurred in both scheduled flight time between California and Hawaii (from 20 to 5 hours) and minimum roundtrip fare (from \$712 to \$225). Overseas cargo received in the State in 1973 amounted to 44,000 tons by air and 8.1 million tons by ship.

Undocumented State-registered vessels as of December 31, 1973 numbered 12,049, compared with 3,081 in 1960. Median length was 16 feet, and almost four-fifths were stored on land. There were also 692 documented vessels in the State in 1973, more than triple the 1960 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors, and Airports Divisions. Other sources include the Federal Highway Administration, 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: 1973*, Sections 21 and 22.

**Table 208.—MILEAGE OF STREETS AND HIGHWAYS, PAVED AND UNPAVED:
1923 TO 1973**

Year ¹	Total	Paved	Unpaved
1923 ²	1,479.0	565.0	914.0
1938 ³	2,040.4	1,367.2	673.2
1958	2,967.45	2,392.61	574.84
1961	3,119.75	2,910.75	209.00
1962	3,159.89	2,943.89	216.00
1963	3,183.50	2,997.90	187.60
1964	3,247.10	3,064.40	182.70
1965	3,308.56	3,129.56	179.00
1966	3,372.96	3,193.96	179.00
1967	3,401.52	3,222.62	178.90
1968	3,442.43	3,258.53	183.90
1969	3,511.60	3,325.60	186.00
1970 ⁴	3,529.10	3,047.10	482.00
1971	3,598.95	3,098.51	500.44
1972	3,611.48	3,117.38	494.10
1973	3,665.84	3,171.58	494.26

¹As of December 31 unless otherwise specified.

²As of September 1.

³"Public and semi-public."

⁴Includes 284.00 miles reclassified from "paved" to "unpaved."

Source: *Hawaii. An Integral Part of the United States* . . . (anon. booklet, 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, letters dated April 14, 1971, January 12, 1973, and March 16, 1973, and records.

Table 209.—MAXIMUM GRADES, HEIGHTS, AND TRAFFIC, FOR STREETS AND HIGHWAYS: 1974

Subject and island	Street or highway	Amount
Steepest streets and highways (percent grade):		
Hawaii	Waipio Valley Road, 1/3-mile below lookout	26.0
	Kuakini Houselot Subdiv. Rd., N. Kona	23.0
	Stainback Hwy., 12 miles from Volcano Rd.	16.0
Maui	Hapapa Road	26.0
	Pulehuiki Rd., off Kula Hwy.	19.6
Lanai	Manele Road	9.4
Molokai	Pano Place	12.0
Oahu	Huali St., below Prospect St., Punchbowl	24.0
	Alencastre St., St. Louis Heights	19.0
	Tantalus Drive and Roundtop Drive	19.0
	Wilhelmina Rise	19.0
Kauai	Kuli Road, Kalaheo	25.7
	Wainiha Powerhouse Road, Haena	19.5
Highest streets and highways (feet above sea level):		
Hawaii	Road to Mauna Kea	13,631
	Saddle Road, 30 1/2 miles from Hilo	6,630
Maui	Haleakala Road	10,000
Lanai	Lanaihale Road	3,370
Molokai	Road to Waikolu	3,600
Oahu	FAA road to Kaala	4,020
	Palehua Road	2,700
Kauai	Kokee Road	4,120
Busiest intersections (vehicles per 24-hour period):¹		
Hawaii	Mamalaho Hwy. and Kamehameha Ave.	22,970
Maui	Kaahumanu Ave. and Kahului Beach Rd.	27,780
Lanai	Not available .....	...
Molokai	Kam V Hwy. and Ala Malama St.	1,200
Oahu	Kamehameha Hwy. and Middle St.	106,400
	Likelike Hwy. and School St.	92,000
	Kapiolani Blvd. and Kalakaua Ave.	74,200
Kauai	Kaumualii, Kuhio, Rice, and Haleka	15,070

¹Oahu data are for 1973, other islands for 1972.

Source: Hawaii State Department of Transportation, Highways Division, records; City and County of Honolulu, Department of Transportation Services, records; County of Hawaii, Department of Public Works, records; County of Kauai, Department of Public Works; County of Maui, Department of Public Works.

Table 210.—HIGHWAY BRIDGES, BY ISLAND: 1974

Island	Longest highway bridge		Highest highway bridge	
	Location	Length (feet)	Location	Height (feet)
Hawaii	Hakalau	775	Nanue, Hilo	208
Maui	Kalialinui	325	Unnamed, Hana Rd.	83
Lanai	Keomuku	25	Not available . . . . .	...
Molokai	Manawainui	325	Not available . . . . .	...
Oahu	Pearl City Viaduct	5,946	Upper Poamoho	88
Kauai	Kalihiwai	798	Wahiawa, Koloa	98

Source: Hawaii State Department of Transportation, Highways Division, records.

Table 211.—SIGNALIZED INTERSECTIONS, PUBLIC OFFSTREET PARKING SPACES, AND PARKING METERS IN OPERATION: 1960 TO 1973

Subject	State operated ¹			County operated ¹		
	1960	1970	1973	1960	1970	1973
Signalized intersections, total	54	89	118	133	253	318
Hawaii	—	—	1	6	13	17
Maui	—	4	10	3	—	—
Lanai and Molokai	—	—	—	—	—	—
Oahu	54	85	107	123	239	298
Kauai and Niihau	—	—	—	1	1	3
Public off-street parking spaces:						
Oahu	(NA)	(NA)	(NA)	1,739	3,810	3,198
Parking meters in operation:						
Oahu	(NA)	(NA)	(NA)	4,701	5,533	5,423

NA Not available
¹As of December 31.

Source: Hawaii State Department of Planning and Economic Development, *Transportation Statistics for Hawaii, 1965* (Statistical Report 35, August 16, 1965), p. 6; City and County of Honolulu, Department of Transportation Services, records; County of Hawaii, Department of Public Works, records; County of Kauai, Department of Public Works, records; County of Maui, Department of Public Works, records.

Table 212.—MOTOR VEHICLE REGISTRATION, FUEL CONSUMPTION, AND VEHICLE MILES: 1900 TO 1973

Year	Motor vehicle registration ¹			Highway fuel consumption ²		Vehicle miles of travel ³	
	Total	Passenger cars	Other motor vehicles ⁴	Total (1,000 gallons)	Gallons per vehicle	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	32,962	654	461.5	9,153
1940	71,596	58,541	13,055	51,112	714	715.6	9,995
1943 ⁵	69,551	56,532	13,019	30,959	445	433.4	6,231
1950	137,917	110,622	27,295	88,596	642	1,240.3	8,993
1955	180,755	153,451	27,304	112,223	621	1,571.1	8,692
1960	230,791	199,829	30,962	142,117	616	1,989.6	8,624
1961	244,898	212,650	32,248	147,404	602	2,063.7	8,428
1962	257,215	225,086	32,129	153,061	595	2,142.9	8,330
1963	270,176	237,422	32,754	156,588	580	2,192.3	8,120
1964	288,452	254,249	34,203	165,479	574	2,316.7	8,036
1965	309,331	273,559	35,772	174,982	566	2,449.8	7,924
1966	323,843	286,836	37,007	183,255	566	2,565.6	7,922
1967	335,326	297,766	37,560	194,368	580	2,721.1	8,114
1968	353,888	315,024	38,864	209,597	592	2,934.4	8,292
1969	373,541	332,213	41,328	225,917	605	3,162.8	8,467
1970	404,463	358,255	46,208	243,482	602	3,408.9	8,428
1971	425,210	375,205	50,005	261,476	615	3,660.7	8,609
1972	446,355	392,179	54,176	268,407	601	3,757.7	8,414
1973	474,178	413,839	60,339	292,734	617	4,098.3	8,643

¹Taxable and non-taxable. Excludes military vehicles, motorcycles, motor scooters, trailers, and semi-trailers.

²Includes gasoline, Diesel oil, and Butane gas.

³Based on an average of 14 miles per gallon.

⁴Ambulances and hearses, buses, trucks, and tractor-trucks.

⁵Lowest year of World War II for highway fuel consumption and vehicle miles, both total and per vehicle.

Source: Robert C. Schmitt, "Automobile Ownership in Hawaii Before 1931: Dates and Data," *Hawaii Historical Review*, January 1968, pp. 426-432; Hawaii State Highway Department, *Annual Traffic Summary, Island of Oahu, 1959* (August 1960), tables II, III, VI and VII; Hawaii State Department of Transportation, Highways Division, annual releases and records.

Table 213.—VEHICLE REGISTRATION AND USE, DRIVERS LICENSES IN FORCE, AND STREET AND HIGHWAY MILEAGE, BY COUNTIES: 1973

Subject	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
Motor vehicles registered	474,178	367,054	48,375	21,767	36,982
Passenger cars	413,839	327,638	38,299	17,766	30,136
Ambulances and hearses	99	66	14	5	14
Buses	1,724	1,249	178	140	157
Trucks	56,002	36,700	9,264	3,683	6,355
Tractor-trucks	1,747	1,089	404	108	146
Other vehicles	767	312	216	65	174
Other vehicles registered:					
Trailers, semi-trailers	15,004	9,559	2,555	1,469	1,421
Motorcycles, motor scooters	10,343	8,709	678	400	556
Bicycles	91,052	79,177	3,947	3,049	4,879
Highway fuel consumption (1,000 gal.)	292,734	225,479	33,012	12,783	21,461
Per motor vehicle (gallons)	617	614	682	587	580
Vehicle miles (millions)	4,098.3	3,156.7	462.2	179.0	300.5
Per vehicle (miles)	8,643	8,600	9,554	8,222	8,124
Drivers licenses in force, Dec. 31	495,043	399,672	42,530	20,033	32,808
Mileage in public sts. and hwy., Dec. 31	3,665.84	1,209.10	1,335.56	318.69	802.49
Paved	3,171.58	1,171.77	1,114.15	292.11	593.55
Unpaved	494.26	37.33	221.41	26.58	208.94
De facto population per motor vehicle ¹	1.86	1.94	1.55	1.62	1.58
Motor vehicles per mile of street or hwy.	129.7	303.6	36.2	68.3	46.1

¹Based on provisional estimates in DPED Statistical Report 102 (April 15, 1974), table 2.

Source: Hawaii State Department of Transportation, Highways Division, records; each County Department of Finance, records; Honolulu Police Department, records.

Table 214.—REGISTERED BICYCLES, BY COUNTY: 1925 TO 1973

Year	State total ¹	City and County of Honolulu	County of Hawaii	County of Kauai ²	County of Maui
1925.....	...	...	...	...	277
1930.....	1,345	780	390	...	175
1935.....	2,625	1,987	361	...	277
1940.....	5,913	4,668	467	...	778
1945.....	8,560	6,732	734	...	1,094
1950.....	11,919	8,154	1,387	...	2,378
1955.....	15,174	11,150	1,913	...	2,111
1960.....	25,880	20,821	2,227	...	2,832
1965.....	28,085	22,283	2,857	...	2,945
1970.....	34,530	28,749	2,489	...	3,292
1971.....	52,485	44,159	2,735	2,141	3,450
1972.....	79,188	68,620	3,766	2,729	4,073
1973.....	91,052	79,177	3,947	3,049	4,879

¹Excludes Kauai before 1971.

²Records for years before 1971 lost in fire.

Source: Compiled by Hawaii State Department of Planning and Economic Development from County Departments of Finance.

Table 215—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 216.—COMPONENTS OF CHANGE IN PASSENGER MOTOR VEHICLE REGISTRATION:
1963 TO 1973**

Year	Number of passenger cars			Out-shipments of automobiles and auto parts (tons) ²
	Net increase ¹	New registrations	Scrapped or shipped out	
1963.....	12,336	19,442	7,106	14,693
1964.....	16,827	23,898	7,071	18,024
1965.....	19,310	27,431	8,121	11,676
1966.....	13,277	28,502	15,225	11,861
1967.....	10,930	28,608	17,678	8,662
1968.....	17,258	33,917	16,659	9,260
1969.....	17,189	39,148	21,959	9,212
1970.....	26,042	36,627	10,585	11,050
1971.....	16,950	35,984	19,034	16,157
1972.....	16,974	37,484	20,510	14,394
1973.....	26,660	41,919	15,259	(NA)

NA Not available.

¹From previous registration year.

²Excludes parts before 1965.

Source: Net increase from Hawaii State Department of Transportation, Highways Division, records; new registrations from Federal Reserve Bank of San Francisco, *Western Economic Indicators* (monthly); outshipment tonnage from U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States* (annual); vehicles scrapped or shipped out computed as residual.

Table 217.—NEW PASSENGER CAR REGISTRATIONS, FOR OAHU: 1960 TO 1973

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.....	5,246
1973.....	35,546	20,748	14,798	41.6	Chevrolet ¹	4,726

¹Other makes with 1,500 or more new passenger car registrations on Oahu during 1973 included: Toyota, 4,652; Datsun, 4,409; Ford, 3,260; Volkswagen, 3,216; Plymouth, 2,800; Dodge, 2,384; Pontiac, 1,695; and Buick, 1,541.

Source: Motor Vehicle Registration—Hawaii, A Division of Cardinal Mailing Services, Ltd., monthly tabulation.

Table 218.—ESTIMATED PRIVATE COST OF OPERATING AN AUTOMOBILE IN HONOLULU: 1972
(Based on a ten-year life span and total mileage of 83,000.)

Type of automobile	Total ten-year cost (dollars)			Average purchase price (dollars)	Miles per gallon
	Amount	Percent of U.S. average ¹	Per mile		
Standard	16,794	124	0.202	5,200	12
Compact	13,713	127	0.165	3,700	15
Sub-compact.....	11,851	120	0.142	3,000	22

¹The average ten-year cost of operating automobiles on the Mainland was based on total mileage of 100,000. Costs per mile as a percent of U.S. averages would thus be even higher than the figures shown here.

Source: *Report to the Seventh Legislature of the State of Hawaii, Regular Session of 1974, Relating to the Interdepartmental Transportation Control Commission, Office of the Governor, State of Hawaii* (February 1974), p. 25.

✓ **Table 219.—MOTOR VEHICLE DEATHS AND TRAFFIC DEATHS, INJURIES, AND MAJOR ACCIDENTS: 1917 TO 1973**

Year	Motor vehicle deaths ¹	Traffic deaths	Traffic injuries	Major traffic accidents ²
1917.....	22	...	...	...
1920.....	41	...	...	...
1925.....	57	...	...	...
1930.....	86	...	...	...
1935.....	74	...	...	...
1940.....	63	...	...	...
1945.....	161	107	...	...
1950.....	65	61	2,112	6,599
1955.....	50	...	...	...
1960.....	117	96	4,754	7,254
1965.....	111	99	7,493	9,495
1966.....	131	116	8,051	10,225
1967.....	149	138	8,707	11,529
1968.....	169	147	10,082	13,989
1969.....	153	133	10,603	16,174
1970.....	165	153	11,743	18,172
1971.....	172	154	10,934	18,048
1972.....	156	146	11,141	18,259
1973 (prov.).....	148	136	11,860	19,544

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*, (annual) and records; Hawaii State Department of Health, records.

Table 220.—BUS, STREETCAR, AND RAILWAY REVENUE PASSENGERS: 1891 TO 1973

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 ³	18,301,341	—	—	—
1968	23,514,205	—	—	—
1969	24,079,233	—	—	—
1970	23,693,547	} 341,882	—	341,882
1971 ³	17,861,774		—	—
1972	22,752,670	(NA)	—	(NA)
1973	25,835,814	(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 exclude senior citizens carried without charge (4,163,482 in 1973), revenue zone passengers (293,683), school subsidy passengers (77,926), and charter service (31,653). Figures for 1972 include contracted services for Windward, North Shore, and Waianae Coast from January 1 to August 12, 1972.

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; Department of Transportation Services, records; Lahaina, Kaanapali & Pacific Railroad, records.

Table 221.—AIRLINE AND SHIP REVENUE PASSENGERS: 1860 TO 1973

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 (NA)		
1945	13,217	(NA)	(NA)	170,437			
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	—	10,725	8,820	4,093,338	2,540,472	2,550,199	733,362
1973	—	9,742	7,585	4,809,097	2,866,003	2,913,446	870,378

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 222.—AIRPORTS, BY CONTROL, AND AIRCRAFT OPERATIONS AT SPECIFIED AIRPORTS: 1922 TO 1974

Year	Number of airports				Aircraft operations		
	Total	State	Military	Private ¹	Hilo: Lyman Field	Honolulu Intern'l Airport	Kahului Airport
1922	2	—	2	—	—	—	—
1928	13	(NA)	7	(NA)	—	(NA)	—
1930 ²	22	6	6	12	(NA)	(NA)	—
1935	(NA)	8	(NA)	(NA)	(NA)	(NA)	—
1940	(NA)	7	(NA)	(NA)	(NA)	(NA)	—
1948	(NA)	14	(NA)	(NA)	(NA)	194,570	(NA)
1950	(NA)	16	(NA)	(NA)	38,718	174,943	(NA)
1955	(NA)	12	(NA)	(NA)	44,509	195,591	30,814
1960	39	13	6	20	34,548	253,742	47,503
1965	46	13	6	27	44,559	288,288	64,603
1970	50	14	6	30	52,183	300,629	77,451
1971	50	14	6	30	56,167	294,874	76,768
1972	50	14	6	30	50,333	297,861	75,467
1973	50	14	6	30	48,138	309,144	75,478
1974	50	14	6	30	...	...	...

NA Not available

¹Mostly on sugar plantations. The 1930 figure includes 11 "emergency fields," some of which were apparently located on government land.

²Airport total includes two under joint jurisdiction.

Source: William J. Horvat, *Above the Pacific* (1966), pp. 34 and 43; *Annual Report, Territorial Aeronautical Commission . . . 1930*, p. 23; *Report . . . by the Superintendent of Public Works* for 1935 (p. 14) and 1940 (pp. 42 and 44); Hawaii Aeronautics Commission, *Annual Report* for 1948 (pp. 7 and 18), 1950 (p. 9), and 1955 (pp. 13-19); *FAA Statistical Handbook of Aviation*, 1967 ed., p. 11; Hawaii State Department of Transportation, Airports Division, records.

Table 223.—AIR CARGO AND AIR MAIL: 1950 TO 1973
(In thousands of pounds)

Year ¹	Overseas air cargo ²			Overseas air mail ²			Interisland ³	
	Outgoing	Incoming	Through	Outgoing	Incoming	Through	Air cargo: incoming	Air mail: incoming
1950 ⁴	1,144	1,935	1,389	1,214	1,230	1,121	19,532	863
1955	857	1,417	3,178	1,603	1,590	4,143	24,143	748
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 ⁵	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 ⁶	67,131	116,591	(NA)	17,915	24,883	(NA)	51,389	14,332
1972 ⁷	55,908	108,178	(NA)	16,665	22,739	(NA)	59,900	14,774
1973	57,494	87,834	(NA)	16,123	21,001	(NA)	69,710	16,453

NA Not available.

¹Fiscal years ended June 30, 1950 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.

⁴Data reflect shipping strike of May 1, 1949-October 24, 1949.

⁵Data reflect the airlifting of all interisland third- and fourth-class mail beginning in October 1965.

⁶Data reflect the shipping strike of July 1, 1971-October 6, 1971.

⁷Data 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 224.—PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1973

Airport	Passengers ¹		Cargo (1,000 lb.)		Mail (1,000 lb.)	
	In	Out	In	Out	In	Out
OVERSEAS						
Total	2,866,003	2,913,446	87,834	57,494	21,001	16,123
Honolulu	2,737,609	2,765,115	83,732	36,673	21,000	15,910
Hilo (Lyman)	123,759	147,207	4,102	20,821	1	214
Kahului	4,635	1,124	—	—	—	—
Other airports	—	—	—	—	—	—
INTERISLAND						
Total	4,809,097	4,809,097	69,710	69,710	16,453	16,453
Honolulu	1,851,877	1,884,534	22,040	40,524	3,324	12,625
Hilo (Lyman)	549,532	537,520	11,839	18,193	4,144	1,262
Upolu	677	650	—	—	—	—
Waimea-Kohala	49,461	48,167	459	2,466	355	131
Ke-ahole	370,457	357,743	4,619	1,878	1,140	346
Kahului	935,340	928,720	17,512	4,362	4,147	1,246
Hana	7,271	7,692	14	10	11	4
Kaanapali	23,499	24,722	278	24	—	—
Molokai	73,480	71,694	1,182	517	349	75
Kalaupapa	2,858	3,027	292	32	26	9
Lanai	20,435	20,012	1,130	136	158	33
Lihue	922,386	922,847	10,340	1,569	2,799	721
Other airports	1,824	1,569	4	0	—	—

¹Revenue and non-revenue, including Military Airlift Command (MAC). Excludes overseas passengers in transit (870,378, all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, *Air Traffic Monthly Summary, December 1973*, and records.

✓ **Table 225.—AIR FARES AND FLIGHT TIMES FOR SPECIFIED INTERISLAND AND TRANSPACIFIC FLIGHTS: 1930 TO 1974**

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
1974	DC-9	26.64	53.27	0:41	B-747	112.63	225.26	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 Airline Fares and Flight Times, 1929-1974* (Statistical Report 103, June 18, 1974).

Table 226.—UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1973

Subject	Number	Subject	Number
Certificates outstanding	12,049	Type of vessel:	
Length:		Cabin motorboat	1,145
Under 16 feet	6,098	Open motorboat	4,927
16 to less than 26 feet	4,906	Runabout	3,084
26 to less than 40 feet	831	Sail/inboard	335
40 to 65 feet	158	Sail/outboard	564
Over 65 feet	9	Sail only	1,555
Dealers or manufacturers	47	Motor vessel over 65 feet	9
Hull materials:		Other	383
Wood	4,021	Uses:	
Steel	25	Pleasure	11,139
Aluminum	325	Commercial fishing	519
Plastic	7,419	Charter fishing	11
Other	259	Commercial passenger	19
Propulsion:		Other commercial	33
Inboard	732	Livery	42
Outboard	7,826	Dealers or manufacturers	47
Inboard/outboard	925	Youth group	21
Sail/inboard	349	Government	136
Sail/outboard	504	Other	82
Sail only	1,578	Island kept:	
Other	88	Hawaii	1,158
Type of storage:		Kauai	868
On water	2,564	Lanai	48
On land	9,468	Maui	579
		Molokai	211
		Oahu	9,138

Source: Hawaii State Department of Transportation, Harbors Division, *Report of Undocumented Vessel Registration* (annual).

✓ **Table 227.—BOATING ACCIDENTS: 1971 TO 1973**

Subject	1971	1972	1973
Number of accidents, total	15	37	27
Fatal	2	7	1
Non-fatal injury	—	4	2
Property damage only	13	26	24
Number of vessels in accidents, total	16	43	30
Fatal	2	7	1
Non-fatal injury	—	5	2
Property damage only	14	31	27
Number of persons killed	2	9	1
Number of persons injured non-fatally	—	7	2
Amount of damage (\$1,000)	64.8	254.1	126.1

Source: U.S. Department of Transportation, Coast Guard, *Boating Statistics 1972*, CG-357 (1973), pp. 14-15, and *Boating Statistics 1973*, CG-357 (1974), pp. 16-17.

Table 228.—SHIP ARRIVALS AT THE PORT OF HONOLULU: 1824 TO 1973

Calendar year	Overseas merchant ships ¹		Overseas whaling ships ²		National ships ³
	Number	Gross tonnage	Number	Gross tonnage	
1824	17	(NA)	88	(NA)	—
1830	39	(NA)	94	(NA)	—
1835	32	(NA)	77	(NA)	—
1840	31	(NA)	47	(NA)	6
1845	41	(NA)	163	(NA)	14
1850	342	90,304	125	46,394	13
1855	142	48,870	171	(NA)	16
1860	107	38,660	179	(NA)	9
1865	145	65,699	106	(NA)	7
1870	155	90,662	84	27,674	16
1875	131	92,922	24	7,475	19
1880	206	134,616	11	3,467	15
1885	200	173,733	26	8,073	6
1890	231	206,470	21	6,100	12
1895	246	302,437	10	1,557	8
1899	501	693,158	(NA)	(NA)	(NA)

(Continued on next page)

Table 228.—SHIP ARRIVALS AT THE PORT OF HONOLULU: 1824 TO 1973 (continued)

Year ended June 30	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1905	394	886,854	(NA)	(NA)
1910	373	1,239,076	(NA)	(NA)
1915	607	3,713,583	(NA)	(NA)
1920	839	4,529,973	(NA)	(NA)
1925	758	5,970,095	(NA)	(NA)
1930	903	7,606,889	1,365	1,637,551
1935	719	7,276,368	1,256	1,565,118
1940	872	7,436,354	2,622	1,917,363
1945	1,736	11,705,115	(NA)	(NA)
1950	861	7,280,503	2,210	1,058,825
1955	996	8,846,584	2,059	982,149
1960	1,411	12,305,187	2,272	1,061,299
1961	1,518	12,698,928	2,460	1,142,823
1962	1,818	13,093,578	2,522	1,150,294
1963	1,799	12,486,677	2,550	1,118,590
1964	2,064	13,102,772	2,446	1,275,239
1965	1,948	12,992,469	2,551	1,125,203
1966	1,941	14,654,173	2,877	1,219,665
1967	1,684	13,820,896	2,652	1,422,467
1968	1,774	15,277,355	2,474	1,413,915
1969	1,903	15,954,257	2,961	2,458,333
1970	1,933	16,053,275	3,321	2,167,733
1971	1,879	15,629,860	3,356	2,339,132
1972	1,847	15,267,302	3,096	1,875,681
1973	1,801	14,373,090	3,602	2,185,872

NA Not available.

¹“Traders” for 1824-1840, “merchantmen” or “merchant vessels” for 1845-1880, and “vessels” for 1885-1899.

²Includes a small number of sealers for 1824-1840 and 1895.

³Foreign warships and survey vessels.

Source: *The Friend*, May 1, 1844 (pp. 49-50) and March 2, 1846 (p. 37); *The Polynesian*, February 1, 1851 and January 19, 1861; *Annual Report of the Minister of Finance, 1856*; *Hawaiian Gazette*, February 3, 1866 and February 15, 1871; *Custom House Statistics* for 1875 and 1880; *Annual Report of the Collector-General of Customs* for 1885, 1890, 1895, and 1899; *Report of the Governor of Hawaii* for 1905 (p. 68) and 1910 (p. 23); *Annual Report of the Board of Harbor Commissioners* for 1915-1961; Hawaii State Department of Transportation, Harbors Division, *Statistical Report . . . 1962, Shipping Information* for 1963-1968 and records. Tonnage estimated for 1970 and 1971.

Table 229.—VESSELS ARRIVING AT SPECIFIED HARBORS: 1972

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	15,835	6,947	415	4,287	4,063	123	(NA)	(NA)
Hilo	649	93	41	223	268	24	523	126
Kawaihae	343	11	15	157	159	1	321	22
Kahului	870	198	37	271	341	23	795	75
Barbers Point	233	—	90	84	30	29	133	100
Honolulu	6,575	2,763	159	1,878	1,736	39	5,727	848
Nawiliwili	419	61	13	165	176	4	386	33
Kaunakakai	1,466	—	—	784	682	—	918	548
Port Allen	175	10	15	80	70	—	(NA)	(NA)
Kaunapau	652	—	—	316	333	3	652	—
Pearl Harbor	3,246	3,073	45	105	23	—	(NA)	(NA)
Other Honolulu area	1,204	738	—	223	243	—	(NA)	(NA)
Kalaupapa	3	—	—	1	2	—	3	—

NA Not available

¹Excludes domestic fishing craft and Army and Navy vessels.

Source: U.S. Departments of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1972*, Part 4 (1972), pp. 104-105.

Table 230.—FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1910 TO 1972

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
1972	658	796,694	—	3,420.4	1,108.1	7,960.4	1,297.8

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 231.

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 1953-1972.

✓ **Table 231.—PASSENGER ARRIVALS AND DEPARTURES FOR HONOLULU HARBOR: 1969 TO 1973**

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
1972	796,694	24,996	15,907	6,353	5,087	372,176	372,175
1973	989,100	21,544	14,863	4	68	476,311	476,310

¹Mostly between Kewalo Basin and Pearl Harbor.

Source: Department of the Army, Lower Mississippi Valley Division, Corps of Engineers, Waterborne Commerce Statistics Center.

✓ ✓ **Table 232.—OVERSEAS AND INTERISLAND SHIPPING: 1960 TO 1972**
(In revenue tons of 2,000 lb.)

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1960	5,575,224	3,705,214	1,870,010	1,988,623	1,006,222	982,401
1961	4,703,644	2,720,695	1,982,949	2,168,883	1,040,586	1,128,297
1962	5,069,625	2,844,526	2,225,099	2,534,454	1,249,410	1,285,044
1963	5,079,475	2,935,012	2,144,463	2,564,264	1,271,689	1,292,575
1964	5,587,016	3,203,510	2,383,506	2,697,873	1,351,662	1,346,211
1965	5,785,111	3,408,059	2,377,052	3,213,134	1,512,810	1,700,324
1966	6,850,718	4,050,678	2,800,040	3,380,431	1,686,898	1,693,533
1967	7,136,017	4,334,536	2,801,481	3,536,997	1,767,764	1,769,233
1968	9,185,880	6,498,986	2,686,894	3,689,409	1,844,704	1,844,705
1969	9,440,891	7,185,809	2,255,082	3,941,074	1,969,987	1,971,087
1970	9,610,764	7,464,651	2,146,113	4,788,130	2,394,065	2,394,065
1971	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426

Source: Hawaii State Department of Transportation, records.

Table 233.—FREIGHT TRAFFIC FOR SPECIFIED HARBORS: 1972
(Short tons)

Harbor and commodity ¹	Total	Foreign		Domestic			
		Imports	Exports	Coastwise ²		Internal receipts	Local
				Receipts	Shipments		
Hilo	1,108,067	28,634	13,041	723,389	342,792	211	—
Kawaihae	303,116	—	7,321	106,405	189,297	93	—
Kahului	1,297,829	25,675	—	652,025	620,068	61	—
Sugar	326,965	—	—	1,048	325,197	—	—
Kaunakakai	751,455	—	—	101,373	650,079	3	—
Fresh fruits and tree nuts	639,329	—	—	343	638,986	—	—
Barbers Point	3,420,445	2,306,006	77,695	627,276	409,468	—	—
Crude petroleum	2,128,493	2,095,896	—	32,597	—	—	—
Residual fuel oil	864,799	96,618	44,487	578,174	145,520	—	—
Honolulu	7,960,447	1,352,210	116,243	4,094,287	2,397,372	50	285
Fresh fruits and tree nuts	945,724	1,382	198	902,781	41,363	—	—
Prep. fruit and veg. juice	565,788	1,318	40,548	120,742	403,180	—	—
Molasses	331,162	—	10,428	130,583	190,151	—	—
Gasoline	360,429	—	10,257	274,340	75,832	—	—
Kerosene	1,067,200	871,116	1,258	145,404	49,422	—	—
Distillate fuel oil	303,968	1,047	1,704	258,385	42,832	—	—
Residual fuel oil	601,537	72,527	5,040	400,977	122,708	—	285
Fabricated metal products	324,221	8,460	39	135,154	180,568	—	—
Nawiliwili	582,887	8,441	—	244,797	329,621	28	—
Kalaupapa	992	}	(NA)	(NA)	(NA)	(NA)	(NA)
Port Allen	163,951						
Kaumalapau	286,876						
Other Honolulu area ports (net)	264,459						
Sand, gravel, crushed rock	263,290						
Pearl Harbor	728,475	}	(NA)	(NA)	(NA)	(NA)	(NA)
Residual fuel oil	320,098						

NA Not available

¹Commodities under 250,000 tons not shown separately.

²Includes both interisland and interstate traffic.

Source: U.S. Department of the Army, Corps of Engineers, *Waterborne Commerce of the United States, Calendar Year 1972*, Part 4 (1973), pp. 32-41.

AGRICULTURE

This section presents statistics on agricultural land, farms, and specific crops, livestock, dairy products, and poultry.

There were 4,100 farms in Hawaii as of 1972, with a total area of 2,300,000 acres. Both figures have declined appreciably during the past decade. The value of crop sales in 1972 was \$180 million, about 35 percent more than in 1962. Livestock sales amounted to \$46 million, or 35 percent more than the 1962 level. Combined crop and livestock sales ranged from \$30 million in Kauai County to \$72 million on the Big Island. Major crops in 1972 were sugar (\$117 million in sales, up 35 percent over the decade), pineapple (\$38 million, or 18 percent over the 1962 total), and vegetables and melons (\$7 million). Diversified agriculture, defined as all crops other than sugar and pineapple, rose from \$14 million in 1962 to \$25 million in 1972, or approximately 76 percent. More than 440 farms sold \$5.1 million of flowers and nursery products, chiefly anthuriums and orchids. Important products of livestock farms as of 1972 included cattle (\$17 million in sales), milk (\$14 million), and eggs (\$8 million). Coffee and rice production have declined sharply since the early years of the century, but macadamia nuts have increased rapidly. In 1972, Hawaii produced 40 percent of the fresh market vegetables consumed locally, 37 percent of the fresh market fruits, none of the butter and oleomargarine, all of the milk, 44 percent of the red meat, 20 percent of the poultry meat, and 94 percent of the eggs.

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: 1973*.

Table 234.—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 235.—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 236.—NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1946 TO 1972

Year	Number of farms	Area in farms ¹ (1,000 acres)	Value of sales (\$1,000)				
			Crops and livestock	Sugar (unprocessed cane)	Pineapples (fresh equivalent)	Other crops	Livestock
1946	5,600	2,570	(NA)	(NA)	(NA)	7,835	15,089
1950	6,000	2,540	(NA)	(NA)	(NA)	8,632	19,675
1955	6,500	2,580	152,379	81,800	34,000	11,176	25,403
1960	6,600	2,600	149,893	67,200	36,100	13,038	33,555
1961	6,200	2,550	160,376	78,600	34,800	12,580	34,396
1962	5,700	2,500	167,293	86,800	32,200	14,001	34,292
1963	5,200	2,450	190,672	108,900	34,400	13,050	34,322
1964	5,100	2,450	172,859	90,500	31,800	14,952	35,607
1965	5,000	2,400	183,154	97,500	35,200	14,849	35,605
1966	4,900	2,400	193,810	105,200	35,100	16,108	37,402
1967	4,800	2,360	191,994	106,000	32,200	16,335	37,459
1968	4,700	2,330	200,334	111,200	33,200	18,049	37,885
1969	4,600	2,310	197,176	104,900	33,500	19,288	39,487
1970	4,500	2,300	210,881	110,600	37,100	21,533	41,648
1971	4,300	2,300	219,603	115,800	38,500	22,232	43,071
1972	4,100	2,300	226,092	117,200	38,100	24,624	46,168
COUNTIES: 1972							
Hawaii	2,200	1,340	72,249	44,100	—	12,895	15,254
Honolulu	840	152	62,795	18,500	13,700	6,451	24,144
Kauai	400	282	29,567	25,400	400	1,556	2,211
Maui	660	526	61,481	29,200	24,000	3,722	4,559

NA Not available.

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), and records.

Table 237.—ACREAGE IN CROP AND PASTURE, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY COUNTY: 1962 AND 1972

Subject	State total		Counties, 1972			
	1962	1972	Hawaii	Kauai	Maui	Honolulu
Acreage (1,000 acres):						
Sugarcane	228.9	229.6	104.5	46.9	45.5	32.7
Pineapples	72	58	—	1.1	41.5	15.5
Vegetables and melons	3.3	2.9	1.0	0.1	0.7	1.1
Fruits (excluding pineapples)	2.7	3.5	2.5	0.2	0.3	0.5
Coffee	4.8	3.0	3.0	—	—	—
Macadamia nuts	4.1	9.3	9.2	(W)	(W)	(W)
Number of crop farms:						
Sugar	845	577	565	6	3	3
Pineapples	116	36	—	14	20	2
Vegetables and melons	786	412	135	34	65	178
Fruits (excluding pineapples)	671	417	220	41	33	123
Coffee	964	710	710	—	—	—
Macadamia nuts	237	326	320	4	1	1
Taro	187	123	36	49	36	2
Volume of crop marketings:						
Sugar (unprocessed cane; 1,000 tons)	9,813	9,929	4,186	2,072	2,258	1,413
Pineapples (fresh equivalent; 1,000 tons)	890	871	Not available by county			
Vegetables and melons (1,000 lb.)	51,296	49,820	16,695	1,885	15,555	15,685
Fruits (excluding pineapples; 1,000 lb.) ¹	28,100	37,993	26,340	1,760	1,030	4,935
Coffee (parchment; 1,000 lb.)	13,392	3,200	3,200	—	—	—
Macadamia nuts (in shell; 1,000 lb.)	5,182	14,155	14,086	60	9	—
Taro (1,000 lb.)	10,055	9,020	2,160	5,300	1,480	80
Value of crop sales (\$1,000):						
Sugar (unprocessed cane)	86,800	117,200	44,100	25,400	29,200	18,500
Pineapple (fresh equivalent)	32,200	38,100	—	400	24,000	13,700
Vegetables and melons	4,948	7,439	2,267	415	1,826	2,931
Fruits (excluding pineapples)	1,608	4,643	3,324	257	380	682
Coffee (parchment)	2,985	1,104	1,104	—	—	—
Macadamia nuts (in shell)	954	3,157	3,141	(W)	(W)	(W)
Taro	574	758	202	441	108	7
Horticultural specialties	2,400	5,101	1,927	70	530	2,574
Other crops	532	1,691	199	357	878	257

W Withheld to avoid disclosure of individual operations.

¹Passion fruit and guavas excluded in county totals.

Source: Hawaii Crop and Livestock Reporting Service, *Statistics of Hawaiian Agriculture* (Hawaii State Department of Agriculture, annual).

NUTS
 Table 238.—VEGETABLES, MELONS, FRUITS, AND TARO: 1972

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	80	12.2	980	38.7	379
Head cabbage	420	26.0	10,900	8.2	894
Cucumbers	165	23.0	3,800	17.1	650
Chinese cabbage	220	21.3	4,695	8.3	390
Daikon	230	13.8	3,175	8.3	264
Green onions	75	14.7	1,105	28.7	317
Lettuce (head or semi-head)	380	12.6	4,800	16.5	792
Tomatoes	150	22.0	3,300	23.8	785
Watercress	30	72.3	2,168	18.3	397
Watermelons	175	12.6	2,200	11.7	257
Fruits (excluding pineapples):					
Bananas	720	8.3	6,000	12.0	720
Papayas ²	985	26.1	25,735	15.1	3,423
Taro	455	...	9,020	8.4	758

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 1972* (Hawaii State Department of Agriculture, 1973).

Table 239.—NUMBER OF LIVESTOCK FARMS, VOLUME OF LIVESTOCK MARKETINGS,
AND VALUE OF LIVESTOCK SALES, BY COUNTY: 1962 AND 1972

Subject	State total		Counties, 1972			
	1962	1972	Hawaii	Kauai	Maui	Honolulu
Number of livestock farms:						
Cattle (include beef and dairy)	1,740	970	410	160	260	140
Hogs	1,510	480	85	50	80	265
Milk	230	100	35	10	25	30
Eggs	780	90	40	10	15	25
Broilers	40	16	1	2	1	12
Honey	48	21	4	3	5	9
Volume of livestock marketings:						
Beef (1,000 lb. dressed weight)	24,345	32,183	20,167	2,436	7,133	2,447
Pork (1,000 lb. dressed weight)	8,052	8,357	1,091	385	1,649	5,232
Milk (million lb.)	125	134.6	(W)	(W)	(W)	113.7
Eggs (million)	158	203	26.0	7.1	11.2	159.0
Broilers and chickens (1,000 lb. ready-to-cook weight)	(NA)	6,359	(W)	(W)	(W)	5,689
Value of livestock sales (\$1,000):						
Cattle ¹	9,357	16,557	10,674	1,103	3,651	1,129
Hogs ¹	3,719	4,524	552	238	897	2,837
Milk	10,774	14,494	(W)	(W)	(W)	11,995
Eggs	7,886	7,951	1,166	852		5,933
Broilers and chickens	2,394	2,540	(W)	(W)	(W)	2,224
Others	124	102	47	18	11	26

NA Not available.

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 240.—FLOWERS AND NURSERY PRODUCTS, BY ISLAND: 1970 TO 1972**

Area and year	Number of farms	Area				Wholesale value (\$1,000)	Out-of-state shipments (\$1,000)	
		Total (acres)	Greenhouse (1,000 square feet)	Artificial shade structure (1,000 square feet)	Natural shade area (acres)			Open field (acres)
State total:								
1970	459	807	116	5,177	144	542	4,225	2,498
1971	449	743	149	5,468	136	479	4,484	2,719
1972	446	757	172	6,665	123	477	5,101	3,090
Islands, 1972:								
Hawaii	226	381	72	4,797	114	155	1,927	(NA)
Kauai	18	18	2	93	2	14	70	(NA)
Maui	54	52	55	120	1	47	530	(NA)
Oahu	148	306	43	1,655	6	261	2,574	(NA)

NA Not available.

Source: Hawaii Crop and Livestock Reporting Service, *Hawaii Flowers and Nursery Products* (August 14, 1973).

Table 241.—FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1972

Kind of flower	Number of farms	Number of flowers sold		Wholesale value (\$1,000)
		Unit	Number	
Cut flowers:				
Anthuriums	205	1,000 dozens	843	1,150
Birds of paradise	33	Do.	21	39
Carnations	12	Do.	20	27
Chrysanthemums, exc. pompon	15	Do.	18	54
Gingers	33	Do.	(NA)	76
Roses	16	Do.	283	205
Gladiolus, lilies, and others	35	Do.	(NA)	130
Chrysanthemums, pompon	26	1,000 bunches	442	214
Cut orchids:				
Cattleyas	43	1,000 flowers	71	38
Cymbidiums	24	Do.	339	115
Vanda hybrids and others	41	Do.	(NA)	43
Dendrobiums, sprays	38	1,000 dozens	14	42
Lei flowers:				
Carnations	23	Million flowers	16.8	329
Vandas Miss Joaquin	61	Do.	60.9	498
Plumerias	12	Do.	8.2	115
Tuberoses	10	Do.	4.5	48
Pikake	7	1,000 strands	103	89
Cut foliage:				
Ti leaves	33	Million leaves	18.1	186
Crotons, lycopodiums, and other greens	27	Do.	10.0	64
Potted flowers:				
Chrysanthemums	14	1,000 pots	98	178
Orchids	75	Do.	158	357
Other nursery products ¹	91	...	(NA)	1,104

NA Not available.

¹Ornamental plants, trees, bedding plants, potted foliage, and potted flowers not elsewhere classified.

Source: Hawaii Crop and Livestock Reporting Service, *Hawaii Flowers and Nursery Products* (August 14, 1973).

✓ **Table 242.—COMMERCIAL LIMU HARVEST: 1963 TO 1973**

Year	Pounds taken	Pounds sold	Value (dollars)
1963	4,738	4,738	1,729
1964	12,271	12,266	2,956
1965	3,230	3,230	700
1966	—	—	—
1967	2,421	2,421	542
1968	355	355	112
1969	74,139	74,012	19,128
1970	49,427	49,302	16,166
1971	88,813	88,813	28,366
1972	96,563	96,460	34,838
1973	97,140	96,987	35,909

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, records.

✓ **Table 243.—MARKET SUPPLY OF SPECIFIED FOODS: 1962 TO 1972**
(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
1962, total	90,937	5,856	57,040	39,572	7,691	125,000	68,839	14,573	14,805
Inshipments	42,813	2,796	57,040	19,540	7,691	—	36,392	9,346	1,639
From Hawaii	48,124	3,060	—	20,032	—	125,000	32,447	5,227	13,166
Percent	52.9	52.3	0	50.6	0	100.0	47.1	35.9	88.9
1971, total	112,373	6,810	75,273	48,440	9,039	131,600	91,829	26,132	18,287
Inshipments	69,510	4,215	75,273	31,329	9,039	—	49,417	20,264	787
From Hawaii	42,863	2,595	—	17,111	—	131,600	42,412	5,868	17,500
Percent	38.1	38.1	0	35.3	0	100.0	46.2	22.5	95.7
1972, total	111,583	9,795	64,157	51,758	8,007	134,600	93,152	32,276	18,078
Inshipments	67,524	7,595	64,157	32,729	8,007	—	52,612	25,917	1,178
From Hawaii	44,059	2,200	—	19,029	—	134,600	40,540	6,359	16,900
Percent	39.5	22.5	0	36.8	0	100.0	43.5	19.7	93.5

¹Chiefly rice (54,636 in 1962, 73,289 in 1971, and 62,343 in 1972).

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 244.—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	}				
Water	8,063					
Urban: military	17,658					
Urban: civilian	61,233					
			Not rated for productivity			

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 1973 exceeded 14 million pounds and had a value of \$5.7 million. *Aku* (Skipjack) accounted for more than half of the total value.

The value of mineral production reached \$33 million in 1973, most of it in cement and stone. The previous all-time high was \$30 million, recorded in 1969.

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: 1973*, Sections 24, 25, and 26.

Table 245.—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 246.—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 247.—COMMERCIAL FISHING: 1928 TO 1974

Years ended June 30	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
1973	(NA)	1,857	14,029,491	5,676,780
1974	(NA)	(NA)	13,997,435	6,234,933

NA Not available.

¹Calendar year.

Source: Hawaii State Department of Land and Natural Resources, *Report to the Governor, 1971-1972*, pp. 43-44; *Commercial Fish Landings for Fiscal Year—July, 1972 through June, 1973*; *Commercial Fish Landings for Fiscal Year—July, 1973 through June, 1974*; and records.

**Table 248.—COMMERCIAL FISH LANDINGS, BY SPECIES AND ISLAND: JULY 1, 1972
TO JUNE 30, 1973**

Island and species	Pounds caught	Value (dollars)
Total landings	14,029,491	5,676,780
ISLAND		
Hawaii	1,099,308	562,712
Maui	749,001	206,519
Lanai	14,545	8,077
Molokai	27,879	15,797
Oahu	11,827,357	4,767,669
Kauai	311,401	116,006
SPECIES ¹		
Sea catch, total ²	14,014,927	5,668,569
Aku (Skipjack)	10,630,439	3,002,415
Ahi (Yellowfin)	612,129	482,399
Akule	603,360	263,886
Ahi (Bigeye)	456,261	732,024
Hahalalu	219,606	90,300
Opelu	174,091	113,382
Mahimahi	106,501	89,378
Opakapaka	94,072	85,724
Stripe Marlin	78,448	63,101
Kahala	64,486	41,154
Ono	64,460	25,908
Crab (Kona)	62,515	96,452
Pacific Blue Marlin	55,607	728
Uku	51,672	36,781
Ulaula Koae (Onaga)	36,775	64,567
Pond catch	14,564	8,211

¹Shown separately for all species over 50,000 pounds or \$50,000.

²Includes species not shown separately.

Source: Hawaii State Department of Land and Natural Resources, Division of Fish and Game, *Commercial Fish Landings for Fiscal Year—July, 1972 through June, 1973* (September 1973).



Table 249.—MINERAL OPERATIONS: 1909 TO 1967

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 manufactures:						
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)

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.

Table 250.—MINERAL PRODUCTION: 1947 TO 1973

(Production as measured by mine shipments, sales, or marketable production, including consumption by producers.)

Year	Quantity (1,000 short tons)		Value (\$1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals ¹
1947	—	786	1,705	—	1,471	234
1950	—	696	1,775	—	1,555	220
1955	—	1,414	3,592	—	2,884	708
1960	21	3,535	9,254	571	6,443	2,240
1965	294	5,172	20,835	8,297	9,353	3,185
1966	329	5,079	21,253	9,046	9,482	2,725
1967	262	4,100	16,936	7,360	7,207	2,369
1968	346	5,211	23,225	9,254	11,273	2,698
1969	390	6,534	29,539	10,544	16,059	2,936
1970	406	6,331	28,965	10,334	15,538	3,093
1971	386	6,056	28,107	10,627	14,357	3,123
1972	415	5,005	28,074	11,116	13,494	3,464
1973 ²	469	7,180	35,147	13,750	18,466	2,931

¹Chiefly sand and gravel; pumice, pumicite, and volcanic cinder; and lime.²Revised.Source: U.S. Bureau of Mines, *Minerals Yearbook* (annual) and "The Mineral Industry in Hawaii," *Mineral Industry Surveys* (annual preliminary and advance summary reports).

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 \$307 million in new residential construction and \$80 million in hotels, commercial buildings, and industrial structures were issued in 1972. The estimated value of construction put in place, as indicated by the contracting tax base, was \$696 million in 1972 and \$905 million in 1973. The value of land transfers reached an all-time peak of \$1,737 million, and mortgage loans outstanding exceeded \$2.4 billion.

The number of occupied housing units in the State increased from 30,000 in 1900 to 87,000 in 1940, 203,000 in 1970 and 232,000 in 1973. Owner occupied units numbered 32,000 in 1950 and 106,000 in 1973; the latter total included 79,000 on land owned in fee and 27,000 on leased land. Military and public housing accounted for 21,200 units as of 1973. Housing was in short supply throughout most of the past decade: on Oahu, the 1973 vacancy rate was only 1.5 percent, although 24 percent of all units turned over at least once during the year. Median monthly rent for the State rose from \$64 in 1960 to \$120 in 1970, and the Oahu rent-income ratio increased from 17.2 percent to 21.4 during the decade. The average property value of new homes insured by the Federal Housing Administration in Hawaii was \$21,600 in 1960 and \$44,400 in 1972—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: 1973*.

Table 251.—NUMBER AND ESTIMATED VALUE OF BUILDING PERMITS, FOR THE CITY AND COUNTY OF HONOLULU: 1890 TO 1973

Year	All building permits ¹		New dwellings ²	
	Number of permits	Est. value (\$1,000)	Number of permits	Est. value (\$1,000)
1890	42	(NA)	(NA)	(NA)
1895	115	(NA)	(NA)	(NA)
1901 ³	272	(NA)	(NA)	(NA)
1905 ³	174	(NA)	(NA)	(NA)
1910	416	618	(NA)	(NA)
1915	(NA)	1,450	(NA)	(NA)
1920	1,550	3,403	(NA)	(NA)
1925	4,078	8,611	(NA)	(NA)
1930	2,402	5,921	680	1,959
1935	2,605	3,064	621	1,200
1940	6,797	10,845	1,822	6,520
1945	5,475	11,818	954	6,080
1950	7,323	46,692	2,670	26,644
1955	7,178	62,245	2,340	36,890
1960	13,157	164,098	4,437	85,546
1961	12,840	135,900	3,652	61,080
1962	14,569	179,229	3,901	107,872
1963	14,260	137,888	3,645	71,169
1964	14,683	145,873	3,938	79,847
1965	16,585	219,294	4,967	126,903
1966	15,210	255,176	3,135	141,027
1967	14,632	210,408	3,171	117,696
1968	16,997	345,600	4,210	235,107
1969	15,426	412,594	4,056	234,623
1970	16,792	386,687	4,089	225,583
1971	17,239	298,630	4,087	161,634
1972	17,706	364,835	3,792	221,801
1973	22,767	480,639	3,804	314,946

NA Not available.

¹Data before 1912 limited (except for churches, schools, and hotels) to Honolulu between Kalihi Stream and Manoa and Kalia Streams.

²Including hotels.

³Year ended June 30.

Source: *Report of the Minister of the Interior* for 1890, 1892, and 1895; *Report of the Superintendent of Public Works, Territory of Hawaii* for 1902, 1905, and 1910; Department of Buildings, City and County of Honolulu, *Annual Report* and annual tabular summaries, 1931 and succeeding years.

Table 252.—VALUE OF BUILDING PERMITS, BY COUNTY: 1965 TO 1973
(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	296,689	207,513	38,178	19,061	31,937
1973	418,742	312,880	35,089	20,697	50,076
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	80,172	53,705	11,670	2,362	12,435
1973	112,365	71,510	9,803	6,115	24,937

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 253.—PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMIT, BY COUNTY: 1965 TO 1973

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
1973	5,420	3,008	2,412	1,143	424	845
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
1973	326	312	14	6	4	4
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
1973	11,864	9,745	2,119	493	339	1,287
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
1973	1,156	874	282	102	60	120

¹Hawaii and Maui Counties estimated.

Source: Compiled from County building departments by Hawaii State Department of Planning and Economic Development.

Table 254.—NEW HOUSING COMPLETED, BY PRICE RANGE AND SALES STATUS, FOR OAHU: 1969 TO 1973

Price group and sales status	1969 ¹	1972 ²	1973				
			All types	New houses ¹	Townhouses		Multi-family condominium
					Planned unit	Condominium	
Units completed ..	2,927	4,880	6,682	1,515	514	2,333	2,320
Price group:							
Under \$20,000	12	—	—	—	—	—	—
\$20,000 to \$24,999	62	161	8	—	—	—	8
\$25,000 to \$29,999	380	953	549	—	—	449	100
\$30,000 to \$34,999	1,014	652	381	—	—	77	304
\$35,000 to \$39,999	} 1,459 }	482	1,607	—	—	640	967
\$40,000 to \$44,999		633	525	—	—	97	428
\$45,000 to \$49,999		610	898	207	39	483	169
\$50,000 and over		1,389	2,714	1,308	475	587	344
Median (dollars)	34,978	41,517	46,509	(³)	(³)	40,026	38,868
Sales status:							
Sold before const. starts ...	2,407	2,957	3,596	992	288	1,217	1,099
Speculative	520	1,923	3,086	523	226	1,116	1,221
Sold by end of year	454	1,645	2,479	352	184	831	1,112
Unsold	66	278	607	171	42	285	109
Percent unsold	12.7	14.5	19.7	32.7	18.6	25.5	8.9

¹Limited to single-family houses in subdivisions with five or more completions during the year.

²Single-family houses and units in multi-family structures.

³More than \$50,000.

Source: Department of Housing and Urban Development, Federal Housing Administration, news releases.

Table 255.—GENERAL EXCISE TAX BASE FOR CONTRACTING AND RENTALS: 1936 TO 1973
(In thousands of dollars)

Year reported ¹	Contracting	Rentals		
		Total	Hotel rentals ²	All other rentals ³
1936	8,717	13,807	...	...
1940	18,343	20,458	...	...
1945	34,363	36,216	...	...
1950	67,710	56,174	...	...
1955	94,227	81,894	...	...
1960	268,530	153,134	...	...
1961	267,340	171,162	...	...
1962	256,952	195,053	...	...
1963	265,223	208,073	...	...
1964	302,913	235,907	...	...
1965	338,557	275,906	...	...
1966	392,408	303,615	...	...
1967	346,778	362,320	...	...
1968	451,697	417,247	...	...
1969	624,957	490,856	...	...
1970	782,972	531,668	176,923	354,745
1971	692,938	573,606	198,539	375,067
1972	695,939	649,954	227,058	422,895
1973	904,629	761,447	264,519	496,928

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.

²Not reported separately prior to January 1970.

³Includes residential, office, automobile, and equipment rentals, and land leases.

Source: *Report of the Tax Commissioner, 1940-1954*; Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release), 1955 and later years.

Table 256.—HONOLULU CONSTRUCTION COST INDEX: 1965 TO 1974

Year ¹	Index (1967 = 100) ¹	
	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	128.9	126.1
1973	147.1	135.6
1974: May	151.4	147.4

¹Annual averages unless otherwise specified.

Source: First Hawaiian Bank, *Economic Indicators Source Book—Revisions* (1971), p. 4, *Hawaii in 1972... and Beyond* (1972), p. 58, *Hawaii in 1973* (1973), p. 46, *Economic Indicators* (monthly), and records.

Table 257.—TALLEST STRUCTURES ON OAHU: JANUARY 1974

Category and rank	Structure	Address	Year built	Height	
				Stories	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. 31 (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 258.—NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1858 TO 1974.

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	1973	21,874	1,736,756,401
1960	10,077	121,464,000	1974	21,435	2,076,149,450

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; Bureau of Conveyances, records.

Table 259.—REAL ESTATE MORTGAGE LOANS OUTSTANDING: JANUARY 1, 1940 TO 1973

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	1973	2,424,166
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 260.—OCCUPIED HOUSING UNITS AND POPULATION PER UNIT: 1890 TO 1973

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
1973	232,000	(NA)	(NA)	(NA)	832,000		(NA)

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, 3.78 in 1970, and 3.59 in 1973.

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; U.S. Bureau of the Census, "Estimates of the Number of Households by State: July 1, 1973 and 1972," *Current Population Reports, Population Estimates and Projections*, Series P-25, No. 515, March 1974.

Table 261.—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 ¹
			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 262.—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 dishwasher	(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 263.—PLUMBING FACILITIES AND DILAPIDATION: 1960 AND 1970

Subject	1960 ¹	1970 ²
All year-round housing units	163,787	215,892
Oahu	125,088	174,098
Other islands	38,699	41,794
“Substandard” units ³	32,634	28,802
Oahu	16,688	19,258
Other islands	15,946	9,544
Percent “substandard” ³	19.9	13.3
Oahu	13.3	11.1
Other islands	41.2	22.8

¹As enumerated.

²Number dilapidated with all plumbing facilities estimated; see source for methodology.

³Lacking some or all plumbing facilities, or dilapidated. The corresponding U.S. percentages were 17.3 in 1960 and 9.5 in 1970.

Source: U.S. Bureau of the Census, *Census of Housing: 1970*, Final Report HC(6), *Plumbing Facilities and Estimates of Dilapidated Housing* (1973), pp. 1-5, 13-3, and 13-4.

✓ Table 264.—TENURE AND CONTROL OF HOUSING: 1930 TO 1973

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
1973	251,180	78,878	26,776	124,372	3,141	3,740	7,983	207	5,336	747
COUNTIES: 1973										
City & Co. of										
Honolulu	198,948	54,857	26,187	98,154	3,141	3,725	7,927	174	4,530	253
Hawaii County	23,576	11,423	361	11,210	—	15	—	8	384	175
Kauai County	10,304	4,158	97	5,748	—	—	56	10	128	107
Maui County	18,352	8,440	131	9,260	—	—	—	15	294	212

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 1973. 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. 33 (July 1973), pp. 5-7 and 15-16 and underlying data.

Table 265.—POSTAL VACANCY SURVEYS OF OAHU: 1955 TO 1974

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
1974: Mar. 12-14	200,924	4,013	2.0	1,862	2,151	5,313

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 266.—POSTAL VACANCY SURVEYS OF THE NEIGHBOR ISLANDS: 1967 TO 1974

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
1974: Mar. 18	9,812	355	3.6	160	195	263
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
1974: Apr. 8	2,849	8	0.3	3	5	95
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
1973: Feb. 27 ³	9,304	79	0.8	67	12	83
1974: Mar. 14-20 ³	8,353	126	1.5	88	38	881

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 267.—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, 4th qtr.	44,383	16,940	38.2	1,146	6,166	37.76	2.78	24.59
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, 4th 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).

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 765 in 1972. The value added by manufacture rose from \$11 million in 1899 to \$58 million in 1939, \$326 million in 1967, and \$412 million in 1972. About 76 percent of all manufacturing activity in the State was on Oahu in 1972. Food processing—mostly sugar and pineapple—accounted for 50 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 1963 and 1973, the general excise and use tax base increased 45 percent for sugar processing, 24 percent for pineapple canning, and 109 percent for all other manufacturing. Pineapple production in 1972-1973 dropped to 25.2 million cases of fruit and juice, well below the levels of earlier years. Sugar production in 1973 amounted to 1.1 million short tons, likewise less than totals for earlier periods.

Sources for data on this subject include the United States Census of Manufactures, most recently taken as of 1972, 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: 1973*.

Table 268.—MANUFACTURING: 1899 TO 1972

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)	23,200	134.0	17,400	32.2	83.3	353.9	381.9	737.1	15.6
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
1972	765	238	24,800	190.2	17,600	33.1	113.0	412.3	543.8	953.6	46.6

NA Not available

¹Data for 1899-1958, 1963, 1967 and 1972 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 *Census of Manufactures, 1972*, MC72(P)-S12, p. 1.

Table 269.—MANUFACTURING, BY COUNTY: 1972 and 1967

County	1972										1967		
	Establishments		All employees ¹		Production workers			Value added by manufacture	Cost of materials ²	Value of shipments ²	Capital expenditures, new	All employees	Value added by manufacture
	Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (million)	Wages (million dollars)	(million dollars)	(million dollars)	(million dollars)	(million dollars)	(1,000)	(million dollars)
State total ...	765	238	24.8	190.2	17.6	33.1	113.0	412.3	543.8	953.6	46.6	25.4	326.2
Hawaii	83	22	2.3	19.5	1.7	3.3	12.8	49.2	51.3	100.3	10.1	1.9	34.4
Honolulu	596	187	19.2	145.4	13.5	24.9	83.0	315.2	407.5	721.3	33.0	19.5	252.2
Kauai	28	8	.8	5.8	.6	1.1	4.0	16.7	25.2	42.0	1.4	1.2	20.6
Maui	49	13	2.3	18.4	1.7	3.5	12.3	27.4	53.8	80.9	2.1	2.8	19.0

Table 270.—MANUFACTURING, BY INDUSTRY GROUP: 1972 AND 1967

Code	Industry	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	Capital expenditures, new (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (million)	Wages (million dollars)						
	All industries, total ³	765	238	24.8	190.2	17.6	33.1	113.0	412.3	543.8	953.6	46.6	25.4	326.2
20	Food and kindred products	204	67	11.7	86.7	8.8	16.9	56.1	206.7	301.6	507.9	18.7	14.2	185.4
201	Meat products	18	8	.4	2.7	.3	.5	1.8	5.9	24.0	30.0	(D)	BB	(D)
203	Preserved fruits and vegetables	36	5	4.9	28.2	4.4	8.0	22.0	70.5	71.2	141.7	2.3	(NA)	(NA)
2033	Canned fruits and vegetables	15	5	4.8	27.4	4.3	7.8	21.5	69.0	69.4	138.4	2.1	6.8	67.2
203	Bakery products	17	7	.7	6.1	.4	.7	3.0	11.2	7.7	18.9	.5	.7	8.7
2051	Bread, cake, and related products	13	5	.6	5.5	.3	.6	2.7	10.3	6.2	16.5	.5	.6	7.9
206	Sugar and confectionery products	37	24	3.8	32.8	2.6	5.4	21.4	80.3	122.8	202.7	(D)	(NA)	(NA)
2061	Raw cane sugar	18	18	3.3	29.5	2.3	4.8	19.4	70.8	106.7	177.5	13.5	3.8	71.3
209	Misc. foods and kindred products	56	6	.7	4.5	.5	1.1	3.1	9.4	13.3	22.7	.6	(NA)	(NA)
23	Apparel, other textile products	120	55	3.3	15.5	2.9	5.3	11.8	31.0	17.4	47.7	.6	2.5	16.3
2335	Women's and misses' dresses	50	25	1.7	7.9	1.4	2.5	5.8	15.8	7.9	23.4	.2	1.0	6.7
239	Misc. fabricated textile products	21	5	.3	1.1	.3	.5	.8	2.0	2.5	4.5	.1	(NA)	(NA)
24	Lumber and wood products	38	12	.9	7.4	.7	1.3	5.4	13.1	12.4	25.3	.6	(NA)	(NA)
25	Furniture and fixtures	26	11	.7	5.1	.4	.7	2.4	7.9	11.1	18.4	1.0	CC	(D)
251	Household furniture	16	9	.6	4.3	.3	.6	2.0	6.6	10.2	16.1	.9	(NA)	(NA)
27	Printing and publishing	115	22	2.7	23.9	1.4	2.4	11.9	53.1	20.1	73.2	9.1	2.0	27.0
275	Commercial printing	64	9	.7	6.8	.5	.9	4.3	13.4	9.1	22.7	1.4	(NA)	(NA)
2752	Commercial printing, lithographic	26	8	.5	5.3	.3	.6	3.3	9.4	5.8	15.2	1.1	(NA)	(NA)

(Continued on next page)

Table 270.—MANUFACTURING, BY INDUSTRY GROUP: 1972 AND 1967 (continued)

Code	Industry	1972										1967		
		Establishments		All employees		Production workers			Value added by manufacture (million dollars)	Cost of materials ² (million dollars)	Value of shipments ² (million dollars)	Capital expenditures, new (million dollars)	All employees (1,000)	Value added by manufacture (million dollars)
		Total (number)	With 20 employees or more (number)	Number (1,000)	Payroll (million dollars)	Number (1,000)	Man-hours (million)	Wages (million dollars)						
32	Stone, clay, and glass products . . .	40	12	1.0	11.7	.7	1.5	7.4	29.4	23.8	53.2	4.0	1.1	18.4
35	Machinery, except electrical	28	3	.4	3.4	.3	.5	2.4	4.8	3.6	7.7	.2	.5	5.5
39	Misc. manufacturing industries . . .	53	9	.8	3.8	.6	1.1	1.9	6.7	4.8	11.5	.8	.5	2.0
399	Miscellaneous manufactures	26	5	.6	2.3	.4	.8	1.0	3.6	2.6	6.3	.7	.3	1.1
—	Administrative and auxiliary	22	9	.8	11.2	—	—	—	—	—	—	—	1.0	—

Note: The following symbols indicate employment size range for 1967:

AA less than 250 employees
 BB 250 to 499 employees
 CC 500 to 999 employees

EE 1,000 to 2,499 employees
 FF 2,500 employees and over

— Represents zero.

NA Not available. Because of a revision to this industry or industry group in the 1972 edition of the SIC manual, 1967 census data are not available on a comparable basis.

D Withheld to avoid disclosing figures for individual companies.

¹Includes employment and payroll at central administrative offices and auxiliary units.

²The total cost of materials and value of shipments for industry groups may include extensive duplication arising from shipments between establishments in the same industry classification.

³Includes figures for industry groups which have not been separately reported.

Source of tables 269 and 270: U.S. Bureau of the Census, *1972 Census of Manufactures*, MC72(P)-S12, p. 2.

**Table 271.—GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING,
AND MANUFACTURING: 1936 TO 1973**
(In thousands of dollars)

Year reported ¹	Total	Sugar processing	Pineapple canning ²	Manufacturing ³
1936	(NA)	62,333	36,836	(NA)
1940	96,228	46,141	35,972	14,115
1945	132,312	62,107	41,460	28,745
1950	277,705	109,484	94,742	73,479
1955	330,219	120,516	105,936	103,767
1960	341,757	99,079	96,939	145,739
1961	380,689	118,398	93,777	168,514
1962	392,628	135,328	99,143	158,157
1963	416,615	146,761	99,353	170,501
1964	436,741	148,103	109,808	178,830
1965	465,203	152,701	123,761	188,741
1966	490,119	178,909	105,747	205,463
1967	521,122	171,155	131,695	218,272
1968	533,288	184,663	114,554	234,071
1969	592,692	196,744	116,466	279,482
1970	575,222	175,337	114,634	285,251
1971	599,686	190,209	124,548	284,929
1972	638,059	205,962	124,265	307,833
1973	692,715	213,095	123,597	356,023

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 and later years.

✓
Table 272.—PINEAPPLE PRODUCTION: 1903 TO 1973
 (Hawaiian pack only; excludes overseas production by Hawaiian companies.)

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	28,965,634	17,961,497	11,004,137	789,348
1972-73	25,173,461	15,891,173	9,282,288	633,870

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 273.—SUGAR PRODUCTION: 1837 TO 1973

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	229,611	1,118,883	91.55	9.10	29.09	9.22
1973	226,580	1,128,529	89.15	10.30	30.86	...

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 1973* (1973), pp. 6-9, and records.

DISTRIBUTION AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement 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 1973, the retailing tax base rose 101 percent, the wholesaling base by 128 percent, and the base for services by 114 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 37,319 in February 1974. There were 280 hotels, motels and apartment-hotels in the State on the latter date, including 151 on the Neighbor Islands—the first time in modern history that these islands surpassed Oahu on this score. Occupancy rates averaged 81.5 percent in Waikiki and 70.2 percent on the Neighbor Islands during 1973. The average daily room rate was \$21.83 in 1972. The hotel payroll in 1972 totaled \$94 million, compared with \$15 million ten years earlier.

The major source for these data is the United States Census of Business, most recently conducted in 1972. 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: 1973*, Section 29, presents similar data for the nation as a whole.

**Table 274.—RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES:
1939 TO 1972**

(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
1972	6,392	1,864,985	1,336	1,538,429	6,348	683,201
ESTABLISHMENTS WITH PAYROLL						
1963	3,354	725,977	974	735,205	1,837	153,272
1967	3,537	1,041,540	1,030	1,013,813	1,947	278,556
1972	4,491	1,819,883	1,336	1,538,429	3,031	648,164

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; *U.S. Census of Business: 1972*, Reports RC72-A-12, WC72-A-12, and SC72-A-12.

✓ Table 275.—RETAIL TRADE, BY KIND OF BUSINESS AND GEOGRAPHIC AREA: 1972

Geographic area and kind of business	All establishments		Establishments with payroll				
	Number	Sales (\$1,000)	Number	Sales (\$1,000)	Payroll (\$1,000)		Paid employees, mid-March
					Entire year	First quarter	
Retail trade, total	6,392	1,864,985	4,491	1,819,883	270,112	63,935	59,887
GEOGRAPHIC AREA							
City and Co. of Honolulu	4,733	1,508,305	3,303	1,475,981	223,910	52,900	49,150
Honolulu	3,487	1,160,092	2,547	1,136,921	179,533	42,563	39,002
Kailua	186	57,128	128	55,924	7,441	1,822	1,739
Kaneohe	146	47,760	89	46,853	5,847	1,557	1,282
Pearl City	103	34,531	47	33,596	4,023	925	965
Wahiawa	141	29,724	88	28,459	4,226	1,023	970
Waipahu	163	87,160	118	86,186	10,505	2,503	2,205
Remainder of county	507	91,910	286	88,042	12,335	2,507	2,987
Hawaii County	763	167,199	540	161,508	22,253	5,298	4,957
Hilo	396	118,378	304	116,012	16,316	3,784	3,476
Remainder of county	367	48,821	236	45,496	5,937	1,514	1,481
Kauai County	362	73,458	254	70,038	9,243	2,290	2,183
Lihue	110	36,577	88	35,884	5,265	1,221	1,040
Remainder of county	252	36,881	166	34,154	3,978	1,069	1,143
Maui County	534	116,023	394	112,356	14,706	3,447	3,597
Kahului	80	37,897	67	37,767	4,291	994	970
Lahaina	143	25,704	117	25,038	4,001	922	999
Wailuku	128	28,257	94	27,319	3,494	829	804
Remainder of county	183	24,165	116	22,232	2,920	702	824
KIND OF BUSINESS							
Bldg. mat., hardware, garden	126	34,572	81	33,692	5,199	1,331	756
General merchandise stores	261	334,702	194	332,101	47,524	10,358	9,977
Food stores	774	414,771	569	404,552	38,625	9,421	7,817
Automotive dealers	246	269,794	192	268,298	30,545	7,324	3,602
Gasoline service stations	480	106,688	427	104,217	13,729	3,269	4,086
Apparel and accessory stores	579	107,766	504	105,667	16,814	3,867	3,765
Furniture, home furnishings	409	83,545	290	80,315	12,113	2,810	1,937
Eating and drinking places	1,418	261,375	1,255	258,337	74,450	17,956	21,634
Drug and proprietary stores	107	90,117	96	89,491	8,982	2,296	1,641
Miscellaneous retail stores	1,992	161,655	883	143,213	22,131	5,303	4,672

Source: U.S. Bureau of the Census, *Census of Retail Trade, 1972, Hawaii*, RC72-A-12.

Table 276.—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 277.—WHOLESALE TRADE: 1972

SIC Code	Selected kinds of business	Total			Merchant wholesalers		Other operating types ¹		Percentage change, 1967 to 1972 ² (total)	
		Estab-lish-ments (number)	Sales (\$1,000)	Payroll entire year (\$1,000)	Estab-lish-ments (number)	Sales (\$1,000)	Estab-lish-ments (number)	Sales (\$1,000)	Sales	Payroll entire year
	Wholesale trade, total	1,185	1,520,231	113,328	949	990,283	236	529,948	50	49
	DURABLE GOODS									
50	Total ³	589	661,830	65,394	493	515,332	96	146,498	(NA)	(NA)
501	Motor vehicles and automotive parts and supplies	78	107,969	10,582	(NA)	(NA)	(NA)	(NA)	72	97
502	Furniture and home furnishings	37	51,048	4,087	(NA)	(NA)	(NA)	(NA)	206	99
504	Sporting, recreational, photographic and hobby goods, toys and supplies	50	39,935	4,524	(NA)	(NA)	(NA)	(NA)	85	93
	NONDURABLE GOODS									
51	Total ³	596	858,401	47,934	456	474,951	140	383,450	(NA)	(NA)
513	Apparel, piece goods, and notions	53	76,471	6,178	(NA)	(NA)	(NA)	(NA)	158	212
514	Groceries and related products . .	226	313,776	17,448	175	218,803	51	94,973	28	47
517	Petroleum and petroleum products	42	212,301	2,885	15	4,495	27	207,806	(NA)	(NA)

(NA) Not available.

¹Includes merchandise agents and brokers, and manufacturers' sales branches and sales offices.²Percentage change may be affected by the shifting of some establishments from retail to wholesale because of classification rule changes in the lumber; paint, glass, and wallpaper; electrical supply; farm equipment and supply; hay, grain, and feed; and plumbing, heating, and air-conditioning kinds of business.³Not all kinds-of-business classifications are shown separately; therefore, the detail will not add to the total.

Source: U.S. Department of Commerce, News Release WC72(P)-12, December 17, 1973.

Table 278.—SELECTED SERVICES: 1972
(Data shown only for establishments with payroll)

SIC Code	Kind of business ¹	Estab-lish-ments (number)	Receipts (\$1,000)	Payroll entire year (\$1,000)	Paid employees for week including March 12 (number)	Percent change 1967 to 1972		Approximate percent of total receipts covered ²
						Receipts	Payroll entire year	
	Selected services, total	2,725	587,762	189,552	35,159	78	72	94
701, 3	Hotels, motels, trailering parks, camps, total	173	225,259	67,078	13,414	100	105	100
701	Hotels, motor hotels, and motels	171	225,071	67,038	13,408	(D)	(D)	(NA)
72	Personal services, total	698	43,620	17,819	4,447	24	19	87
721	Laundry, cleaning, and other garment services	137	19,729	8,122	1,928	22	12	93
722	Photographic studios, portrait	29	1,787	490	93	(NA)	(NA)	(NA)
723	Beauty shops	341	10,863	5,418	1,212	22	32	89
724	Barber shops	117	2,513	1,265	320	-7	-11	67
726	Funeral service and crematories	20	3,336	772	160	32	22	100
73	Business services, total	554	93,366	33,739	6,804	30	12	94
731	Advertising	37	21,961	3,056	318	72	87	97
734	Services to dwellings and other buildings	131	12,704	6,518	2,016	93	75	92
737	Computer and data processing services	28	7,825	3,694	425	(NA)	(NA)	(NA)
7392	Management, consulting, public relations services	66	6,211	2,473	332	(NA)	(NA)	(NA)
7394	Equipment rental and leasing services	63	9,217	2,331	303	(NA)	(NA)	(NA)
75	Automotive repair, services, and garages, total	357	66,279	15,789	2,620	79	102	94
753	Automotive repair shops	233	25,407	7,979	1,200	42	61	90
751	Automotive rental and leasing, without drivers	81	35,150	6,232	1,044	104	162	(NA)
752	Automobile parking	22	3,626	893	236	(D)	(D)	(D)
754	Automotive services, except repair	22	2,023	685	140	(D)	(D)	(D)
76	Miscellaneous repair services, total	170	16,053	5,477	863	120	130	75
762	Electrical and electronic repair shops	57	5,680	2,194	266	206	261	66
78, 79	Amusement and recreation services, including motion pictures, total	375	60,512	20,881	4,339	101	138	95
783	Motion picture theaters	54	10,757	2,058	648	(D)	(D)	(D)
792	Producers, orchestras, entertainers	127	7,850	3,887	715	95	83	90
7933	Bowling alleys	25	4,761	1,374	418	36	16	95
8072	Dental laboratories	17	1,697	853	116	100	110	91
81	Legal services	186	26,118	5,665	644	(NA)	(NA)	87
891	Architectural, engineering, and land-surveying services	195	54,858	22,251	1,912	(NA)	(NA)	92

NA Not available.

D Withheld to avoid disclosure of data for individual companies.

¹All kind-of-business classifications are not shown separately; therefore the detail will not add to the total.

²Percent that establishments with payroll represented of total receipts of all establishments in the 1967 census.

Source: U.S. Department of Commerce, News Release SC72(P)-12, December 3, 1973.

Table 279.—HOTEL UNITS, OCCUPANCY RATES, EMPLOYMENT, AND PAYROLL: 1940 TO 1973

Year	Number of hotel units ¹			Percent occupied ²		Hotel employment ²	Payroll (\$1,000)
	State total	Oahu	Neighbor islands	Waikiki	Neighbor islands		
1940	2,634	2,101	533	(NA)	(NA)	1,735	1,742
1946	1,572	1,006	566	(NA)	(NA)	1,313	2,675
1950	2,003	1,415	588	(NA)	(NA)	1,830	4,219
1955	4,115	3,300	815	81.5	(NA)	2,913	7,784
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	17,619	93,915
1973	37,319	24,969	12,350	81.5	70.2	(NA)	(NA)

NA Not available.

¹Month unspecified, 1940 to 1955; 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 280.—HOTELS AND RELATED FACILITIES, BY GEOGRAPHIC AREA: 1970 TO 1974

Geographic area	Visitor plants ¹			Units		
	Feb. 1970	Feb. 1973	Feb. 1974	Feb. 1970	Feb. 1973	Feb. 1974
State total	275	276	280	26,923	36,608	38,675
Oahu	152	139	129	18,449	25,108	25,365
Waikiki ²	124	109	101	16,590	21,540	21,843
Hotels	55	59	60	13,825	18,265	18,793
Apt. hotels	63	45	40	2,488	2,985	3,012
Other ³	6	5	1	277	290	38
Rest of Oahu	28	30	28	1,859	3,568	3,522
Other islands	123	137	151	8,474	11,500	13,310
Hawaii	41	44	47	3,166	4,796	5,234
Kauai	31	33	35	2,565	2,629	2,868
Maui	48	57	66	2,643	3,976	5,109
Molokai	2	2	2	89	88	88
Lanai	1	1	1	11	11	11

¹Hotels, apartment-hotels, motels, cottages, etc.

²Includes Diamond Head and Kahala.

³Motels, cottages, etc.

Source: Hawaii Visitors Bureau, *Visitor Plant Inventory* for months specified.

Table 281.—HOTEL UNITS, 1973 AND 1974, AND OCCUPANCY RATES, 1972 AND 1973, BY GEOGRAPHIC AREA

Geographic area	Number of units			Percent occupied ¹	
	Feb. 1973 (existing)	February 1974		1972	1973
		Existing	Planned ²		
State total	36,608	38,675	14,407 †	(NA)	(NA)
Oahu	25,108	25,365	3,770	(NA)	(NA)
Waikiki and Kahala ³	21,540	21,843	3,112	70.0	81.5
Ala Moana	1,629	1,629	—	} (NA)	(NA)
Central Honolulu	127	128	—		
Airport	496	491	210		
Leeward Oahu	703	675	400		
Windward Oahu	613	599	48		
Hawaii	4,796	5,234	4,239	61.9	62.3
Hilo and Honokaa	1,817	1,782	349	65.1	63.2
Volcano	37	37	—	} 72.4	70.1
Ka'u	21	13	120		
North and South Kohala	339	393	—		
North and South Kona	2,582	3,009	3,770	57.8	60.3
Maui	3,796	5,109	2,837	70.6	75.8
Wailuku and Kahului	384	397	—	78.5	78.4
Lahaina to Napili	2,954	3,784	1,746	71.4	62.1
Kihei and Maalaea	526	817	1,051	} 59.4	76.5
Kula, Makawao, and Paia	25	25	40		
Hana	87	86	—		
Kauai	2,629	2,868	2,557	67.7	75.9
Kapaa and Wailua	1,333	1,582	645	} 67.8	75.8
Lihue	661	618	170		
Poipu and Kukuiula	422	548	635	73.1	81.9
Kalaheo	23	17	3	} 53.7	59.0
Kokee	12	12	—		
Hanalei	178	91	1,104		
Molokai	88	88	1,004	(NA)	(NA)
Lanai	11	11	—	(NA)	(NA)

NA Not available.

¹Annual averages.

²Under construction or announced for future construction. Includes 1,571 to be completed in 1974, 2,838 in 1975, 3,044 in 1976, and 6,954 indefinite.

³Occupancy data limited to Waikiki and Diamond Head.

Source: Hawaii Visitors Bureau, 1972 Annual Research Report, pp. 25-28; Visitor Plant Inventory, February 1974; and records.

✓ **Table 282.—OPERATIONS OF SELECTED RESORT HOTELS: 1967 TO 1973**

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
1972	595	72.3	1.90	21.83	11.49	21.17	25.1
1973	595	80.1	1.91	23.64	12.36	22.67	30.2

Source: Harris, Kerr, Forster & Company, *Trends in the Hotel-Motel Business* (annual).

✓ **283.—LIQUOR AND TOBACCO TAX BASES: 1949 TO 1973**

(Bases are the wholesale values of alcoholic beverages and tobacco products sold in Hawaii)

Year	Liquor tax base (\$1,000)	Tobacco tax base (\$1,000)	Year	Liquor tax base (\$1,000)	Tobacco tax base (\$1,000)
1949	17,731	7,503	1964	24,981	11,909
1950	14,733	6,970	1965	26,537	12,567
1951	16,038	7,493	1966	28,801	10,785
1952	16,342	7,451	1967	30,075	12,051
1953	16,381	7,530	1968	33,040	12,825
1954	17,245	7,816			
1955	17,386	8,259	1969	35,506	14,341
1956	17,525	8,396	1970	40,509	15,565
1957	18,504	8,849	1971	43,535	16,617
1958	17,683	8,622	1972	47,077	15,643
			1973	54,917	19,887
1959	19,827	9,532			
1960	21,250	10,573			
1961	22,064	11,469			
1962	22,639	11,888			
1963	23,063	11,928			

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

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Table 284.—GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1936 TO 1973

Year reported ¹	Retailing	Services ²	Theater, amusement, broadcasting, etc.	Wholesaling
1936	105,714	15,310	3,115	(NA)
1940	144,795	20,566	5,038	91,707
1945	427,387	56,425	15,425	219,110
1950	480,472	69,271	13,293	219,924
1955	588,987	108,527	16,686	264,297
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
1973	2,560,799	697,419	60,079	1,220,818

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 and later years.

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from \$2,835,000 in 1901 to \$8,007,000 in 1940 and \$272.6 million in 1973. Exports to foreign countries amounted to only \$120,000 in 1901 and \$923,000 in 1940, but by 1973 exceeded \$73 million. (These figures, it should be noted, refer to merchandise imports for consumption and exports of domestic merchandise through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.)

Trade with the Mainland United States has similarly risen since the early years of the century. Merchandise received from the Mainland increased from \$10.9 million in 1903 to \$127.4 million in 1940 and \$1.2 billion in 1971. Merchandise exported to the Mainland rose from \$26.2 million in 1903 to \$102.1 million in 1940 and \$365.7 million in 1971.

Among the foreign nations, Hawaii's leading trading partner in 1972 was Japan. Imports from Japan amounted to \$93.6 million, or 38.3 percent of the total, while exports to Japan reached \$17.1 million, or 29.1 percent of all foreign exports.

The Honolulu Foreign Trade Zone received merchandise valued at \$10,550,539 in 1973.

Hawaii residents had out-of-State assets estimated at \$2,676 million in 1971. Assets of non-residents in the State at the same time amounted to approximately \$3,439 million.

Ninety-four Island firms were owned by the Japanese as of 1972. Initial investment in these businesses totalled \$24.2 million.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census (for foreign trade), the Bank of Hawaii (for interstate trade), Foreign Trade Zone No. 9, and a 1973 study by the University of Hawaii Economic Research Center on *The Economic and Social Impact of Foreign Investment in Hawaii*.

Comparable data for the nation as a whole appear in Section 30 of the *Statistical Abstract of the United States*.

Table 285.—IMPORTS AND EXPORTS: 1836 TO 1973
(In thousands of dollars)

Year ¹	Imports ²			Exports ³		
	Total ⁴	From Main-land U.S. ⁵	From other areas	Total	To Main-land U.S. ⁵	To other areas
1836 ⁶	413	246	167	(NA)	(NA)	(NA)
1841 ⁶	455	248	207	(NA)	(NA)	(NA)
1845	581	305	242	98	(NA)	(NA)
1850	1,035	589	446	443	(NA)	(NA)
1855	1,383	800	467	412	(NA)	(NA)
1860	1,224	713	348	677	(NA)	(NA)
1865	1,946	867	854	1,717	(NA)	(NA)
1870	1,930	1,054	644	2,034	(NA)	(NA)
1875	1,682	947	539	2,028	(NA)	(NA)
1880	3,673	2,628	875	4,876	(NA)	(NA)
1885	3,831	2,941	890	9,069	8,933	136
1890	6,962	5,259	1,703	13,143	13,073	69
1895 ⁷	5,714	4,516	1,198	8,474	8,392	82
1901	(NA)	(NA)	2,835	28,023	27,903	120
1905	14,768	11,753	3,015	36,172	36,112	60
1910	25,166	20,560	4,606	46,490	46,183	307
1915	30,721	25,005	5,716	62,465	62,087	378
1920	86,337	74,052	12,285	195,821	192,383	3,438
1925	83,754	72,924	10,830	104,625	102,781	1,845
1930	91,126	81,726	9,400	100,916	98,924	1,992
1935	84,553	78,925	5,628	100,034	98,696	1,338
1940	135,447	127,440	8,007	103,068	102,145	923
1945	267,046	240,829	26,217	88,047	87,461	586
1950	363,000	349,400	13,587	229,600	227,400	2,224
1955	419,500	399,600	19,854	270,800	261,700	9,107

(Continued on next page)

✓
Table 285.—IMPORTS AND EXPORTS: 1836 TO 1973 (continued)
(In thousands of dollars)

Year ¹	Imports ²			Exports ³		
	Total ⁴	From Main-land U.S. ⁵	From other areas	Total	To Main-land U.S. ⁵	To other areas
1960	566,100	519,100	46,988	263,800	243,500	20,270
1961	573,600	515,500	58,053	281,700	258,900	22,793
1962	548,400	480,100	68,297	294,400	265,500	28,908
1963	571,900	497,900	73,973	338,200	307,800	30,449
1964	652,900	567,100	85,804	324,400	283,400	40,991
1965	711,000	615,100	95,944	331,800	296,700	35,110
1966	794,000	688,800	105,200	351,100	310,600	40,500
1967	942,500	822,400	120,100	372,700	325,300	47,400
1968	1,025,400	886,700	138,700	378,100	329,100	49,000
1969	1,196,400	1,029,100	167,300	368,100	321,700	46,400
1970	1,361,500	1,194,100	167,400	391,000	339,800	51,200
1971	1,416,900	1,201,400	215,500	412,000	365,700	46,300
1972	1,447,500	1,220,000	227,500	410,600	350,200	60,400
1973	(NA)	(NA)	272,600	(NA)	(NA)	73,100

NA Not available.

¹Data for 1836, 1845-1895, and 1920 forward refer to calendar years; 1841, to the year ended August 17; and 1901-1915, to fiscal years ended June 30.

²General merchandise imports, 1836-1930; merchandise imports for consumption, 1935 forward. Data reflect the customs district where the consumption or warehouse entry is filed, which is not necessarily either the point of arrival or point of destination of the merchandise.

³Merchandise exports, including merchandise of foreign origin. Domestic goods furnished as supplies to whalers, merchantmen and national vessels in Hawaiian ports, treated as exports in trade statistics prior to 1895, are omitted from this table. Data reflect the customs district of exportation, not necessarily the point of origin of the merchandise.

⁴Totals for 1845 and 1855-1880 include merchandise for which country of origin was not reported. Beginning in 1885, all imports were reported by country of origin.

⁵Includes California, Oregon, and Washington State in the years prior to their formal annexation.

⁶Data limited to the Port of Honolulu.

⁷Data for imports include \$374,000 in specie.

Source: *The Polynesian*, September 12, 1840, September 4, 1841, March 7, 1846, and February 1, 1851; *Annual Report of the Minister of Finance* (April 1856); *Custom House Statistics*, 1860-1880; *Annual Report of the Collector General of Customs*, 1885-1895; *Statistical Abstract of the United States*, 1904-1958; U.S. Bureau of the Census, *Foreign Commerce and Navigation of the United States, 1946-1965*, and *Extracts from FT 990, Dollar Value of U.S. Exports and Imports Through Customs District of Hawaii, Calendar Years 1966-1973*; Bank of Hawaii, *Hawaii '68* (p. 45) and *Hawaii '74* (p. 45).

Table 286.—TRADE WITH NATIONS IN ASIA AND THE PACIFIC: 1961 TO 1971
(In thousands of dollars. Includes commodities transshipped 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	Food and live animals	1,548
New Zealand	8,162	1,039	Crude materials, inedible	2,879
Trust Territory	57	1,001	Mineral fuels, lubricants	1,727
			Animal and vegetable oils and fats	439
Afghanistan	5	—	Chemicals	1,082
Burma	—	4	Manufactured goods class by material	801
Cambodia	5	—	Machinery and transport. equipment	19,702
Ceylon	3	1	Miscellaneous manufactured articles	4,452
India	57	85	Commodities not classified by kind	134
Indonesia	7,947	1,266		
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.

Table 287.—IMPORTS AND EXPORTS, BY CONTINENT AND COUNTRY, FOR THE HONOLULU CUSTOMS DISTRICT: 1972 AND 1973

(Value, in dollars, of U.S. imports entered for consumption and exports of domestic merchandise through the Honolulu Customs District. The Honolulu Customs District includes Honolulu and Pearl Harbor, Honolulu International Airport, Hilo, Kahului, and Nawiliwili-Port Allen. These data include all trade through the Honolulu District, and thus may include imports intended for consumption on the Mainland or exports originated on the Mainland.)

Continent and country	Imports for consumption		Exports of domestic merchandise	
	1972	1973 ¹	1972	1973
All countries	227,498,785	272,646,776	58,644,633	72,175,572
Africa	48,168	137,699	147,967	35,510
Asia	164,911,236	188,946,526	35,757,570	40,303,380
Hong Kong	9,774,532	11,374,236	3,997,121	992,390
Indonesia	17,402,784	31,311,958	1,153,056	472,842
Japan	91,544,492	88,283,603	17,088,136	21,475,603
Korea, Rep. of	896,924	972,240	7,502,923	787,299
Peoples' Rep. of China	322,997	353,132	—	—
Rep. of China (Taiwan)	5,529,948	9,614,008	729,939	12,541,750
Other countries	39,439,559	47,037,349	5,286,395	4,033,496
Canada	14,041,644	17,590,065	778,215	888,962
Europe	13,191,161	18,647,293	10,151,287	6,002,747
France	784,653	1,710,533	2,600,988	960,669
Germany, Fed. Rep. of	7,701,298	10,563,271	3,377,672	1,651,614
United Kingdom	1,965,414	2,605,848	938,270	770,558
Other countries	2,739,796	3,767,641	3,234,357	2,619,906
Latin America	5,526,114	6,296,801	159,740	90,377
Pacific	29,780,462	27,067,375	11,649,854	24,854,596
Australia	13,381,328	9,651,795	7,670,645	18,464,474
New Zealand	8,420,802	11,097,555	823,116	2,276,471
Other countries	7,978,332	6,318,025	3,156,093	4,113,651

¹Includes \$13,961,017 of crude petroleum imported in November or December 1973, not identified by country of origin. Source: U.S. Bureau of the Census, *U.S. Imports of Merchandise for Consumption and General Imports of Merchandise . . . Customs District 32 (IA 254)* and *U.S. Exports Customs District of Exportation by Country of Destination . . . 32. Honolulu, Hawaii (EA 663)* for 1972 and 1973 (special tabulations).

Table 288.—IMPORTS AND EXPORTS, BY COMMODITY, FOR THE HONOLULU CUSTOMS DISTRICT: 1972

(In dollars. The Honolulu Customs District includes Honolulu and Pearl Harbor, Honolulu International Airport, Hilo, Kahului, and Nawiliwili-Port Allen. These data include all trade through the Honolulu District, and thus may include imports intended for consumption on the Mainland or exports originated on the Mainland.)

Commodity classification ¹	Value
IMPORTS FOR CONSUMPTION	
All commodities	227,498,785
Animal & vegetable products	39,821,627
Wood & paper; printed matter	14,559,882
Textile fibers & textile products	14,691,324
Chemicals & related products	67,130,119
Non-metallic products & minerals	4,692,209
Metals & metal products	67,903,902
Specified products & misc.	17,569,102
Special classification provisions	917,600
Special statistical reporting numbers	213,020
EXPORTS	
All commodities	58,644,633
Food & live animals	12,724,320
Beverages & tobacco	18,767
Crude materials—inedible	3,765,661
Mineral fuels, lubricants & related	1,094,685
Oils, fats, & waxes—animal & veg.	237,664
Chemicals	1,765,881
Manufactured goods	524,397
Machinery & transport equipt.	34,172,778
Misc. manuf. articles not elsewhere class.	4,312,345
Commodities not classified	28,135

¹One-digit breakdown from U.S. Tariff Schedule (for imports) and Schedule B (for exports).
Source: U.S. Bureau of the Census, U.S. Foreign Trade Statistics, U.S. Imports, 1972, and U.S. Exports, 1972, special tabulations.

Table 289.—OPERATIONS OF FOREIGN-TRADE ZONE NO. 9, HONOLULU: 1973 AND 1974

Subject	1973	1974
Area of primary zone in square feet, June 30	218,276	235,766
Firms using zone during year	140	139
Continuously	17	21
Merchandise received: Value (dollars)	11,802,749	12,598,347
Weight (short tons)	5,693	6,001
Merchandise forwarded: Value (dollars)	11,573,770	12,796,142
Weight (short tons)	5,596	6,112
Occupancy (annual average percent)	78	73
Total income (dollars)	323,866	410,939
Total expenses (dollars)	316,724	380,835
Net income (dollars)	7,142	30,104
Assets, June 30 (dollars)	1,275,333	1,344,644

Source: *Annual Report, Foreign-Trade Zone No. 9, Honolulu, Hawaii, July 1, 1973-June 30, 1974*, and records.

Table 290.—BALANCE OF INDEBTEDNESS: 1950 TO 1971
(In millions of dollars)

Year	Assets of Hawaii residents out of State	Assets of non-residents in Hawaii
1950	457	413
1955	728	924
1960	1,244	1,167
1965	2,296	2,483
1971	2,676	3,439

Source: H. Robert Heller and Emily E. Heller, *The Economic and Social Impact of Foreign Investment in Hawaii* (Economic Research Center, University of Hawaii, December 1973), p. 16.

Table 291.—JAPANESE FIRMS IN HAWAII: 1961 TO 1972

Year (Dec. 31)	Number of firms	Total capital (dollars)	Increase in capital (dollars)
1961	12	11,660,600	...
1962	14	11,750,600	90,000
1963	17	11,894,600	144,000
1964	21	12,990,600	1,096,000
1965	21	12,990,600	—
1966	30	13,218,600	228,000
1967	32	13,338,600	120,000
1968	35	13,532,100	193,500
1969	39	13,614,100	82,000
1970	47	13,935,100	321,000
1971	61	16,572,252	2,637,152
1972	94	24,186,252	7,614,000

Initial equity capital	Number of firms, 1972	Number of employees	Number of firms, 1972
Total	94	Total	94
\$10,000 or less	19	1 to 10	39
\$10,001 to \$50,000	20	11 to 20	13
\$50,001 to \$100,000	16	21 to 30	13
\$100,001 to \$500,000	11	31 to 40	8
\$500,001 to \$1,000,000	6	41 to 50	5
\$1,000,001 to \$5,000,000	4	51 to 100	3
\$5,000,001 or more	1	101 or more	6
Unknown	17	Unknown	7

Source: H. Robert Heller and Emily E. Heller, *The Economic and Social Impact of Foreign Investment in Hawaii* (Economic Research Center, University of Hawaii, December 1973), pp. 61 and 64.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

CONVERSIONS

U.S.		to	Metric	Metric		to	U.S.
Inches	×	25.4	= millimeters	Millimeters	×	0.039	= inches
Feet	×	0.305	= meters	Meters	×	3.281	= feet
Yards	×	0.914	= meters	Meters	×	1.094	= yards
Miles	×	1.609	= kilometers	Kilometers	×	0.621	= miles
Square inches	×	6.452	= sq centimeters	Sq centimeters	×	0.155	= sq inches
Square feet	×	0.093	= sq meters	Square meters	×	10.764	= sq feet
Square yards	×	0.836	= sq meters	Square meters	×	1.196	= sq yards
Acres	×	0.405	= hectares	Hectares	×	2.471	= acres
Cubic inches	×	16.387	= cu centimeters	Cu centimeters	×	0.061	= cu inches
Cubic feet	×	0.028	= cu meters	Cu meters	×	35.315	= cu feet
Cubic yards	×	0.765	= cu meters	Cu meters	×	1.308	= cu yards
Quarts (lq)	×	0.946	= liters	Liters	×	1.057	= quarts (lq)
Gallons	×	0.004	= cu meters	Cu meters	×	264.172	= gallons
Ounces (avdp)	×	28.350	= grams	Grams	×	0.035	= ounces (avdp)
Pounds (avdp)	×	0.454	= kilograms	Kilograms	×	2.205	= pounds (avdp)

Source: U.S. National Bureau of Standards, Special Publication 304a.

UNITS OF LENGTH

U.S. Measure		to	Metric	Metric Measure		to	U.S.
Inch (in.)		=	25.4 millimeters	Millimeter (mm)	=	.001 meter	= 0.039 inch
Foot (ft)	= 12 in.	=	0.305 meter				
Yard (yd)	= 36 in. or 3 ft	=	0.914 meter	Centimeter (cm)	=	.01 meter	= 0.394 inch
				Meter (m) ¹			= 3.281 feet
Mile (mi)	= 5,280 ft or 1,760 yd	=	1.609 kilometers				
				Kilometer (km)	=	1,000 meters	= 0.621 mile

¹Defined as 1,553,164.13 wave lengths of the red light from cadmium.

UNITS OF AREA

U.S. Measure		to	Metric	Metric Measure		to	U.S.
Sq inch (sq in.)		=	6.452 cm ²				
Sq foot (sq ft)	= 144 sq in.	=	0.093 m ²	Sq millimeter (mm ²)	=	.000001 m ²	= 0.002 sq in.
Sq yard (sq yd)	= 1,296 sq in. or 9 sq ft	=	0.836 m ²	Sq centimeter (cm ²)	=	.0001 m ²	= 0.155 sq in.
				Sq meter (m ²)			
Acre	= 43,560 sq ft or 4,840 sq yd or 160 sq rd	=	0.405 ha	or centare (ca)			= 10.764 sq ft
Sq mile (Sq mi)	= 27,878,400 sq ft or 3,097,600 sq yd or 640 acres	=	2.59 km ²	Sq hectometer (hm ²)			
				or hectare (ha)	=	10,000 m ²	= 2.471 acres
				Sq kilometer (km ²)	=	1,000,000 m ²	= 0.386 sq mi

UNITS OF VOLUME

U.S. Measure	to	Metric	Metric Measure	to	U.S.
Cu inch (cu in.)	=	16.387 cm ³	Cu millimeter (mm ³) =	.000000001 m ³	= 0.00006 cu in.
Cu foot (cu ft)	=	1,728 cu in.	Cu centimeter (cm ³) =	.000001 m ³	= 0.061 cu in.
Cu yard (cu yd)	=	46,656 cu in. or 27 cu ft	Cu meter (m ³) or stere (s)		= 35.315 cu ft

Source: U.S. National Bureau of Standards, Miscellaneous Publication 233.

UNITS OF WEIGHT (OR MASS)

U.S. Measure	to	Metric	Metric Measure	to	U.S.
Avoirdupois Weight ¹			Milligram (mg)	=	.001 g = 0.015 grain, avdp/t
			Centigram (cg)	=	.01 g = 0.154 grain, avdp/t
			Decigram (dg)	=	.1 g = 1.543 grains, avdp/t
Ounce (oz. avdp)	=	28.350 grams	Gram (g)		= 0.035 oz. avdp
Pound (lb. avdp) ²	=	16 ounces	Dekagram (dkg)	=	10 g = 0.353 oz. avdp or 0.322 oz. t
Hundredweight (cwt)	=	100 pounds	Hectogram (hg)	=	100 g = 3.527 oz. avdp or 3.215 oz. t
Ton, short (tn)	=	2,000 pounds	Kilogram (kg) ⁵	=	1,000 g = 2.205 lb. avdp or 2.679 lb. t
Ton, long	=	2,240 pounds	Metric ton	=	1,000 kg = 1.012 short tons or 0.984 long tons
Troy Weight ³					
Grain	=	0.065 gram			
Pennyweight (dwt)	=	24 grains			
Ounce (oz. t) ⁴	=	480 grains			
		or 20 dwt			
Pound (lb. t)	=	5,760 grains			
		or 12 ounces			

¹Used for weighing ordinary commodities.

²Defined as 0.45359237 kilogram.

³Used for weighing precious metals, jewels, etc.

⁴Also known as fine ounces.

⁵Defined as 1.000028 cubic decimeters.

UNITS OF CAPACITY

Liquid			Dry		
U.S. Measure	to	Metric	U.S. Measure	to	Metric
			Pint (pt)		= 0.551 liter
			Quart (qt)	=	2 pints = 1.101 liters
Fluid ounce (fl oz)	=	29.573 ml			
Pint (pt)	=	16 fl oz	Bushel (bu) ²	=	64 pints = 35.238 liters or 32 quarts
Quart (qt)	=	32 fl oz			
		or 2 pt			
Gallon (gal) ¹	=	8 pt			
		or 4 qt			

¹Defined as 231 cubic inches.

²Defined as 2,150.42 cubic inches.

Metric Measure		to	U.S. Measure			
Milliliter (ml)	=	.001 liter	=	0.034 fl oz (liquid)	=	0.002 pt (dry)
Centiliter (cl)	=	.01 liter	=	0.338 fl oz (liquid)	=	0.018 pt (dry)
Liter (l) ¹			=	1.057 qt (liquid)	=	0.908 qt (dry)
Hectoliter (hl)	=	100 liters	=	26.418 gal (liquid)	=	2.838 bu (dry)

¹Defined as 1.000028 cubic decimeters.

Source: U.S. National Bureau of Standards, Miscellaneous Publication 233.

BIBLIOGRAPHY

This volume is the ninth 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, 1972 and 1973. 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 Research and Economic Analysis Division. All volumes issued prior to the present one (except for 1972) 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 *Inventory of Hawaii Planning Information* (1973). The first two are the reports of statistical symposia organized by Dr. Richard Y. P. Joun. The third is a 164-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 1974 edition, with statistics through 1973; 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 '74*,

published by the Bank of Hawaii in August 1974, and *Hawaii in 1973*, issued by the First Hawaiian Bank in November 1973.

The County of Hawaii, Department of Research and Development, has published its own *Data Book 1974*, presenting 37 pages of statistics for the Big Island.

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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.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the *Statistical Abstract of the United States* and its companion volume, the *County and City Data Book*. The *Abstract* is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 94th, dated 1973; copies are available for \$9.60 (cloth) or \$6.30 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. The *County and City Book*, most recently issued for 1972, is sold by the same agency for \$12.20. Both volumes are on the shelves of most libraries.

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